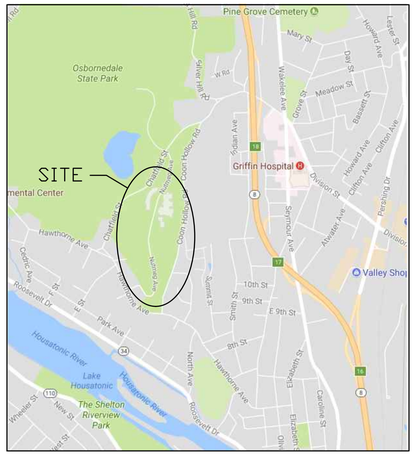
ATHLETIC FACILITIES RENOVATION PROJECT
DERBY HIGH SCHOOL

OWNER: CITY OF DERBY, CT
1 ELIZABETH STREET
DERBY, CT 06418

75 CHATFIELD STREET
DERBY, CT 06418



LOCUS PLAN

NORTH

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DRAWING LIST

SS1.00 OVERALL SITE SURVEY
SS1.01 EXISTING SITE SURVEY (TRACK & FIELD)
SS1.02 EXISTING SITE SURVEY (SOFTBALL FIELD)
SS1.03 EXISTING SITE SURVEY (FIELD EVENTS)
L0.00 OVERALL SITE PLAN
L1.01 SITE DEMOLITION PLAN (TRACK & FIELD)
L1.02 SITE DEMOLITION PLAN (SOFTBALL FIELD)
L1.03 SITE DEMOLITION PLAN (FIELD EVENTS)
L2.01 SITE LAYOUT & MATERIALS PLAN (TRACK & FIELD)
L2.02 SITE LAYOUT & MATERIALS PLAN (SOFTBALL FIELD)
L2.03 SITE LAYOUT & MATERIALS PLAN (FIELD EVENTS)
L3.01 PLANTING PLAN (TRACK & FIELD)
L3.02 PLANTING PLAN (SOFTBALL)
L3.03 PLANTING PLAN (FIELD EVENTS)
IR1.01 SITE IRRIGATION PLAN - SOFTBALL
L4.01 SITE DETAILS
L4.02 SITE DETAILS
L4.03 SITE DETAILS
L4.04 SITE DETAILS
L4.05 SITE DETAILS
L4.06 SITE DETAILS
L4.07 SITE DETAILS
L4.08 SITE DETAILS
C1.01 UTILITY DEMOLITION PLAN
C1.02 DEMOLITION EROSION AND SEDIMENTATION CONTROL PLAN
C2.01 SITE LAYOUT (TRACK & FIELD)
C2.01 SITE LAYOUT (SOFTBALL FIELD)
C3.01 SITE GRADING DRAINAGE & UTILITIES (TRACK & FIELD)
C3.02 SITE GRADING DRAINAGE & UTILITIES (SOFTBALL FIELD)
C3.03 ADD ALTERNATES
C5.01 CONSTRUCTION EROSION AND SEDIMENTATION CONTROL PLAN
C6.01 SITE DETAILS
C6.02 SITE DETAILS
C6.03 EROSION AND SEDIMENTATION CONTROL DETAILS
SUD.01 SITE UTILITY DEMOLITION PLAN
SU.01 SITE UTILITY PLAN
SU.02 SITE UTILITY PLAN ADD ALTERNATE 1
SU.00 SITE UTILITY ABBREVIATIONS, SYMBOLS & DETAILS
A1.01 BLEACHER DEMOLITION PLAN, LAYOUT & SECTIONS
A1.02 PRESS BOX PLANS, ELEVATIONS, SECTIONS & DETAILS
WALL STRUCTURE AND DETAILS
ISSUED SEPARATELY

SUBMITTED FOR BID

02/28/2018

KAESTLE BOOS ASSOCIATES, INC. — KAESTLE BOOS associates, inc — ARCHITECTURAL, STRUCTURAL & LANDSCAPE

ALFRED BENESCH & COMPANY — benesch — CIVIL ENGINEERS

CES CONSULTING ENGINEERS — MECHANICAL, PLUMBING & ELECTRICAL ENGINEERS

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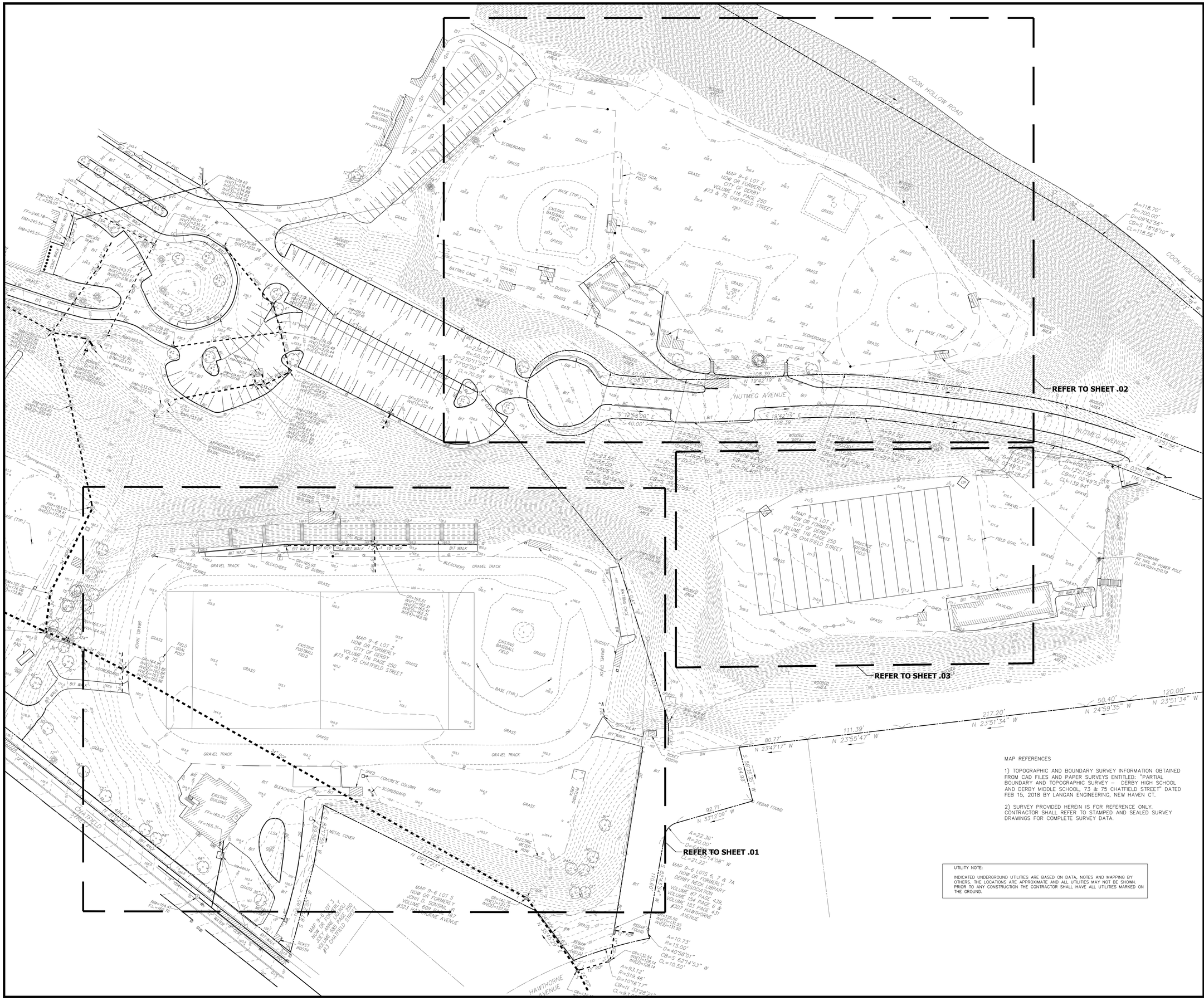
OCTOBER 27, 2017 SITE PLAN APPROVAL-REVISIONS



MAP REFERENCES

1) TOPOGRAPHIC AND BOUNDARY SURVEY INFORMATION OBTAINED FROM CAD FILES AND PAPER SURVEYS ENTITLED: "PARTIAL BOUNDARY AND TOPOGRAPHIC SURVEY – DERBY HIGH SCHOOL AND DERBY MIDDLE SCHOOL, 73 & 75 CHATFIELD STREET" DATED FEB 15, 2018 BY LANGAN ENGINEERING, NEW HAVEN CT.

2) SURVEY PROVIDED HEREIN IS FOR REFERENCE ONLY. CONTRACTOR SHALL REFER TO STAMPED AND SEALED SURVEY DRAWINGS FOR COMPLETE SURVEY DATA.

UTILITY NOTE:

INDICATED UNDERGROUND UTILITIES ARE BASED ON DATA, NOTES AND MAPPING BY OTHERS. THE LOCATIONS ARE APPROXIMATE AND ALL UTILITIES MAY NOT BE SHOWN. PRIOR TO ANY CONSTRUCTION THE CONTRACTOR SHALL HAVE ALL UTILITIES MARKED ON THE GROUND.

KAESTLE BOOS associates, inc

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325 Foxborough Boulevard, Suite 100, Foxborough, MA 02035
Phone: 508-549-9906 ▲ Fax: 508-549-9907

Email: kba@kba-architects.com ▲ Web: www.kba-architects.com

ISSUE DATE

DATE	DESCRIPTION
FEB 28, 2018	BID DOCUMENTS

REVISIONS

DATE	REFERENCE

KEY PLAN

0 20' 40' 80'
SCALE: 1" = 40'-0"
PROJECT TRUE

Copyright, 2006 City of Derby

DERBY HIGH SCHOOL ATHLETIC FACILITES RENOVATION PROJECT

75 CHATFIELD ST
DERBY, CT 06418

PROJECT NO.: 17015.00 DRAWN BY: JD, EQR

OVERALL SITE SURVEY

DRAWING NO.:
SS1.00

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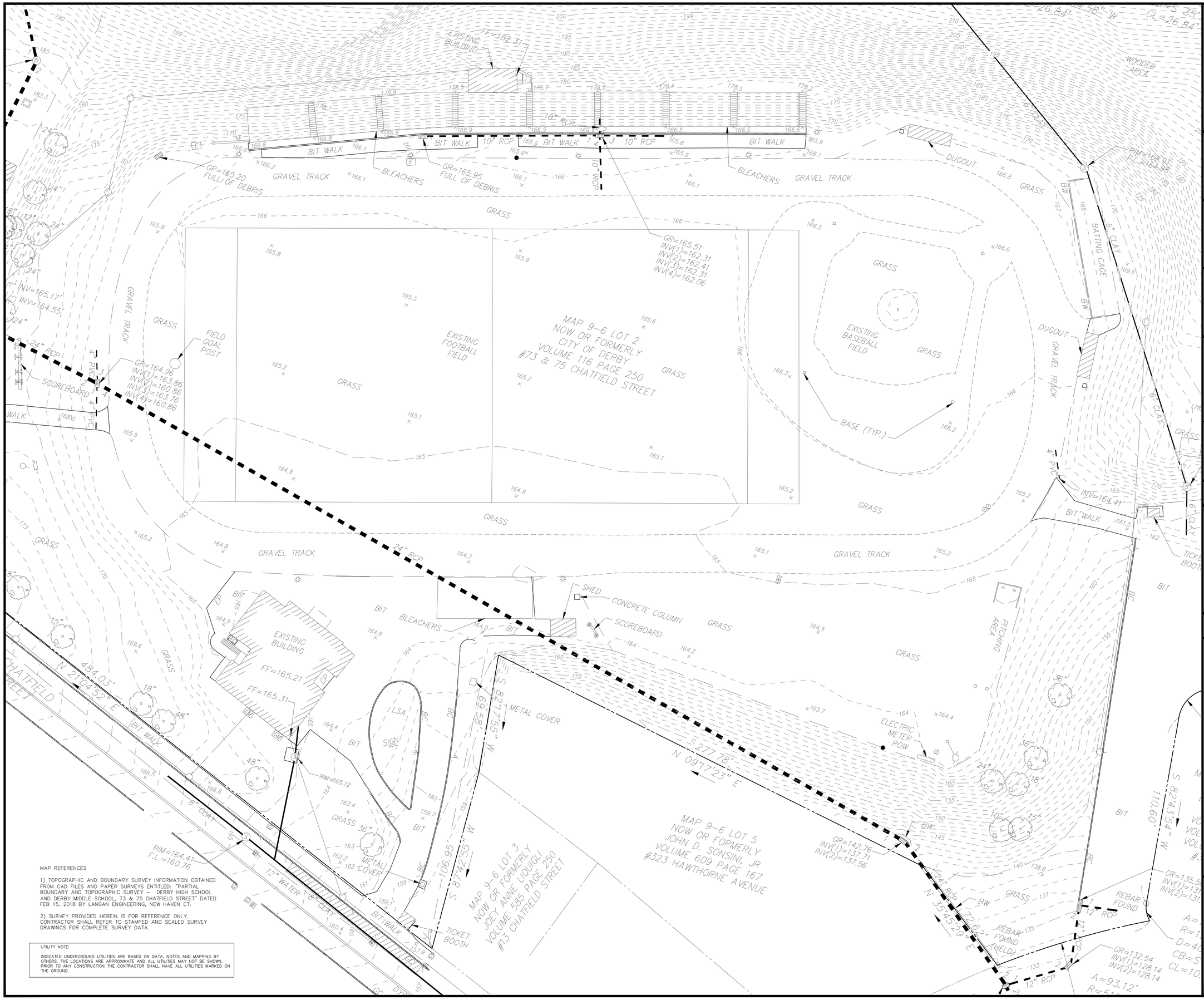

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OCTOBER 27, 2017 — SITE PLAN APPROVAL-REVISIONS

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KEY PLAN

SCALE: 1" = 20'-0" (0, 10', 20', 40')

PROJECT TRUE

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DERBY HIGH SCHOOL ATHLETIC FACILITES RENOVATION PROJECT

75 CHATFIELD ST
DERBY, CT 06418

PROJECT NO.: 17015.00 — DRAWN BY: JD, EOR

SITE SURVEY (TRACK & FIELD)

DRAWING NO.:

SS1.01

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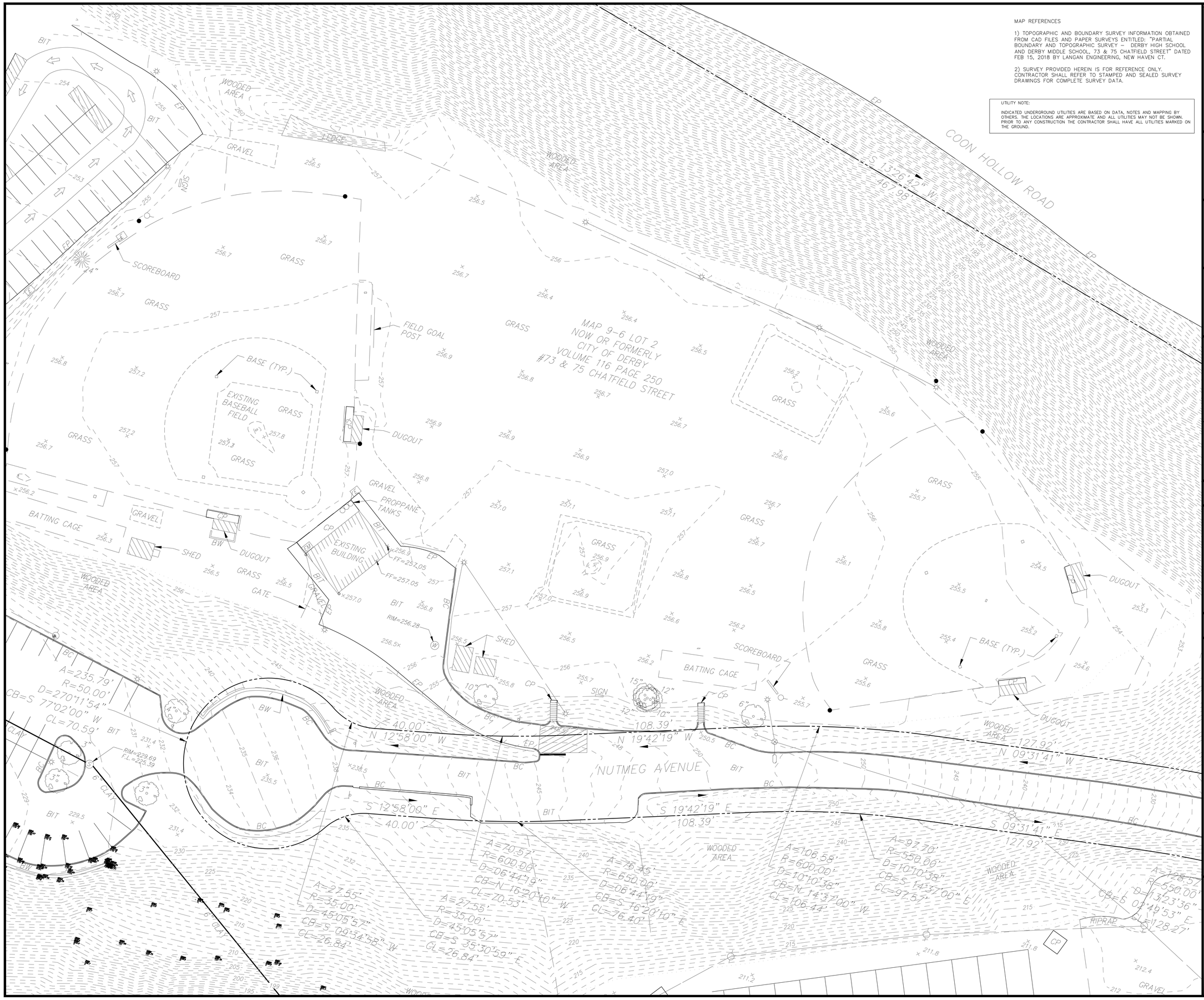

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SCALE: 1" = 20'-0"
PROJECT TRUE

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DERBY HIGH SCHOOL ATHLETIC FACILITES RENOVATION PROJECT

75 CHATFIELD ST
DERBY, CT 06418

PROJECT NO.: 17015.00 DRAWN BY: JD, EOR

SITE SURVEY (SOFTBALL FIELD)

DRAWING NO.:
SS1.02

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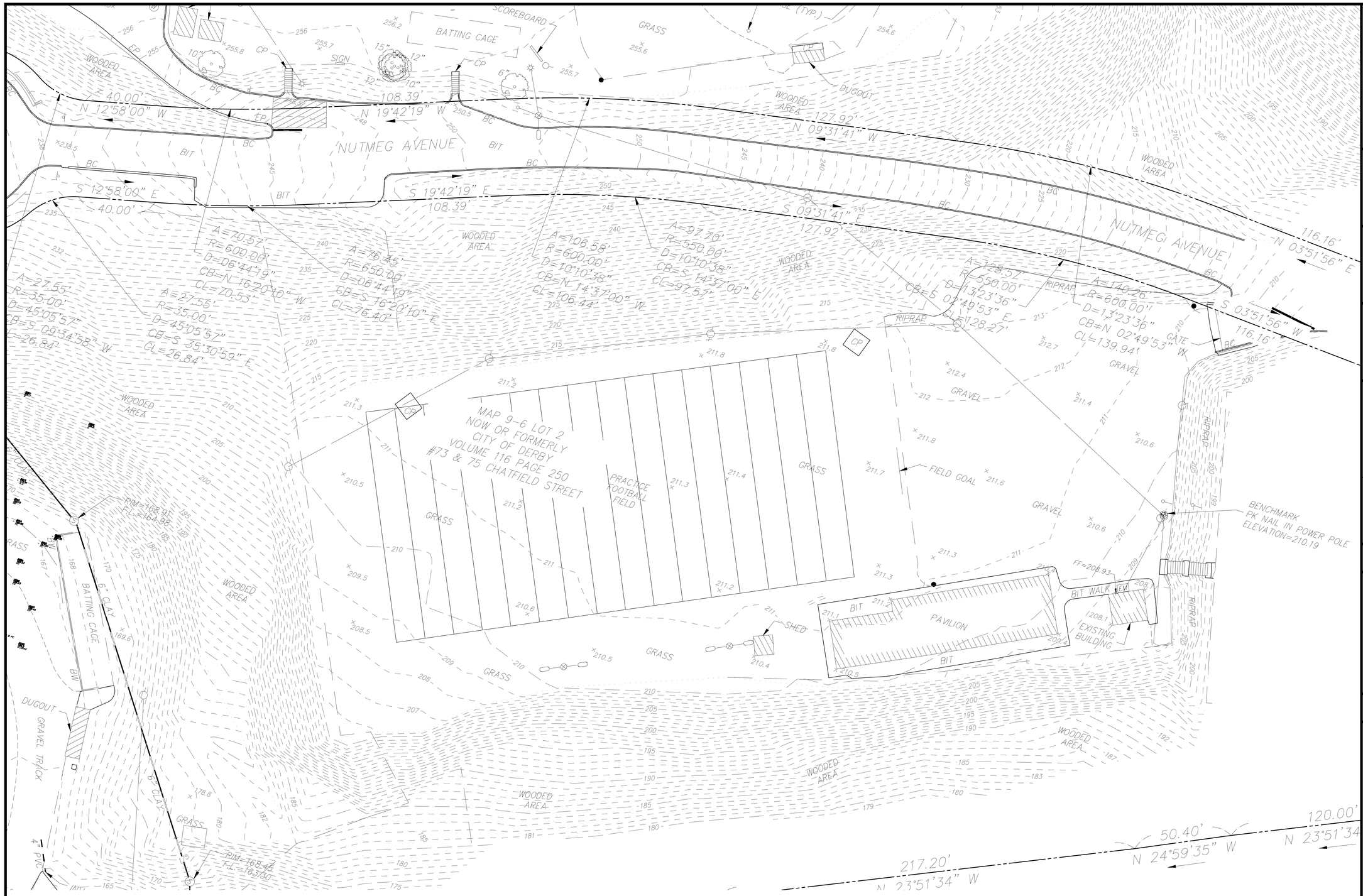

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OCTOBER 27, 2017 SITE PLAN APPROVAL-REVISIONS

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SCALE: 1" = 20'-0"
PROJECT TRUE

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DERBY HIGH SCHOOL ATHLETIC FACILITES RENOVATION PROJECT

75 CHATFIELD ST
DERBY, CT 06418

PROJECT NO.: 17015.00 DRAWN BY: JD, EGR

SITE SURVEY (FIELD EVENTS)

DRAWING NO.:
SS1.03

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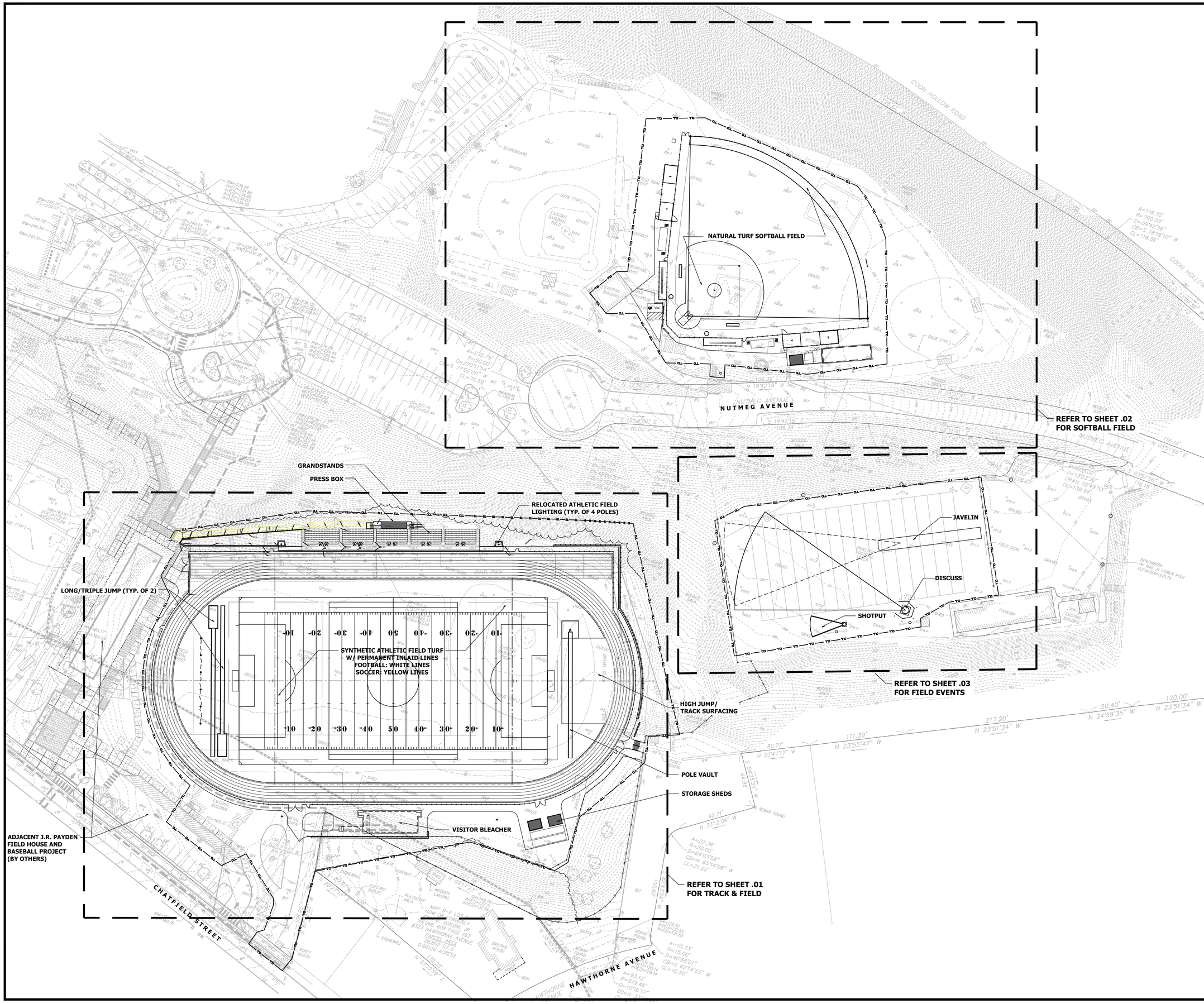

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75 CHATFIELD ST
DERBY, CT 06418

PROJECT NO.: 17015.00 DRAWN BY: JD, EOR

OVERALL SITE PLAN

DRAWING NO.:
L0.00

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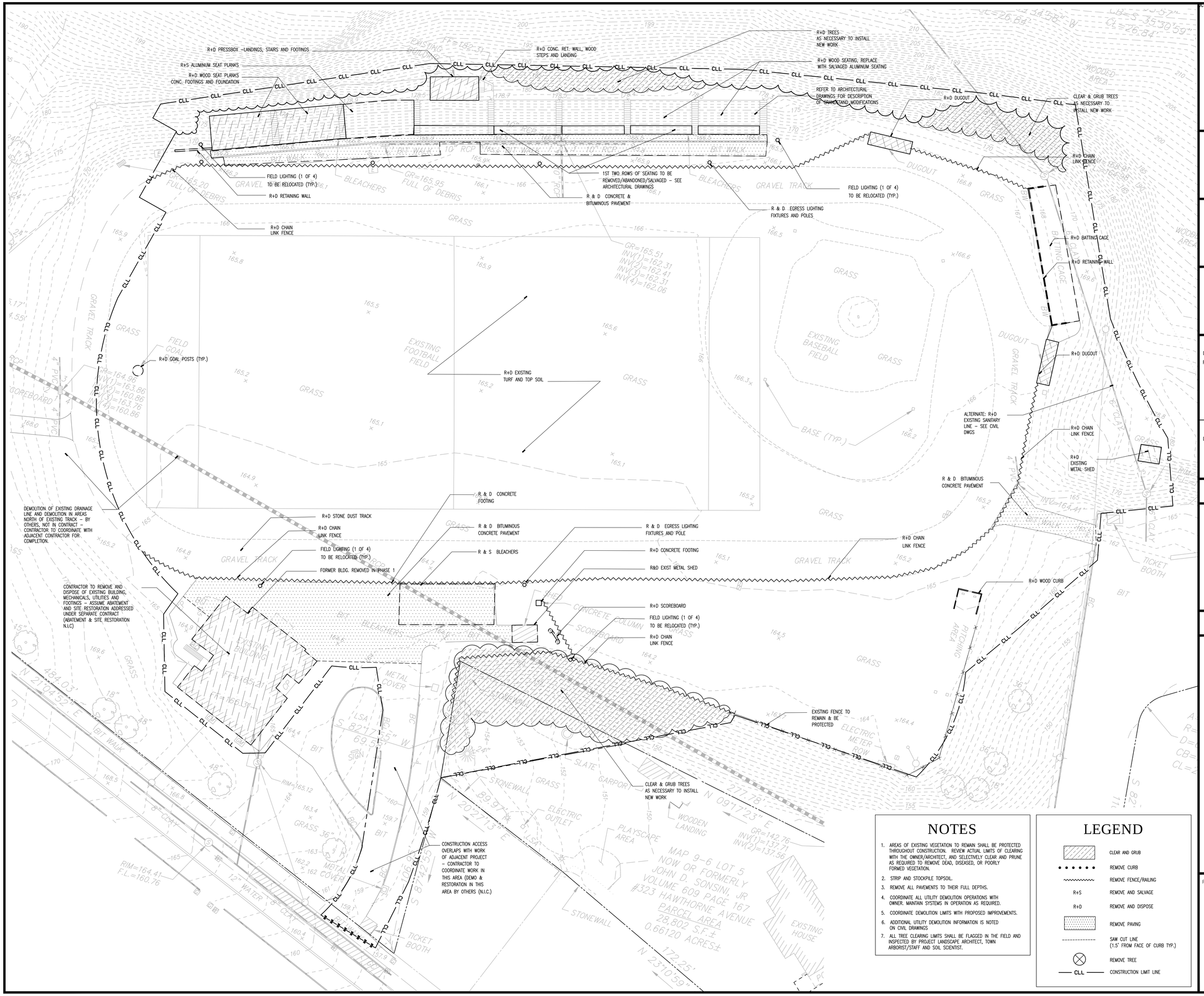
OCTOBER 27, 2017 SITE PLAN APPROVAL-REVISIONS



NOTES

1. AREAS OF EXISTING VEGETATION TO REMAIN SHALL BE PROTECTED THROUGHOUT CONSTRUCTION. REVIEW ACTUAL LIMITS OF CLEARING WITH THE OWNER/ARCHITECT, AND SELECTIVELY CLEAR AND PRUNE AS REQUIRED TO REMOVE DEAD, DISEASED, OR POORLY FORMED VEGETATION.
2. STRIP AND STOCKPILE TOPSOIL.
3. REMOVE ALL PAVEMENTS TO THEIR FULL DEPTHS.
4. COORDINATE ALL UTILITY DEMOLITION OPERATIONS WITH OWNER. MAINTAIN SYSTEMS IN OPERATION AS REQUIRED.
5. COORDINATE DEMOLITION LIMITS WITH PROPOSED IMPROVEMENTS.
6. ADDITIONAL UTILITY DEMOLITION INFORMATION IS NOTED ON CIVIL DRAWINGS
7. ALL TREE CLEARING LIMITS SHALL BE FLAGGED IN THE FIELD AND INSPECTED BY PROJECT LANDSCAPE ARCHITECT, TOWN ARBORIST/STAFF AND SOIL SCIENTIST.

LEGEND

	CLEAR AND GRUB
• • • • • •	REMOVE CURB
	REMOVE FENCE/RAILING
R+S	REMOVE AND SALVAGE
R+D	REMOVE AND DISPOSE
	REMOVE PAVING
- - - - - -	SAW CUT LINE (1.5' FROM FACE OF CURB TYP.)
⊗	REMOVE TREE
— CLL —	CONSTRUCTION LIMIT LINE

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DERBY HIGH SCHOOL ATHLETIC FACILITES RENOVATION PROJECT

75 CHATFIELD ST
DERBY, CT 06418

PROJECT NO.: 17015.00 DRAWN BY: JD, EQR

SITE DEMOLITION PLAN (TRACK/FIELD)

DRAWING NO.:
L1.01

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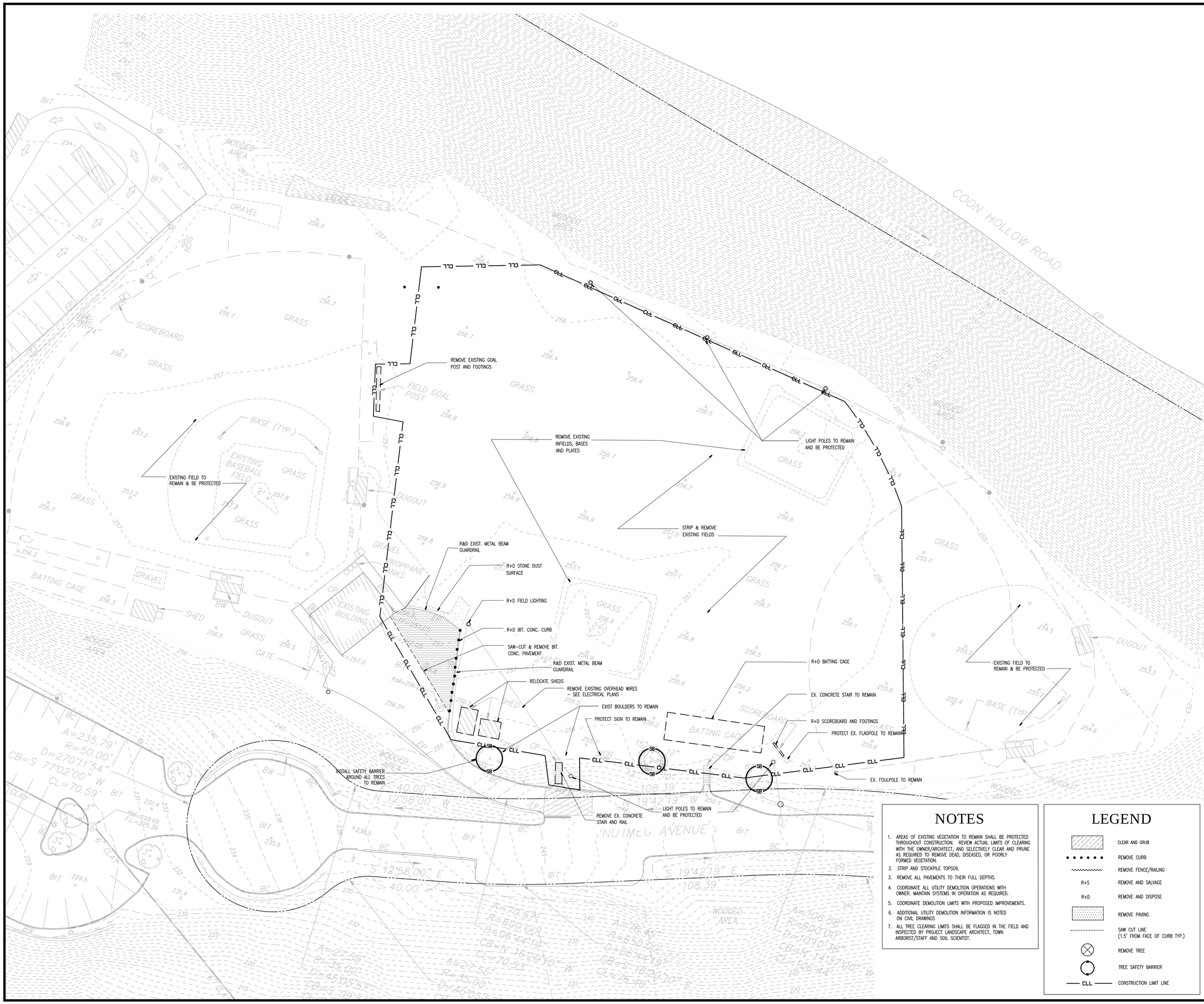

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2. STRIP AND STOCKPILE TOPSOIL
3. REMOVE ALL PAVEMENTS TO THEIR FULL DEPTHS.
4. COORDINATE ALL UTILITY DEMOLITION OPERATIONS WITH OWNER. MAINTAIN SYSTEMS IN OPERATION AS REQUIRED.
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LEGEND

	CLEAR AND GRUB
• • • • • •	REMOVE CURB
~~	REMOVE FENCE/RAILING
R+S	REMOVE AND SALVAGE
R+D	REMOVE AND DISPOSE
	REMOVE PAVING
- - - - - - - -	SAW CUT LINE (1.5' FROM FACE OF CURB TYP.)
⊗	REMOVE TREE
○	TREE SAFETY BARRIER
— CLL —	CONSTRUCTION LIMIT LINE

OCTOBER 27, 2017 SITE PLAN APPROVAL–REVISIONS

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DERBY, CT 06418

PROJECT NO.: 17015.00 DRAWN BY: JD, EQR

SITE DEMOLITION PLAN (SOFTBALL FIELD)

DRAWING NO.:
L1.02

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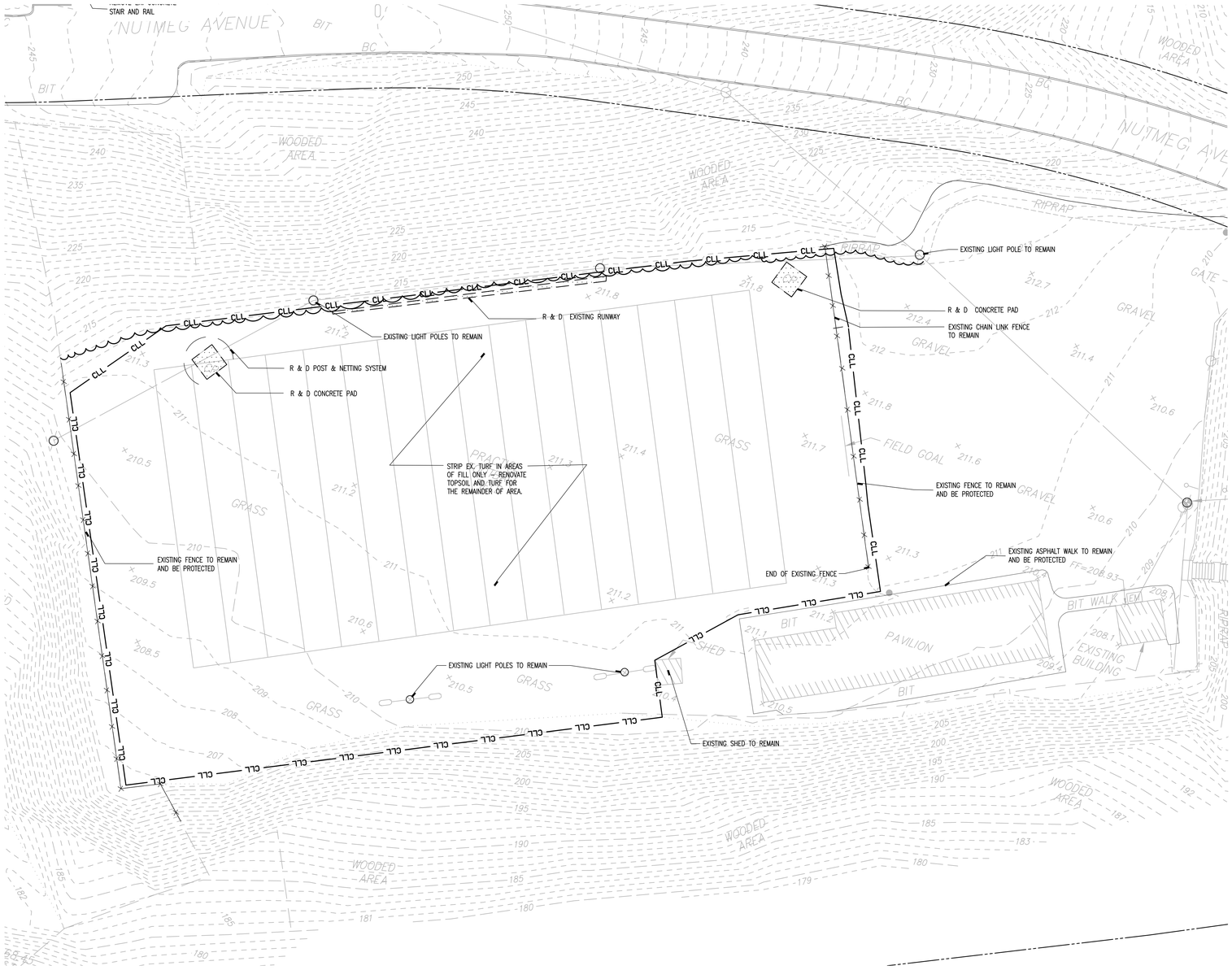

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2. STRIP AND STOCKPILE TOPSOIL.
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LEGEND

	CLEAR AND GRUB
• • • • • •	REMOVE CURB
~~	REMOVE FENCE/RAILING
R+S	REMOVE AND SALVAGE
R+D	REMOVE AND DISPOSE
	REMOVE PAVING
- - - - - - - -	SAW CUT LINE (1.5' FROM FACE OF CURB TYP.)
⊗	REMOVE TREE
—— CLL ——	CONSTRUCTION LIMIT LINE

ISSUE DATE

DATE	DESCRIPTION
FEB 28, 2018	BID DOCUMENTS

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SITE DEMOLITION PLAN (FIELD EVENTS)

DRAWING NO.:
L1.03

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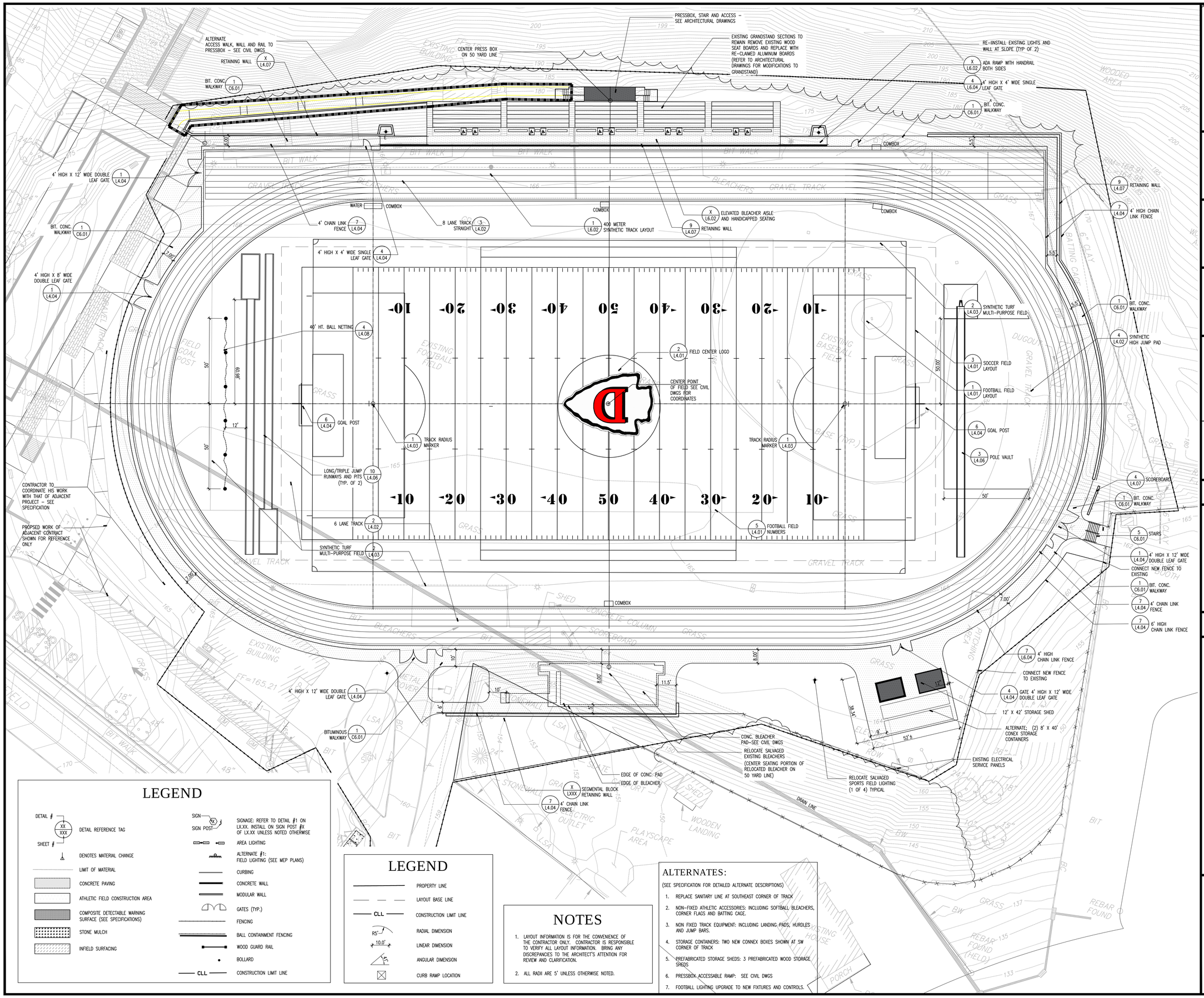

LEGEND

- DETAIL # / SHEET # — DETAIL REFERENCE TAG
- DENOTES MATERIAL CHANGE
- LIMIT OF MATERIAL
- CONCRETE PAVING
- ATHLETIC FIELD CONSTRUCTION AREA
- COMPOSITE DETECTABLE WARNING SURFACE (SEE SPECIFICATIONS)
- STONE MULCH
- INFIELD SURFACING
- SIGN / SIGN POST — SIGNAGE: REFER TO DETAIL #1 ON LX.XX. INSTALL ON SIGN POST #X OF LX.XX UNLESS NOTED OTHERWISE
- AREA LIGHTING
- ALTERNATE #1: FIELD LIGHTING (SEE MEP PLANS)
- CURBING
- CONCRETE WALL
- MODULAR WALL
- GATES (TYP.)
- FENCING
- BALL CONTAINMENT FENCING
- WOOD GUARD RAIL
- BOLLARD
- CLL — CONSTRUCTION LIMIT LINE

LEGEND

- PROPERTY LINE
- LAYOUT BASE LINE
- CLL — CONSTRUCTION LIMIT LINE
- R5' — RADIAL DIMENSION
- 10.0' — LINEAR DIMENSION
- 45° — ANGULAR DIMENSION
- CURB RAMP LOCATION

NOTES

1. LAYOUT INFORMATION IS FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL LAYOUT INFORMATION. BRING ANY DISCREPANCIES TO THE ARCHITECT'S ATTENTION FOR REVIEW AND CLARIFICATION.
2. ALL RADII ARE 5' UNLESS OTHERWISE NOTED.

ALTERNATES:

(SEE SPECIFICATION FOR DETAILED ALTERNATE DESCRIPTIONS)

1. REPLACE SANITARY LINE AT SOUTHEAST CORNER OF TRACK
2. NON-FIXED ATHLETIC ACCESSORIES: INCLUDING SOFTBALL BLEACHERS, CORNER FLAGS AND BATTING CAGE.
3. NON FIXED TRACK EQUIPMENT: INCLUDING LANDING PADS, HURDLES AND JUMP BARS.
4. STORAGE CONTAINERS: TWO NEW CONNEX BOXES SHOWN AT SW CORNER OF TRACK
5. PREFABRICATED STORAGE SHEDS: 3 PREFABRICATED WOOD STORAGE SHEDS
6. PRESSBOX ACCESSABLE RAMP: SEE CIVIL DWGS
7. FOOTBALL LIGHTING UPGRADE TO NEW FIXTURES AND CONTROLS.

OCTOBER 27, 2017 — SITE PLAN APPROVAL-REVISIONS

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PROGRESS PRINT
DATE: March 2, 2018
NOT FOR CONSTRUCTION

ISSUE DATE

DATE	DESCRIPTION
FEB 28, 2018	BID DOCUMENTS

REVISIONS

DATE	REFERENCE

KEY PLAN

SCALE: 1" = 20'-0" — 0, 10', 20', 40' — PROJECT — TRUE

Copyright, 2006 City of Derby

DERBY HIGH SCHOOL ATHLETIC FACILITES RENOVATION PROJECT

75 CHATFIELD ST
DERBY, CT 06418

PROJECT NO.: 17015.00 — DRAWN BY: JD, EQR

SITE LAYOUT + MATERIALS PLAN (TRACK/FIELD)

DRAWING NO.: L2.01

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OCTOBER 27, 2017 SITE PLAN APPROVAL-REVISIONS

ALTERNATES:

(SEE SPECIFICATION FOR DETAILED ALTERNATE DESCRIPTIONS)

1. REPLACE SANITARY LINE AT SOUTHEAST CORNER OF TRACK
2. NON-FIXED ATHLETIC ACCESSORIES: INCLUDING SOFTBALL BLEACHERS, CORNER FLAGS AND BATTING CAGE.
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5. PREFABRICATED STORAGE SHEDS: 3 PREFABRICATED WOOD STORAGE SHEDS
6. PRESSBOX ACCESSABLE RAMP: SEE CIVIL DWGS
7. FOOTBALL LIGHTING UPGRADE TO NEW FIXTURES AND CONTROLS.

FOUL POLE 8 L4.04
6' HIGH X 10' WIDE DOUBLE LEAF GATE 1 L4.04
IRRIG EQUIPMENT PAD SEE CIVIL DRAWINGS
END NETTING
CENTER OF FOUL POLE
BULLPEN (1 OF 2) 6 L4.01
STONE DUST WARNING TRACK 13 L4.03
4' HIGH FENCE ALONG THIRD BASE LINE 7 L4.04
30' HIGH BALL NETTING SYSTEM ALONG THIRD BASE LINE 4 L4.08
SOFTBALL BLEACHER - SEE SPEC
EXISTING BASEBALL FIELD TO REMAIN AND BE PROTECTED
BITUM WALK SEE CIVIL DETAILS
4' WIDE SINGLE LEAF GATE 4 L4.04
VISITOR'S DUGOUT 8 L4.07
8' HIGH CHAIN LINK FENCE 7 L4.04
EXISTING CONCESSION BUILDING TO REMAIN AND BE PROTECTED
STONE DUST 13 L4.03
TEAM BENCH (2) 1 L4.08
ELEC. OUTLETS
PAINTED PARKING LINES
LIGHT DUTY ASPHALT PAVEMENT SEE CIVIL DWGS
WOOD GUARD RAIL (4) 2 L4.08
24' HIGH BACKSTOP CHAIN LINK 16' of NETTING OVER BACKSTOP - (40' TOTAL HT) 2 L4.07
REAR CORNER HOME PLATE
ATHLETIC FIELD CONSTRUCTION 11 L4.03
CLAY INFIELD 10 L4.03
6' HIGH CHAIN LINK FENCE 210' RADIUS 7 L4.04
SCOREBOARD 5 L4.07
STONE DUST WARNING TRACK 13 L4.03
FOUL POLE 8 L4.04
8' HIGH CHAIN LINK FENCE 6 L4.04
ELEC. SCOREBOARD CONTROLS & POWER OUTLETS
8' HIGH X 4' WIDE SINGLE LEAF GATE 4 L4.04
EXISTING BASEBALL FIELD TO REMAIN AND BE PROTECTED (TYP.)
8 HIGH CHAIN LINK FENCE ALONG 1ST BASE LINE 7 L4.04
BATTING CAGE WITH POWER OUTLET 6 L4.07
BULLPEN 6 L4.01
TEAM BENCH (2) 1 L4.08
HOME DUGOUT - 1ST BASELINE SCOREBOARD CONTROLS 8 L4.07
BLEACHER ON BITUM WALK PAV'T SEE CIVIL DWGS
STORAGE SHEDS ON BITUM WALK PAV'T
NEW STORAGE SHED

LEGEND

- DETAIL # / XX XXX / SHEET # — DETAIL REFERENCE TAG
- DENOTES MATERIAL CHANGE
- LIMIT OF MATERIAL
- CONCRETE PAVING
- ATHLETIC FIELD CONSTRUCTION AREA
- COMPOSITE DETECTABLE WARNING SURFACE (SEE SPECIFICATIONS)
- INFIELD SURFACING
- STONE DUST SURFACE
- SIGN / XX / SIGN POST — SIGNAGE: REFER TO DETAIL #1 ON LX.XX. INSTALL ON SIGN POST #X OF LX.XX UNLESS NOTED OTHERWISE
- AREA LIGHTING
- ALTERNATE #1: FIELD LIGHTING (SEE MEP PLANS)
- CURBING
- CONCRETE WALL
- MODULAR WALL
- GATES (TYP.)
- FENCING
- BALL CONTAINMENT FENCING
- WOOD GUARD RAIL
- BOLLARD
- CLL — CONSTRUCTION LIMIT LINE

LEGEND

- PROPERTY LINE
- LAYOUT BASE LINE
- CLL — CONSTRUCTION LIMIT LINE
- R5' — RADIAL DIMENSION
- 10.0' — LINEAR DIMENSION
- 45° — ANGULAR DIMENSION
- X — PARKING TOTAL
- CURB RAMP LOCATION

NOTES

1. LAYOUT INFORMATION IS FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL LAYOUT INFORMATION. BRING ANY DISCREPANCIES TO THE ARCHITECT'S ATTENTION FOR REVIEW AND CLARIFICATION.
2. ALL RADII ARE 5' UNLESS OTHERWISE NOTED.

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PROGRESS PRINT
DATE: March 2, 2018
NOT FOR CONSTRUCTION

ISSUE DATE

DATE	DESCRIPTION
FEB 28, 2018	BID DOCUMENTS

REVISIONS

DATE	REFERENCE

KEY PLAN

0 10' 20' 40'
SCALE: 1" = 20'-0"
PROJECT TRUE

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DERBY HIGH SCHOOL ATHLETIC FACILITES RENOVATION PROJECT

75 CHATFIELD ST
DERBY, CT 06418

PROJECT NO.: 17015.00 DRAWN BY: JD, EQR

SITE LAYOUT + MATERIALS PLAN (SOFTBALL FIELD)

DRAWING NO.: L2.02

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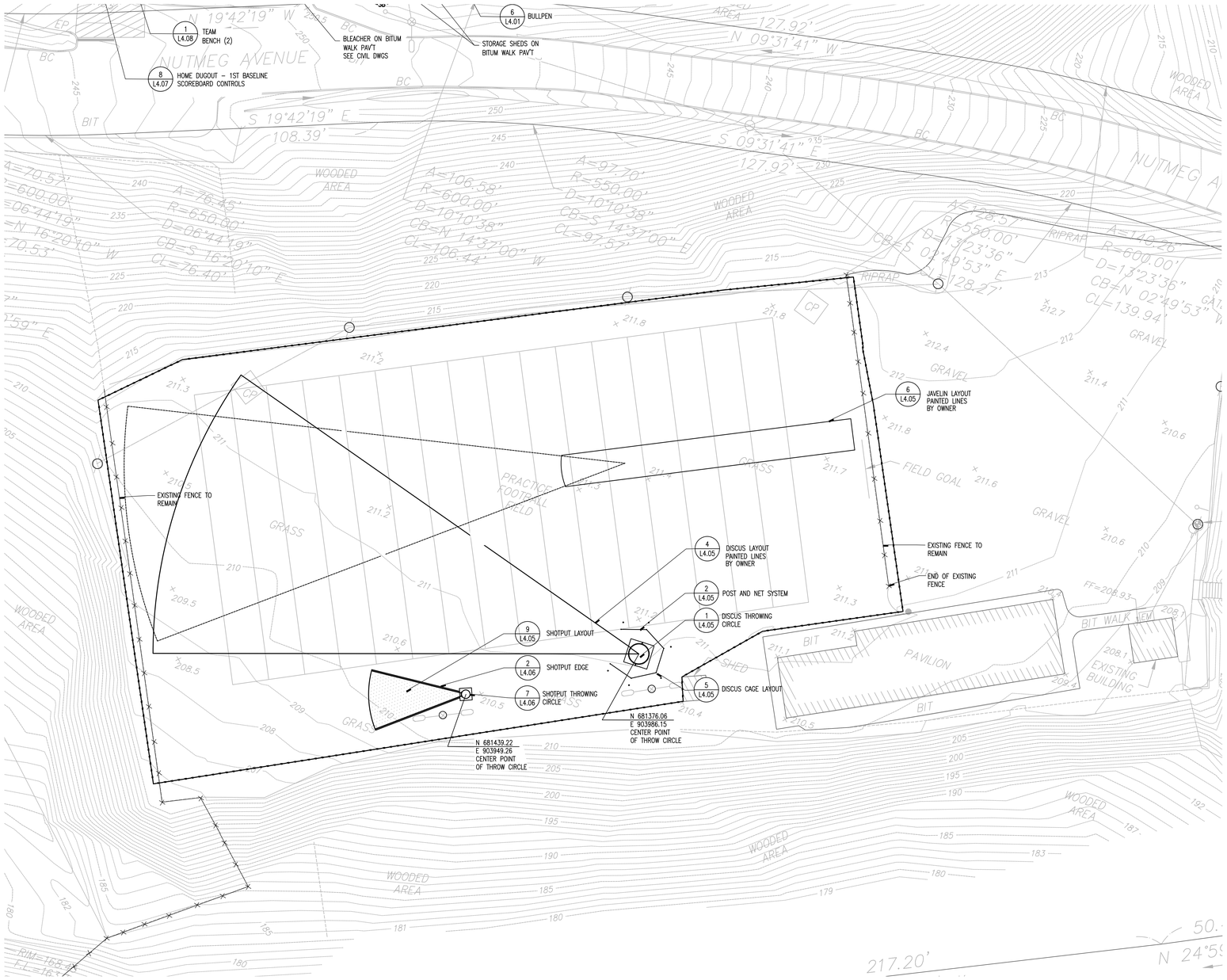

ALTERNATES:

(SEE SPECIFICATION FOR DETAILED ALTERNATE DESCRIPTIONS)

1. REPLACE SANITARY LINE AT SOUTHEAST CORNER OF TRACK
2. NON-FIXED ATHLETIC ACCESSORIES: INCLUDING SOFTBALL BLEACHERS, CORNER FLAGS AND BATTING CAGE.
3. NON FIXED TRACK EQUIPMENT: INCLUDING LANDING PADS, HURDLES AND JUMP BARS.
4. STORAGE CONTAINERS: TWO NEW CONNEX BOXES SHOWN AT SW CORNER OF TRACK
5. PREFABRICATED STORAGE SHEDS: 3 PREFABRICATED WOOD STORAGE SHEDS
6. PRESSBOX ACCESSABLE RAMP: SEE CIVIL DWGS
7. FOOTBALL LIGHTING UPGRADE TO NEW FIXTURES AND CONTROLS.

NOTES

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LEGEND

- PROPERTY LINE
- EXPANSION JOINTS
- CONTROL JOINTS
- LAYOUT BASE LINE
- CLL — CONSTRUCTION LIMIT LINE
- R5' — RADIAL DIMENSION
- 10.0' — LINEAR DIMENSION
- 45° — ANGULAR DIMENSION
- X — PARKING TOTAL
- CURB RAMP LOCATION

LEGEND

- DETAIL # / XX / XXX / SHEET # — DETAIL REFERENCE TAG
- DENOTES MATERIAL CHANGE
- LIMIT OF MATERIAL
- CONCRETE PAVING
- ATHLETIC FIELD CONSTRUCTION AREA
- COMPOSITE DETECTABLE WARNING SURFACE (SEE SPECIFICATIONS)
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- CURBING
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- MODULAR WALL
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- WOOD GUARD RAIL
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PROJECT NO.: 17015.00 DRAWN BY: JD, EQR

SITE LAYOUT + MATERIALS PLAN (FIELD EVENTS)

DRAWING NO.:
L2.03

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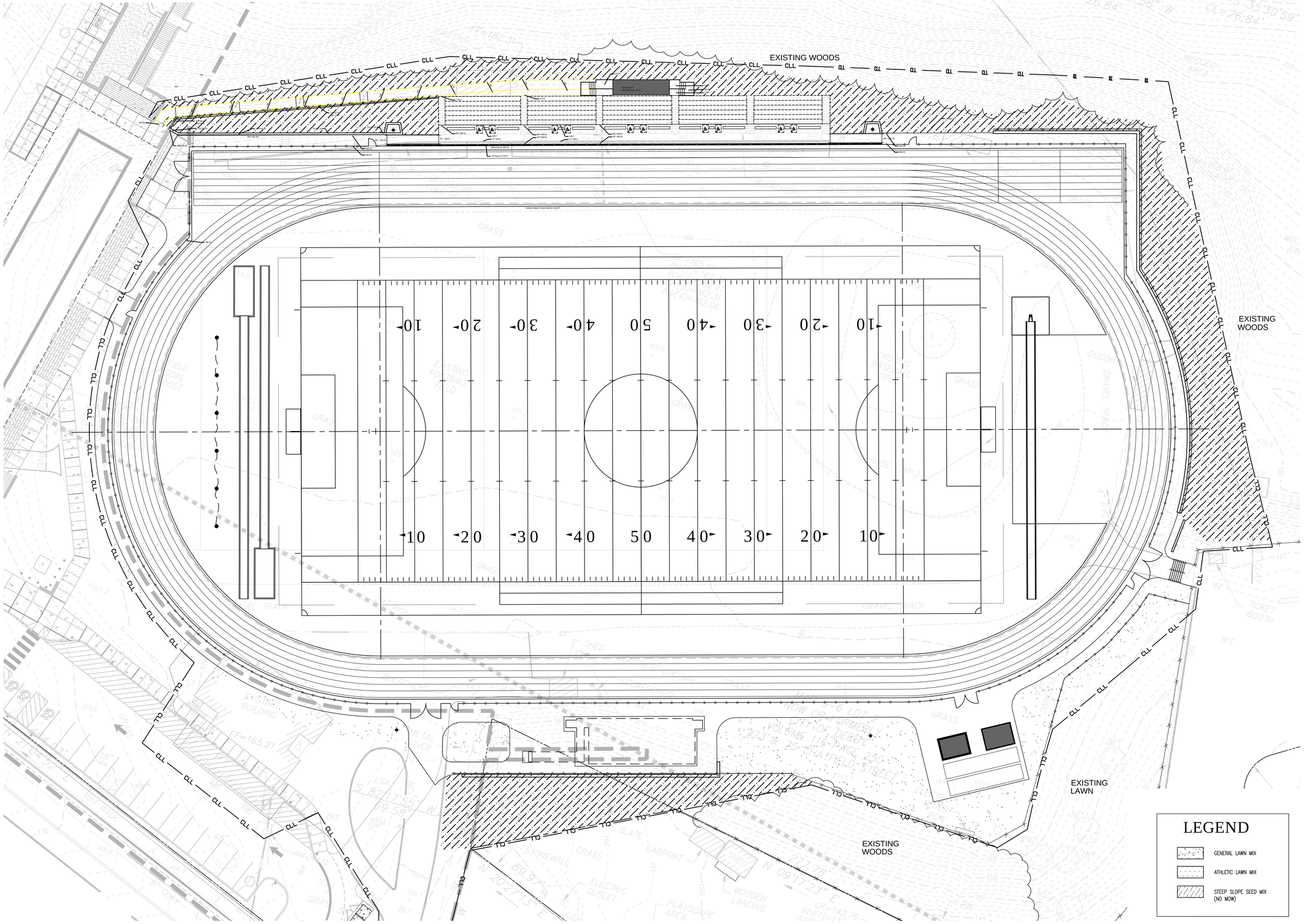
OCTOBER 27, 2017 SITE PLAN APPROVAL-REVISIONS



NOTES

1. ALL EXTERIOR GROUND AREAS DISTURBED BY CONSTRUCTION AND NOT COVERED BY BUILDINGS, STRUCTURES, PAVING, CONTINUOUS PLANTING BEDS OR OTHER SITE IMPROVEMENTS SHALL BE GRADED, TOPSOILED TO A MINIMUM DEPTH OF 6" AND GRASS SEEDED.
2. ALL MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO THE REQUIREMENTS OF THE CONNECTICUT ASSOCIATION OF LANDSCAPE CONTRACTORS SPECIFICATIONS AND THE AMERICANHORT ASSOCIATION STANDARDS FOR NURSERY STOCK.
3. ALL LAWN AND PLANTING AREA SOIL PREPARATION SHALL BE FERTILIZED AND AMENDED ACCORDING TO RECOMMENDATIONS OF A SOIL ANALYSIS PROVIDED BY AN APPROVED SOIL TESTING LABORATORY.
4. SEE SPECIFICATIONS FOR GENERAL LAWN & ATHLETIC LAWN AREA SEED MIXTURES
5. CONTRACTOR SHALL STABILIZE ALL SLOPED AREAS RECEIVING SEED AS REQUIRED UNTIL LAWN IS FULLY ESTABLISHED AND ACCEPTED BY ARCHITECT. CONTRACTOR SHALL MAINTAIN ALL STEEP SLOPES, RESTORE GRADES AND RESEED IF REQUIRED TO ESTABLISH A FULL ACCEPTABLE STAND OF LAWN.

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DERBY, CT 06418

PROJECT NO.: 17015.00 DRAWN BY: JD, EQR

PLANTING PLAN (TRACK/FIELD)

DRAWING NO.:

L3.01

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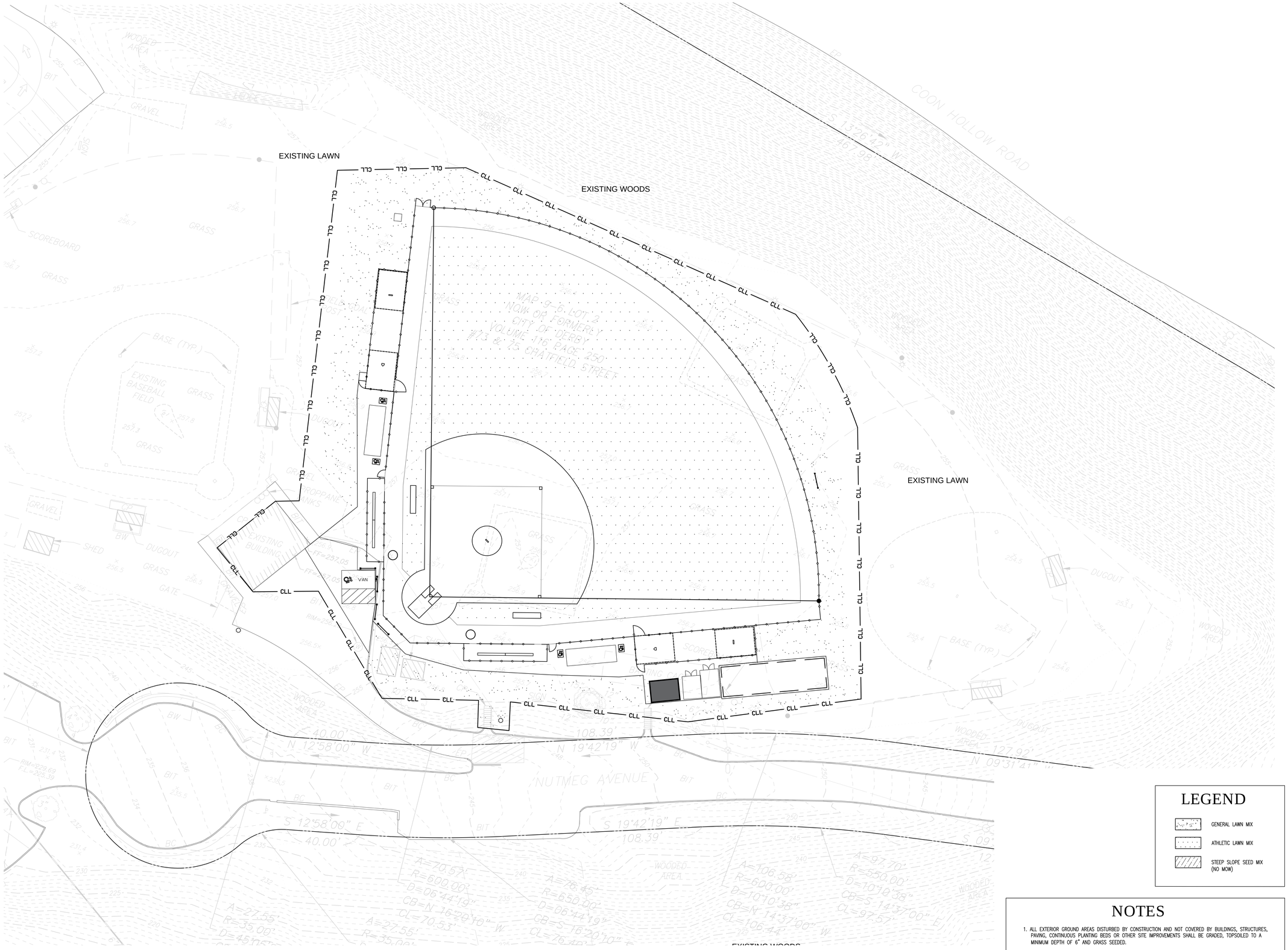

LEGEND

- GENERAL LAWN MIX
- ATHLETIC LAWN MIX
- STEEP SLOPE SEED MIX (NO MOW)

NOTES

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OCTOBER 27, 2017 SITE PLAN APPROVAL-REVISIONS

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DERBY, CT 06418

PROJECT NO.: 17015.00 DRAWN BY: JD, EQR

PLANTING PLAN (SOFTBALL)

DRAWING NO.:
L3.02

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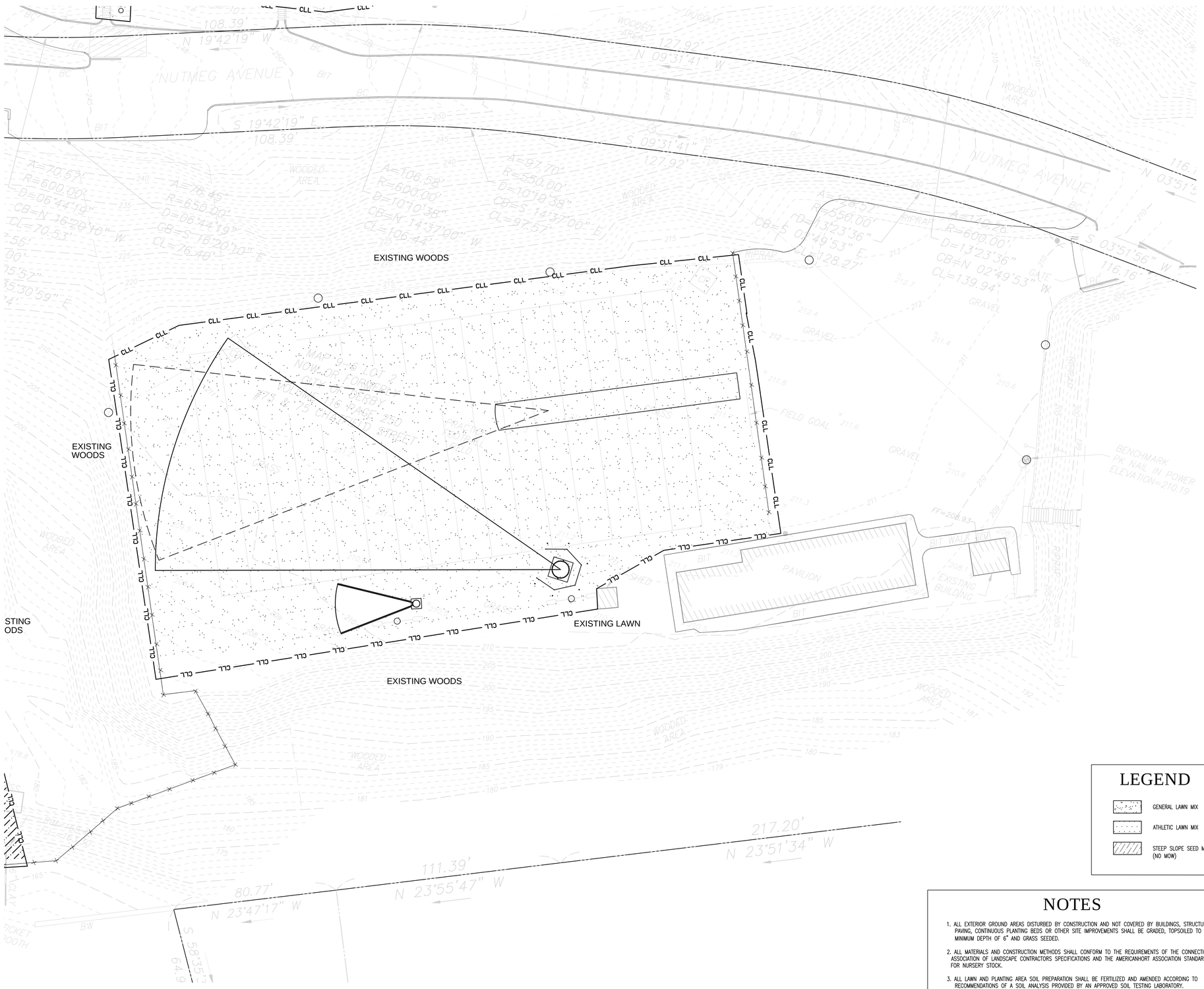

LEGEND

- GENERAL LAWN MIX
- ATHLETIC LAWN MIX
- STEEP SLOPE SEED MIX (NO MOW)

NOTES

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PROJECT NO.: 17015.00 DRAWN BY: JD, EQR

PLANTING PLAN (FIELD EVENTS)

DRAWING NO.:

L3.03

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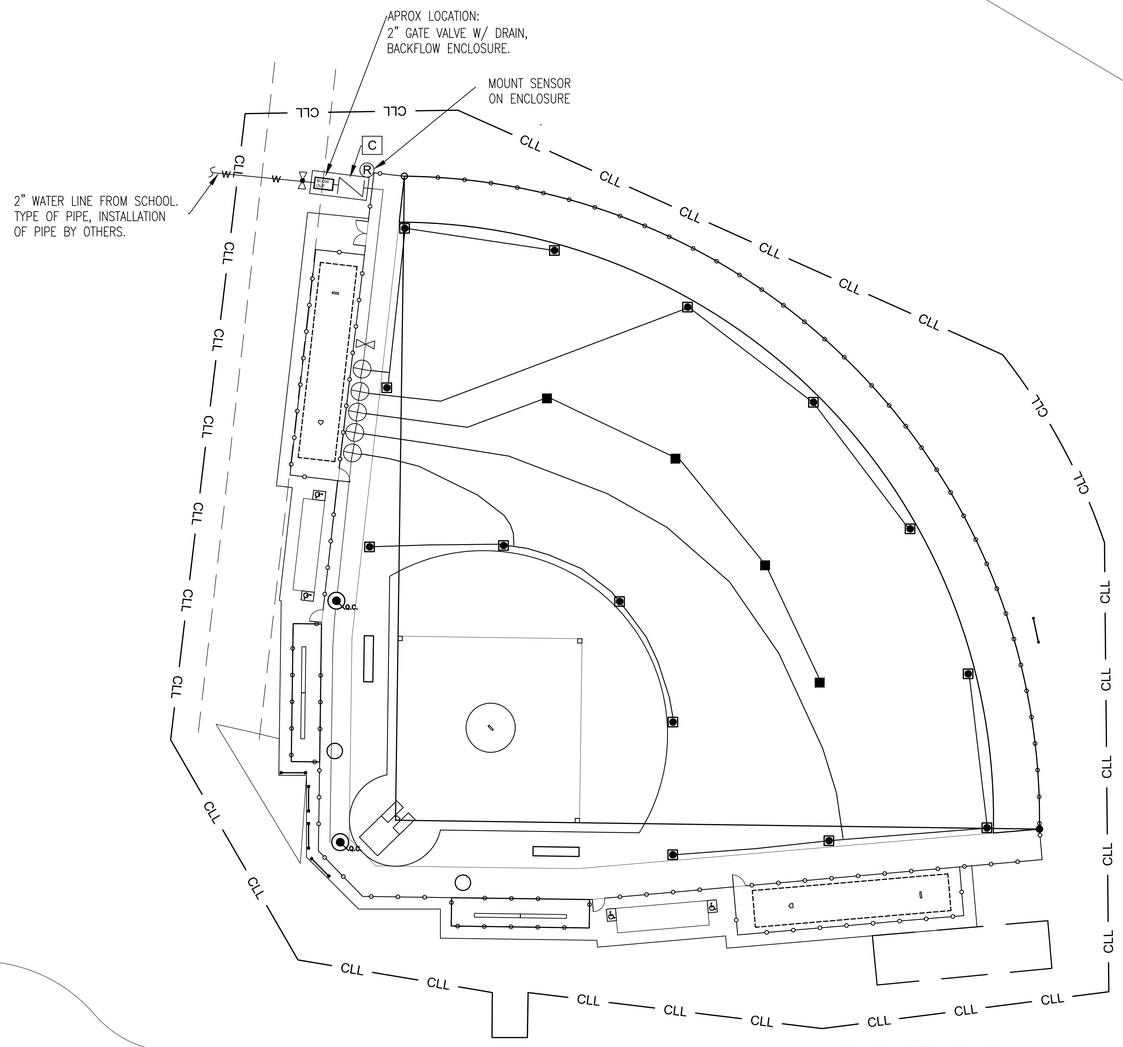


LEGEND FOR IRRIGATION

Irrigation Pipe Table

Quantity	Symbol	Pipe
240'		PVC MAIN: CLASS 200 2" SW PVC PIPE W/ WIRE
500'		PVC LATERALS: CLASS 200 2" SW PVC PIPE
740'		PVC LATERALS: CLASS 200 1 1/2" SW PVC PIPE
500', 500', 500'	(no symbol)	WIRE: #14/1 UF, (5) RED, (1) WHITE, (2) BLUE

* PIPE & WIRE QUANTITIES ARE ROUNDED TO THE NEAREST ROLL OR LENGTH.

Irrigation Equipment Table

Quantity	Symbol	Equipment
5		ZONE VALVE: HUNTER ICV-151G 1 1/2" W/ GATE VALVE
1		ISOLATION VALVES: BRASS GATE VALVE, LINE SIZED
2	Q.C.	QUICK COUPLER VALVE: HUNTER 1" HQ-44 W/ HK-44 KEY
1	C	CONTROLLER: HUNTER IC-600PL
1	R	RAIN SENSOR: HUNTER RAINCLIK
1		POINT OF CONNECTION: 2" @ 75 PSI. INSTALL GATE VALVE W/ DRAIN.
1	BLOW OUT	BLOW OUT: 1" QCV ON BRASS EL
1		BACKFLOW PREVENTER: FEBCO 825Y-LF 2" ON 2" PIPE
1		BACKFLOW ENCLOSURE: STRONGBOX SBBC-60ALHP ON PAD W/ ACCESS CONDUIT

Irrigation Heads Table

Quantity	Symbol	Sprinkler Heads
4		LARGE ROTARY SPRINKLER: HUNTER I-25-04-SS-10, FULL CIRCLE
14		LARGE ROTARY SPRINKLER: HUNTER I-25-04-SS-10, ADJUSTABLE

NOTES FOR IRRIGATION

1) SYSTEM IS DESIGNED FOR UP TO 45 GPM PER ZONE. PRESSURE AT THE SCHOOL SHALL BE CALCULATED FOR 75 PSI AT THE INLET TO THE BACKFLOW.

WATER SUPPLY: 2" LINE FROM BUILDING TO SCHOOL SHALL BE BY OTHERS. CONNECT TO 2" AT THE P.O.C.
2" WATERLINE BY OTHERS, 2" GATE VALVE BY IRRIGATION CONTRACTOR.
BACKFLOW: 2" RPZD W/ DRAINLINE AT SPILLWAY, IN ENCLOSURE. INSTALL ON 2" TYPE K COPPER PIPE. INSTALLED BY A LICENSED PLUMBER.
ENCLOSURE: TO HOUSE THE BACKFLOW & CONTROLLER. INSTALL A STRONGBOX SBBC-60ALHP ON CONCRETE PAD WITH THE NECESSARY ACCESS CONDUIT. INSTALLED BY THE IRRIGATION CONTRACTOR.
POWER: POWER WIRE FOR 2 AMPS AT 115 VAC TO A GFCI OUTLET SHALL BE BY ELECTRICAL CONTRACTOR.
IRRIGATION SHALL MOUNT CONTROLLER ON A NON SPECIFIC WOODEN BACKBOARD IN THE BACKFLOW ENCLOSURE. MOUNT THE RAIN SENSOR ON THE ENCLOSURE.

2) INSTALLATION INSTRUCTIONS:

HEADS: INSTALL 1" INLET SPRINKLERS ON STANDARD 12" SWING JOINTS. SET TO GRADE. BACKFILL IN CLEAN MATERIAL. PROPERLY ADJUST THROW, ARC, AND FIELD POSITION FOR OPTIMUM PERFORMANCE.

VALVES: INSTALL A GATE VALVE BEFORE EACH CONTROL VALVE. PVC NIPPLES & FITTINGS AS NECESSARY. INSTALL DBY-6 SPLICE KITS. INSTALL ISOLATION GATE VALVE IN STANDARD VALVE BOX W/ EXTENSION. INSTALL 1" QUICK COUPLER ON SWING JOINT WITH BRASS STABILIZER EL & SUPPORT AND IN A 10" ROUND VALVE BOX. FIELD LOCATE ALL ITEMS.

CONTROLLER: WALL MOUNT ON A BACKBOARD IN THE ENCLOSURE. GROUND USING A 4" x 96" GROUND PLATE, #6 BARE COPPER, INSTALL ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. INSTALL CONDUIT THRU THE PAD & INTO GRADE. INSTALLER SHALL PROPERLY LOCATE THE RAIN SENSOR FOR OPTIMUM PERFORMANCE. INSTALL NECESSARY WIRES & CONNECTORS.

POINT OF CONNECTION: NEW 2" WATER LINE TO A 2" GATE VALVE W/ DRAIN.

PIPE & WIRE: PVC MAIN: TRENCH OR VIBRATORY PLOW 18" DEEP. INSTALL WITH WIRE. LATERALS: TRENCH OR PULL 12" DEEP. FITTINGS AS REQUIRED. ALL FITTINGS TO BE SOLVENT WELD, SCH. 40 PVC.

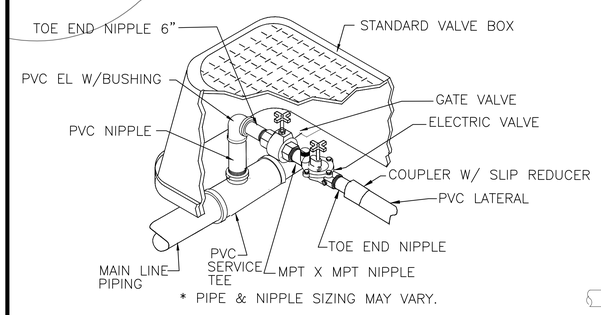
WIRE: TO BE #14/1 U.F. RED FOR CONTROL, WHITE FOR COMMON, AND RUN (2) BLUE SPARES. USE DBY-6 SPLICE KITS. FOLLOW MANUFACTURERS RECOMMENDATIONS.

3) DESIGN IS DIAGRAMMATIC. INSTALLER SHALL FIELD LOCATE ALL ITEMS WITHOUT COMPROMISING THE INTEGRITY OF THIS DESIGN. ANY CHANGES TO THE NUMBER OF HEADS OR VALVES, OR TO THE HYDRAULICS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF WORK. PIPE ROUTING, HEAD AND VALVE PLACEMENT SHALL BE THE RESPONSIBILITY OF THE INSTALLER, USING THIS DESIGN AS A GUIDE.

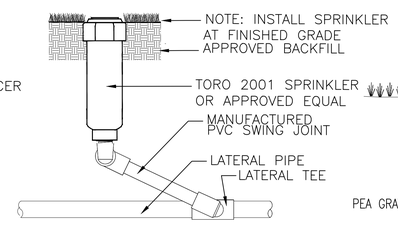
4) AVERAGE RUN TIMES PER ZONE TO ACHIEVE 1" OF WATER PER WEEK IS AS FOLLOWS:
ROTARY: 30 MINUTES PER DAY (MIN/DAY). END USER SHALL PROPERLY ADJUST RUN TIMES FOR CHANGING FIELD AND SEASONAL CONDITIONS.

5) IRRIGATION INSTALLER IS RESPONSIBLE FOR, BUT NOT LIMITED TO THE COMPLETE INSTALLATION OF THIS IRRIGATION SYSTEM. FOLLOW ALL APPLICABLE CODES AND LAWS. CONTACT A UTILITY MARKING COMPANY PRIOR TO THE COMMENCEMENT OF WORK. IRRIGATION WORK TO INCLUDE ATTACHING TO THE WATER SUPPLY, VERIFYING THE PRESSURE & REPORTING RESULTS TO THE G.C., CONTROLLER INSTALLATION, RAIN SENSOR INSTALLATION, SPRINKLERS, VALVES, AND RELATED ITEMS.

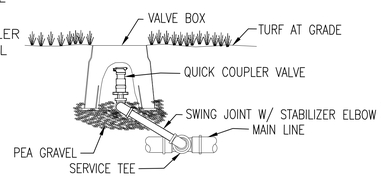
DETAILS FOR IRRIGATION



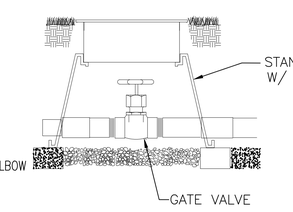
1 **VALVE SET-UP**
(ISOMETRIC VIEW - N.T.S.)



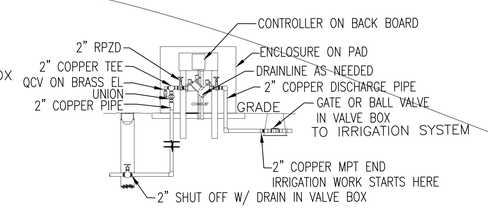
2 **1" INLET SPRINKLER**
(SIDE ELEVATION - N.T.S.)



3 **QUICK COUPLER**
N.T.S.



4 **SHUT OFF**
N.T.S.



* INSTALLER OF THIS ASSEMBLY SHALL MAKE THE NECESSARY FIELD CHANGES FOR A COMPLETE & PROPER INSTALLATION.

5 **SHUT OFF**
N.T.S.

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SITE IRRIGATION PLAN

DRAWING NO.: IR1.01

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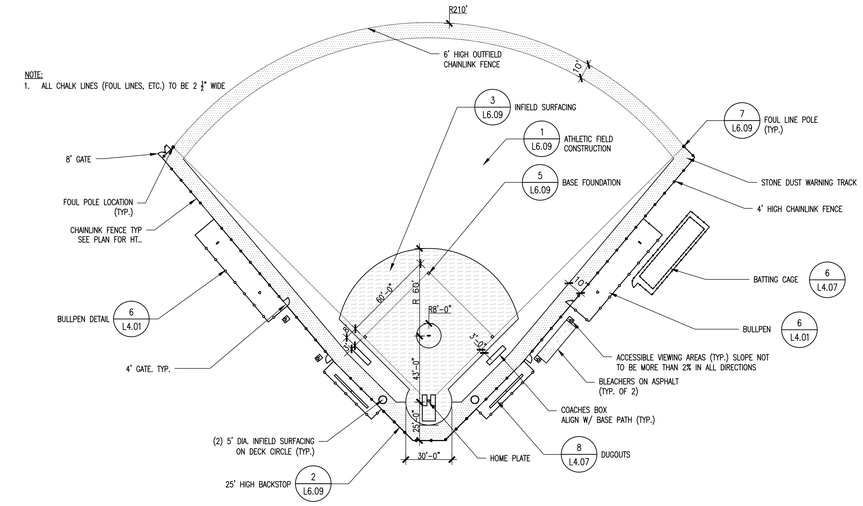
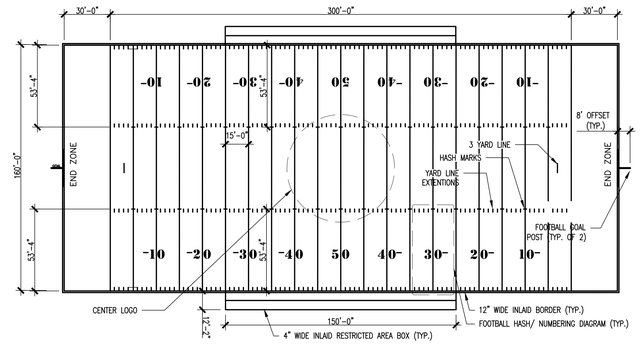
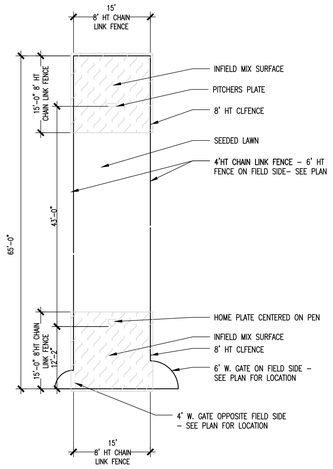


4 SOFTBALL FIELD LAYOUT
SCALE: N.T.S.

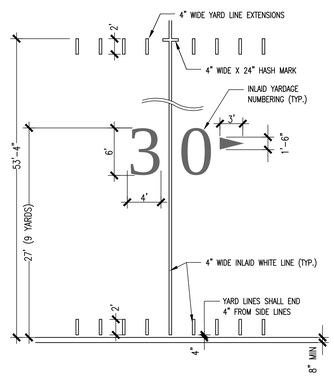
NOTES:
1. ALL FOOTBALL DIMENSIONS ARE MEASURED FROM INSIDE EDGE OF LINE TO INSIDE EDGE OF LINE.
2. WHERE FOOTBALL LINES OVERLAP OTHER SPORT FIELD LINES, FOOTBALL SHALL TAKE PRIORITY.



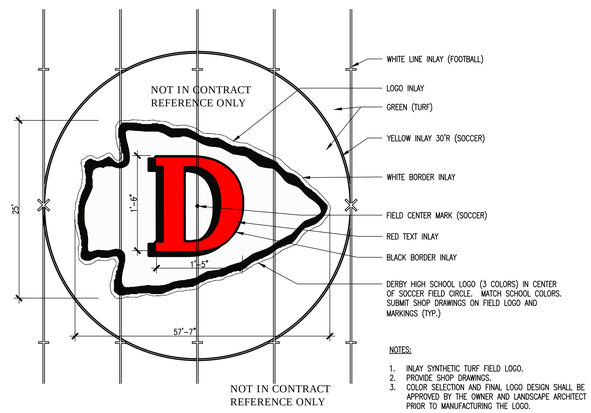
1 FOOTBALL FIELD LAYOUT (WHITE INLAID LINES) (NFHS)
NOT TO SCALE



6 BULL PEN (SOFTBALL)
NOT TO SCALE



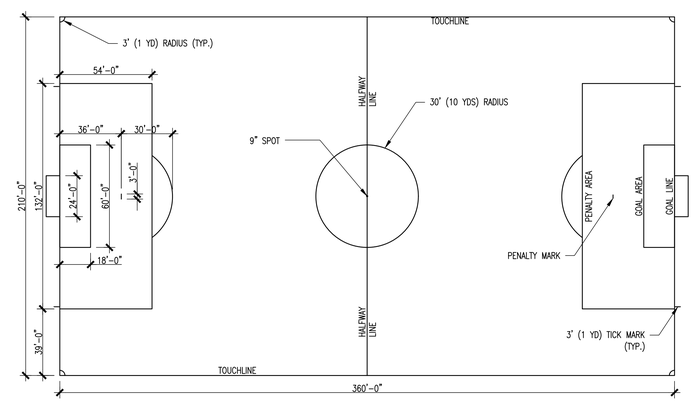
5 FOOTBALL FIELD NUMBERS
NOT TO SCALE



NOTES:
1. INLAY SYNTHETIC TURF FIELD LOGO.
2. PROVIDE SHOP DRAWINGS.
3. COLOR SELECTION AND FINAL LOGO DESIGN SHALL BE APPROVED BY THE OWNER AND LANDSCAPE ARCHITECT PRIOR TO MANUFACTURING THE LOGO.

2 SYNTHETIC TURF FIELD CENTER LOGO
NOT TO SCALE

NOTES:
1. ALL SOCCER DIMENSIONS ARE MEASURED FROM OUTSIDE EDGE OF LINE TO OUTSIDE EDGE OF LINE, UNLESS OTHERWISE NOTED.
2. TEAM AREAS TO BE PAINTED BY OTHERS (N.I.C.)



3 SOCCER FIELD LAYOUT (YELLOW INLAID MARKINGS)
NOT TO SCALE

KAESTLE BOOS associates, inc

416 Slater Road, P.O. Box 2590, New Britain, CT 06050-2590
Phone: 860-229-0361 ▲ Fax: 860-229-5303

325 Foxborough Boulevard, Suite 100, Foxborough, MA 02035
Phone: 508-549-9906 ▲ Fax: 508-549-9907

Email: kba@kba-architects.com ▲ Web: www.kba-architects.com

ISSUE DATE

DATE	DESCRIPTION
SEPTEMBER 29, 2017	SITE PLAN APPROVAL

REVISIONS

DATE	REFERENCE

FOR ALL ABBREVIATIONS, SYMBOL LEGENDS, AND GENERAL NOTES SEE SHEET R0.01

KEY PLAN

NOT TO SCALE — PROJECT — TRUE

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DERBY HIGH SCHOOL ATHLETIC FIELD IMPROVEMENTS

75 CHATFIELD ST
DERBY, CT 06418

PROJECT NO.: 17015.00 — DRAWN BY: JD, MT

SITE DETAILS

DRAWING NO.: L4.01

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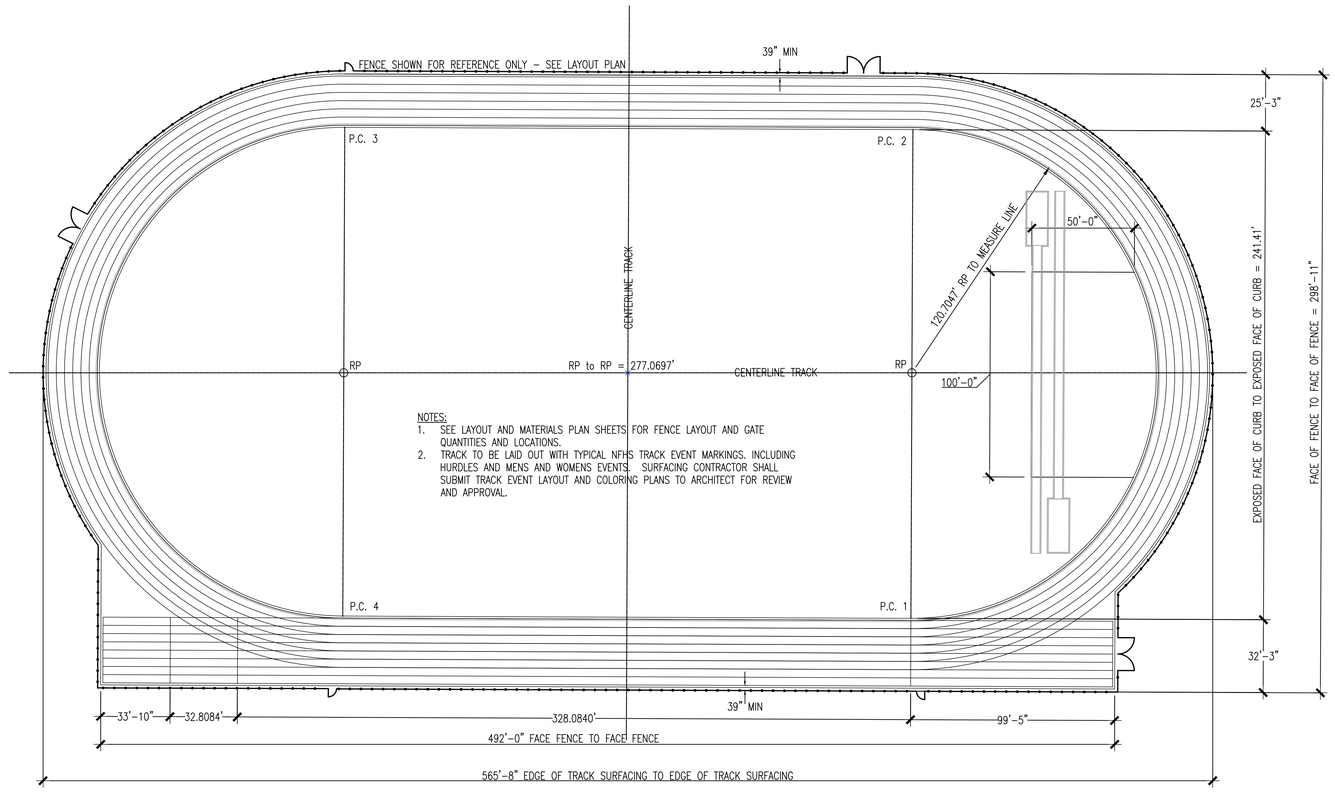
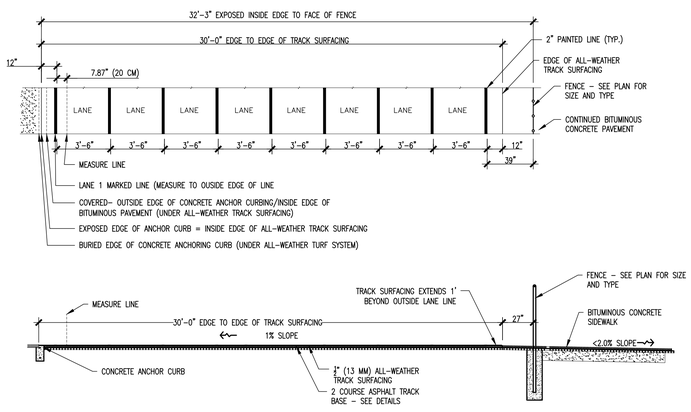
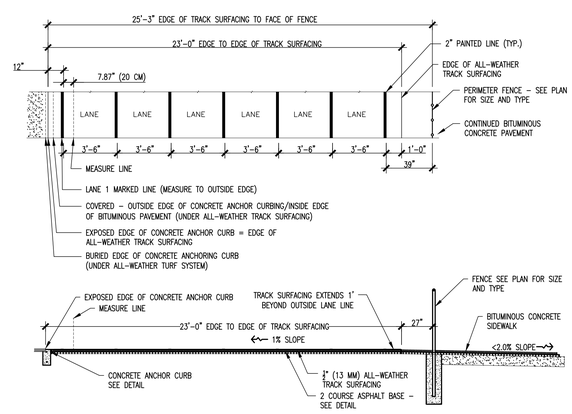


NOTES:
1. SEE LAYOUT AND MATERIALS PLAN SHEETS FOR FENCE LAYOUT AND GATE QUANTITIES AND LOCATIONS.
2. TRACK TO BE LAID OUT WITH TYPICAL NFHS TRACK EVENT MARKINGS. INCLUDING HURDLES AND MENS AND WOMENS EVENTS. SURFACING CONTRACTOR SHALL SUBMIT TRACK EVENT LAYOUT AND COLORING PLANS TO ARCHITECT FOR REVIEW AND APPROVAL.

1 400 M TRACK LAYOUT
NOT TO SCALE



3 TRACK LAYOUT SECTION - 8 LANE
NOT TO SCALE



2 TRACK LAYOUT SECTION - 6 LANE
NOT TO SCALE

KAESTLE BOOS associates, inc

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Phone: 508-549-9906 ⁂ Fax: 508-549-9907

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KEY PLAN

NOT TO SCALE — PROJECT — TRUE

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DERBY HIGH SCHOOL ATHLETIC FIELD IMPROVEMENTS

75 CHATFIELD ST
DERBY, CT 06418

PROJECT NO.: 17015.00 — DRAWN BY: JD, MT

SITE DETAILS

DRAWING NO.:
L4.02

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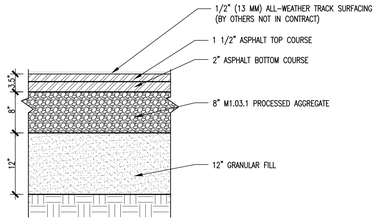
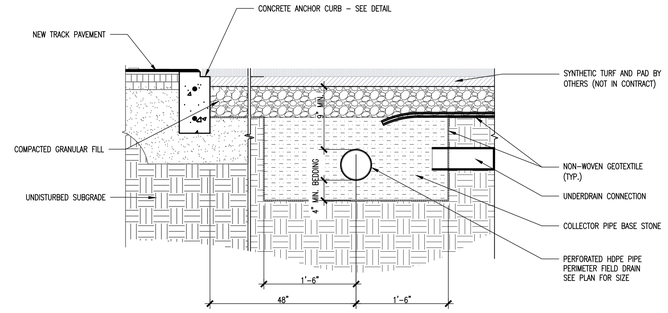
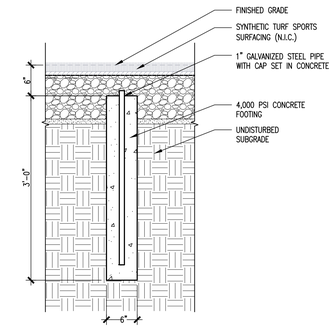


9 TRACK PAVEMENT ASPHALT
NOT TO SCALE

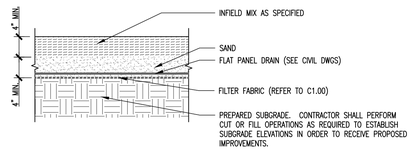


5 MAIN FIELD PERIMETER COLLECTOR DRAIN
NOT TO SCALE

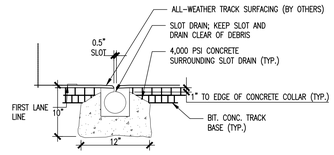
NOTES:
1. CONTRACTOR TO PROVIDE SHOP DRAWINGS.
2. CONTRACTOR TO REFER TO LAYOUT AND MATERIALS PLAN FOR LOCATIONS OF BURIED FIELD/ TRACK RADIUS MARKERS.
3. PROVIDE 1 PER EACH RADIUS POINT AT TRACK (TYP.)



1 BURIED TRACK RADIUS MARKER
NOT TO SCALE

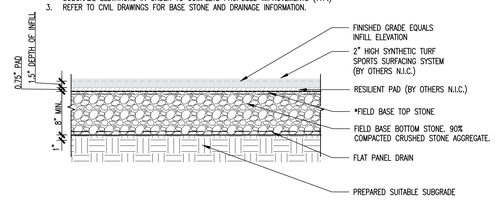


10 SOFTBALL INFIELD SURFACING
NOT TO SCALE



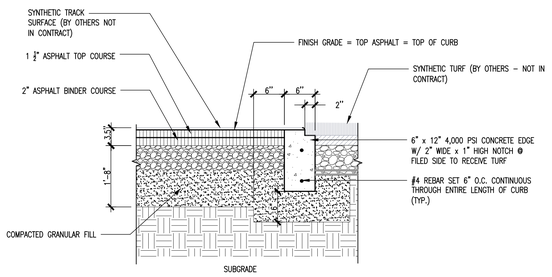
6 SLOT DRAIN IN CONC. ANCHOR CURB
NOT TO SCALE

NOTES:
1. *CONTRACTOR MAY USE THEIR DISCRETION TO INSTALL A MAXIMUM OF 1" LAYER OF FIELD BASE TOPSTONE OVER FIELD BASE BOTTOM STONE TO ACHIEVE SPECIFIED FIELD PLANARITY.
2. CONTRACTOR SHALL PERFORM CUT OR FILL OPERATIONS AS REQUIRED TO ESTABLISH SUBGRADE ELEVATIONS IN ORDER TO COMPLETE PROPOSED IMPROVEMENTS (TYP.)
3. REFER TO CIVIL DRAWINGS FOR BASE STONE AND DRAINAGE INFORMATION.

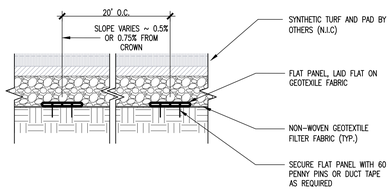


2 SYNTHETIC TURF SPORTS SURFACING
NOT TO SCALE

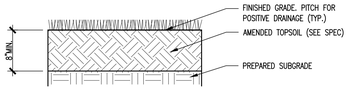
11 DETAIL NOT USED



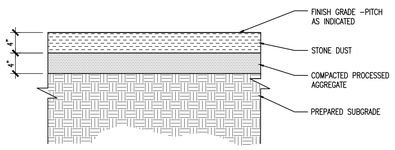
7 HIGH JUMP PAVEMENT SECTION
NOT TO SCALE



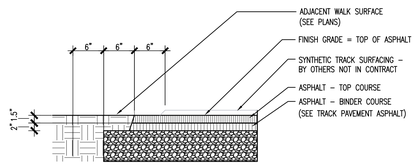
3 FLAT PANEL DRAIN
NOT TO SCALE



12 NATURAL TURF FIELD CONSTRUCTION
NOT TO SCALE

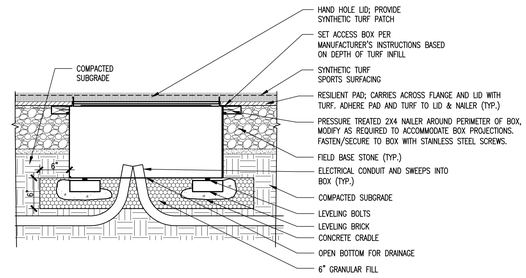


13 STONE DUST SURFACING
NOT TO SCALE



8 SYNTHETIC TRACK SURFACING
NOT TO SCALE

NOTES:
1. THIS DETAIL IS DIAGRAMMATIC. REFER TO MANUFACTURER'S SPECIFICATIONS AND INSTALLATION INSTRUCTIONS.
2. HANDHOLE FOR ELECTRICAL SERVICE: 3500.5 COMBOX AS MANUFACTURED BY SPORTSFIELD SPECIALTIES, INC., 41155 STATE HIGHWAY 10, PO BOX 231, DELHI, NY OR APPROVED EQUAL.
3. HANDHOLE FOR COMBINED SCOREBOARD CONTROL AND ELECTRICAL SERVICE: 3500 COMBOX + AS MANUFACTURED BY SPORTSFIELD SPECIALTIES, INC., 41155 STATE HIGHWAY 10, PO BOX 231, DELHI, NY OR APPROVED EQUAL.
4. HANDHOLE FOR WATER SERVICE: TURFCOOL QUICK CONNECT VALVE/GATE BOX, TC-3700-QVC PLUS AS MANUFACTURED BY SPORTSFIELD SPECIALTIES, INC., 41155 STATE HIGHWAY 10, PO BOX 231, DELHI, NY OR APPROVED EQUAL. HOSE CONNECTION TYPE TO BE DETERMINED BY OWNER.



4 COMBOX @ SYNTHETIC TURF FIELD
NOT TO SCALE

KAESTLE BOOS associates, inc

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Phone: 860-229-0361 ▲ Fax: 860-229-5303

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KEY PLAN

NOT TO SCALE — PROJECT — TRUE

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DERBY HIGH SCHOOL ATHLETIC FIELD IMPROVEMENTS

75 CHATFIELD ST
DERBY, CT 06418

PROJECT NO.: 17015.00 — DRAWN BY: JD, MT

SITE DETAILS

DRAWING NO.:
L4.03

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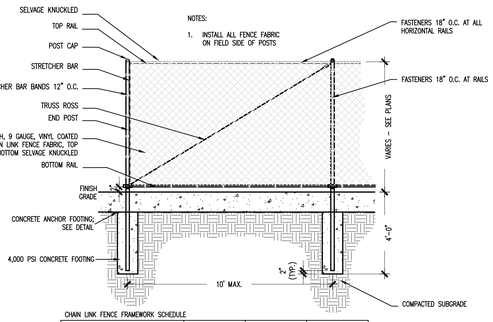
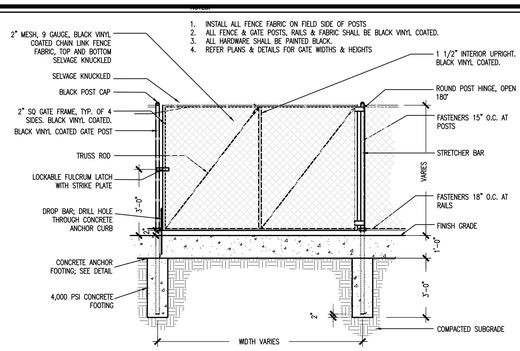


CHAIN LINK FENCE FRAMEWORK SCHEDULE

FABRIC HEIGHT	UP TO 4'	5' TO 6'	8' TO 10'
END, CORNER & PULL POST	2.375" O.D.	2.875" O.D.	3.5" O.D.
LINE POST	1.900" O.D.	2.375" O.D.	2.875" O.D.
TOP AND BOTTOM RAIL	1.660" O.D.	1.660" O.D.	1.660" O.D.
MIDDLE RAIL	NONE	NONE	1.660" O.D.
FOOTING	12" DIA.	12" DIA.	15" DIA.

INSTALL FENCE FABRIC ON FIELD SIDE OF FENCE UNLESS OTHERWISE NOTED

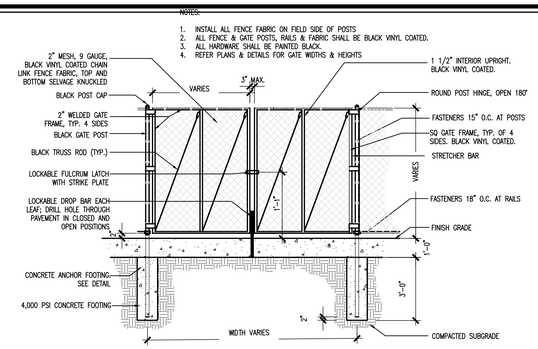
7 CHAIN LINK FENCE
NOT TO SCALE



CHAIN LINK GATE FRAMEWORK SCHEDULE

GATE LEAF SINGLE LEAF	6'H OR LESS	>6'H – <12'H
GATE POST	2.875" O.D.	4" O.D.
GATE FRAME (4 SIDES)	1.875"	1.875"
INTERIOR UPRIGHT	NONE	1 1/2"
FOOTING	12" DIA.	15" DIA.

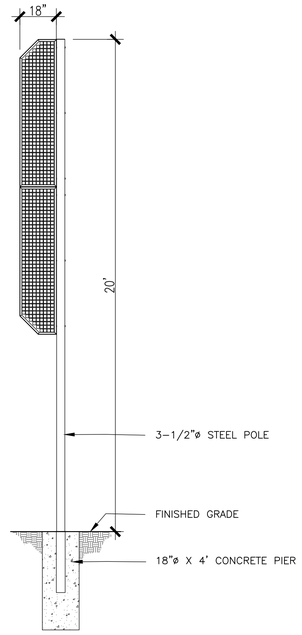
4 CHAIN LINK FENCE GATE - SINGLE LEAF
NOT TO SCALE



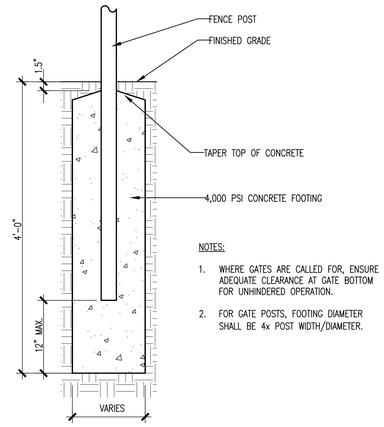
CHAIN LINK GATE FRAMEWORK SCHEDULE

GATE LEAF DOUBLE LEAF	6'H OR LESS	>6'H – <12'H	12'H OR MORE
GATE POST	2.875" O.D.	4" O.D.	4" O.D.
GATE FRAME (4 SIDES)	2"	2.375"	2.375"
INTERIOR UPRIGHT	NONE	1 1/2"	2.375"
HEAVY DUTY HINGE	3 PER LEAF	3 PER LEAF	4 PER LEAF
FOOTING	12" DIA.	15" DIA.	15" DIA.

1 CHAIN LINK FENCE GATE - DOUBLE
NOT TO SCALE



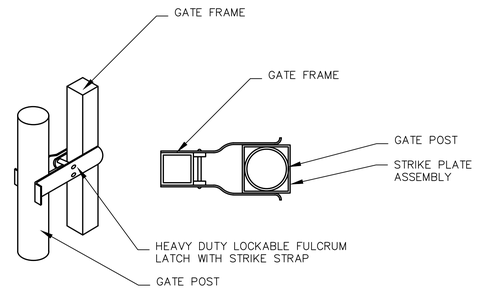
8 FOUL BALL POLE
NOT TO SCALE



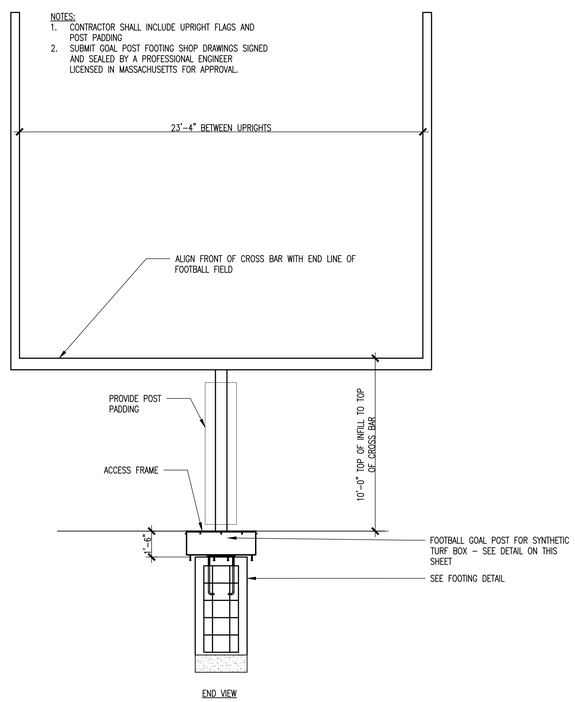
NOTES:

1. WHERE GATES ARE CALLED FOR, ENSURE ADEQUATE CLEARANCE AT GATE BOTTOM FOR UNHINDERED OPERATION.
2. FOR GATE POSTS, FOOTING DIAMETER SHALL BE 4x POST WIDTH/DIAMETER.

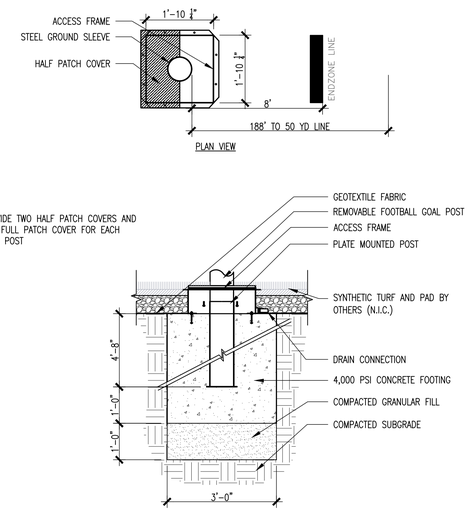
5 TYPICAL FENCE POST
NOT TO SCALE



2 FULCRUM LATCH FOR FENCE
NOT TO SCALE



6 FOOTBALL GOAL POST
NOT TO SCALE



3 FOOTBALL GOAL POST FOOTING
NOT TO SCALE

KAESTLE BOOS associates, inc

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Phone: 860-229-0361 Fax: 860-229-5303

325 Foxborough Boulevard, Suite 100, Foxborough, MA 02035
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Email: kba@kba-architects.com Web: www.kba-architects.com

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NOT TO SCALE — PROJECT — TRUE

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DERBY HIGH SCHOOL ATHLETIC FIELD IMPROVEMENTS

75 CHATFIELD ST
DERBY, CT 06418

PROJECT NO.: 17015.00 DRAWN BY: JD, MT

SITE DETAILS

DRAWING NO.:
L4.04

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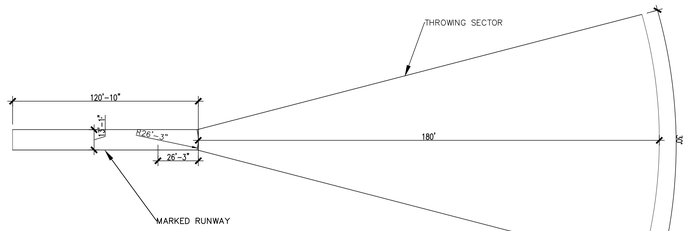
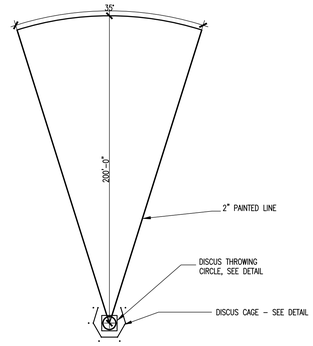


NOTES:

1. ALL LINES ARE FOR REFERENCE ONLY.
2. ALL LINES ARE TO BE TEMPORARILY MARKED PER EVENT.

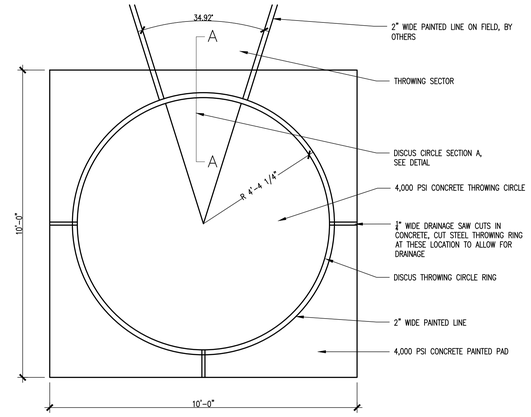
6 JAVELIN LAYOUT (PAINTED BY OTHERS)

NOT TO SCALE



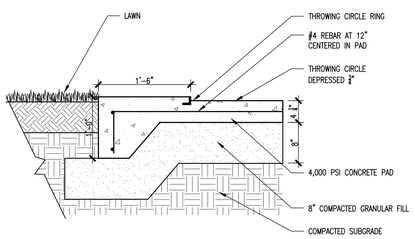
4 DISCUS LAYOUT

NOT TO SCALE



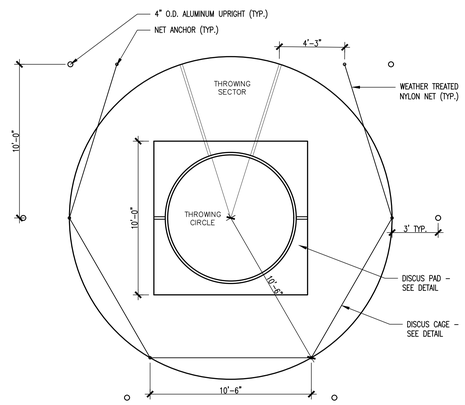
1 DISCUS THROWING CIRCLE

NOT TO SCALE



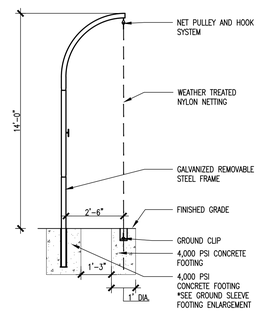
7 DISCUS CIRCLE SECTION A-A

NOT TO SCALE



5 DISCUS CAGE LAYOUT

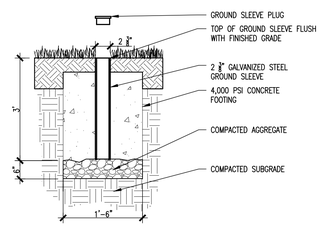
NOT TO SCALE



NET AND POLE SECTION

NOTES:

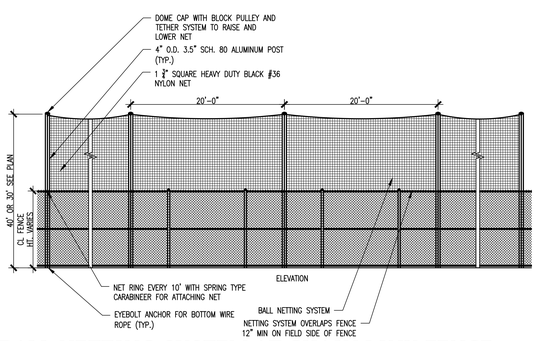
1. SUBMIT DISCUS CAGE FOOTING SHOP DRAWINGS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN MASSACHUSETTS FOR APPROVAL.
2. DETAIL FOR REFERENCE ONLY; INSTALL PER MANUFACTURER'S INSTRUCTIONS.

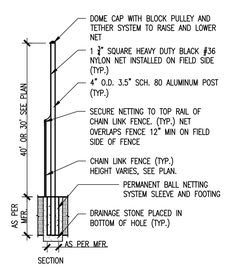


GROUND SLEEVE FOOTING ELARGEMENT

2 DISCUS CAGE

NOT TO SCALE





SECTION

8 BALL NETTING SYSTEM AT CHAIN LINK FENCE

NOT TO SCALE

3 DETAIL NOT USED

KAESTLE BOOS associates, inc

416 Slater Road, P.O. Box 2590, New Britain, CT 06050-2590
Phone: 860-229-0361 ▲ Fax: 860-229-5303

325 Foxborough Boulevard, Suite 100, Foxborough, MA 02035
Phone: 508-549-9906 ▲ Fax: 508-549-9907

Email: kba@kba-architects.com ▲ Web: www.kba-architects.com

ISSUE DATE

DATE	DESCRIPTION
SEPTEMBER 29, 2017	SITE PLAN APPROVAL

REVISIONS

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FOR ALL ABBREVIATIONS, SYMBOL LEGENDS, AND GENERAL NOTES SEE SHEET R0.01

KEY PLAN

NOT TO SCALE — PROJECT TRUE

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DERBY HIGH SCHOOL ATHLETIC FIELD IMPROVEMENTS

75 CHATFIELD ST
DERBY, CT 06418

PROJECT NO.: 17015.00 DRAWN BY: JD, MT

SITE DETAILS

DRAWING NO.:
L4.05

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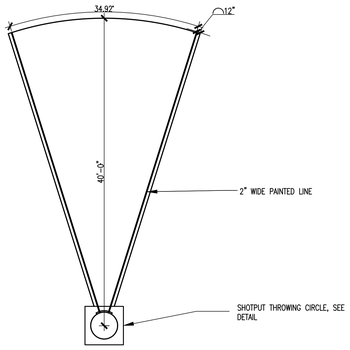
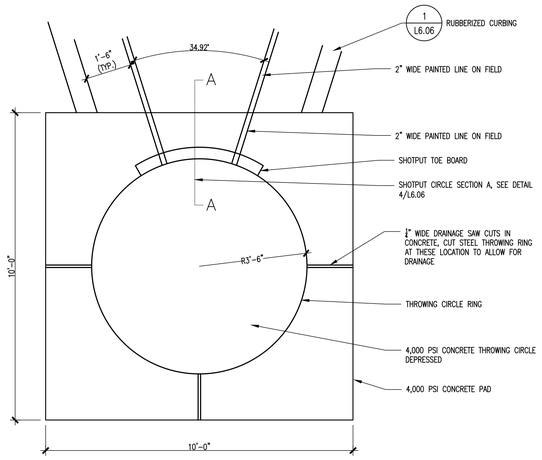
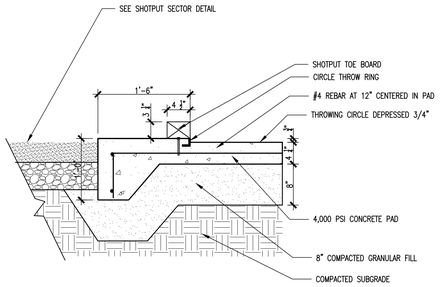


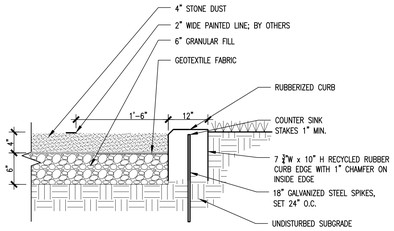
9 SHOTPUT LAYOUT
NOT TO SCALE



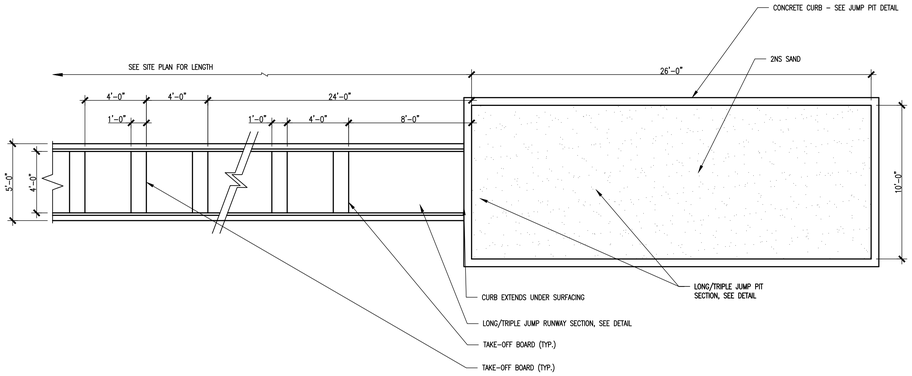
7 SHOTPUT THROWING CIRCLE
NOT TO SCALE



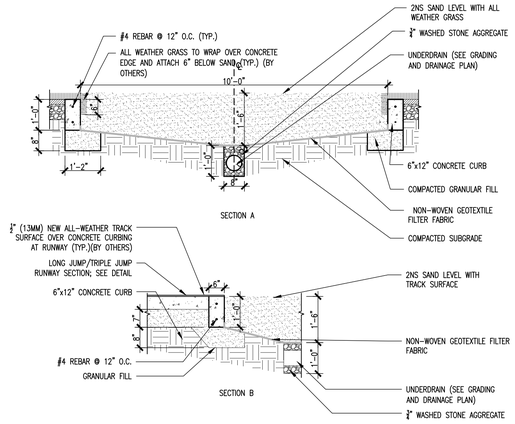
4 SHOTPUT CIRCLE SECTION A
NOT TO SCALE



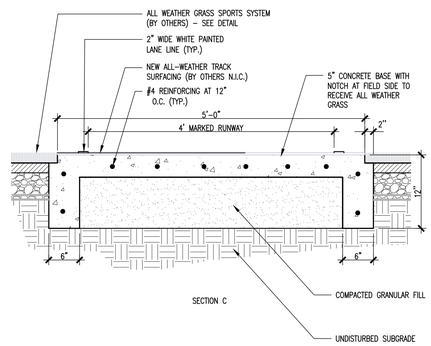
1 SHOTPUT THROWING SECTOR EDGE
NOT TO SCALE



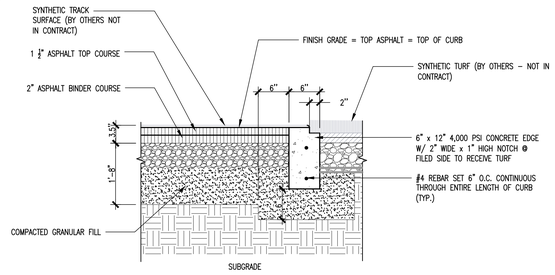
10 LONG/TRIPLE JUMP RUNWAY STRIPING PLAN
NOT TO SCALE



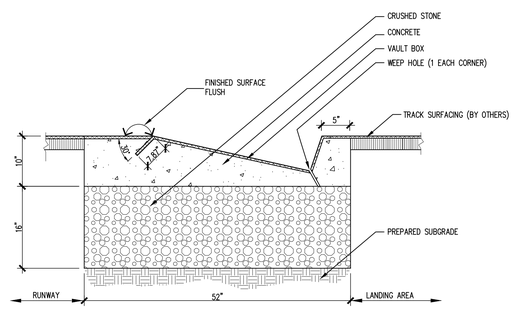
5 LONG/TRIPLE JUMP PIT SECTION
NOT TO SCALE



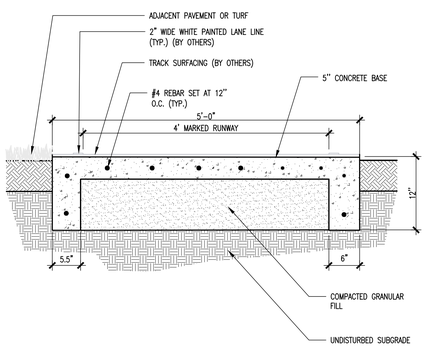
2 LONG/TRIPLE JUMP RUNWAY
NOT TO SCALE



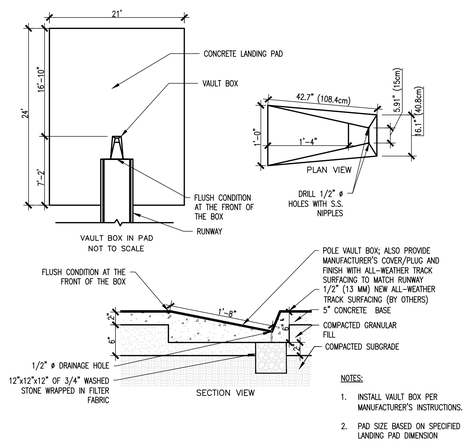
11 HIGH JUMP PAVEMENT SECTION
NOT TO SCALE



12 POLE VAULT BOX BASE
NOT TO SCALE

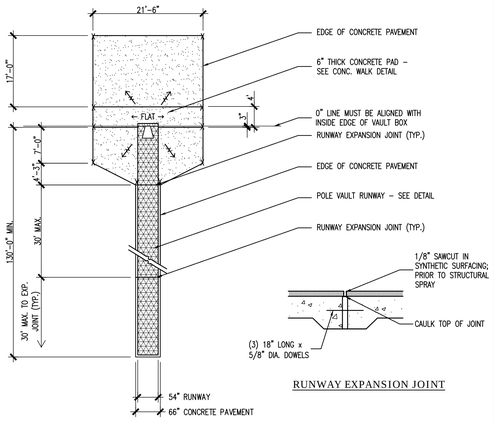


8 POLEVAULT RUNWAY SECTION
NOT TO SCALE



6 POLEVAULT VAULT BOX
NOT TO SCALE

NOTES:
1. FLAT CENTRAL AREA TO BE SAME ELEVATION AS TOP OF PLANTING BOX.
2. LANDING AREA SLOPE: 1% MAX IN ANY DIRECTION
3. RUNWAY SLOPE: 1:1000 MAX. LONGITUDINAL 2:100 MAX. CROSS



3 POLE VAULT
NOT TO SCALE

KAESTLE BOOS associates, inc

416 Slater Road, P.O. Box 2590, New Britain, CT 06050-2590
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325 Foxborough Boulevard, Suite 100, Foxborough, MA 02035
Phone: 508-549-9906 Fax: 508-549-9907

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KEY PLAN

NOT TO SCALE — PROJECT TRUE

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DERBY HIGH SCHOOL ATHLETIC FIELD IMPROVEMENTS

75 CHATFIELD ST
DERBY, CT 06418

PROJECT NO.: 17015.00 DRAWN BY: JD, MT

SITE DETAILS

DRAWING NO.: L4.06

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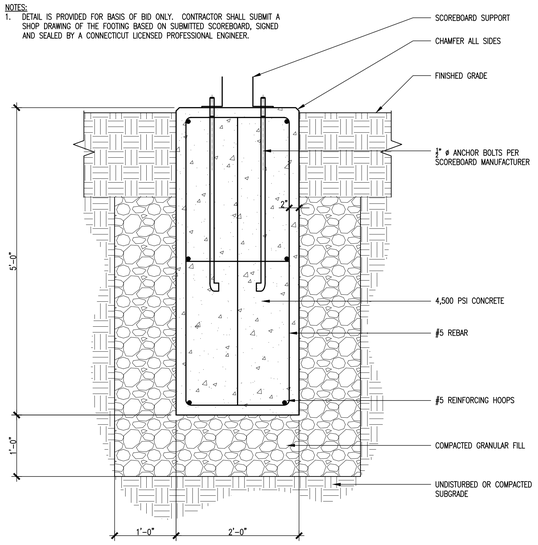
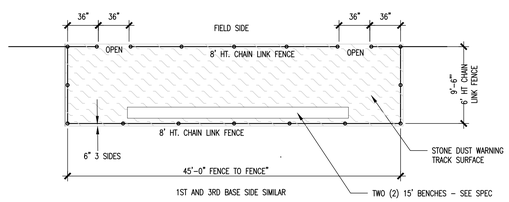
NOTES:
1. DETAIL IS PROVIDED FOR BASIS OF BID ONLY. CONTRACTOR SHALL SUBMIT A SHOP DRAWING OF THE FOOTING BASED ON SUBMITTED SCOREBOARD, SIGNED AND SEALED BY A CONNECTICUT LICENSED PROFESSIONAL ENGINEER.

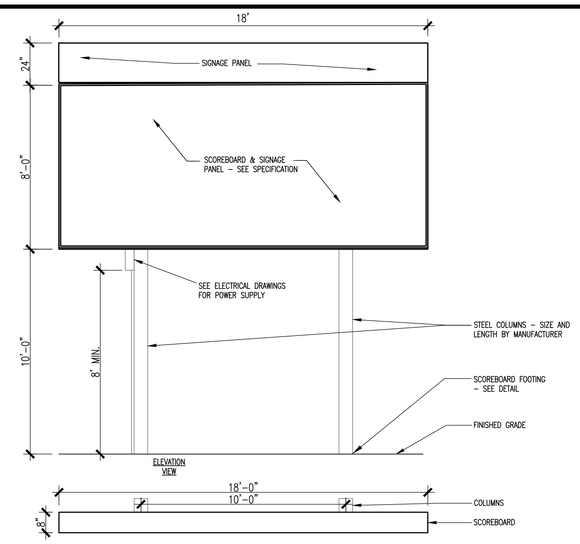


7 SCOREBOARD FOOTING
NOT TO SCALE

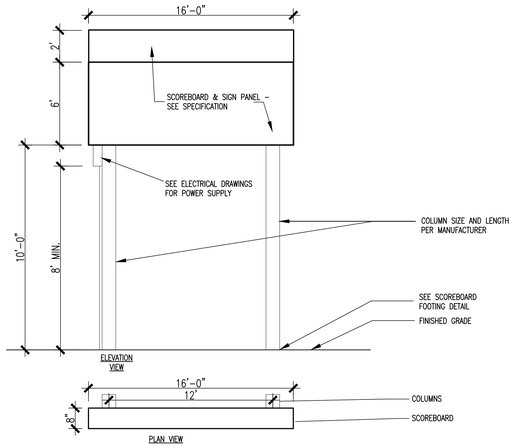


8 DUGOUT DETAIL
NOT TO SCALE

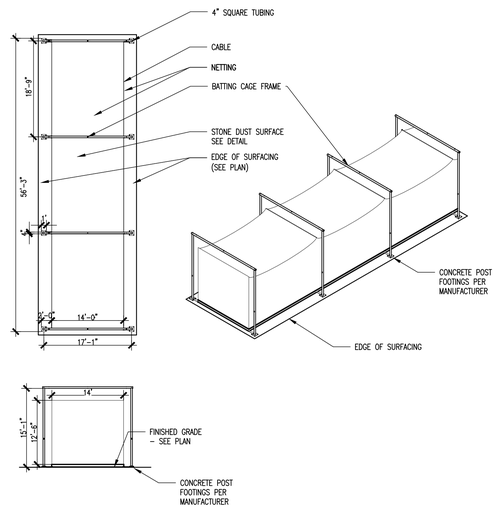
9 DETAIL NOT USED



4 FOOTBALL SCOREBOARD
NOT TO SCALE

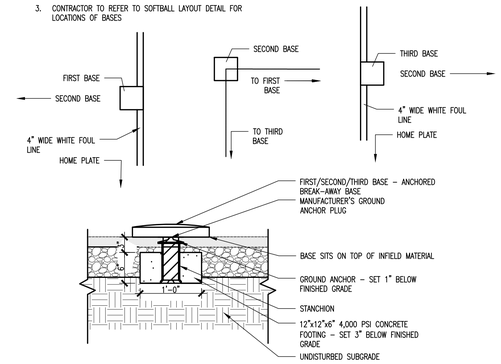


5 SOFTBALL SCOREBOARD
NOT TO SCALE

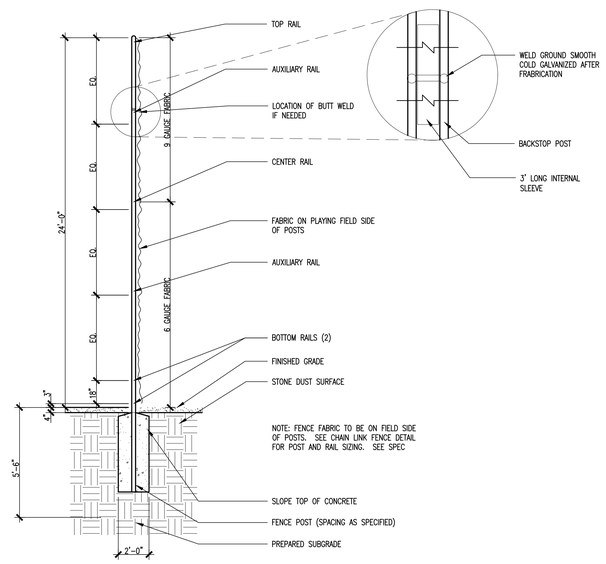


6 BATTING CAGE
NOT TO SCALE

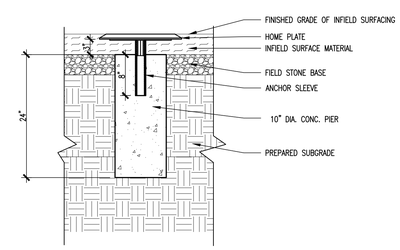
NOTE:
1. CONTRACTOR TO PROVIDE SHOP DRAWINGS.
2. CONTRACTOR TO INSTALL BASES PER MANUFACTURER'S INSTRUCTIONS.
3. CONTRACTOR TO REFER TO SOFTBALL LAYOUT DETAIL FOR LOCATIONS OF BASES



1 BASE FOOTING
NOT TO SCALE



2 SOFTBALL BACKSTOP
NOT TO SCALE



NOTE: PLACE HOME PLATE SO APEX OF HOME PLATE IS AT INTERSECTION OF INSIDE EDGE OF FOUL LINES

3 HOME PLATE FOUNDATION
NOT TO SCALE

KAESTLE BOOS associates, inc

416 Slater Road, P.O. Box 2590, New Britain, CT 06050-2590
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KEY PLAN

NOT TO SCALE PROJECT TRUE

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DERBY HIGH SCHOOL ATHLETIC FIELD IMPROVEMENTS

75 CHATFIELD ST
DERBY, CT 06418

PROJECT NO.: 17015.00 DRAWN BY: JD, MT

SITE DETAILS

DRAWING NO.:
L4.07

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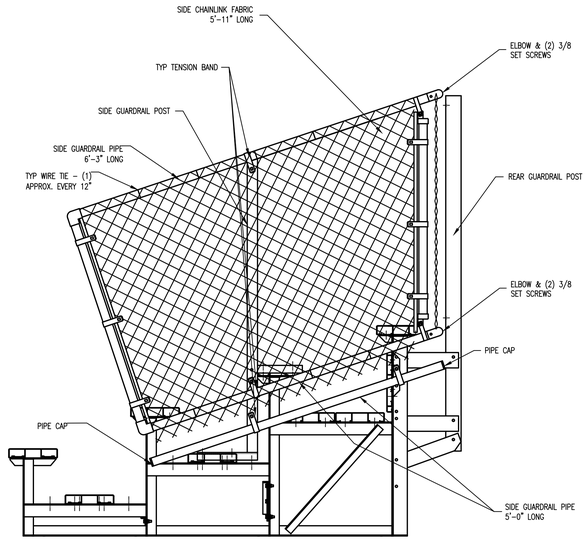
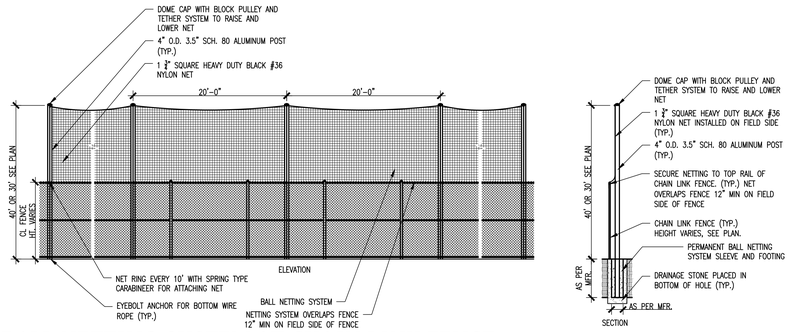
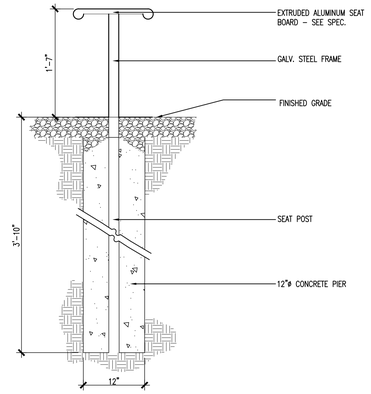


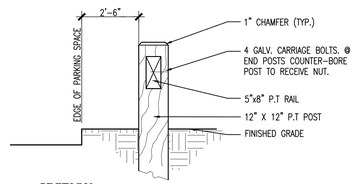
7 SOFTBALL BLEACHER GUARDRAIL ELEVATION
NOT TO SCALE



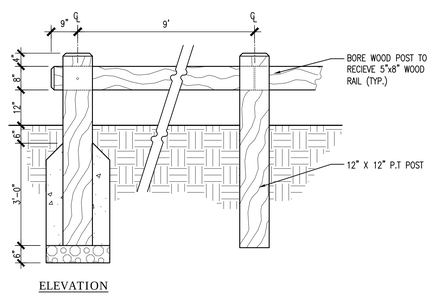
4 BALL NETTING SYSTEM AT CHAIN LINK FENCE
NOT TO SCALE
(SAME AS #8 SHEET L4.05)



1 TEAM BENCH
NOT TO SCALE

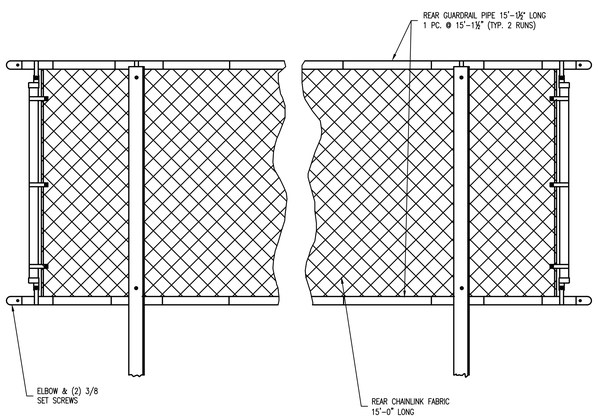


SECTION

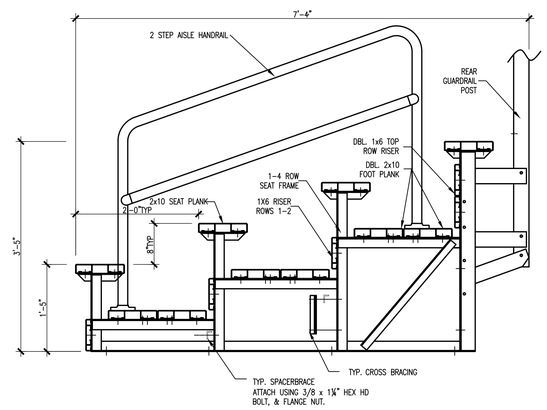


ELEVATION

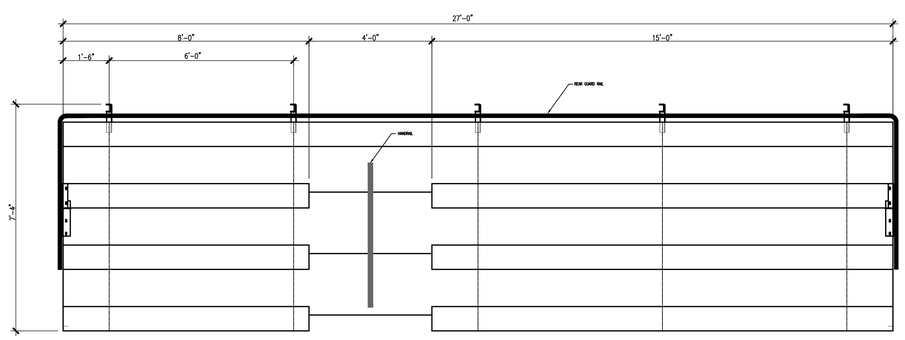
2 WOOD GUIDE RAIL
NOT TO SCALE



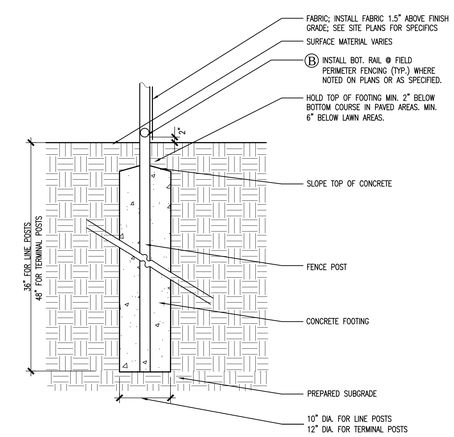
8 SOFTBALL BLEACHER REAR GUARDRAIL
NOT TO SCALE



5 SOFTBALL BLEACHER SECTION
NOT TO SCALE



6 SOFTBAL BLEACHER PLAN
NOT TO SCALE



3 CHAIN LINK FENCE POST FOOTING
NOT TO SCALE

KAESTLE BOOS associates, inc

416 Slater Road, P.O. Box 2590, New Britain, CT 06050-2590
Phone: 860-229-0361 ▲ Fax: 860-229-5303

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KEY PLAN

NOT TO SCALE PROJECT TRUE

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DERBY HIGH SCHOOL ATHLETIC FIELD IMPROVEMENTS

75 CHATFIELD ST
DERBY, CT 06418

PROJECT NO.: 17015.00 DRAWN BY: JD, MT

SITE DETAILS

DRAWING NO.:
L4.08

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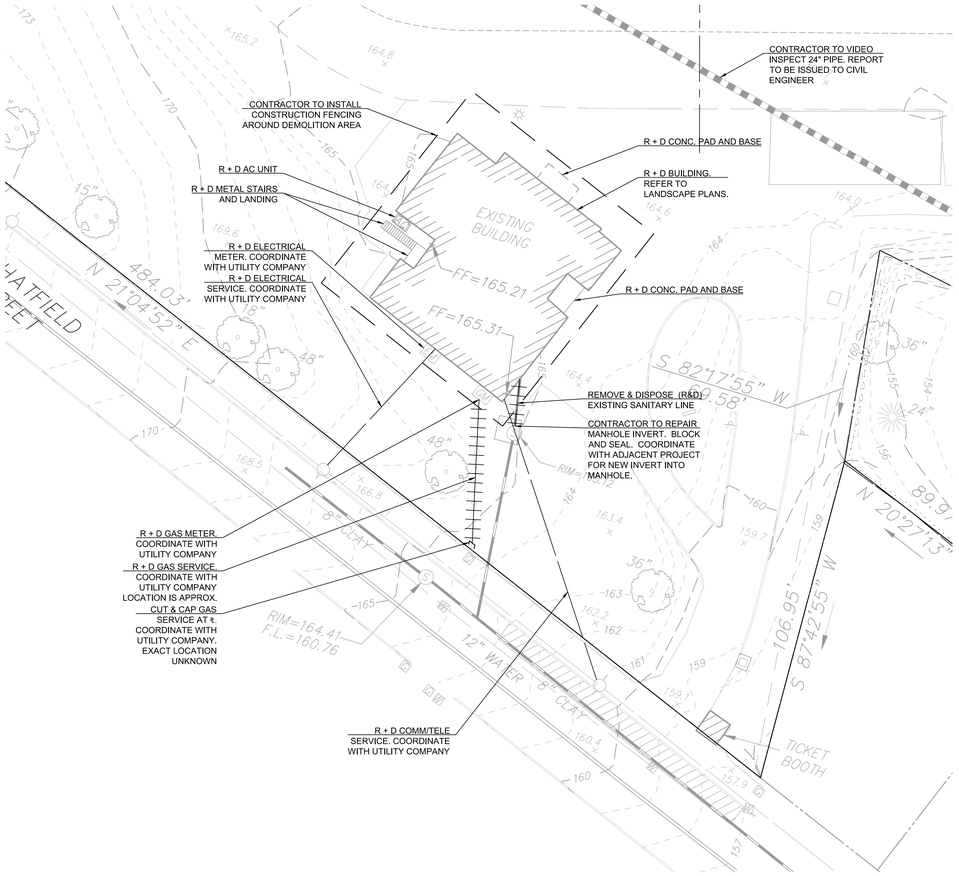

GENERAL NOTES

1. LOCATIONS & ELEVATIONS OF UNDERGROUND UTILITIES AND STRUCTURES ARE TAKEN FROM RECORD PLANS AND LIMITED FIELD CHECK AND ARE APPROXIMATE ONLY. THE ENGINEER DOES NOT GUARANTEE THEIR ACCURACY OR THAT ALL UTILITIES AND SUBSURFACE STRUCTURES ARE SHOWN. THE CONTRACTOR SHALL VERIFY SIZE, LOCATION AND INVERTS OF UTILITIES AND STRUCTURES PRIOR TO THE START OF CONSTRUCTION.
2. THE CONTRACTOR SHALL DETERMINE FOR HIMSELF, PRIOR TO BIDDING, THE LOCATIONS AND ELEVATIONS OF ALL UTILITIES THAT MAY AFFECT HIS CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL ADEQUATELY SUPPORT ALL UTILITIES AND SHALL BE RESPONSIBLE FOR ALL DAMAGE. CONTACT "CALL BEFORE YOU DIG", 1-800-922-4455, AT LEAST 48 HOURS PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR IS TO COORDINATE ACTIVITIES WITH INDIVIDUAL UTILITY COMPANY REPRESENTATIVES.
3. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER SHOULD THERE BE ANY CONFLICT BETWEEN EXISTING UTILITIES AND PROPOSED CONSTRUCTION.
4. ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE CONSTRUCTION MANAGER.
5. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT PROPER STORM DRAINAGE IS MAINTAINED THROUGHOUT CONSTRUCTION AND SHALL MAINTAIN ALL EXISTING AND NEW UTILITIES IN GOOD WORKING ORDER AND SHALL PROTECT THEM AT ALL TIMES UNTIL THE WORK IS COMPLETED AND ACCEPTED.
6. EXCAVATION REQUIRED WITHIN PROXIMITY OF EXISTING UTILITY LINES SHALL SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISITNG UTILITIES OR STRUCTURES AT NO ADDED COST TO THE OWNER (TYP.).
7. ALL ITEMS REQUIRING REMOVAL SHALL BE REMOVED TO FULL DEPTH TO INCLUDE BASE MATERIAL AND FOOTINGS OR FOUNDATIONS AS APPLICABLE AND LEGALLY DISPOSED OF OFFSITE.
8. ALL EXISTING UTILITIES REQUIRING REMOVAL SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY COMPANIES.
9. ALL POINTS OF CONSTRUCTION INGRESS & EGRESS WILL BE PROTECTED TO PREVENT TRACKING OF MUD ONTO PUBLIC WAYS. ANY SEDIMENT TRACKED ONTO PAVED PUBLIC WAYS SHALL BE SWEPT AT THE END OF EACH WORK DAY.
10. ALL SEDIMENTATION AND EROSION CONTROL AND DEWATERING MEASURES SHALL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS AS OUTLINED HEREIN. INSPECTION AND MAINTENANCE SHALL BE CARRIED OUT THROUGHOUT THE THE CONSTRUCTION PERIOD AND UNTIL ALL DISTURBED AREAS ARE STABILIZED WITH VEGETATION OR PAVING. THE MINIMUM INSPECTION PERIOD SHALL BE WEEKLY AND AFTER MAJOR STORMS. THERE SHALL BE NO SILTATION OF THE STREETS OR DRAINAGE SYSTEMS.
11. DUST SHALL BE CONTROLLED BY SPRINKLING OR OTHER APPROVED METHODS AS NECESSARY, OR AS DIRECTED BY THE CONSTRUCTION MANAGER.
12. WATER SERVICE TAPS SHALL BE PERFORMED BY REGIONAL WATER AUTHORITY. THE CONTRACTOR SHALL EXCAVATE, BACKFILL AND PAY THE APPLICABLE FEES.
13. THE PROPERTY IS SERVICED BY PUBLIC WATER AND PUBLIC SEWER.
14. A PRECONSTRUCTION MEETING IS REQUIRED WITH THE ARCHITECT PRIOR TO ANY ONSITE ACTIVITIES.
15. REFERENCE SITE DEMOLITION PLANS L1.01 AND L1.02 FOR DEMOLITION OF THE EXISTING TRACK & FIELD AND SOFTBALL FIELD.
16. THE EXACT LOCATION OF THE EXISTING GAS SERVICE LINE TO THE BUILDING WILL NEED TO BE DETERMINED IN THE FIELD IN CONJUNCTION WITH EVERSOURCE. REMOVE AND DISPOSE OF THE EXISTING GAS SERVICE LINE AND CAP AT THE PROPERTY LINE. COORDINATE WITH EVERSOURCE.
17. REMOVE AND DISPOSE OF WATER SERVICE BACK TO PROPERTY LINE. CUT AND CAP PER WATER COMPANY SPECIFICATIONS. COORDINATE WITH UTILITY COMPANY.

LEGEND

REMOVE PIPING

KAESTLE BOOS associates, inc

416 Slater Road, P.O. Box 2590, New Britain, CT 06050-2590
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325 Foxborough Boulevard, Suite 100, Foxborough, MA 02035
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Alfred Benesch & Company
120 Hebron Avenue, Second Floor
Glastonbury, Connecticut 06033
860-633-8341

ISSUE DATE

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DATE	REFERENCE

KEY PLAN

SCALE: 1" = 20'-0"

PROJECT TRUE

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DERBY HIGH SCHOOL ATHLETIC FACILITES RENOVATION PROJECT

75 CHATFIELD ST
DERBY, CT 06418

PROJECT NO.: 17015.00 DRAWN BY: RGS

UTILITY DEMOLITION PLAN

DRAWING NO.:
C1.01

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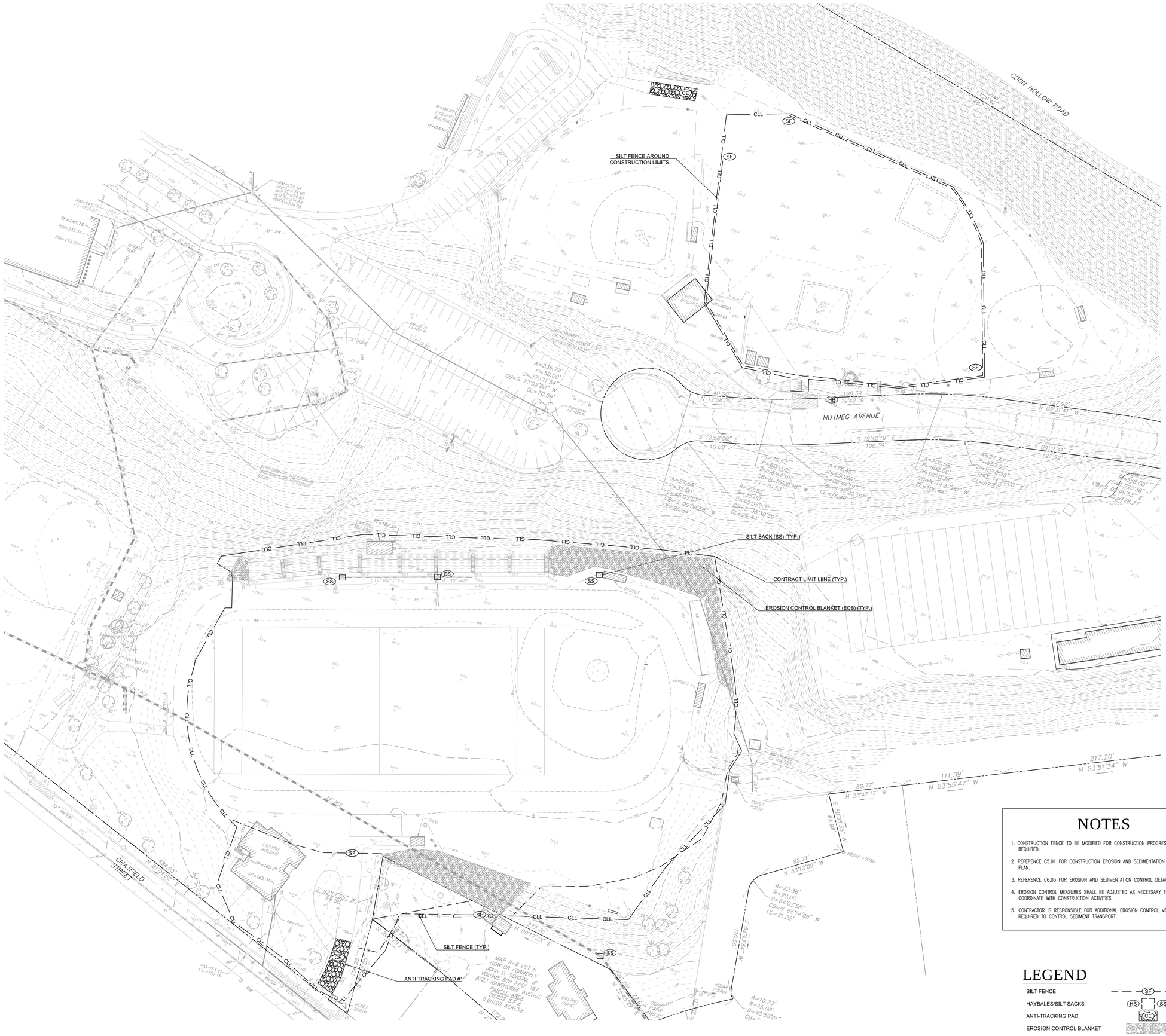

NOTES

1. CONSTRUCTION FENCE TO BE MODIFIED FOR CONSTRUCTION PROGRESSION AS REQUIRED.
2. REFERENCE C5.01 FOR CONSTRUCTION EROSION AND SEDIMENTATION CONTROL PLAN.
3. REFERENCE C6.03 FOR EROSION AND SEDIMENTATION CONTROL DETAILS.
4. EROSION CONTROL MEASURES SHALL BE ADJUSTED AS NECESSARY TO COORDINATE WITH CONSTRUCTION ACTIVITIES.
5. CONTRACTOR IS RESPONSIBLE FOR ADDITIONAL EROSION CONTROL MEASURES AS REQUIRED TO CONTROL SEDIMENT TRANSPORT.

LEGEND

SILT FENCE	SF
HAYBALES/SILT SACKS	HB SS
ANTI-TRACKING PAD	CE
EROSION CONTROL BLANKET	ECB

KAESTLE BOOS associates, inc

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Glastonbury, Connecticut 06033
860-633-8341

ISSUE DATE

DATE	DESCRIPTION
MARCH 5, 2018	BID DOCUMENTS

REVISIONS

DATE	REFERENCE

KEY PLAN

0 10' 20' 20'
SCALE: 1" = 20'-0"
PROJECT TRUE

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DERBY HIGH SCHOOL ATHLETIC FACILITES RENOVATION PROJECT

75 CHATFIELD ST
DERBY, CT 06418

PROJECT NO.: 17015.00 DRAWN BY: RGS

DEMOLITION EROSION AND SEDIMENTATION CONTROL PLAN

DRAWING NO.:
C1.02

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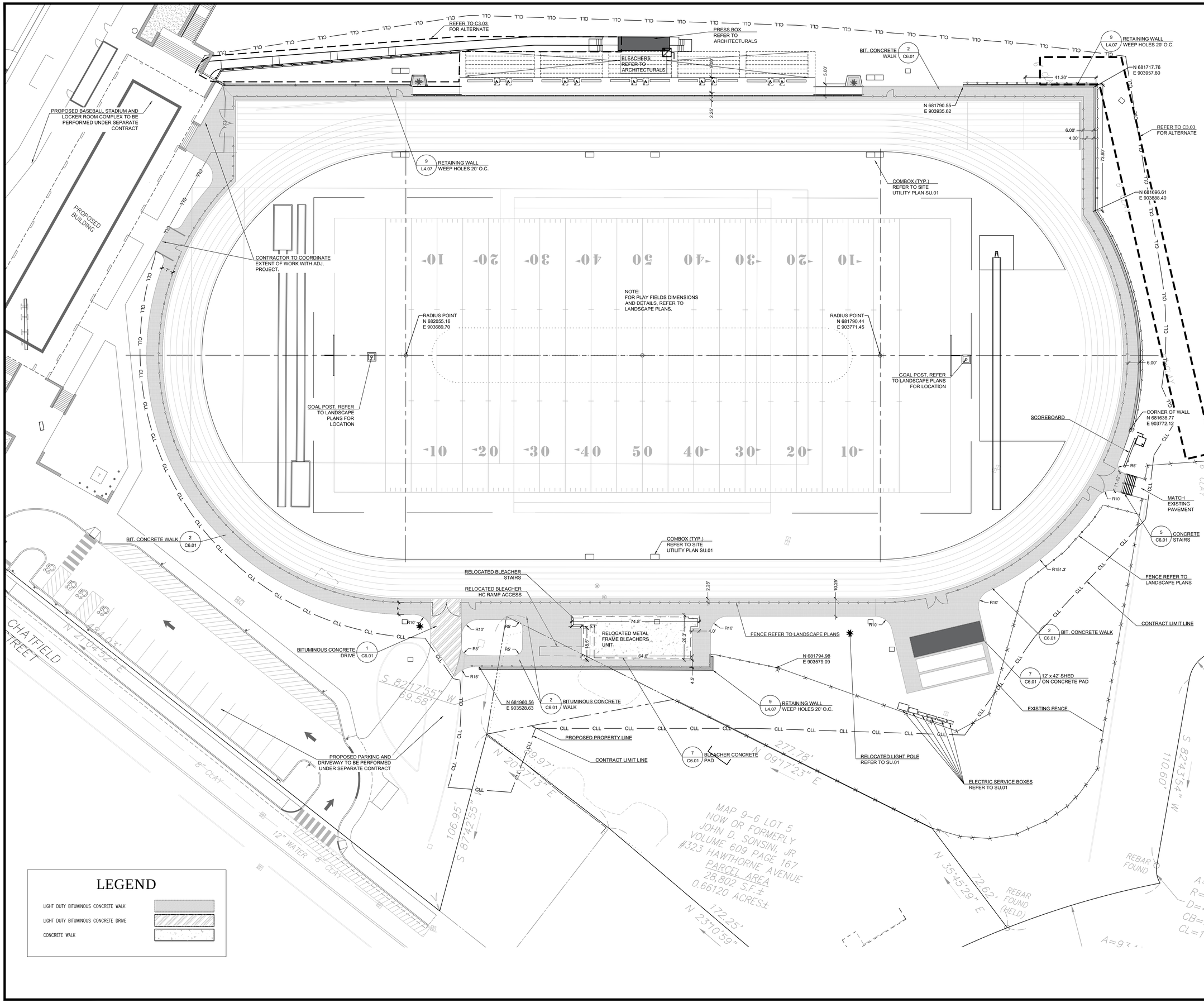

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DERBY, CT 06418

PROJECT NO.: 17015.00 DRAWN BY: RGS

SITE LAYOUT (TRACK & FIELD)

DRAWING NO.:
C2.01

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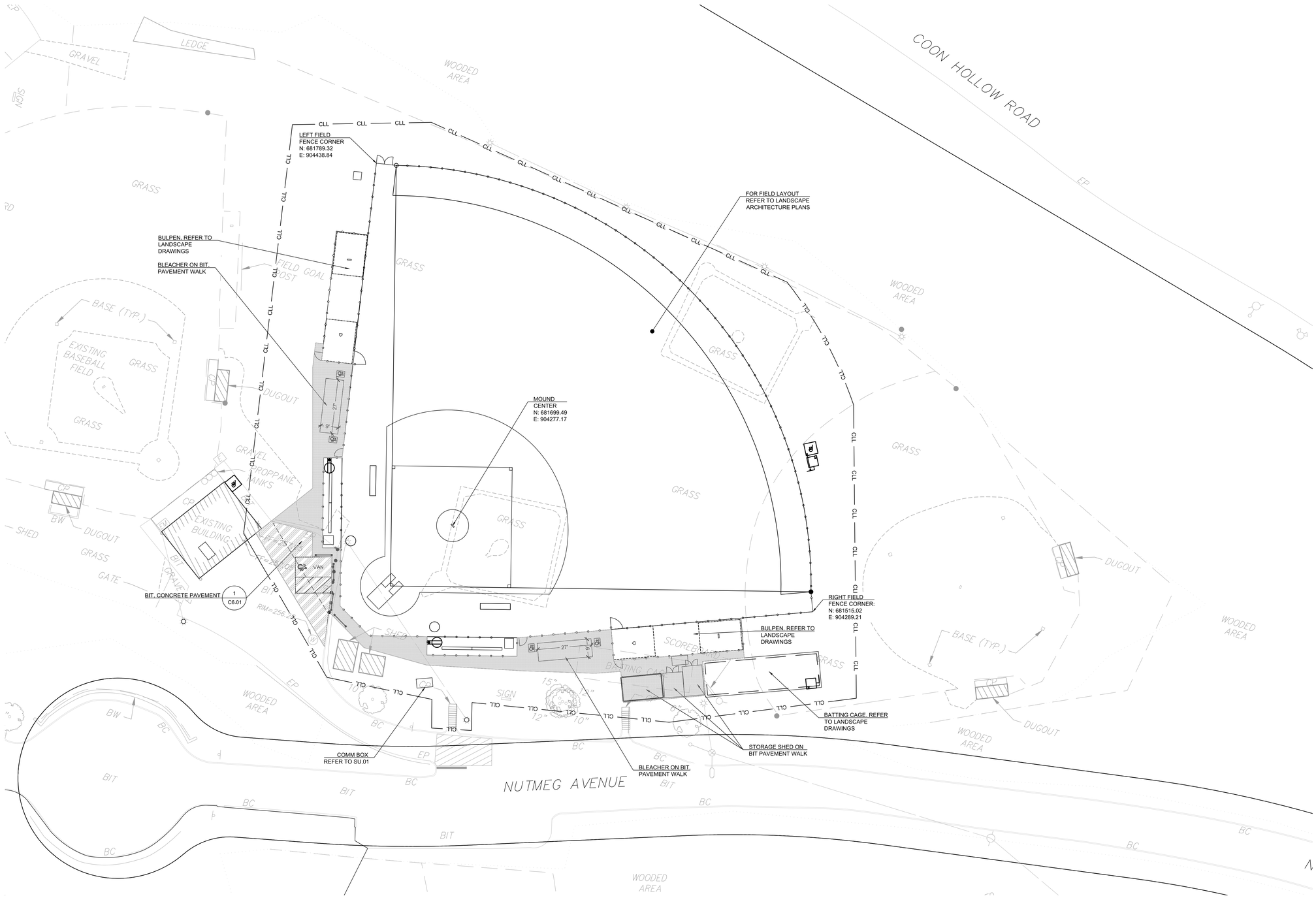

LEGEND

LIGHT DUTY BITUMINOUS CONCRETE WALK	
LIGHT DUTY BITUMINOUS CONCRETE DRIVE	
CONCRETE WALK	

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KEY PLAN

0 10' 20' 20'
SCALE: 1" = 20'-0"
PROJECT TRUE

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75 CHATFIELD ST
DERBY, CT 06418

PROJECT NO.: 17015.00 DRAWN BY: RGS

SITE LAYOUT (SOFTBALL FIELD)

DRAWING NO.:
C2.02

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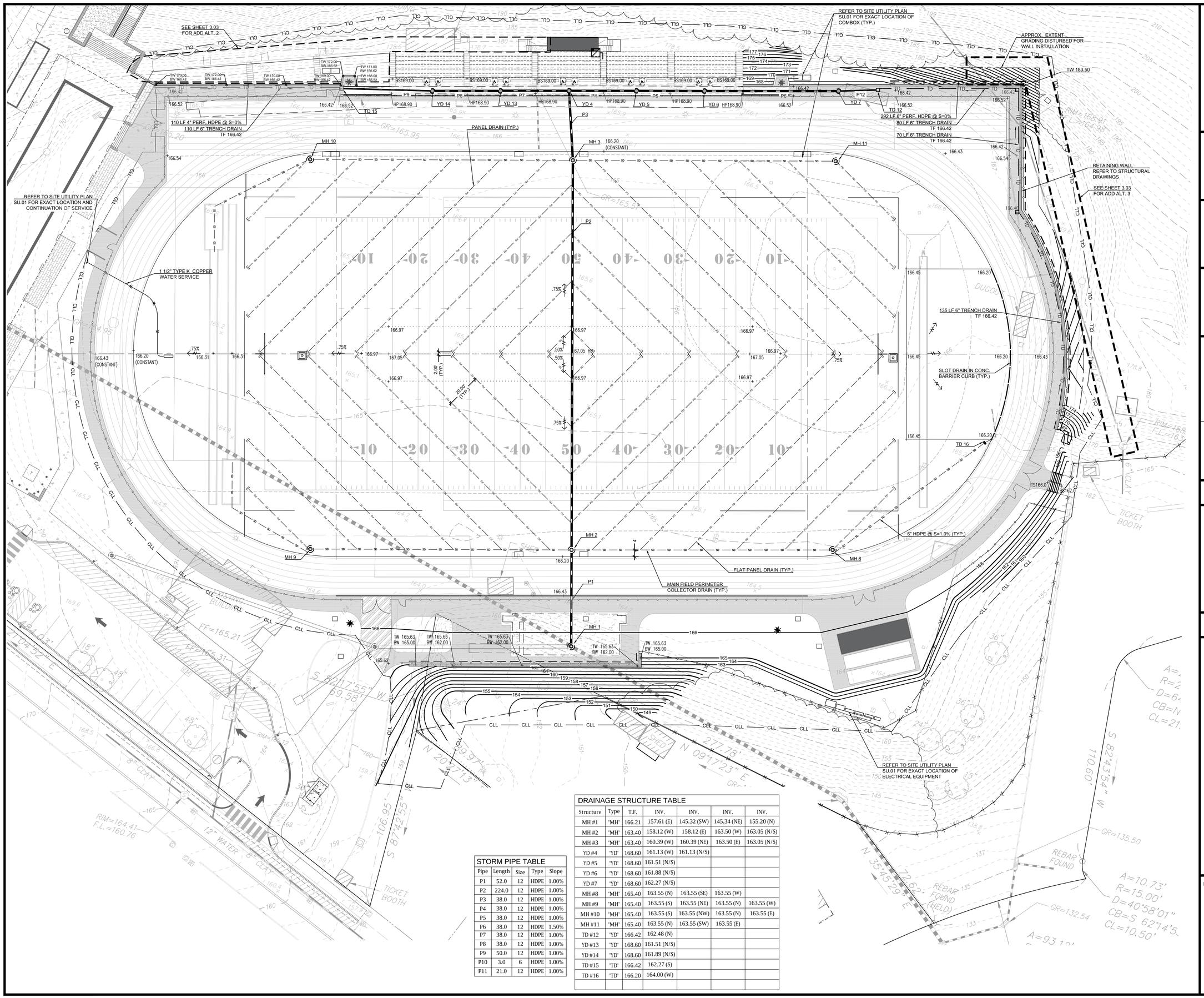

STORM PIPE TABLE

Pipe	Length	Size	Type	Slope
P1	52.0	12	HDPE	1.00%
P2	224.0	12	HDPE	1.00%
P3	38.0	12	HDPE	1.00%
P4	38.0	12	HDPE	1.00%
P5	38.0	12	HDPE	1.00%
P6	38.0	12	HDPE	1.50%
P7	38.0	12	HDPE	1.00%
P8	38.0	12	HDPE	1.00%
P9	50.0	12	HDPE	1.00%
P10	3.0	6	HDPE	1.00%
P11	21.0	12	HDPE	1.00%

DRAINAGE STRUCTURE TABLE

Structure	Type	T.F.	INV.	INV.	INV.	INV.
MH #1	'MH'	166.21	157.61 (E)	145.32 (SW)	145.34 (NE)	155.20 (N)
MH #2	'MH'	163.40	158.12 (W)	158.12 (E)	163.50 (W)	163.05 (N/S)
MH #3	'MH'	163.40	160.39 (W)	160.39 (NE)	163.50 (E)	163.05 (N/S)
YD #4	'YD'	168.60	161.13 (W)	161.13 (N/S)		
YD #5	'YD'	168.60	161.51 (N/S)			
YD #6	'YD'	168.60	161.88 (N/S)			
YD #7	'YD'	168.60	162.27 (N/S)			
MH #8	'MH'	165.40	163.55 (N)	163.55 (SE)	163.55 (W)	
MH #9	'MH'	165.40	163.55 (S)	163.55 (NE)	163.55 (N)	163.55 (W)
MH #10	'MH'	165.40	163.55 (S)	163.55 (NW)	163.55 (N)	163.55 (E)
MH #11	'MH'	165.40	163.55 (N)	163.55 (SW)	163.55 (E)	
TD #12	'YD'	166.42	162.48 (N)			
YD #13	'YD'	168.60	161.51 (N/S)			
YD #14	'YD'	168.60	161.89 (N/S)			
TD #15	'TD'	166.42	162.27 (S)			
TD #16	'TD'	166.20	164.00 (W)			

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KEY PLAN

SCALE: 1" = 20'-0" (0, 10', 20', 20')

PROJECT TRUE

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DERBY HIGH SCHOOL ATHLETIC FACILITES RENOVATION PROJECT

75 CHATFIELD ST
DERBY, CT 06418

PROJECT NO.: 17015.00 DRAWN BY: RGS

SITE GRADING, DRAINAGE, AND UTILITIES (TRACK & FIELD)

DRAWING NO.:
C3.01

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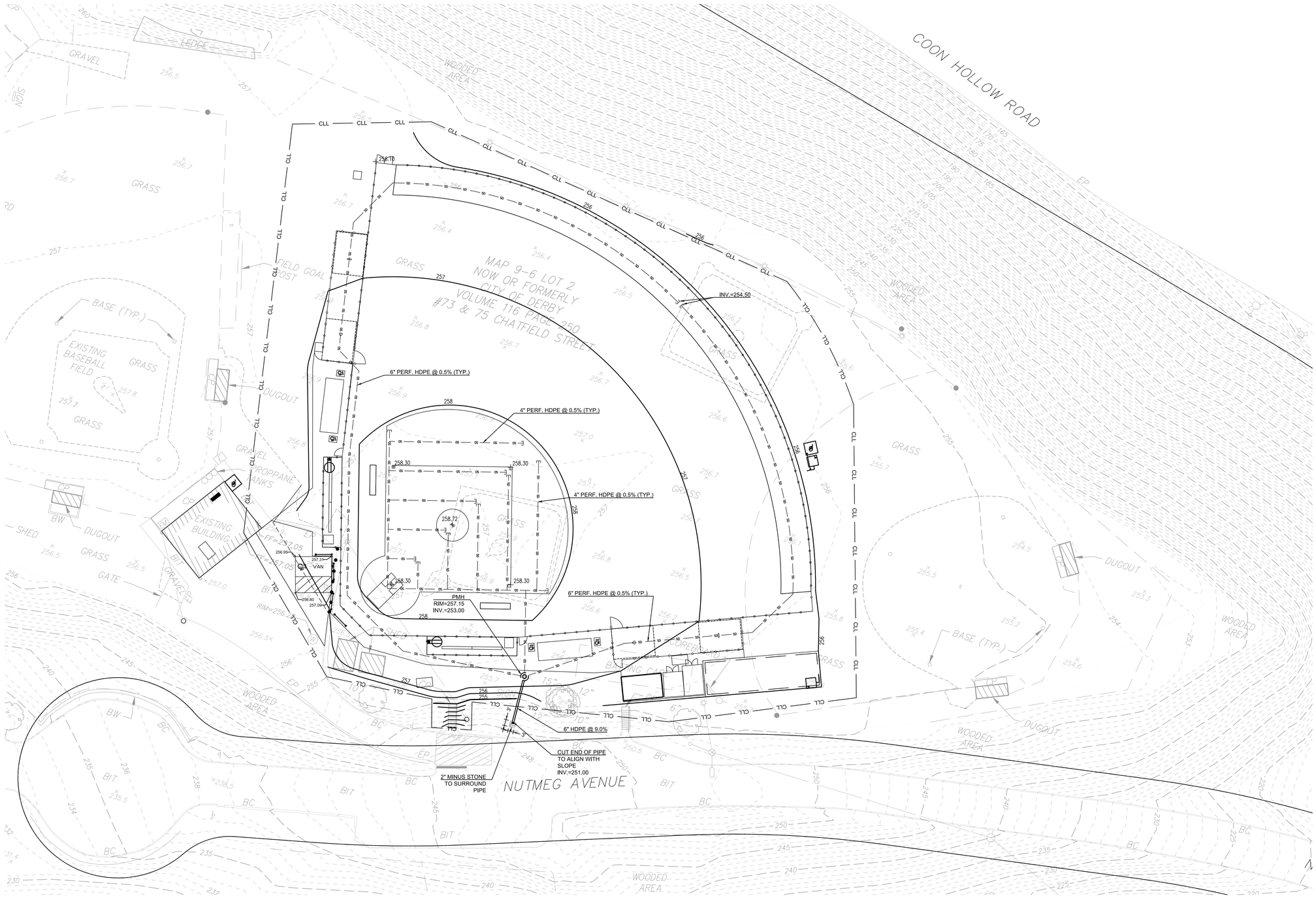

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KEY PLAN

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PROJECT NO.: 17015.00 DRAWN BY: RGS

SITE GRADING AND DRAINAGE (SOFTBALL FIELD)

DRAWING NO.:
C3.02

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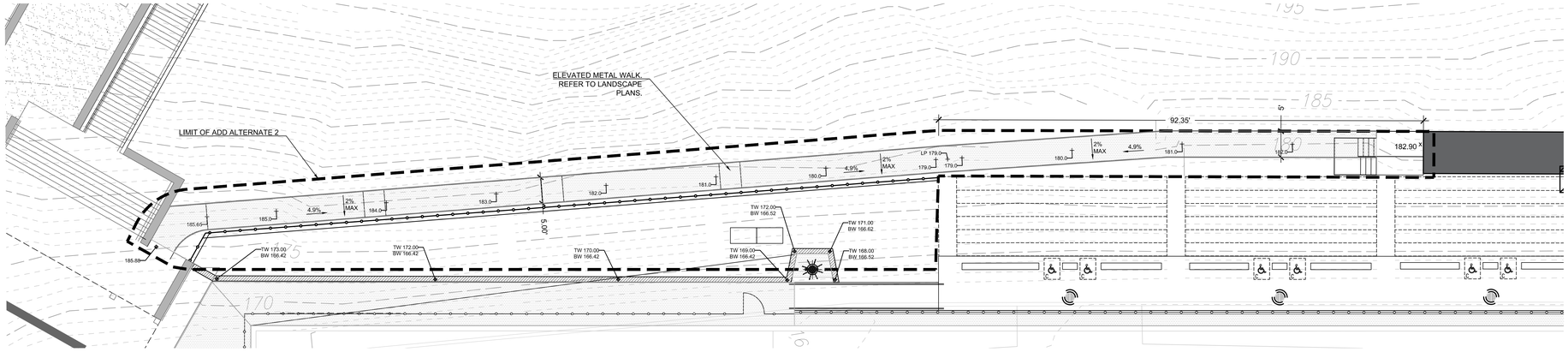
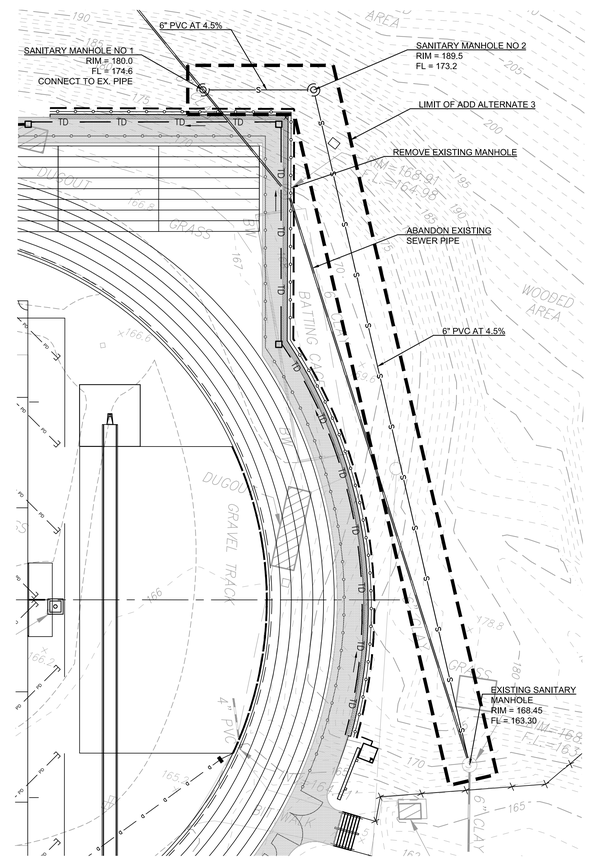


1 C3.03 ADD ALTERNATE 2
SCALE: 1" = 10'-0"



2 C3.03 ADD ALTERNATE 3
SCALE: 1" = 20'-0"

LEGEND

LIGHT DUTY BITUMINOUS CONCRETE WALK	
LIGHT DUTY BITUMINOUS CONCRETE DRIVE	
CONCRETE WALK	

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ADD ALTERNATES

DRAWING NO.:
C3.03

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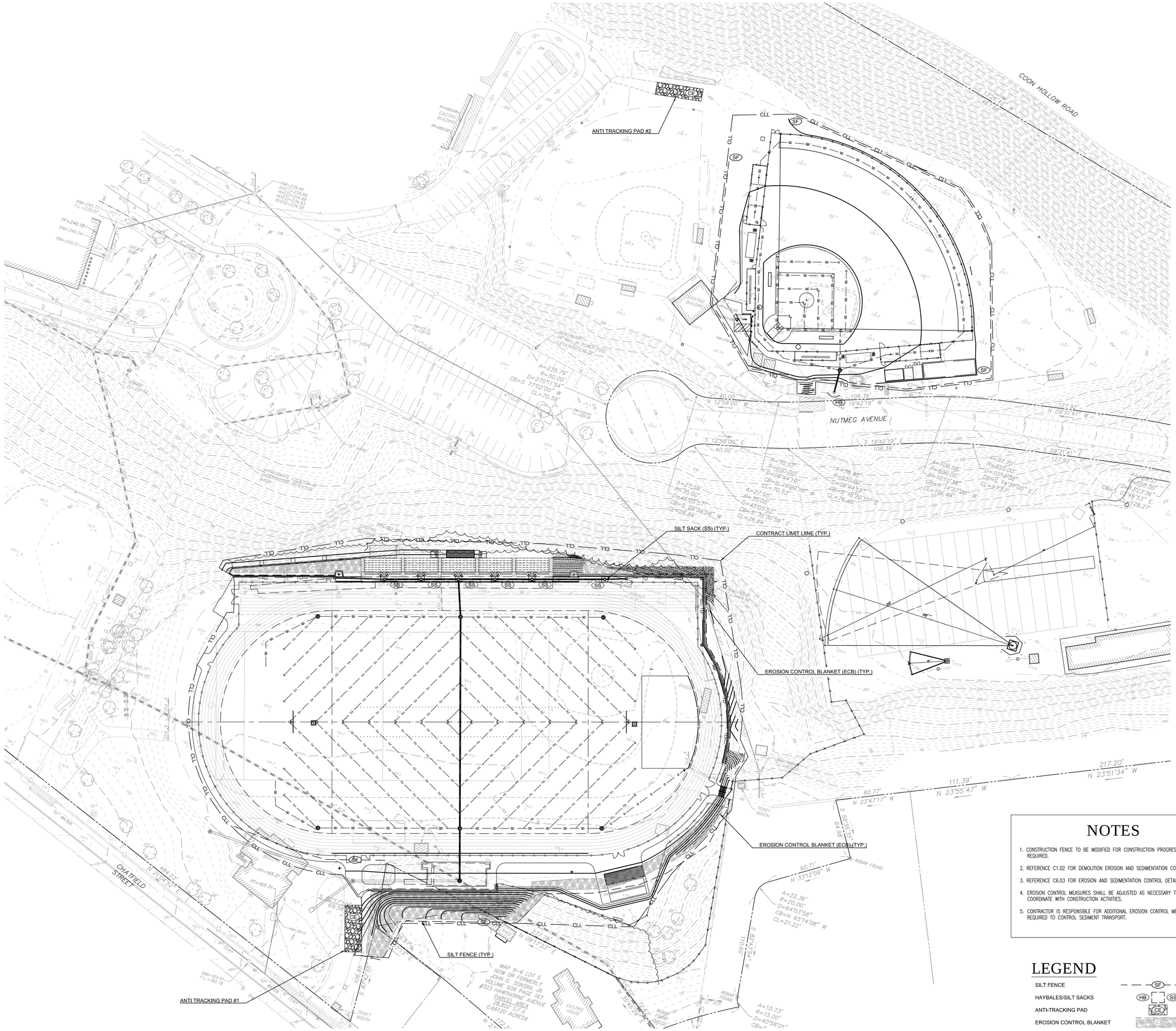

NOTES

1. CONSTRUCTION FENCE TO BE MODIFIED FOR CONSTRUCTION PROGRESSION AS REQUIRED.
2. REFERENCE C1.02 FOR DEMOLITION EROSION AND SEDIMENTATION CONTROL PLAN.
3. REFERENCE C6.03 FOR EROSION AND SEDIMENTATION CONTROL DETAILS.
4. EROSION CONTROL MEASURES SHALL BE ADJUSTED AS NECESSARY TO COORDINATE WITH CONSTRUCTION ACTIVITIES.
5. CONTRACTOR IS RESPONSIBLE FOR ADDITIONAL EROSION CONTROL MEASURES AS REQUIRED TO CONTROL SEDIMENT TRANSPORT.

LEGEND

SILT FENCE	SF
HAYBALES/SILT SACKS	HB SS
ANTI-TRACKING PAD	CE
EROSION CONTROL BLANKET	EC

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KEY PLAN

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SCALE: 1" = 20'-0"
PROJECT TRUE

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PROJECT NO.: 17015.00 DRAWN BY: RGS

CONSTRUCTION EROSION AND SEDIMENTATION CONTROL PLAN

DRAWING NO.:
C5.01

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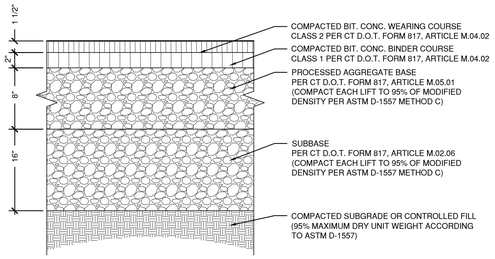
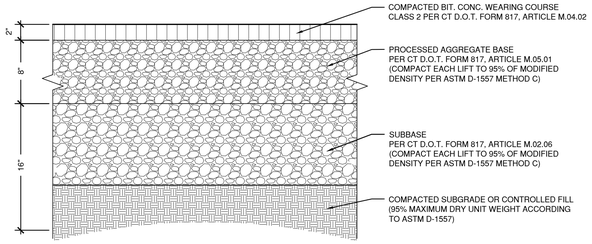


1 C6.01 BITUMINOUS CONC. PAVEMENT

NOT TO SCALE



2 C6.01 BITUMINOUS CONC. WALK

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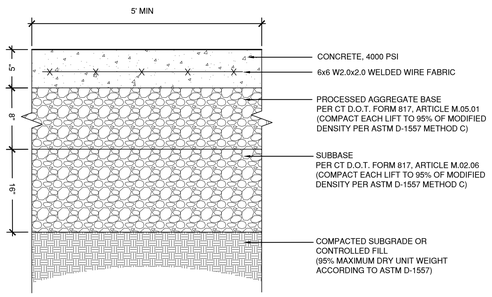
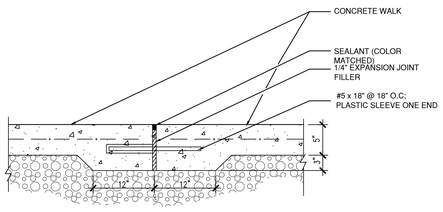


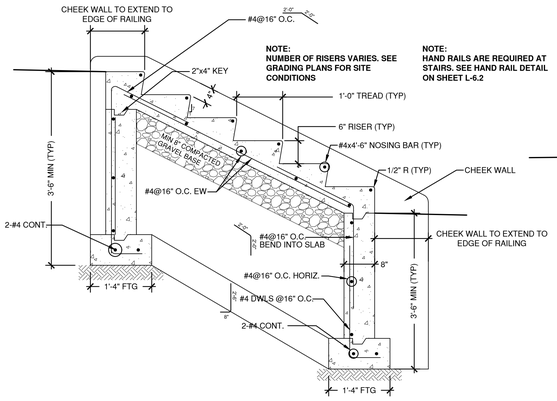
3 C6.01 CONCRETE WALK

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



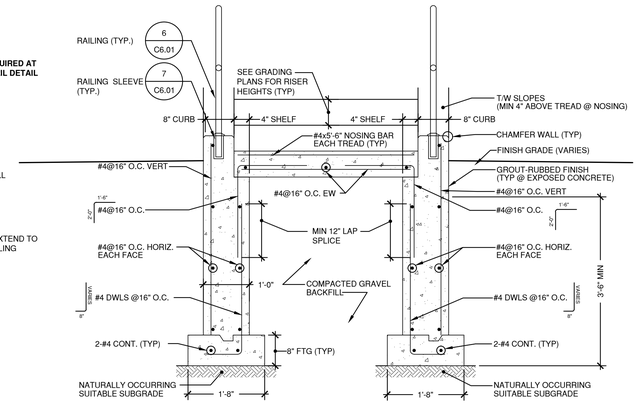
4 C6.01 EXPANSION/CONTRACTION JOINTS

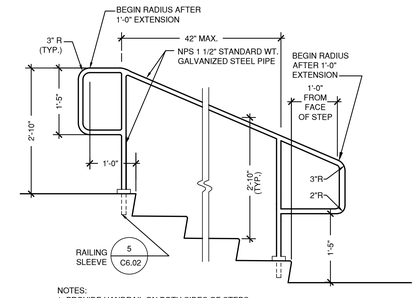
NOT TO SCALE



5 C6.01 CONCRETE STAIRS

NOT TO SCALE

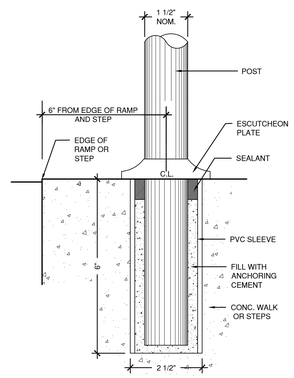




NOTES:
1. PROVIDE HANDRAIL ON BOTH SIDES OF STEPS.
2. ALIGN POSTS 6" IN FROM THE EDGE OF STEPS.
3. RAIL COATINGS (GALVANIZING & PAINT) TO BE COLORGALY THREE STEP PROCESS BY DUNCAN OR APPROVED EQUAL

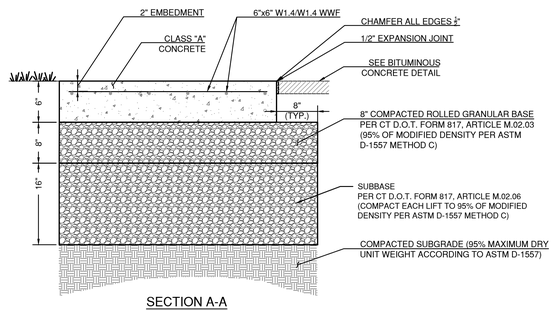
6 C6.01 HANDRAIL AT STEPS

NOT TO SCALE



7 C6.01 RAILING SLEEVE

NOT TO SCALE



SECTION A-A

8 C6.01 CONCRETE PAD

NOT TO SCALE

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PROJECT NO.: 17015.00 DRAWN BY: RGS

SITE DETAILS

DRAWING NO.:
C6.01

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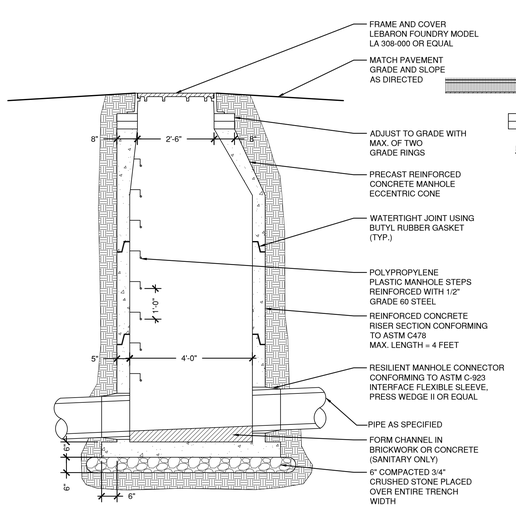
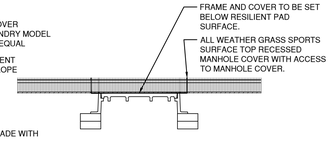
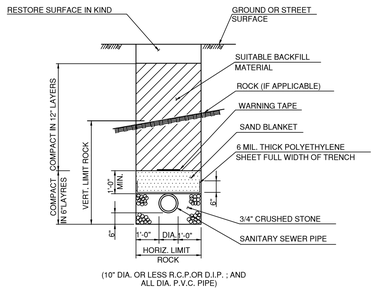
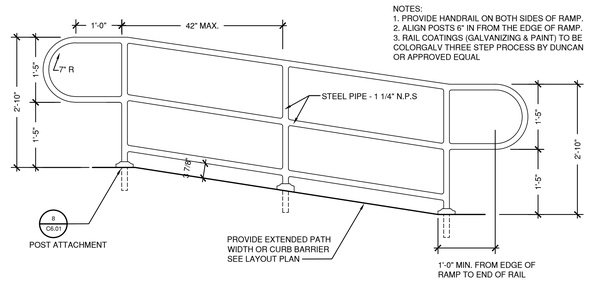




1 C6.02 STORM/SANITARY MANHOLE
SCALE: 1/2" = 1'-0"

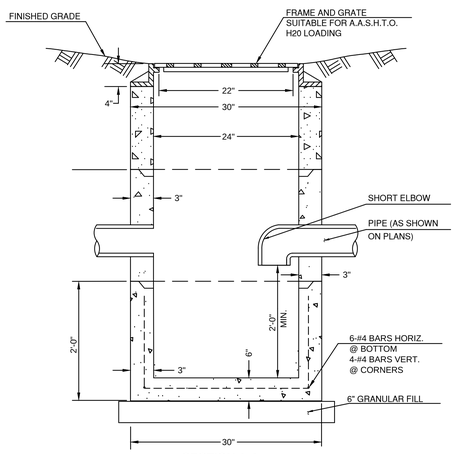


4 C6.02 SANITARY TRENCH
NOT TO SCALE

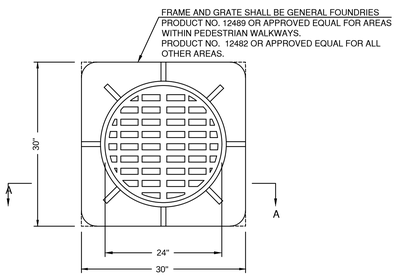


NOTES:
1. PROVIDE HANDRAIL ON BOTH SIDES OF RAMP.
2. ALIGN POSTS 6" IN FROM THE EDGE OF RAMP.
3. RAIL COATINGS (GALVANIZING & PAINT) TO BE COLORGALV THREE STEP PROCESS BY DUNCAN OR APPROVED EQUAL

7 C6.02 HANDRAIL AT RAMP
NOT TO SCALE

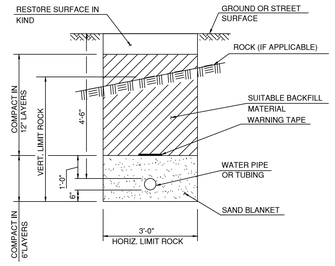


SECTION A-A

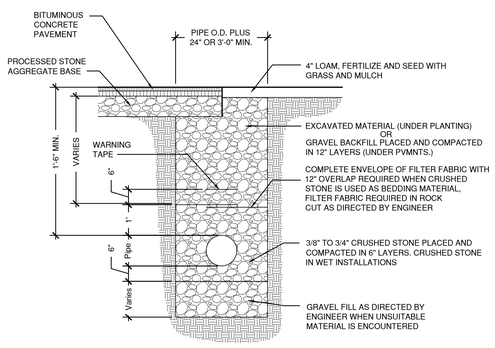


PLAN VIEW

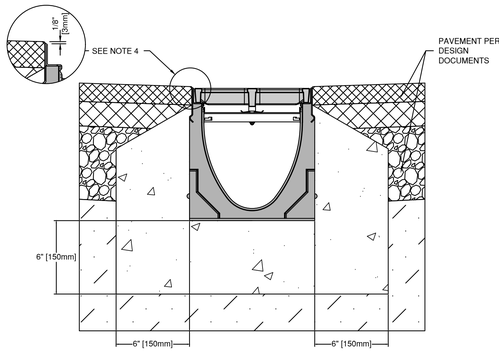
2 C6.02 YARD DRAIN
NOT TO SCALE



5 C6.02 WATER TRENCH
NOT TO SCALE



3 C6.02 STORM TRENCH
NOT TO SCALE



NOTES:
1. IT IS NECESSARY TO ENSURE MINIMUM DIMENSIONS SHOWN ARE SUITABLE FOR EXISTING GROUND CONDITIONS. *ENGINEERING ADVICE MAY BE REQUIRED.*
2. MINIMUM CONCRETE STRENGTH OF 4,000 PSI IS RECOMMENDED. CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.
3. EXPANSION AND CONTRACTION CONTROL JOINTS AND REINFORCEMENT ARE RECOMMENDED TO PROTECT CHANNEL AND CONCRETE SURROUND. *ENGINEERING ADVICE MAY BE REQUIRED.*
4. THE FINISHED LEVEL OF THE CONCRETE SURROUND MUST BE APPROX. 1/8" [3mm] ABOVE THE TOP OF THE CHANNEL EDGE.
5. CONCRETE BASE THICKNESS SHOULD MATCH SLAB THICKNESS. ENGINEERING ADVICE MAY BE REQUIRED TO DETERMINE PROPER LOAD CLASS.
6. REFER TO ACO'S LATEST INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS.

SPECIFICATION CLAUSE

K200 KLASSIKDRAIN 'QUICKLOK' LOAD CLASS B

GENERAL
THE SURFACE DRAINAGE SYSTEM SHALL BE POLYMER CONCRETE K200 CHANNEL SYSTEM WITH GALVANIZED STEEL EDGE RAILS AS MANUFACTURED BY ACO POLYMER PRODUCTS, INC.

MATERIALS
CHANNELS SHALL BE MANUFACTURED FROM POLYESTER RESIN POLYMER CONCRETE WITH AN INTEGRALLY CAST-IN GALVANIZED STEEL EDGE RAIL. MINIMUM PROPERTIES OF POLYMER CONCRETE WILL BE AS FOLLOWS:

COMPRESSIVE STRENGTH:	14,000 PSI
FLEXURAL STRENGTH:	4,000 PSI
TENSILE STRENGTH:	1,500 PSI
WATER ABSORPTION:	0.07%
FROST PROOF	YES
DILUTE ACID AND ALKALI RESISTANT	YES
B117 SALT SPRAY TEST COMPLIANT	YES

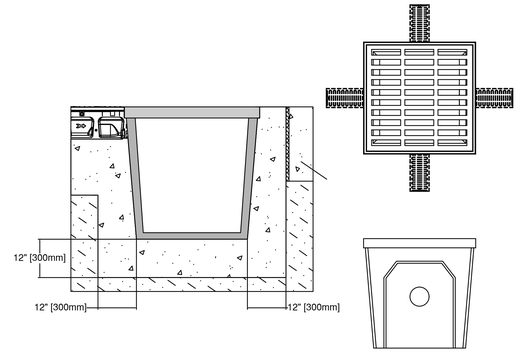
THE SYSTEM SHALL BE 8" (200mm) NOMINAL INTERNAL WIDTH WITH A 10.2" (260mm) OVERALL WIDTH AND A BUILT-IN SLOPE OF 0.5%. CHANNEL INVERT SHALL HAVE DEVELOPED "V" SHAPE. ALL CHANNELS SHALL BE INTERLOCKING WITH A MALE/FEMALE JOINT.

THE COMPLETE DRAINAGE SYSTEM SHALL BE BY ACO POLYMER PRODUCTS, INC. ANY DEVIATION OR PARTIAL SYSTEM DESIGN AND/OR IMPROPER INSTALLATION WILL VOID ANY AND ALL WARRANTIES PROVIDED BY ACO POLYMER PRODUCTS, INC.

CHANNEL SHALL WITHSTAND LOADING TO PROPER LOAD CLASS AS OUTLINED BY EN 1433. GRATE TYPE SHALL BE APPROPRIATE TO MEET THE SYSTEM LOAD CLASS SPECIFIED AND INTENDED APPLICATION. GRATES SHALL BE SECURED USING 'QUICKLOK' BOLTLESS LOCKING SYSTEM. CHANNEL AND GRATE SHALL BE CERTIFIED TO MEET THE SPECIFIED EN 1433 LOAD CLASS. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

NOTE: ADA GRATE TO BE USED IN ALL PEDESTRIAN WALKWAYS.

6 C6.02 TRENCH DRAIN
NOT TO SCALE



SPECIFICATION CLAUSE

2x2x2 SUMP BOX

GENERAL
THE SUMP BOX SHALL BE POLYMER CONCRETE WITH A GREY IRON FRAME AND GRATE AS MANUFACTURED BY ACO POLYMER PRODUCTS, INC.

MATERIALS
THE SUMP BOX SHALL BE MANUFACTURED FROM POLYESTER RESIN POLYMER CONCRETE WITH A GREY IRON FRAME AND GRATE. MINIMUM PROPERTIES OF POLYMER CONCRETE WILL BE AS FOLLOWS:

COMPRESSIVE STRENGTH:	14,000 PSI
FLEXURAL STRENGTH:	4,000 PSI
TENSILE STRENGTH:	1,500 PSI
WATER ABSORPTION:	0.1%
FROST PROOF	YES
DILUTE ACID AND ALKALI RESISTANT	YES
B117 SALT TEST COMPLIANT	YES

THE SUMP BOX SHALL BE 22.91" (582mm) MAXIMUM INSIDE LENGTH WITH A 22.91" (582mm) MAXIMUM INSIDE WIDTH. 2x2x2 SUMP BOX INVERT DEPTH IS 25.63" (651mm). THE OVERALL HEIGHT IS 26.77" (680mm).

THE SUMP BOX SHALL ACCEPT 4", 8", AND 12" ACO DRAIN TRENCH DRAIN IN SIDES. (4" ACO DRAIN SHOWN IN DETAIL).

THE COMPLETE SUMP BOX AND TRENCH DRAINAGE SYSTEM SHALL BE BY ACO POLYMER PRODUCTS, INC. ANY DEVIATION OR PARTIAL SYSTEM DESIGN AND/OR IMPROPER INSTALLATION WILL VOID ANY AND ALL WARRANTIES PROVIDED BY ACO POLYMER PRODUCTS, INC.

SUMP BOX MEETS REQUIREMENTS OF AASHTO M306. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

NOTE: ADA GRATE TO BE USED IN ALL PEDESTRIAN WALKWAYS.

8 C6.02 TRENCH DRAIN SUMP BOX 2'x2'
NOT TO SCALE

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benesch

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ISSUE DATE

DATE	DESCRIPTION
MARCH 5, 2018	BID DOCUMENTS

REVISIONS

DATE	REFERENCE

KEY PLAN

PROJECT TRUE

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DERBY HIGH SCHOOL ATHLETIC FACILITES RENOVATION PROJECT

75 CHATFIELD ST
DERBY, CT 06418

PROJECT NO.: 17015.00 DRAWN BY: RGS

SITE DETAILS

DRAWING NO.:
C6.02

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EROSION AND SEDIMENTATION CONTROL NARRATIVE FOR:
ATHLETIC FIELD IMPROVEMENTS DERBY HIGH SCHOOL
DERBY, CONNECTICUT

I. INTRODUCTION

The erosion and sediment control plan has been prepared as part of the construction plans for ATHLETIC FIELD IMPROVEMENTS DERBY HIGH SCHOOL, Derby, Connecticut. Information relating to sedimentation and erosion control is included in these Drawings. All sedimentation and erosion control activities shall be in compliance with the Stormwater Pollution Prevention Plan prepared for this project.

II. NARRATIVE

A. DESCRIPTION OF DEVELOPMENT

The area of field improvements is approximately 7.5 acres total located within two areas of a terraced hilly site southeast of Picketts Pond. The proposed improvements consist of removal of existing concrete block building, hard and soft athletic surfaces, re-grading, re-placement of gravel running track with a rubberized surface, installation of new softball diamond in an existing grass area, new pavement and bit. concrete sidewalk, utility lines and turf seeding.

B. CONSTRUCTION AND GRADING SCHEDULE

1. CONSTRUCTION SEQUENCE

a. Erosion and Sediment Control

1. Install haybales and silt fence as shown on the drawing or as directed by the Construction Administrator.
2. Provide temporary sedimentation traps as necessary to control runoff. Provide 134 cy of storage per acre of disturbed area. Direct overland flow with the use of channels and berms to the basin location. Relocate temporary sedimentation basins as site conditions warrant. Sedimentation basin shall not be located within 100 feet of the wetlands.
3. Install Temporary Construction Entrance as shown on the drawings or as directed by the Construction Administrator.

b. Clearing and Grubbing

1. Strip and clear area for the proposed improvements.
2. No vegetation shall be cut outside of the established and approved clearing area. Under no circumstances shall trees greater than 4 inches in diameter be cut unless proper review and approval by the Construction Administrator has been obtained.
3. Dispose of cleared items at an approved off-site disposal area.

c. Site Excavation and Grading

1. Strip and Stock topsoil. Install silt fence around stockpile as required. The side slopes of stockpiled material shall be no steeper than 2:1. Stockpiles that are not to be used within 30 days shall be seeded and mulched immediately after formation of the stockpile or as directed by the Construction Administrator.
2. Relocate or install additional silt fence or hay bales to fully enclose and control all work areas as directed by the Construction Administrator.
3. As site grading progresses, provide temporary channels, settling basins, or berms as necessary to direct site runoff to the proposed or existing drainage structures as directed by the Construction Administrator at no additional cost to the owner.
4. The contractor shall stockpile all excess excavated material as directed by the Construction Administrator. Silt fence shall be placed around the perimeter of all stockpiles. Excess material that will not be reused shall be taken offsite immediately.
5. Replace clogged sedimentation control bales as required and clean sediment from basins when accumulation sediment exceeds 8" in depth at no additional cost to the owner.
6. Sediment buildup along silt fence protection shall be removed when it is half the height of the silt fence.

d. Storm Drainage Structures

1. As soon as possible construct storm drainage systems on-site.
2. Following construction of catch basins and other inlets, provide hay bales around all inlets to prevent sediment from entering newly constructed or existing drainage systems.

e. Utility Installation

1. Construct new sanitary sewers and water lines.

f. Rough Grading and Paving of Parking Areas and Drives

1. Sediment and erosion controls within the parking areas and access roads shall be left in place until immediately before paving. Measures outside of the paved area shall remain until a stable vegetative growth has been established on all slopes or until directed by the Construction Administrator.

g. Final Items

1. Clean all catch basins and storm manholes of all accumulated sediment as directed by the Construction Administrator.
2. Remove all silt fence barriers unless directed otherwise by the Construction Administrator.

2. CONTINGENCY PLANS FOR FAILED EROSION AND SEDIMENTATION CONTROL MEASURES

a. Failed erosion and sedimentation control measures will be evaluated on a case by case basis by the Construction Administrator and appropriate measures taken. These measures may include cleaning and/or replacement of defective facilities or installation of new or supplemental facilities at no additional cost to the owner.

C. DESIGN CRITERIA

The following design references were followed for the preparation of storm drainage design and erosion and sediment control plans:

1. "Connecticut Department of Transportation Drainage Manual"
2. "2002 Connecticut Guidelines for Soil Erosion and Sediment Control" by The Connecticut Council on Soil and Water Conservation in Cooperation with the Connecticut Department of Environmental Protection, DEP Bulletin 34.

D. CONSTRUCTION DETAILS

Construction details for the proposed project are presented on the detail sheets. Additional details can be found in Chapter 5 of the "2002 Connecticut Guidelines for Soil Erosion and Sediment Control"

E. INSTALLATION PROCEDURES

The installation procedures for stormwater management facilities and erosion and sedimentation control measures are presented in the projects technical specifications for Drainage; and Sedimentation and Erosion Control. Additional installation procedures are shown on the construction details both graphically and by use of construction notes.

F. OPERATION AND MAINTENANCE

1. CONSTRUCTION SEQUENCE

As contained in the Sedimentation and Erosion Control Specifications, operations and maintenance during construction will consist of periodic replacement, relocation, and/or cleaning of clogged hay bales, silt fence, temporary sedimentation basins and construction entrances at no additional cost to the owner. The Contractor's Representative will provide periodic inspection of erosion control systems. The Contractor shall place, repair or replace erosion control measures identified by the Owner within 24 hours. All drainage structures shall be inspected on daily basis and any necessary corrective action taken, at no additional cost to the owner.

No equipment, storage, or temporary lay down is allowed within the wetland limit.

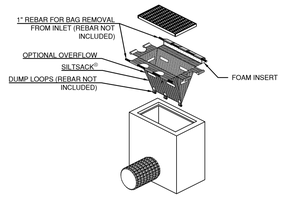
2. LONG TERM

Upon completion of construction all catch basins and stormwater manholes will be cleaned of all accumulated sediment. Thereafter, an inspection should be made by the Contractor after each storm event and each spring following the end of all pavement sanding operations. Sediment shall be removed whenever the thickness of accumulated sediment reaches 12" or more. More frequent inspection and cleaning may be required and will be determined once the system is in operation.

All paved surfaces should be cleaned on a regular basis to avoid added sediment clogging of basin tops or pipes.

G. DESIGNATED ON-SITE AGENT

1. The Contractor shall inspect and repair as necessary all erosion and sedimentation controls at least once a week and after each storm event of 0.1 inches or greater. Detailed inspection reports shall be kept on file at an on-site location during the entire length of the construction phase.
2. The Contractor shall designate a responsible party to act as an on-site agent.
3. EMERGENCY CONTACT NUMBER: To be provided by Contractor.



SILT SACK DETAIL (SS)
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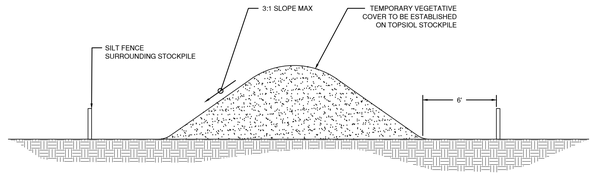

TOPSOIL STOCKPILE AREA
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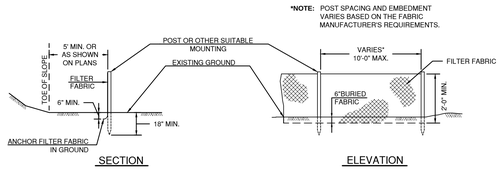

SILT FENCE
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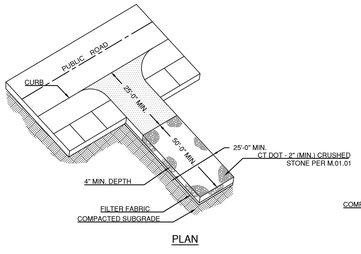
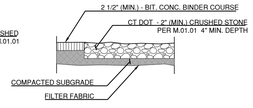


NOTE: LOCATION TO BE DETERMINED IN THE FIELD BY THE CONSTRUCTION ADMINISTRATOR



ANTI-TRACKING PAD
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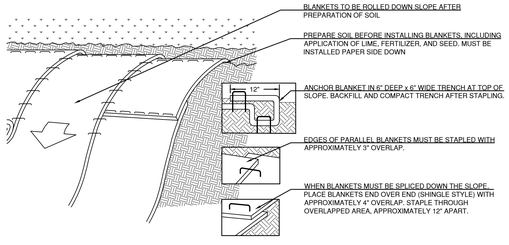

SLOPE STABILIZATION USING EROSION CONTROL BLANKET (ECB)
N.T.S.

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Glastonbury, Connecticut 06033
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ISSUE DATE

DATE	DESCRIPTION
MARCH 5, 2018	BID DOCUMENTS

REVISIONS

DATE	REFERENCE

KEY PLAN

PROJECT TRUE

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DERBY HIGH SCHOOL ATHLETIC FACILITES RENOVATION PROJECT
75 CHATFIELD ST
DERBY, CT 06418

PROJECT NO.: 17015.00 DRAWN BY: RGS

EROSION AND SEDIMENTATION CONTROL DETAILS

DRAWING NO.: C6.03

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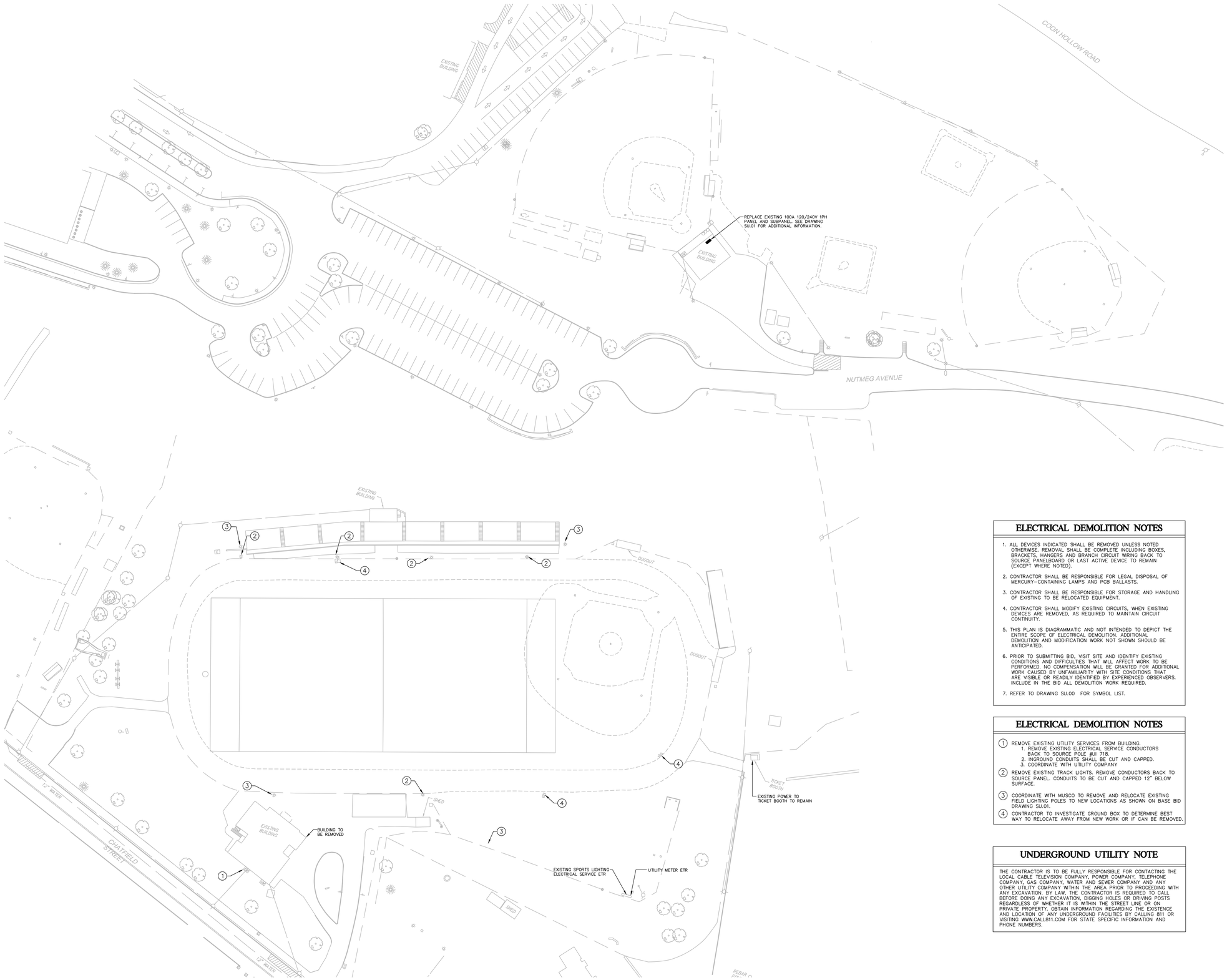

1 SITE UTILITIES DEMOLITON PLAN

SCALE: 1"=40'-0"

ELECTRICAL DEMOLITION NOTES

1. ALL DEVICES INDICATED SHALL BE REMOVED UNLESS NOTED OTHERWISE. REMOVAL SHALL BE COMPLETE INCLUDING BOXES, BRACKETS, HANGERS AND BRANCH CIRCUIT WIRING BACK TO SOURCE PANELBOARD OR LAST ACTIVE DEVICE TO REMAIN (EXCEPT WHERE NOTED).
2. CONTRACTOR SHALL BE RESPONSIBLE FOR LEGAL DISPOSAL OF MERCURY-CONTAINING LAMPS AND PCB BALLASTS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR STORAGE AND HANDLING OF EXISTING TO BE RELOCATED EQUIPMENT.
4. CONTRACTOR SHALL MODIFY EXISTING CIRCUITS, WHEN EXISTING DEVICES ARE REMOVED, AS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY.
5. THIS PLAN IS DIAGRAMMATIC AND NOT INTENDED TO DEPICT THE ENTIRE SCOPE OF ELECTRICAL DEMOLITION. ADDITIONAL DEMOLITION AND MODIFICATION WORK NOT SHOWN SHOULD BE ANTICIPATED.
6. PRIOR TO SUBMITTING BID, VISIT SITE AND IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT WORK TO BE PERFORMED. NO COMPENSATION WILL BE GRANTED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY IDENTIFIED BY EXPERIENCED OBSERVERS. INCLUDE IN THE BID ALL DEMOLITION WORK REQUIRED.
7. REFER TO DRAWING SU.00 FOR SYMBOL LIST.

ELECTRICAL DEMOLITION NOTES

1. REMOVE EXISTING UTILITY SERVICES FROM BUILDING.
   1. REMOVE EXISTING ELECTRICAL SERVICE CONDUCTORS BACK TO SOURCE POLE #UI 718.
   2. INGROUND CONDUITS SHALL BE CUT AND CAPPED.
   3. COORDINATE WITH UTILITY COMPANY
2. REMOVE EXISTING TRACK LIGHTS. REMOVE CONDUCTORS BACK TO SOURCE PANEL. CONDUITS TO BE CUT AND CAPPED 12" BELOW SURFACE.
3. COORDINATE WITH MUSCO TO REMOVE AND RELOCATE EXISTING FIELD LIGHTING POLES TO NEW LOCATIONS AS SHOWN ON BASE BID DRAWING SU.01.
4. CONTRACTOR TO INVESTIGATE GROUND BOX TO DETERMINE BEST WAY TO RELOCATE AWAY FROM NEW WORK OR IF CAN BE REMOVED.

UNDERGROUND UTILITY NOTE

THE CONTRACTOR IS TO BE FULLY RESPONSIBLE FOR CONTACTING THE LOCAL CABLE TELEVISION COMPANY, POWER COMPANY, TELEPHONE COMPANY, GAS COMPANY, WATER AND SEWER COMPANY AND ANY OTHER UTILITY COMPANY WITHIN THE AREA PRIOR TO PROCEEDING WITH ANY EXCAVATION. BY LAW, THE CONTRACTOR IS REQUIRED TO CALL BEFORE DOING ANY EXCAVATION, DIGGING HOLES OR DRIVING POSTS REGARDLESS OF WHETHER IT IS WITHIN THE STREET LINE OR ON PRIVATE PROPERTY. OBTAIN INFORMATION REGARDING THE EXISTENCE AND LOCATION OF ANY UNDERGROUND FACILITIES BY CALLING 811 OR VISITING WWW.CALL811.COM FOR STATE SPECIFIC INFORMATION AND PHONE NUMBERS.

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CES #2017206.00

ISSUE DATE

DATE	DESCRIPTION
MARCH 5, 2018	BID DOCUMENTS

REVISIONS

DATE	REFERENCE

KEY PLAN

0 20' 40' 80'
SCALE: 1" = 40'-0"
PROJECT TRUE

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DERBY HIGH SCHOOL ATHLETIC FACILITIES RENOVATION PROJECT

75 CHATFIELD ST
DERBY, CT 06418

PROJECT NO.: 17015.00 DRAWN BY: GRD

SITE UTILITY DEMOLITION PLAN

DRAWING NO.:
SUD.01

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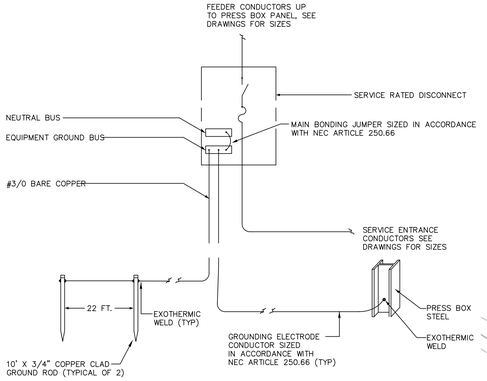
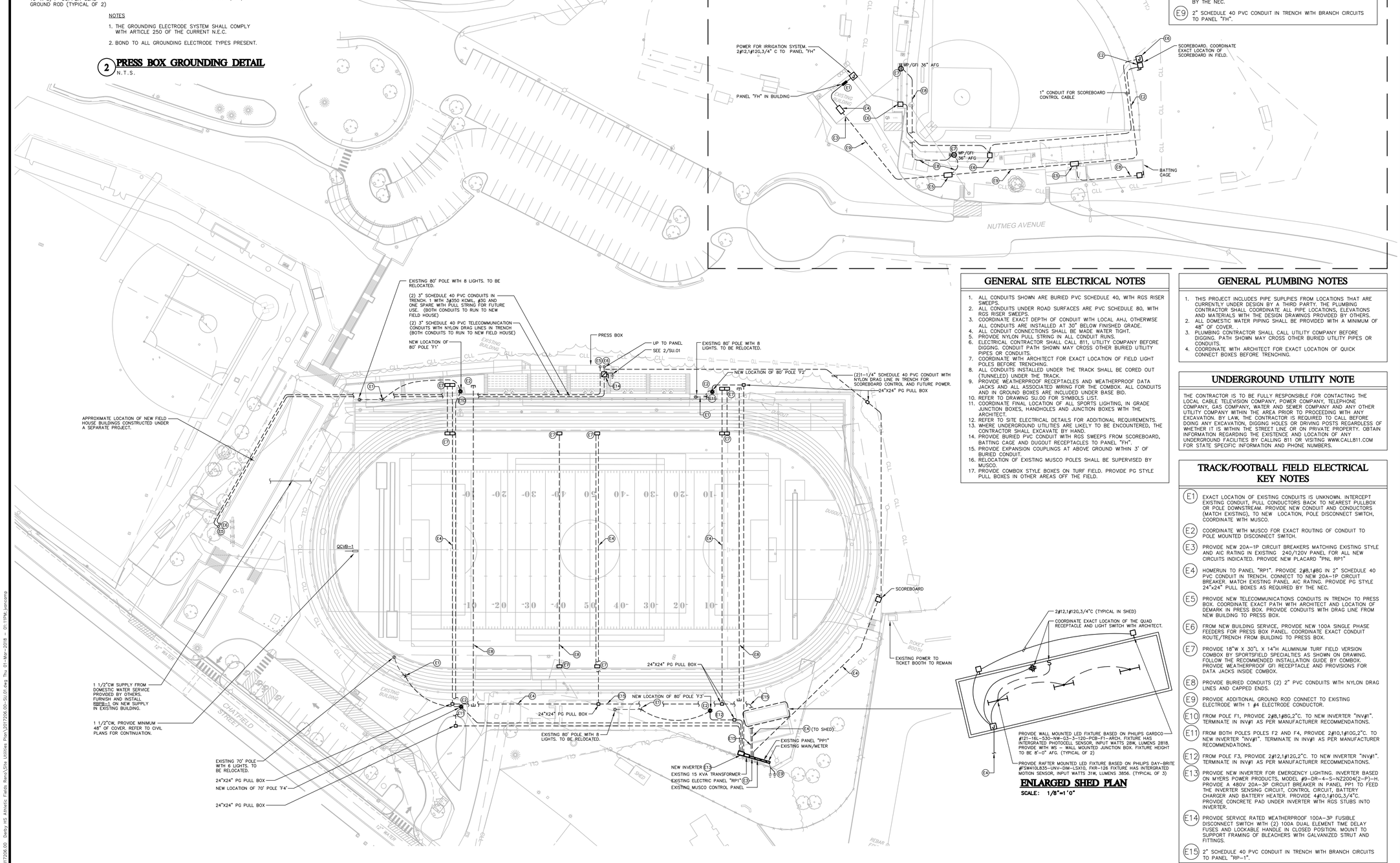


NOTES

1. THE GROUNDING ELECTRODE SYSTEM SHALL COMPLY WITH ARTICLE 250 OF THE CURRENT N.E.C.
2. BOND TO ALL GROUNDING ELECTRODE TYPES PRESENT.

2 PRESS BOX GROUNDING DETAIL

N.T.S.



1 SITE UTILITY PLAN

SCALE: 1"=40'-0"

ENLARGED SHED PLAN

SCALE: 1/8"=1'0"

BASEBALL FIELD ELECTRICAL KEY NOTES

E1 PROVIDE NEW 30 POLE 120/240 VOLT 100A, 14 KAIC, SINGLE PHASE PANEL WITH 100A-2P MAIN CIRCUIT BREAKER IN PLACE OF THE EXISTING PANEL. RE-CONNECT EXISTING BRANCH CIRCUITS TO NEW CIRCUIT BREAKERS THAT MATCH EXISTING CIRCUIT SIZE, STYLE AND AIC RATING. LABEL AS PANEL "FH". PROVIDE 4 NEW AND 4 SPARE 20A-1P CIRCUIT BEAKERS IN ADDITION TO EXISTING BRANCH CIRCUIT BREAKERS.

E2 HOMERUN TO PANEL "FH". PROVIDE 2#8,1#8G. IN 1-1/2" PVC CONDUIT IN TRENCH TO SCOREBOARD 30A-3P WEATHERPROOF DISCONNECT SWITCH. CONNECT TO NEW 20A-1P CIRCUIT BREAKER. PROVIDE EXPANSION COUPLING IN THE EXPOSED RGS CONDUIT CONNECTION TO DISCONNECT SWITCH. PROVIDE PG STYLE 24"x24" PULL BOXES AS REQUIRED BY THE NEC.

E3 COORDINATE WITH ARCHITECT FOR THE EXACT LOCATION TO ENTER FIELD HOUSE. ENTER THE FIELD HOUSE WITH 2" PULL LB. PROVIDE AN RGS EXPANSION COUPLING.

E4 PROVIDE 16x12 PULLBOX IN OVERHEAD OF FIELD HOUSE. COORDINATE WITH ARCHITECT FOR EXACT LOCATION.

E5 PROVIDE PG STYLE PULLBOX FOR EACH LOCATION, SIZED PER NEC. COORDINATE WITH ARCHITECT FOR EXACT LOCATION.

E6 SCOREBOARD CONTROLLER, TERMINATION OF DATA WIRING BY SCOREBOARD VENDOR. EXACT TYPE OF DATA CABLE BY SCOREBOARD VENDOR. E.C. TO PROVIDE CONDUIT WITH NYLON DRAG LINE. COORDINATE WITH ARCHITECT FOR EXACT LOCATION IN DUGOUT.

E7 PROVIDE RECEPTACLE INSIDE OF DUGOUT COORDINATE EXACT LOCATION WITH ARCHITECT.

E8 HOMERUN TO PANEL 'FH'. PROVIDE 2#10,1#10G IN 1" SCHEDULE 40 PVC CONDUIT IN TRENCH. CONNECT TO NEW 20A-1P CIRCUIT BREAKER. PROVIDE PG STYLE 24"x24" PULL BOXES AS REQUIRED BY THE NEC.

E9 2" SCHEDULE 40 PVC CONDUIT IN TRENCH WITH BRANCH CIRCUITS TO PANEL "FH".

GENERAL SITE ELECTRICAL NOTES

1. ALL CONDUITS SHOWN ARE BURIED PVC SCHEDULE 40, WITH RGS RISER SWEEPS.
2. ALL CONDUITS UNDER ROAD SURFACES ARE PVC SCHEDULE 80, WITH RGS RISER SWEEPS.
3. COORDINATE EXACT DEPTH OF CONDUIT WITH LOCAL AHJ, OTHERWISE ALL CONDUITS ARE INSTALLED AT 30" BELOW FINISHED GRADE.
4. ALL CONDUIT CONNECTIONS SHALL BE MADE WATER TIGHT.
5. PROVIDE NYLON PULL STRING IN ALL CONDUIT RUNS.
6. ELECTRICAL CONTRACTOR SHALL CALL 811, UTILITY COMPANY BEFORE DIGGING. CONDUIT PATH SHOWN MAY CROSS OTHER BURIED UTILITY PIPES OR CONDUITS.
7. COORDINATE WITH ARCHITECT FOR EXACT LOCATION OF FIELD LIGHT POLES BEFORE TRENCHING.
8. ALL CONDUITS INSTALLED UNDER THE TRACK SHALL BE CORED OUT (TUNNELED) UNDER THE TRACK.
9. PROVIDE WEATHERPROOF RECEPTACLES AND WEATHERPROOF DATA JACKS AND ALL ASSOCIATED WIRING FOR THE COMBOX. ALL CONDUITS AND IN GROUND BOXES ARE INCLUDED UNDER BASE BID.
10. REFER TO DRAWING SU.00 FOR SYMBOLS LIST.
11. COORDINATE FINAL LOCATION OF ALL SPORTS LIGHTING, IN GRADE JUNCTION BOXES, HANDHOLES AND JUNCTION BOXES WITH THE ARCHITECT.
12. REFER TO SITE ELECTRICAL DETAILS FOR ADDITIONAL REQUIREMENTS.
13. WHERE UNDERGROUND UTILITIES ARE LIKELY TO BE ENCOUNTERED, THE CONTRACTOR SHALL EXCAVATE BY HAND.
14. PROVIDE BURIED PVC CONDUIT WITH RGS SWEEPS FROM SCOREBOARD, BATTING CAGE AND DUGOUT RECEPTACLES TO PANEL "FH".
15. PROVIDE EXPANSION COUPLINGS AT ABOVE GROUND WITHIN 3' OF BURIED CONDUIT.
16. RELOCATION OF EXISTING MUSCO POLES SHALL BE SUPERVISED BY MUSCO.
17. PROVIDE COMBOX STYLE BOXES ON TURF FIELD. PROVIDE PG STYLE PULL BOXES IN OTHER AREAS OFF THE FIELD.

GENERAL PLUMBING NOTES

1. THIS PROJECT INCLUDES PIPE SUPLIPIES FROM LOCATIONS THAT ARE CURRENTLY UNDER DESIGN BY A THIRD PARTY. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL PIPE LOCATIONS, ELEVATIONS AND MATERIALS WITH THE DESIGN DRAWINGS PROVIDED BY OTHERS.
2. ALL DOMESTIC WATER PIPING SHALL BE PROVIDED WITH A MINIMUM OF 48" OF COVER.
3. PLUMBING CONTRACTOR SHALL CALL UTILITY COMPANY BEFORE DIGGING. PATH SHOWN MAY CROSS OTHER BURIED UTILITY PIPES OR CONDUITS.
4. COORDINATE WITH ARCHITECT FOR EXACT LOCATION OF QUICK CONNECT BOXES BEFORE TRENCHING.

UNDERGROUND UTILITY NOTE

THE CONTRACTOR IS TO BE FULLY RESPONSIBLE FOR CONTACTING THE LOCAL CABLE TELEVISION COMPANY, POWER COMPANY, TELEPHONE COMPANY, GAS COMPANY, WATER AND SEWER COMPANY AND ANY OTHER UTILITY COMPANY WITHIN THE AREA PRIOR TO PROCEEDING WITH ANY EXCAVATION. BY LAW, THE CONTRACTOR IS REQUIRED TO CALL BEFORE DOING ANY EXCAVATION, DIGGING HOLES OR DRIVING POSTS REGARDLESS OF WHETHER IT IS WITHIN THE STREET LINE OR ON PRIVATE PROPERTY. OBTAIN INFORMATION REGARDING THE EXISTENCE AND LOCATION OF ANY UNDERGROUND FACILITIES BY CALLING 811 OR VISITING WWW.CALL811.COM FOR STATE SPECIFIC INFORMATION AND PHONE NUMBERS.

TRACK/FOOTBALL FIELD ELECTRICAL KEY NOTES

E1 EXACT LOCATION OF EXISTING CONDUITS IS UNKNOWN. INTERCEPT EXISTING CONDUIT, PULL CONDUCTORS BACK TO NEAREST PULLBOX OR POLE DOWNSTREAM. PROVIDE NEW CONDUIT AND CONDUCTORS (MATCH EXISTING), TO NEW LOCATION, POLE DISCONNECT SWITCH, COORDINATE WITH MUSCO.

E2 COORDINATE WITH MUSCO FOR EXACT ROUTING OF CONDUIT TO POLE MOUNTED DISCONNECT SWITCH.

E3 PROVIDE NEW 20A-1P CIRCUIT BREAKERS MATCHING EXISTING STYLE AND AIC RATING IN EXISTING 240/120V PANEL FOR ALL NEW CIRCUITS INDICATED. PROVIDE NEW PLACARD "PNL RP1"

E4 HOMERUN TO PANEL "RP1". PROVIDE 2#8,1#8G IN 2" SCHEDULE 40 PVC CONDUIT IN TRENCH. CONNECT TO NEW 20A-1P CIRCUIT BREAKER. MATCH EXISTING PANEL AIC RATING. PROVIDE PG STYLE 24"x24" PULL BOXES AS REQUIRED BY THE NEC.

E5 PROVIDE NEW TELECOMMUNICATIONS CONDUITS IN TRENCH TO PRESS BOX. COORDINATE EXACT PATH WITH ARCHITECT AND LOCATION OF DEMARK IN PRESS BOX. PROVIDE CONDUITS WITH DRAG LINE FROM NEW BUILDING TO PRESS BOX.

E6 FROM NEW BUILDING SERVICE, PROVIDE NEW 100A SINGLE PHASE FEEDERS FOR PRESS BOX PANEL. COORDINATE EXACT CONDUIT ROUTE/TRENCH FROM BUILDING TO PRESS BOX.

E7 PROVIDE 18"W X 30"L X 14"H ALUMINUM TURF FIELD VERSION COMBOX BY SPORTSFIELD SPECIALTIES AS SHOWN ON DRAWING. FOLLOW THE RECOMMENDED INSTALLATION GUIDE BY COMBOX. PROVIDE WEATHERPROOF GFI RECEPTACLE AND PROVISIONS FOR DATA JACKS INSIDE COMBOX.

E8 PROVIDE BURIED CONDUITS (2) 2" PVC CONDUITS WITH NYLON DRAG LINES AND CAPPED ENDS.

E9 PROVIDE ADDITIONAL GROUND ROD CONNECT TO EXISTING ELECTRODE WITH 1 #4 ELECTRODE CONDUCTOR.

E10 FROM POLE F1, PROVIDE 2#8,1#8G,2"C. TO NEW INVERTER "INV#1". TERMINATE IN INV#1 AS PER MANUFACTURER RECOMMENDATIONS.

E11 FROM BOTH POLES POLES F2 AND F4, PROVIDE 2#10,1#10G,2"C. TO NEW INVERTER "INV#1". TERMINATE IN INV#1 AS PER MANUFACTURER RECOMMENDATIONS.

E12 FROM POLE F3, PROVIDE 2#12,1#12G,2"C. TO NEW INVERTER "INV#1". TERMINATE IN INV#1 AS PER MANUFACTURER RECOMMENDATIONS.

E13 PROVIDE NEW INVERTER FOR EMERGENCY LIGHTING. INVERTER BASED ON MYERS POWER PRODUCTS, MODEL #9-DR-4-S-NZZ004(2-P)-H. PROVIDE A 480V 20A-3P CIRCUIT BREAKER IN PANEL PP1 TO FEED THE INVERTER SENSING CIRCUIT, CONTROL CIRCUIT, BATTERY CHARGER AND BATTERY HEATER. PROVIDE 4#10,1#10G,3/4"C. PROVIDE CONCRETE PAD UNDER INVERTER WITH RGS STUBS INTO INVERTER.

E14 PROVIDE SERVICE RATED WEATHERPROOF 100A-3P FUSIBLE DISCONNECT SWITCH WITH (2) 100A DUAL ELEMENT TIME DELAY FUSES AND LOCKABLE HANDLE IN CLOSED POSITION. MOUNT TO SUPPORT FRAMING OF BLEACHERS WITH GALVANIZED STRUT AND FITTINGS.

E15 2" SCHEDULE 40 PVC CONDUIT IN TRENCH WITH BRANCH CIRCUITS TO PANEL "RP-1".

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CES #2017206.00

ISSUE DATE

DATE	DESCRIPTION
MARCH 5, 2018	BID DOCUMENTS

REVISIONS

DATE	REFERENCE

KEY PLAN

0 20' 40' 80'
SCALE: 1" = 40'-0"
PROJECT TRUE

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DERBY HIGH SCHOOL ATHLETIC FACILITIES RENOVATION PROJECT

75 CHATFIELD ST
DERBY, CT 06418

PROJECT NO.: 17015.00 DRAWN BY: GRD

SITE UTILITY PLAN

DRAWING NO.:
SU.01

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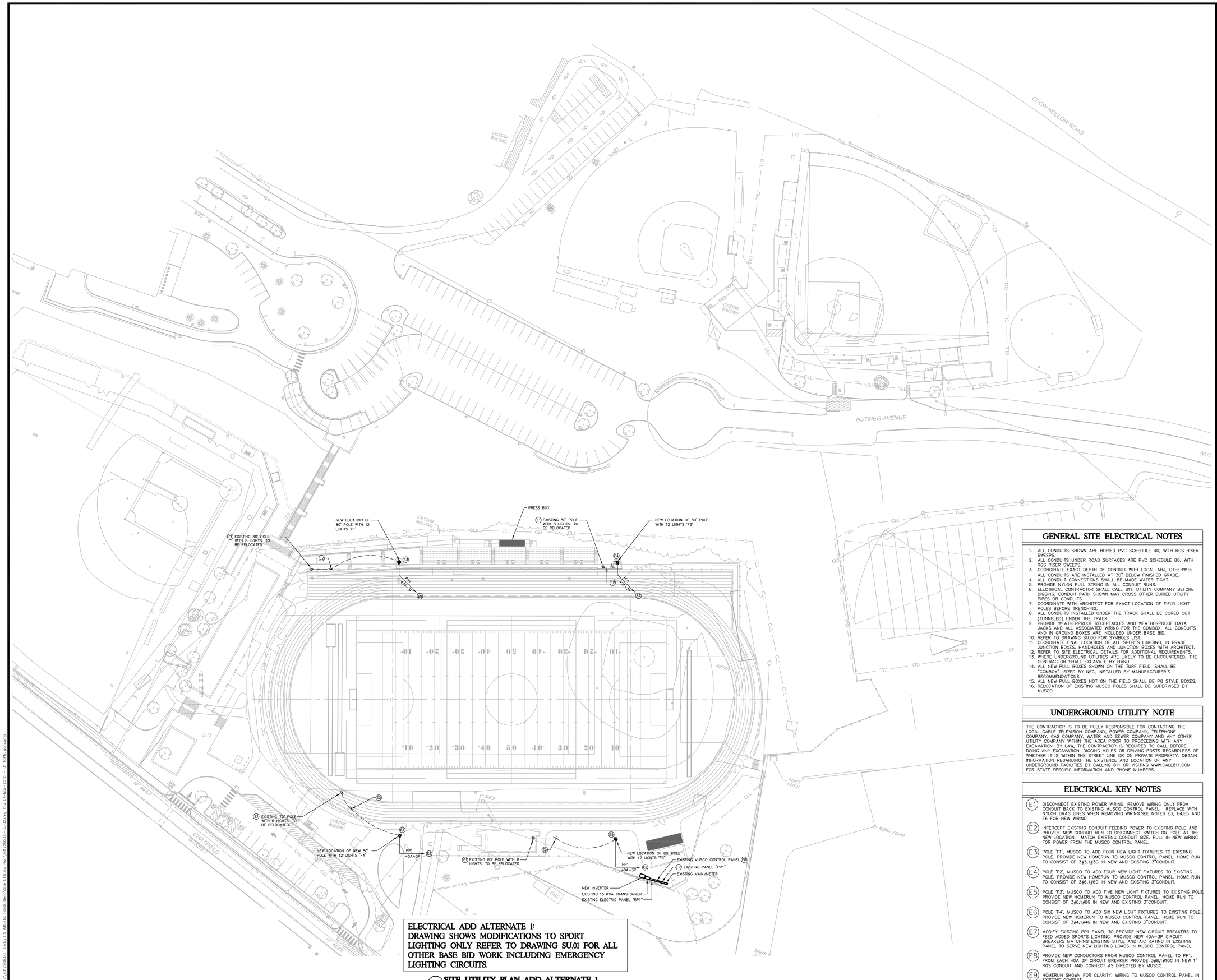

ELECTRICAL ADD ALTERNATE 1:
DRAWING SHOWS MODIFICATIONS TO SPORT LIGHTING ONLY REFER TO DRAWING SU.01 FOR ALL OTHER BASE BID WORK INCLUDING EMERGENCY LIGHTING CIRCUITS.

1 **SITE UTILITY PLAN ADD ALTERNATE 1**
SCALE: 1"=40'-0"

GENERAL SITE ELECTRICAL NOTES

1. ALL CONDUITS SHOWN ARE BURIED PVC SCHEDULE 40, WITH RGS RISER SWEEPS.
2. ALL CONDUITS UNDER ROAD SURFACES ARE PVC SCHEDULE 80, WITH RGS RISER SWEEPS.
3. COORDINATE EXACT DEPTH OF CONDUIT WITH LOCAL AHJ, OTHERWISE ALL CONDUITS ARE INSTALLED AT 30" BELOW FINISHED GRADE.
4. ALL CONDUIT CONNECTIONS SHALL BE MADE WATER TIGHT.
5. PROVIDE NYLON PULL STRING IN ALL CONDUIT RUNS.
6. ELECTRICAL CONTRACTOR SHALL CALL 811, UTILITY COMPANY BEFORE DIGGING. CONDUIT PATH SHOWN MAY CROSS OTHER BURIED UTILITY PIPES OR CONDUITS.
7. COORDINATE WITH ARCHITECT FOR EXACT LOCATION OF FIELD LIGHT POLES BEFORE TRENCHING.
8. ALL CONDUITS INSTALLED UNDER THE TRACK SHALL BE CORED OUT (TUNNELED) UNDER THE TRACK.
9. PROVIDE WEATHERPROOF RECEPTACLES AND WEATHERPROOF DATA JACKS AND ALL ASSOCIATED WIRING FOR THE COMBOX. ALL CONDUITS AND IN GROUND BOXES ARE INCLUDED UNDER BASE BID.
10. REFER TO DRAWING SU.00 FOR SYMBOLS LIST.
11. COORDINATE FINAL LOCATION OF ALL SPORTS LIGHTING, IN GRADE JUNCTION BOXES, HANDHOLES AND JUNCTION BOXES WITH ARCHITECT.
12. REFER TO SITE ELECTRICAL DETAILS FOR ADDITIONAL REQUIREMENTS.
13. WHERE UNDERGROUND UTILITIES ARE LIKELY TO BE ENCOUNTERED, THE CONTRACTOR SHALL EXCAVATE BY HAND.
14. ALL NEW PULL BOXES SHOWN ON THE TURF FIELD, SHALL BE "COMBOX". SIZED BY NEC, INSTALLED BY MANUFACTURER'S RECOMMENDATIONS.
15. ALL NEW PULL BOXES NOT ON THE FIELD SHALL BE PG STYLE BOXES.
16. RELOCATION OF EXISTING MUSCO POLES SHALL BE SUPERVISED BY MUSCO.

UNDERGROUND UTILITY NOTE

THE CONTRACTOR IS TO BE FULLY RESPONSIBLE FOR CONTACTING THE LOCAL CABLE TELEVISION COMPANY, POWER COMPANY, TELEPHONE COMPANY, GAS COMPANY, WATER AND SEWER COMPANY AND ANY OTHER UTILITY COMPANY WITHIN THE AREA PRIOR TO PROCEEDING WITH ANY EXCAVATION. BY LAW, THE CONTRACTOR IS REQUIRED TO CALL BEFORE DOING ANY EXCAVATION, DIGGING HOLES OR DRIVING POSTS REGARDLESS OF WHETHER IT IS WITHIN THE STREET LINE OR ON PRIVATE PROPERTY. OBTAIN INFORMATION REGARDING THE EXISTENCE AND LOCATION OF ANY UNDERGROUND FACILITIES BY CALLING 811 OR VISITING WWW.CALLB11.COM FOR STATE SPECIFIC INFORMATION AND PHONE NUMBERS.

ELECTRICAL KEY NOTES

- **E1** DISCONNECT EXISTING POWER WIRING. REMOVE WIRING ONLY FROM CONDUIT BACK TO EXISTING MUSCO CONTROL PANEL. REPLACE WITH NYLON DRAG LINES WHEN REMOVING WIRING.SEE NOTES E3, E4,E5 AND E6 FOR NEW WIRING.
- **E2** INTERCEPT EXISTING CONDUIT FEEDING POWER TO EXISTING POLE AND PROVIDE NEW CONDUIT RUN TO DISCONNECT SWITCH ON POLE AT THE NEW LOCATION. MATCH EXISTING CONDUIT SIZE. PULL IN NEW WIRING FOR POWER FROM THE MUSCO CONTROL PANEL.
- **E3** POLE "F1", MUSCO TO ADD FOUR NEW LIGHT FIXTURES TO EXISTING POLE. PROVIDE NEW HOMERUN TO MUSCO CONTROL PANEL. HOME RUN TO CONSIST OF 3#3,1#3G IN NEW AND EXISTING 3"CONDUIT.
- **E4** POLE "F2", MUSCO TO ADD FOUR NEW LIGHT FIXTURES TO EXISTING POLE. PROVIDE NEW HOMERUN TO MUSCO CONTROL PANEL. HOME RUN TO CONSIST OF 3#6,1#6G IN NEW AND EXISTING 3"CONDUIT.
- **E5** POLE "F3", MUSCO TO ADD FIVE NEW LIGHT FIXTURES TO EXISTING POLE. PROVIDE NEW HOMERUN TO MUSCO CONTROL PANEL. HOME RUN TO CONSIST OF 3#8,1#8G IN NEW AND EXISTING 3"CONDUIT.
- **E6** POLE "F4", MUSCO TO ADD SIX NEW LIGHT FIXTURES TO EXISTING POLE. PROVIDE NEW HOMERUN TO MUSCO CONTROL PANEL. HOME RUN TO CONSIST OF 3#4,1#4G IN NEW AND EXISTING 3"CONDUIT.
- **E7** MODIFY EXISTING PP1 PANEL TO PROVIDE NEW CIRCUIT BREAKERS TO FEED ADDED SPORTS LIGHTING. PROVIDE NEW 40A-3P CIRCUIT BREAKERS MATCHING EXISTING STYLE AND AIC RATING IN EXISTING PANEL TO SERVE NEW LIGHTING LOADS IN MUSCO CONTROL PANEL.
- **E8** PROVIDE NEW CONDUCTORS FROM MUSCO CONTROL PANEL TO PP1, FROM EACH 40A 3P CIRCUIT BREAKER PROVIDE 3#8,1#10G IN NEW 1" RGS CONDUIT AND CONNECT AS DIRECTED BY MUSCO.
- **E9** HOMERUN SHOWN FOR CLARITY. WIRING TO MUSCO CONTROL PANEL IN EXISTING CONDUIT.

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ISSUE DATE

DATE	DESCRIPTION
MARCH 5, 2018	BID DOCUMENTS

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PROJECT TRUE

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DERBY HIGH SCHOOL ATHLETIC FACILITIES RENOVATION PROJECT

75 CHATFIELD ST
DERBY, CT 06418

PROJECT NO.: 17015.00 DRAWN BY: GRD

SITE UTILITY PLAN ADD ALTERNATE 1

DRAWING NO.:
SU.02

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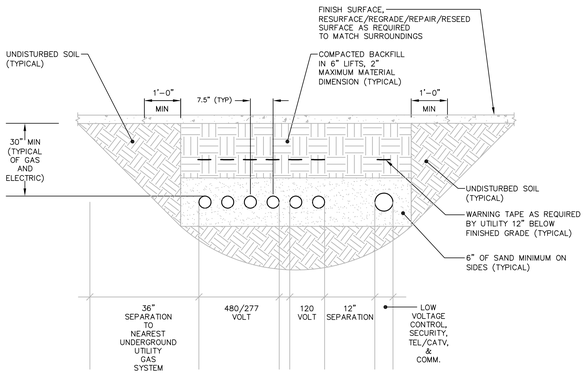
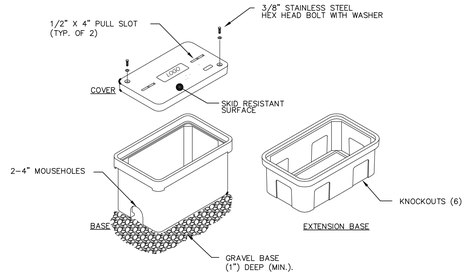


NOTES:

1. PROVIDE AND COORDINATE PULL BOXES AS REQUIRED.
2. ELECTRICAL CONDUITS SHALL BE SCHEDULE 40 PVC, EXCEPT WHERE CONDUITS PASS UNDER ROADS AND DRIVEWAYS, WHICH SHALL BE SCHEDULE 80 PVC.
3. ELECTRICAL CONTRACTOR TO REVIEW AND COORDINATE FINAL REQUIRED QUANTITY AND LOCATIONS OF PULLBOX'S WITH ALL TRADES.

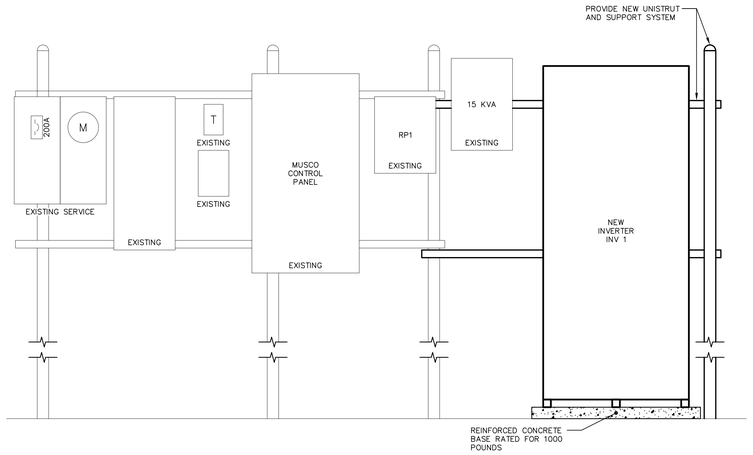
1 TYPICAL TRENCHING DETAIL
N.T.S.



NOTES:

1. PROVIDE STANDARD HANDHOLE. COVER COLOR SHALL BE AS COORDINATED WITH THE OWNER.
2. COVER, RING AND BOX SHALL BE MADE OF SAME MATERIAL.
3. PROVIDE IMPRINTED LOGO WITH 'ELECTRIC' OR 'COMMUNICATIONS' LOGO ON COVER.
4. PROVIDE EXTENSION BASES AND GRADE ADJUSTABLE EXTENSIONS TO SET FLUSH WITH GRADE AND TO SET AT DEPTH TO ALLOW CONDUITS TO ENTER THE BASE HORIZONTALLY.
5. PITCH CONDUITS AWAY FROM HANDHOLE.
6. REFER TO DRAWINGS FOR SIZES.
7. PROVIDE TIER 22 DESIGN FOR ALL HANDHOLES LOCATED IN PAVED AREAS OR WHERE SUBJECT TO VEHICULAR TRAFFIC. TIER 15 DESIGN ELSEWHERE.

2 PG STYLE POLYMER CONCRETE (STACKABLE) HANDHOLE ASSEMBLY DETAIL
N.T.S.



NOTES:

1. ELECTRICAL CONTRACTOR TO PROVIDE ALL NECESSARY UNISTRUT, UNISTRUT FITTINGS AND HARDWARE TO MOUNT NEW EQUIPMENT

3 EQUIPMENT LINE-UP DETAIL
N.T.S.

BASE BID LIGHTING SYSTEM

POLE / FIXTURE SUMMARY

POLE ID	POLE HEIGHT	MOUNTING HEIGHT	FIXTURE QTY	LUMINAIRE TYPE	LOAD	GROUP
F1	80'	80'	8	METAL HALIDE 1500W	13.60 KW	A
F2	80'	80'	8	METAL HALIDE 1500W	13.60 KW	A
F3	80'	80'	7	METAL HALIDE 1500W	11.90 KW	A
F4	70'	70'	6	METAL HALIDE 1500W	10.20 KW	A
TOTAL			29		49.30 KW	A

EMERGENCY LIGHTS / POLE / FIXTURE SUMMARY

POLE ID	POLE HEIGHT	MOUNTING HEIGHT	FIXTURE QTY	LUMINAIRE TYPE	LOAD	GROUP
F1	80'	40'	1	LED 400W	400W	
F2	80'	40'	1	LED 400W	400W	
F3	80'	40'	1	LED 400W	400W	
F4	70'	40'	1	LED 400W	400W	
TOTAL			4	1.600 KW	1.600KW	

GROUP SUMMARY

GROUP	DESCRIPTION	AVG LOAD	MAX LOAD	FIXTURE QTY
A	FOOTBALL/SOCCER/TRACK	45.2 KW	49.3 KW	29
	EMERGENCY EGRESS	1.6 KW	1.6 KW	4

LIGHT LEVEL SUMMARY

CALCULATION GRID SUMMARY

GRID NAME	CALCULATION METRIC	ILLUMINATION				GROUPS	FIXTURE QTY
		AVE	MIN	MAX	MAX/MIN		
FOOTBALL	HORIZONTAL ILLUMINANCE	29.3	24	39	1.62	A	29
SOCCER	HORIZONTAL ILLUMINANCE	29.3	24	39	1.62	A	29
TRACK	HORIZONTAL ILLUMINANCE	9.93	1	24	19.00	A	29
EM EGRESS LTG							
HOME BLEACHERS	HORIZONTAL ILLUMINANCE	4.72	3.0	7.0	2.3		2
VISITOR BLEACHERS	HORIZONTAL ILLUMINANCE	3.19	3.0	4.0	1.33		2

ALTERNATE 1 LIGHTING SYSTEM

POLE / FIXTURE SUMMARY

POLE ID	POLE HEIGHT	MOUNTING HEIGHT	FIXTURE QTY	LUMINAIRE TYPE	LOAD	GROUP
F1	80'	80'	12	METAL HALIDE 1500W	18.72 KW	A
F2	80'	80'	12	METAL HALIDE 1500W	18.72 KW	A
F3	80'	80'	12	METAL HALIDE 1500W	18.72 KW	A
F4	80'	80'	12	METAL HALIDE 1500W	18.72 KW	A
TOTAL			48		75.07 KW	A

EMERGENCY LIGHTS / POLE / FIXTURE SUMMARY

POLE ID	POLE HEIGHT	MOUNTING HEIGHT	FIXTURE QTY	LUMINAIRE TYPE	LOAD	GROUP
F1	80'	40'	1	LED 400W	400W	
F2	80'	40'	1	LED 400W	400W	
F3	80'	40'	1	LED 400W	400W	
F4	80'	40'	1	LED 400W	400W	
TOTAL			4		1.600KW	

GROUP SUMMARY

GROUP	DESCRIPTION	AVG LOAD	MAX LOAD	FIXTURE QTY
A	FOOTBALL/SOCCER/TRACK	75.07 KW	81.6 KW	29
	EMERGENCY EGRESS	1.6 KW	1.6 KW	4

LIGHT LEVEL SUMMARY

CALCULATION GRID SUMMARY

GRID NAME	CALCULATION METRIC	ILLUMINATION				GROUPS	FIXTURE QTY
		AVE	MIN	MAX	MAX/MIN		
FOOTBALL	HORIZONTAL ILLUMINANCE	48.7	41	59	1.44	A	48
SOCCER	HORIZONTAL ILLUMINANCE	48.7	40	61	1.51	A	48
TRACK	HORIZONTAL ILLUMINANCE	15.6	2	35	14.39	A	48
EM EGRESS LTG							
HOME BLEACHERS	HORIZONTAL ILLUMINANCE	4.72	3.0	7.0	2.3		2
VISITORS BLEACHERS	HORIZONTAL ILLUMINANCE	3.19	3.0	4.0	1.33		2

FIXTURE SCHEDULE

TYPE	SOURCE	WATTAGE	LUMENS
1. METAL HALIDE	MH 4200K – 70 CRI	1500 W	134,000
2. TLC-LED-400	LED 5700K – 75 CRI	400 W	38,600

NOTES
1. TYPICAL EXISTING MUSCO SPORTS LIGHTING FIXTURE.
2. EMERGENCY LIGHT FIXTURES.

ELECTRICAL ABBREVIATIONS

A/AMP	AMPERE	JB	JUNCTION BOX
AC	ALTERNATING CURRENT	KCMIL	THOUSAND CIRCULAR MILS
ACU	AIR CONDITIONING UNIT	KVA	KILOVOLT AMPERE
AFF	ABOVE FINISHED FLOOR	KW	KILOWATT
AFG	ABOVE FINISHED GRADE	MAX	MAXIMUM
AHU	AIR HANDLING UNIT	MAU	MAKE UP AIR UNIT
AIC	AMPS INTERRUPTING CURRENT	MCC	MOTOR CONTROL CENTER
ATS	AUTOMATIC TRANSFER SWITCH	MCCB	MOLDED CASE CIRCUIT BREAKER
AWG	AMERICAN WIRE GAUGE	MH	METAL HALIDE
BSMT	BASEMENT	MIN	MINIMUM
C	CONDUIT	MLO	MAIN LUGS ONLY
CATV	CABLE TELEVISION	NA	NOT APPLICABLE
C/B	CIRCUIT BREAKER	NEC	NATIONAL ELECTRIC CODE
CKT	CIRCUIT	NIC	NOT IN CONTRACT
COMP	COMPRESSOR	NL	NEW LOCATION OF EXISTING RELOCATED
CP	CONDENSATE PUMP	NR	NEW TO REPLACE EXISTING
CT	CURRENT TRANSFORMER	NTS	NOT TO SCALE
CU	CONDENSING UNIT, COPPER	P	POLE
CUH	CABINET UNIT HEATER	PE	PRIMARY ELECTRICAL SERVICE
°	DEGREE	PF	POWER FACTOR
DIA/ø	DIAMETER	PH/ø	PHASE
DN	DOWN	PNL	PANEL
DWG	DRAWING	PVC	POLYVINYL CHLORIDE CONDUIT
E	EXISTING TO REMAIN	RE	REMOVE EXISTING
EF	EXHAUST FAN	RGS	RIGID GALVANIZED STEEL CONDUIT
ELEC	ELECTRICAL	RL	RELOCATE EXISTING
ELEV	ELEVATOR	RM	ROOM
EMT	ELECTRIC METALLIC TUBING	RR	REMOVE AND REPLACE ON NEW SURFACE
ETR	EXISTING TO REMAIN	RTU	ROOFTOP UNIT
EUH	ELECTRIC UNIT HEATER	SE	SECONDARY ELECTRICAL SERVICE
EWC	ELECTRIC WATER COOLER	SPEC	SPECIFICATION
EWH	ELECTRIC WATER HEATER	SWBD	SWITCHBOARD
F	FAHRENHEIT	TELE	TELECOMMUNICATIONS/TELEPHONE
FA	FIRE ALARM	TV	TELEVISION
FACP	FIRE ALARM CONTROL PANEL	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
FC	FOOT CANDLE	T/TX	TRANSFORMER
FCU	FAN COIL UNIT	TYP	TYPICAL
G	GROUND	UH	UNIT HEATER
GFI	GROUND FAULT INTERRUPTER	V	VOLTS
HP	HORSE POWER	VA	VOLT AMPERE
HPS	HIGH PRESSURE SODIUM	VAC	VOLTS ALTERNATING CURRENT
HR	HOUR	W	WATT, WIRE
HZ	HERTZ	WG	WIRE GUARD
IG	ISOLATED GROUND	WP	WEATHERPROOF
IN	INCHES		

ELECTRICAL SYMBOL LIST

SYMBOL	DESCRIPTION
T	TRANSFORMER
	STACKABLE HANDHOLE, SEE DRAWING FOR TYPES
	UNDERGROUND CONDUIT OR DUCTBANK, SEE DRAWING FOR CONDUIT REQUIREMENTS
	CONDUIT CAP
	POLE MOUNTED SITE LIGHTING FIXTURE (POLE BASE ONLY REQUIRED BY CONTRACT FOR BASE BID) AND PROVIDE NEW 80 FOOT MUSCO POLE FOR ADD ALTERNATE #1 PLAN.
J	JUNCTION BOX
	ELECTRICAL MANHOLE, SEE DRAWINGS FOR TYPES
	SURFACE MOUNTED PANELBOARD
	RECESSED PANELBOARD
	HOMERUN TO PANELBOARD SEE DRAWING FOR DETAILS.
	BRANCH CIRCUIT WIRING, SWITCHED
GFI	DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTION
S	SINGLE POLE TOGGLE SWITCH
	LED STRIP LIGHT FIXTURE

PLUMBING SPECIALTIES SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NUMBER	DESCRIPTION	COMPONENTS AND ACCESSORIES	MOUNTING HEIGHT	REMARKS
QCVB-1	SPORTSFIELD SPECIALTIES MODEL #TCITQCV (TC-3700-QCV-PLUS)	QUICK CONNECT VALVE ENCLOSURE BOX FOR SYNTHETIC INFILL TURF. 18"Wx15"Lx18"D	FURNISH WITH 44RC QUICK CONNECT WATER VALVE, LEVELING BRICK AND BOLT, 2"OD PIPE CLAMPS	RECESSED INTO TURF	# 1
VB-1	WATTS MODEL # 188A	VACUUM BREAKER	– –	INSTALL IN VALVE BOX	# 1

REMARKS:

1. INSTALL PER MANUFACTURERS RECOMMENDED INSTALLATION INSTRUCTIONS.
2. PROVIDE AN AIR GAP FITTING ON THE DRAIN LINE. MOUNT AT A SUFFICIENT HEIGHT TO ALLOW PROPER DRAINAGE.
3. REFER TO PLAN FOR SIZES.

PLUMBING SYMBOLS

SYMBOL	DESCRIPTION
HW	HOT WATER
CW	COLD WATER
W	WASTE ABOVE GRADE
W	WASTE BELOW GRADE
ST	STORM PIPING
	90° ELBOW DOWN
	90° ELBOW UP
	END CAP
1	FIXTURE TYPE
	GATE VALVE
	DIRECTION OF FLOW IN PIPE

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SCALE: 1" = 40'-0"
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