JONES
ASSOCIATES
Foresters, Surveyors and
Environmental Consultants

March 7th, 2023

City of Auburn Planning Board
60 Court Street
Auburn, Maine 04210

Dear City of Auburn Planning Board Members,

On behalf of Auburn Suburban Baseball and Softball, Jones Associates, Inc. is pleased to submit information regarding their Development Review Application for their proposed project located at Stevens Mill and Hotel Road in Auburn, Maine. This information is being submitted by request of the Planning, Permitting, and Code Department, as outlined in an email sent on February 21st, 2023, and during a remote meeting held on February 27th, 2023.

Details regarding no parking signs are now shown along Stevens Mill Road to Garfield Road. The shoulder of Stevens Mill Road has also been widened by approximately 10 feet, specifically between the road and under drained soil filter (UGF) #1, which is located between the two little league fields. A crash gate between Stevens Mill Road and the easternmost little league field has also been added to the plans.

The location of a future footpath has been added to the plans, connecting the easternmost little league field to Hotel Road. This future footpath may be subject to additional permitting.

The access road throughout the site has been widened from 18' to 20'. This increase in impervious area required UGF #2 and #4 to be expanded. The revised stormwater report and plans have been updated accordingly and attached to this letter.

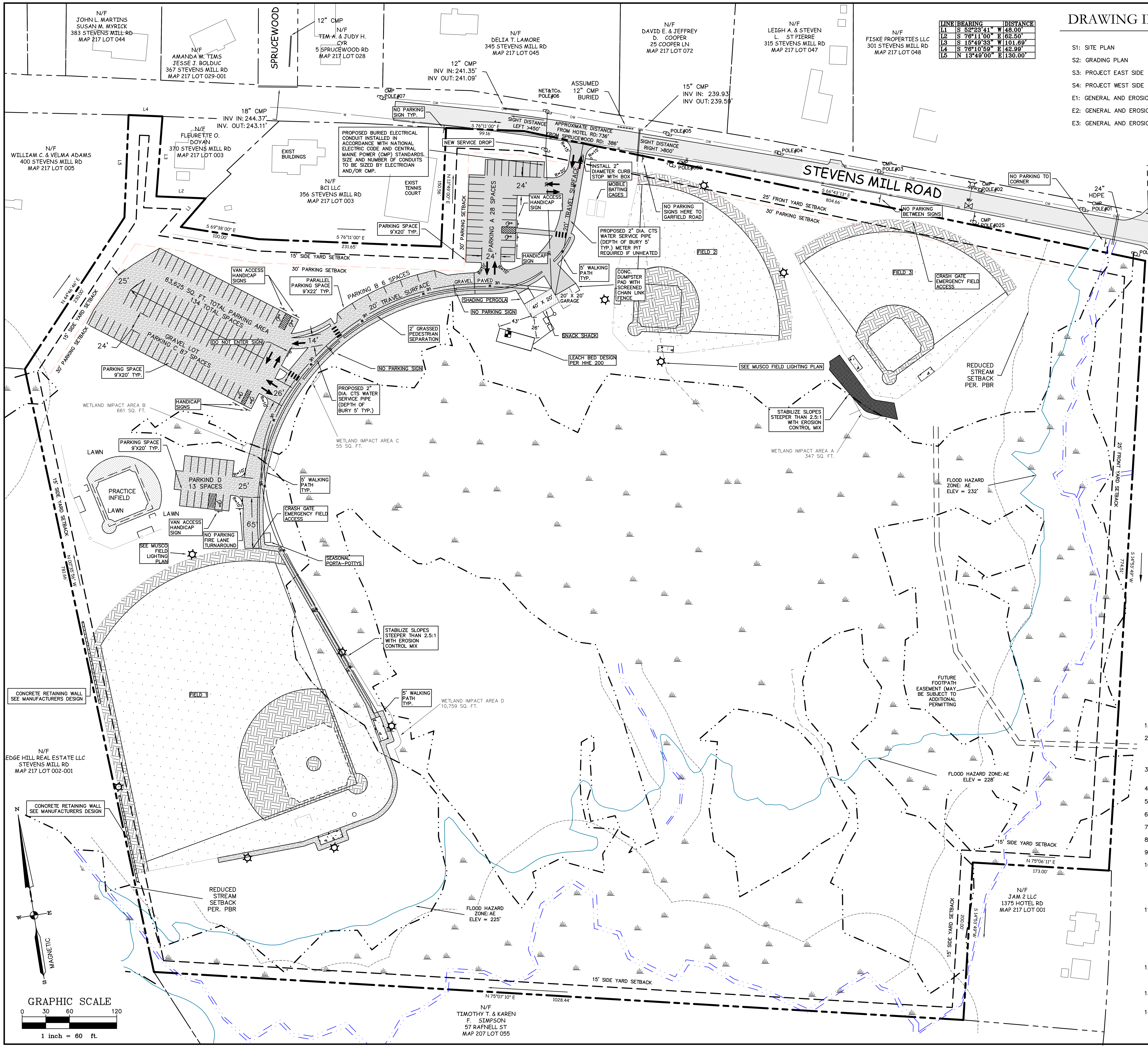
Notes on site distance have been adjusted to reflect site distance for a 45 miles per hour (mph) zone. The site distance was remeasured by Bill Bray of Barton & Loguidice on March 3rd, 2023.

280 Poland Spring Road
Auburn, Maine 04210
(207) 241-0235
Email: ejones@jonesai.com
Website: www.jonesai.com

If you have any questions or need additional information, please do not hesitate to contact our office. We look forward to discussing this project with the Planning Board during the March 14th meeting.

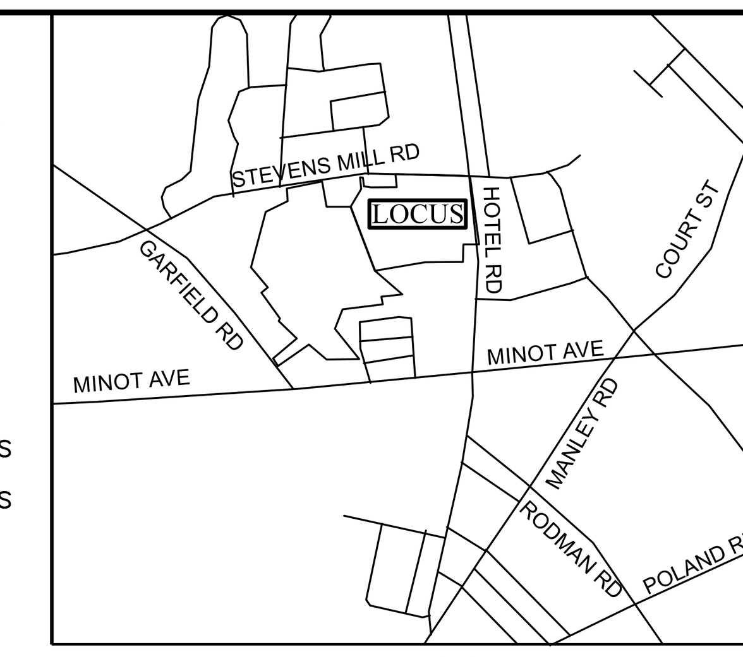
Sincerely,

Evan Jones

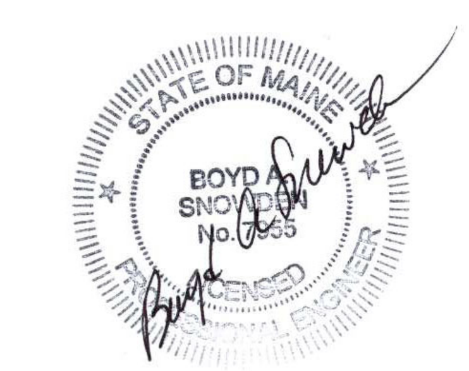


LINE	BEARING	DISTANCE
L1	S 52°23'41" W	48.00'
L2	S 76°11'00" E	62.50'
L3	S 15°49'33" W	101.69'
L4	S 76°10'59" E	42.99'
L5	N 13°49'00" E	130.00'

DRAWING INDEX



LOCATION PLAN



APPROVAL

APPROVED BY THE TOWN OF AUBURN PLANNING BOARD

CHAIRMAN ______ DATE ______

LEGEND

SUBJECT BOUNDARY LINE
ABUTTER OR RIGHT OF WAY LINE
STONE WALL
STREAM
STREAM SETBACK
WETLANDS
N/F — NOW OR FORMERLY
000/000 — DEED BOOK PAGE REFERENCE
000-000 — TAX MAP AND LOT NUMBER
UTILITY POLE
SEWER MANHOLE
DRAIN MANHOLE
CATCH BASINS
WATER SHUTOFF
WATER VALVE
WELL
GAS VALVE
HYDRANT
LIGHT POST
FENCE – BARBED WIRE
FENCE – CHAIN LINK
SETBACK
PARKING SETBACK
OVERHEAD WIRES
FEMA FLOOD ELEVATION
PROPOSED WATERLINE
PROPOSED UNDERGROUND ELECTRIC
PROPOSED GRAVEL
PROPOSED PAVEMENT
PROPOSED ARTIFICIAL FIELD "DIRT"
PROPOSED ARTIFICIAL FIELD "GRASS"
PROPOSED ARTIFICIAL FIELD "GRASS"

NOTES:

1. RECORD OWNER: AUBURN SUBURBAN BASEBALL AND SOFTBALL
2. PARCEL DEED REFERENCE: SEE DEED FROM HELEN R. & ROBERT E. FOSS TO AUBURN SUBURBAN BASEBALL AND SOFTBALL DATED JANUARY 2, 2020, RECORDED AT THE ANDROSCOGGIN COUNTY REGISTRY OF DEEDS IN BOOK 10273, PAGE 149.
3. ALL BOOK AND PAGE REFERENCES REFER TO THE ANDROSCOGGIN COUNTY REGISTRY OF DEEDS.
4. PARCEL TAX MAP REFERENCE: CITY OF AUBURN, MAP 217, LOT 2
5. ZONING OF PROPERTY: SR (SUBURBAN–RESIDENTIAL)
6. TOTAL AREA OF PARCEL 29.83 ACRES.
7. ALL BEARINGS ARE REFERENCED TO MAGNETIC NORTH PER PLAN REF. A.
8. ELEVATIONS SHOWN ARE NAVD88 BY OPUS SOLUTION.
9. EXTERIOR BOUNDARY BASED ON PLAN REF. A.
10. WETLAND BOUNDARIES WERE IDENTIFIED AND DELINEATED IN JULY 2007 BY JONES ASSOCIATES INC. ACCORDING TO U.S. ARMY CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL (1987) AND REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION. A DELINEATION REVIEW WAS CONDUCTED BY JONES ASSOCIATES INC. IN APRIL 2018.
11. IN JULY 2007 WETLAND FLAGS WERE LOCATED USING TRIMBLE GLOBAL POSITIONING SYSTEM (GPS) TECHNOLOGY WITH EXPECTED AVERAGE ACCURACY OF SUB–METER. THIS METHOD IS RECOGNIZED BY BOTH STATE AND FEDERAL AGENCIES. HOWEVER, JONES ASSOCIATES INC RECOMMENDS THAT THE WETLAND BOUNDARY BE SURVEYED USING A MORE PRECISE METHOD IF ANY FILL OR REGULATED ACTIVITIES ARE TO BE PERFORMED WITHIN 20 FEET OF THE GPS LOCATED WETLAND. WETLAND FLAGS WERE REMARKED WHERE NEEDED IN APRIL 2018.
12. POSTED SPEED LIMIT ON STEVENS MILL ROAD 25 MPH. SIGHT DISTANCE AS MEASURED BY BARTON & LOGUIDICE BY METHOD OF MEASURING WHEEL. RECOMMEND REMOVAL OF VEGETATION 15' FROM EDGE OF PAVEMENT.
13. SEPTIC DESIGN BY MICHAEL DEYLING LICENSE SITE EVALUATOR #345 DATED SEPTEMBER 1, 2022.
14. PLAN REFERENCES:
    A.) PROPERTY PLAN AND TOPOGRAPHIC PLAN OF EXISTING CONDITIONS, HOTEL, GARFIELD & STEVENS MILL ROADS, AUBURN, MAINE PREPARED FOR ROBERT FOSS PREPARED BY ARCC LAND SURVEYING INC DATED JUNE 11, 2007

REVISIONS

NO.	DATE	DESCRIPTION	BY
1	2/9/23	REVISED PARKING D LOCATION	EJ
2	3/2/23	REV. SIGHT DISTANCE, ROAD WIDTH NO PARKING SIGNS AND FUTURE FOOT PATH	EJ

Androscoggin, ss. Registry of Deeds
Registrar
Received ______ at ___ h. ___ m. ___ M
Recorded in Plan Book ______ Page ______
Attest ______

PROJECT NAME:
SITE PLAN
AUBURN SUBURBAN BASEBALL & SOFTBALL
STEVENS MILL ROAD
AUBURN, MAINE

PREPARED BY:

JONES ASSOCIATES INC.
Foresters, Surveyors And Environmental Consultants
280 POLAND SPRING ROAD, AUBURN, MAINE 04210
(207) 241-0235

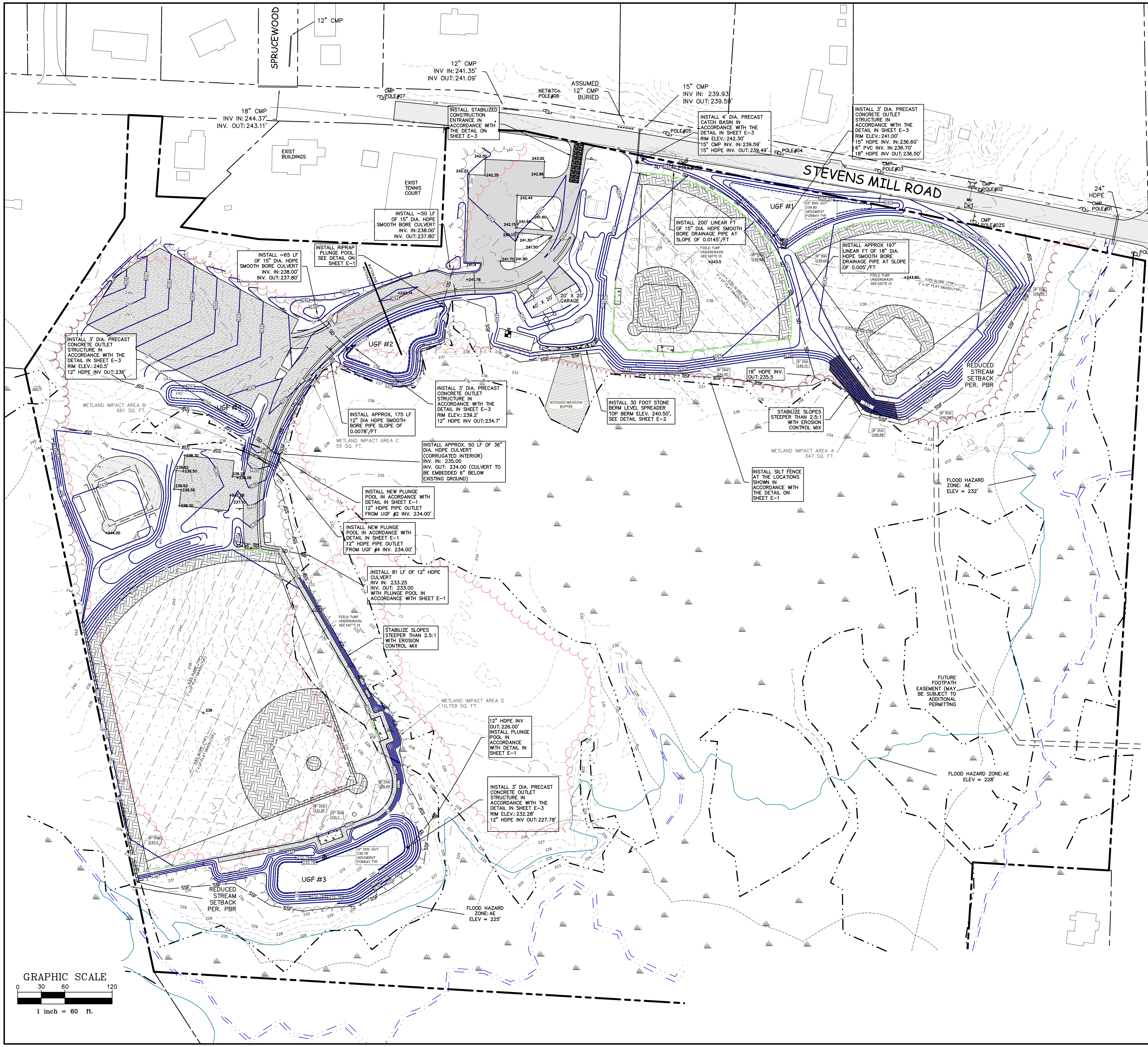
PREPARED FOR:
AUBURN SUBURBAN BASEBALL & SOFTBALL
PO BOX 1615
AUBURN, MAINE

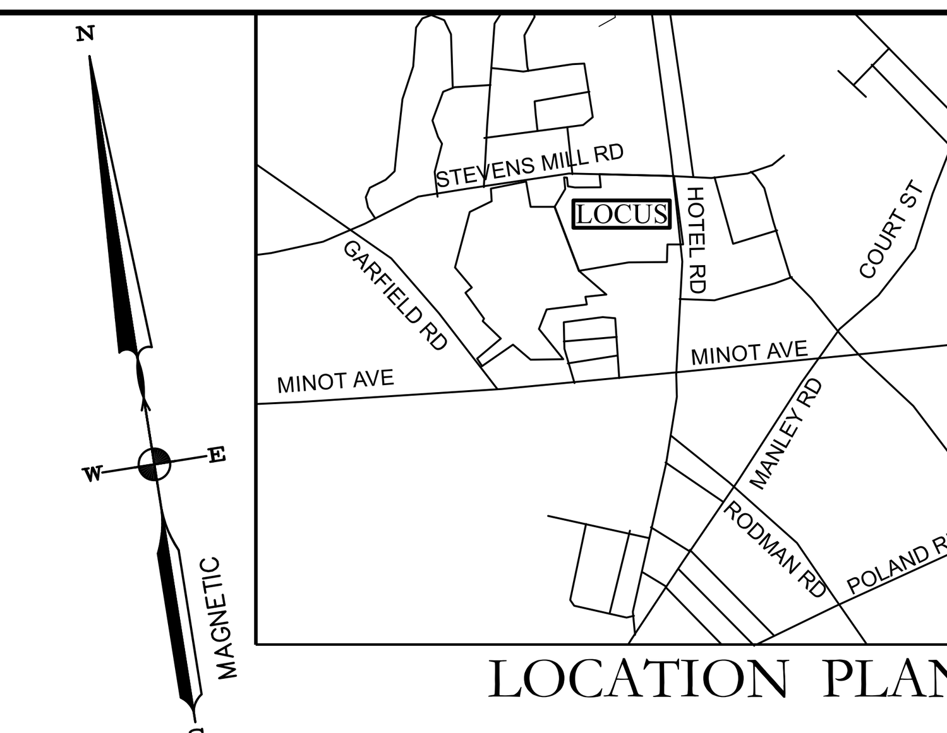
SHEET: S-1

PLAN DATE: FEBRUARY 8, 2023

SCALE: 1"=60'

PROJ. #:21-011AU





LOCATION PLAN

LEGEND

- SUBJECT BOUNDARY LINE
- ABUTTER OR RIGHT OF WAY LINE
- STONE WALL
- STREAM
- WETLANDS
- N/F — NOW OR FORMERLY
- 000/000 — DEED BOOK PAGE REFERENCE
- 000-000 — TAX MAP AND LOT NUMBER
- DECIDUOUS / CONIFEROUS TREE
- MF — GRANITE MONUMENT FOUND
- IPF/IRF/RBF — IRON PIPE/ROD/REBAR FOUND
- DHF — DRILL HOLE FOUND
- CRBS — 5/8" REBAR W/ CAP TO BE SET
- UTILITY POLE
- SEWER MANHOLE
- DRAIN MANHOLE
- CATCH BASINS
- WATER SHUTOFF
- WV — WATER VALVE
- WELL
- GV — GAS VALVE
- HYDRANT
- LIGHT POST
- FENCE – BARBED WIRE
- FENCE – CHAIN LINK
- SETBACK
- OW — OVERHEAD WIRES
- 240 — EXISTING CONTOURS
- 240 — PROPOSED CONTOURS
- SSF — DOUBLE EROSION CONTROL
- PROPOSED TREELINE
- EXISTING TREELINE

NOTES:

1. RECORD OWNER: AUBURN SUBURBAN BASEBALL AND SOFTBALL
2. PARCEL DEED REFERENCE: SEE DEED FROM HELEN R. & ROBERT E. FOSS TO AUBURN SUBURBAN BASEBALL AND SOFTBALL DATED JANUARY 2, 2020, RECORDED AT THE ANDROSCOGGIN COUNTY REGISTRY OF DEEDS IN BOOK 10273, PAGE 149.
3. ALL BOOK AND PAGE REFERENCES REFER TO THE ANDROSCOGGIN COUNTY REGISTRY OF DEEDS.
4. PARCEL TAX MAP REFERENCE: CITY OF AUBURN, MAP 217, LOT 2
5. ZONING OF PROPERTY: SR (SUBURBAN–RESIDENTIAL)
6. TOTAL AREA OF PARCEL 29.83 ACRES.
7. ALL BEARINGS ARE REFERENCED TO MAGNETIC NORTH PER PLAN REF. A.
8. ELEVATIONS SHOWN ARE NAVD88 BY OPUS SOLUTION.
9. EXTERIOR BOUNDARY BASED ON PLAN REF. A.
10. WETLAND BOUNDARIES WERE IDENTIFIED AND DELINEATED IN JULY 2007 BY JONES ASSOCIATES INC. ACCORDING TO U.S. ARMY CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL (1987) AND REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION. A DELINEATION REVIEW WAS CONDUCTED BY JONES ASSOCIATES INC. IN APRIL 2018.
11. IN JULY 2007 WETLAND FLAGS WERE LOCATED USING TRIMBLE GLOBAL POSITIONING SYSTEM (GPS) TECHNOLOGY WITH EXPECTED AVERAGE ACCURACY OF SUB–METER. THIS METHOD IS RECOGNIZED BY BOTH STATE AND FEDERAL AGENCIES. HOWEVER, JONES ASSOCIATES INC RECOMMENDS THAT THE WETLAND BOUNDARY BE SURVEYED USING A MORE PRECISE METHOD IF ANY FILL OR REGULATED ACTIVITIES ARE TO BE PERFORMED WITHIN 20 FEET OF THE GPS LOCATED WETLAND. WETLAND FLAGS WERE REMARKED WHERE NEEDED IN APRIL 2018.
12. PROPOSED PARKING AREA ADHERES TO STANDARDS SET FOR IN CITY OF AUBURN TOWN CODE. PARKING SPACES ARE NINE FEET WIDE AND EIGHTEEN FEET IN LENGTH AND INTERNAL TRAVEL AISLES ARE TWENTY FOUR FEET WIDE.
13. ARTIFICIAL FIELD SURFACES AND UNDER FIELD DRAINAGE DETAILS SHOWN ARE FOR "FIELDTURF" ARTIFICIAL FIELD SURFACES, "FIELDTURF" ARTIFICIAL FIELD SURFACES AND UNDER FIELD DRAINAGE SYSTEMS AS SHOWN SHALL BE INSTALLED BY FIELDTURF OR THEIR APPROVED SUBCONTRACTOR. UNLESS AND ALTERNATIVE IS APPROVED BY THE ENGINEER.
14. PLAN REFERENCES:

A.) PROPERTY PLAN AND TOPOGRAPHIC PLAN OF EXISTING CONDITIONS, HOTEL, GARFIELD & STEVENS MILL ROADS, AUBURN, MAINE PREPARED FOR ROBERT FOSS PREPARED BY ARCC LAND SURVEYING INC DATED JUNE 11, 2007

STATE OF MAINE — BOYD D. SNOWDEN — NO. 12... — LICENSED PROFESSIONAL ENGINEER

REVISIONS

NO.	DATE	DESCRIPTION	BY
1	2/9/23	REVISED PARKING D LOCATION	EJ
2	3/2/23	REV. SIGHT DISTANCE, ROAD WIDTH NO PARKING SIGNS AND FUTURE FOOT PATH	EJ

PROJECT NAME:

GRADING/UTILITIES AUBURN SUBURBAN BASEBALL & SOFTBALL

STEVENS MILL ROAD
AUBURN, MAINE

PREPARED BY:
JONES ASSOCIATES INC.
Foresters, Surveyors and Environmental Consultants
280 POLAND SPRING ROAD, AUBURN, MAINE 04210
(207) 241-0235

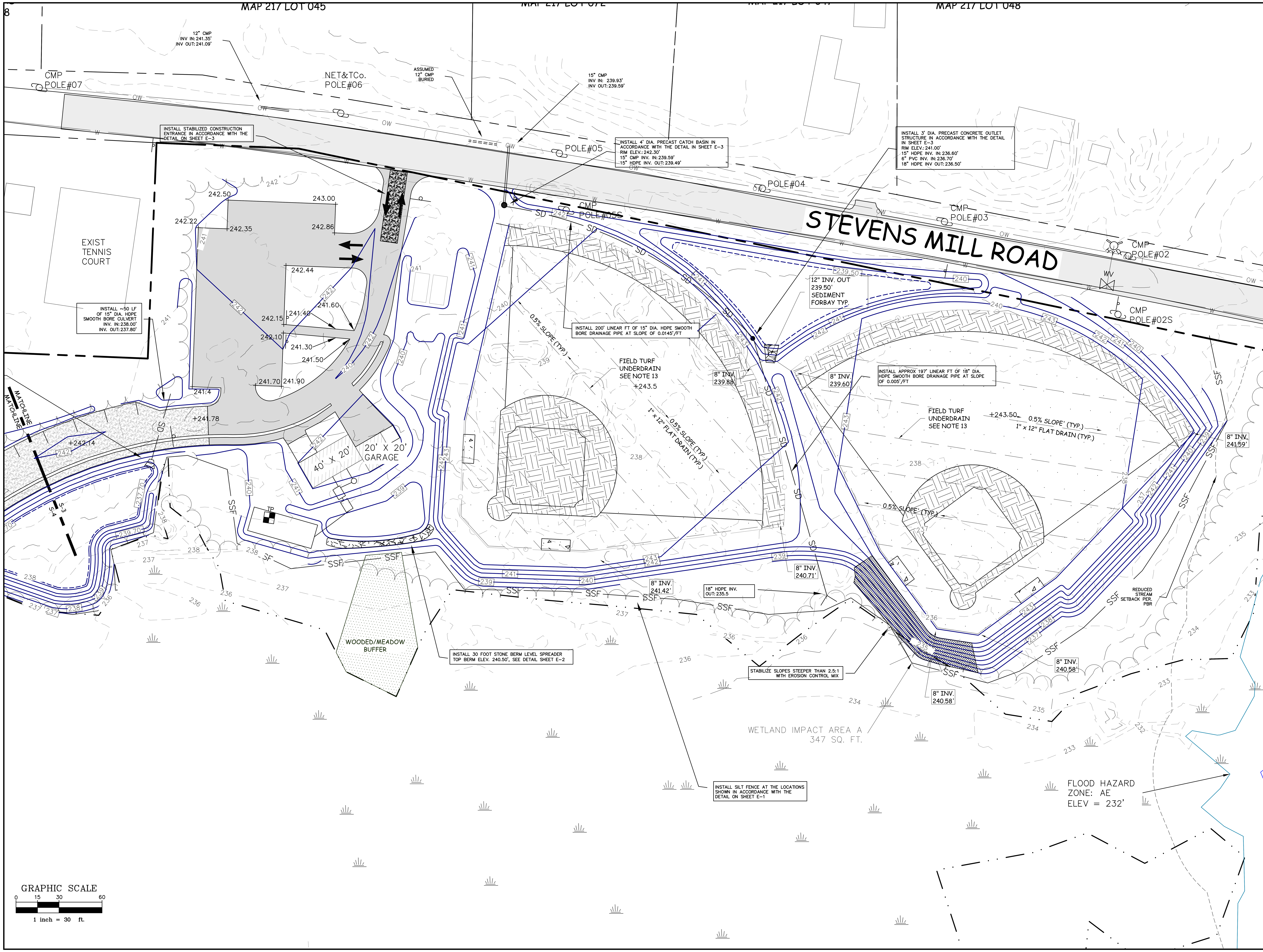
PREPARED FOR:
AUBURN SUBURBAN BASEBALL & SOFTBALL
PO BOX 1615
AUBURN, MAINE

SHEET: S-2

PLAN DATE: FEBRUARY 8, 2023

SCALE: 1"=60'

PROJ. #:21-011AU



MAP 217 LOT 045
MAP 217 LOT 048
12" CMP INV IN: 241.35' INV OUT: 241.09'
CMP POLE#07
NET&TCo. POLE#06
ASSUMED 12" CMP BURIED
15" CMP INV IN: 239.93' INV OUT: 239.59'
INSTALL STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE DETAIL ON SHEET E-3
INSTALL 4' DIA. PRECAST CATCH BASIN IN ACCORDANCE WITH THE DETAIL IN SHEET E-3 RIM ELEV.: 242.30' 15" CMP INV. IN: 239.59' 15" HDPE INV. OUT: 239.49'
POLE#05
POLE#04
INSTALL 3' DIA. PRECAST CONCRETE OUTLET STRUCTURE IN ACCORDANCE WITH THE DETAIL IN SHEET E-3 RIM ELEV.: 241.00' 15" HDPE INV. IN: 236.60' 6" PVC INV. IN: 236.70' 18" HDPE INV OUT: 236.50'
STEVENS MILL ROAD
CMP POLE#05S
CMP POLE#03
CMP POLE#02
CMP POLE#02S
EXIST TENNIS COURT
INSTALL ~50 LF OF 15" DIA. HDPE SMOOTH BORE CULVERT INV. IN: 238.00' INV. OUT: 237.80'
12" INV. OUT 239.50' SEDIMENT FORBAY TYP.
INSTALL 200' LINEAR FT OF 15" DIA. HDPE SMOOTH BORE DRAINAGE PIPE AT SLOPE OF 0.0145'/FT
0.5% SLOPE (TYP.)
FIELD TURF UNDERDRAIN SEE NOTE 13
+243.5
1" x 12" FLAT DRAIN (TYP.)
8" INV. 239.88'
8" INV. 239.60'
INSTALL APPROX 197' LINEAR FT OF 18" DIA. HDPE SMOOTH BORE DRAINAGE PIPE AT SLOPE OF 0.005'/FT
FIELD TURF UNDERDRAIN SEE NOTE 13
+243.50
8" INV. 241.59'
40' X 20'
20' X 20' GARAGE
MATCHLINE
8" INV. 240.71'
8" INV. 241.42'
18" HDPE INV. OUT: 235.5
REDUCED STREAM SETBACK PER. PBR
WOODED/MEADOW BUFFER
INSTALL 30 FOOT STONE BERM LEVEL SPREADER TOP BERM ELEV. 240.50', SEE DETAIL SHEET E-2
STABILIZE SLOPES STEEPER THAN 2.5:1 WITH EROSION CONTROL MIX
8" INV. 240.58'
8" INV. 240.58'
WETLAND IMPACT AREA A 347 SQ. FT.
INSTALL SILT FENCE AT THE LOCATIONS SHOWN IN ACCORDANCE WITH THE DETAIL ON SHEET E-1
FLOOD HAZARD ZONE: AE ELEV = 232'
GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

REVISIONS

NO.	DATE	DESCRIPTION	BY
1	2/9/23	REVISED PARKING D LOCATION	EJ
2	3/2/23	REV. SIGHT DISTANCE, ROAD WIDTH NO PARKING SIGNS AND FUTURE FOOT PATH	EJ

PROJECT NAME:

GRADING/UTILITIES AUBURN SUBURBAN BASEBALL & SOFTBALL

STEVENS MILL ROAD
AUBURN, MAINE

PREPARED BY:

JONES ASSOCIATES INC.
Foresters, Surveyors, Soil, Environmental Consultants
280 POLAND SPRING ROAD, AUBURN, MAINE 04210
(207) 241-0235

PREPARED FOR:

AUBURN SUBURBAN BASEBALL & SOFTBALL
PO BOX 1615
AUBURN, MAINE

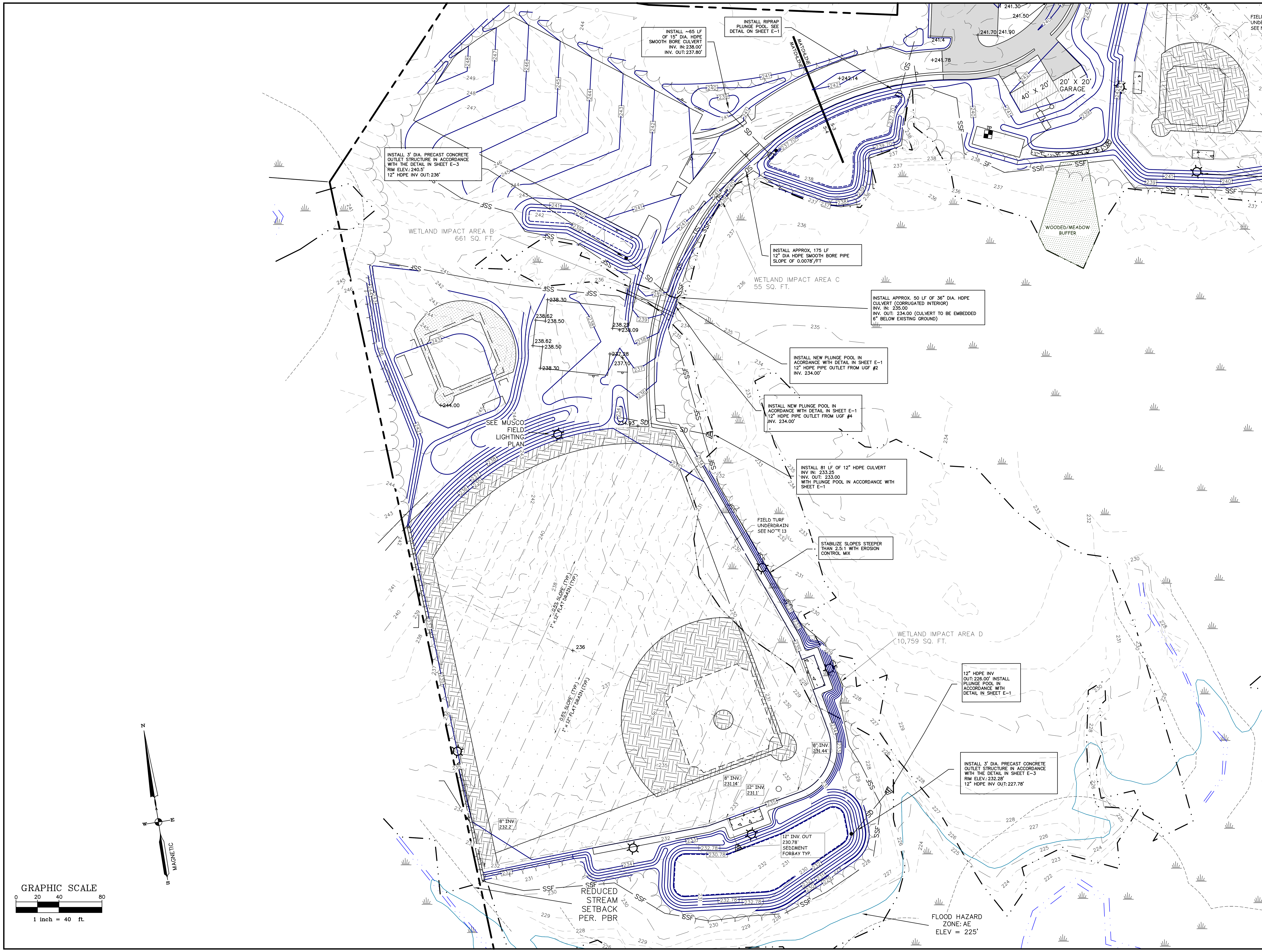
SHEET:

S-3

PLAN DATE: FEBRUARY 9, 2023

SCALE: 1"=30'

PROJ. #:21-011AU


INSTALL ~65 LF OF 15" DIA. HDPE SMOOTH BORE CULVERT INV. IN: 238.00' INV. OUT: 237.80'
INSTALL RIPRAP PLUNGE POOL. SEE DETAIL ON SHEET E-1
MATCHLINE
40' X 20'
20' X 20' GARAGE
INSTALL 3' DIA. PRECAST CONCRETE OUTLET STRUCTURE IN ACCORDANCE WITH THE DETAIL IN SHEET E-3 RIM ELEV.: 240.5' 12" HDPE INV OUT: 236'
WETLAND IMPACT AREA B 661 SQ. FT.
INSTALL APPROX. 175 LF 12" DIA HDPE SMOOTH BORE PIPE SLOPE OF 0.0078'/FT
WOODED/MEADOW BUFFER
WETLAND IMPACT AREA C 55 SQ. FT.
INSTALL APPROX. 50 LF OF 36" DIA. HDPE CULVERT (CORRUGATED INTERIOR) INV. IN: 235.00 INV. OUT: 234.00 (CULVERT TO BE EMBEDDED 6" BELOW EXISTING GROUND)
INSTALL NEW PLUNGE POOL IN ACCORDANCE WITH DETAIL IN SHEET E-1 12" HDPE PIPE OUTLET FROM UGF #2 INV. 234.00'
INSTALL NEW PLUNGE POOL IN ACCORDANCE WITH DETAIL IN SHEET E-1 12" HDPE PIPE OUTLET FROM UGF #4 INV. 234.00'
SEE MUSCO FIELD LIGHTING PLAN
INSTALL 81 LF OF 12" HDPE CULVERT INV IN: 233.25 INV. OUT: 233.00 WITH PLUNGE POOL IN ACCORDANCE WITH SHEET E-1
FIELD TURF UNDERDRAIN SEE NOTE 13
STABILIZE SLOPES STEEPER THAN 2.5:1 WITH EROSION CONTROL MIX
WETLAND IMPACT AREA D 10,759 SQ. FT.
12" HDPE INV OUT: 226.00' INSTALL PLUNGE POOL IN ACCORDANCE WITH DETAIL IN SHEET E-1
INSTALL 3' DIA. PRECAST CONCRETE OUTLET STRUCTURE IN ACCORDANCE WITH THE DETAIL IN SHEET E-3 RIM ELEV.: 232.28' 12" HDPE INV OUT: 227.78'
12" INV. OUT 230.78' SEDIMENT FORBAY TYP.
REDUCED STREAM SETBACK PER. PBR
FLOOD HAZARD ZONE: AE ELEV = 225'
GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.
MAGNETIC

STATE OF MAINE
BOYD SNOWDEN

REVISIONS

NO.	DATE	DESCRIPTION	BY
1	2/9/23	REVISED PARKING D LOCATION	EJ
2	3/2/23	REV. SIGHT DISTANCE, ROAD WIDTH NO PARKING SIGNS AND FUTURE FOOT PATH	EJ

PROJECT NAME:

GRADING/UTILITIES AUBURN SUBURBAN BASEBALL & SOFTBALL

STEVENS MILL ROAD
AUBURN, MAINE

PREPARED BY:
JONES ASSOCIATES INC.
Foresters, Surveyors and Environmental Consultants
280 POLAND SPRING ROAD, AUBURN, MAINE 04210
(207) 241-0235

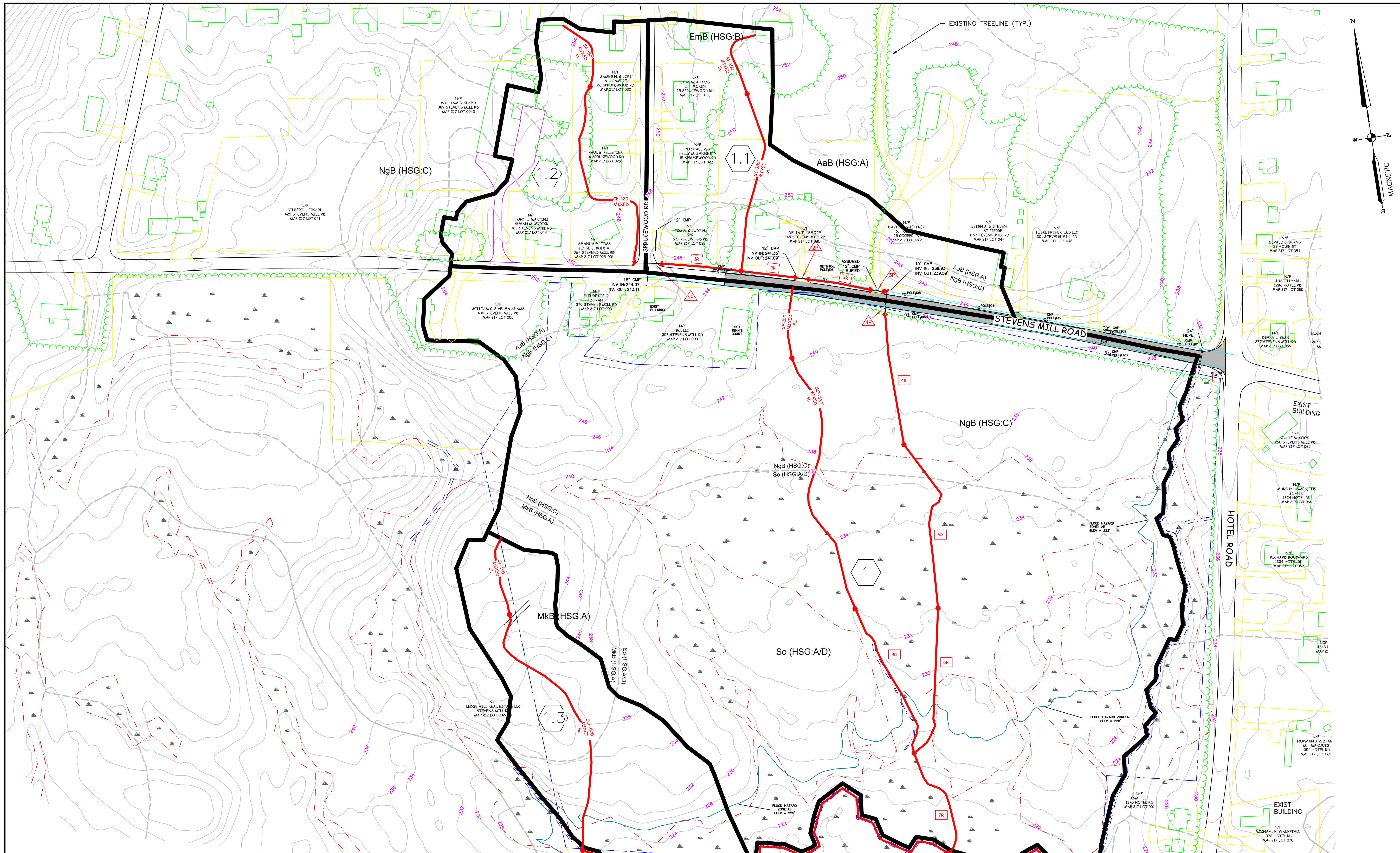
PREPARED FOR:
AUBURN SUBURBAN BASEBALL & SOFTBALL
PO BOX 1615
AUBURN, MAINE

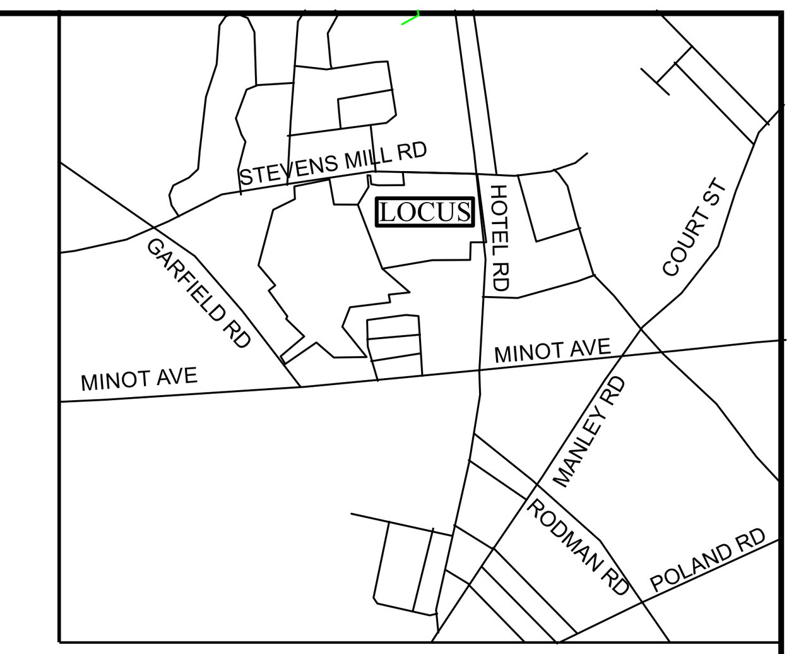
SHEET: S-4

PLAN DATE: FEBRUARY 9, 2023

SCALE: 1"=40'

PROJ. #:21-011AU





LOCATION PLAN

SOILS LEGEND

NgB: NINIGRET FINE SANDY LOAM, 0 TO 8 PERCENT
HYDROLOGIC SOIL GROUP:C

So: SCARBORO FINE SANDY LOAM
HYDROLOGIC SOIL GROUP: A/D

MkB:MERRIMAC FINE SANDY LOAM, 0 TO 8 PERCENT SLOPES
HYDROLOGIC SOIL GROUP:A

AaB:ADAMS LOAMY SAND, 0 TO 8 PERCENT SLOPES
HYDROLOGIC SOIL GROUP:A

EmB: ELMWOOD FINE SANDY LOAM, 2 TO 8 PERCENT SLOPES
HYDROLOGIC SOIL GROUP:B

WATERSHED LEGEND

WATERSHED BOUNDARY
SOIL BOUNDARY
FLOWPATH

LEGEND

SUBJECT BOUNDARY LINE
ABUTTER OR RIGHT OF WAY LINE
STONE WALL
WETLANDS
N/F — NOW OR FORMERLY
000/000 — DEED BOOK PAGE REFERENCE
000–000 — TAX MAP AND LOT NUMBER
DECIDUOUS / CONIFEROUS TREE
MF — GRANITE MONUMENT FOUND
IPF/IRF/RBF — IRON PIPE/ROD/REBAR FOUND
DHF — DRILL HOLE FOUND
CRBS — 5/8" REBAR W/ CAP TO BE SET
UTILITY POLE
SEWER MANHOLE
DRAIN MANHOLE
CATCH BASINS
WATER SHUTOFF
WV — WATER VALVE
WELL
GV — GAS VALVE
HYDRANT
FENCE – BARBED WIRE
FENCE – CHAIN LINK
240 — EXISTING CONTOURS
FEMA FLOOD ELEVATION (ZONE AE)
OVERHEAD WIRES
TREELINE

NOTES:

1. RECORD OWNER: AUBURN SUBURBAN BASEBALL AND SOFTBALL
2. PARCEL DEED REFERENCE: SEE DEED FROM HELEN R. & ROBERT E. FOSS TO AUBURN SUBURBAN BASEBALL AND SOFTBALL DATED JANUARY 2, 2020, RECORDED AT THE ANDROSCOGGIN COUNTY REGISTRY OF DEEDS IN BOOK 10273, PAGE 149.
3. ALL BOOK AND PAGE REFERENCES REFER TO THE ANDROSCOGGIN COUNTY REGISTRY OF DEEDS.
4. PARCEL TAX MAP REFERENCE: CITY OF AUBURN, MAP 217, LOT 2
5. ZONING OF PROPERTY: SR (SUBURBAN–RESIDENTIAL)
6. TOTAL AREA OF PARCEL 29.83 ACRES.
7. ALL BEARINGS ARE REFERENCED TO MAGNETIC NORTH PER PLAN REF. A.
8. ELEVATIONS SHOWN ARE NAVD88 BY OPUS SOLUTION.
9. EXTERIOR BOUNDARY BASED ON PLAN REF. A.
10. WETLAND BOUNDARIES WERE IDENTIFIED AND DELINEATED IN JULY 2007 BY JONES ASSOCIATES INC. ACCORDING TO U.S. ARMY CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL (1987) AND REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION. A DELINEATION REVIEW WAS CONDUCTED BY JONES ASSOCIATES INC. IN APRIL 2018.
11. IN JULY 2007 WETLAND FLAGS WERE LOCATED USING TRIMBLE GLOBAL POSITIONING SYSTEM (GPS) TECHNOLOGY WITH EXPECTED AVERAGE ACCURACY OF SUB–METER. THIS METHOD IS RECOGNIZED BY BOTH STATE AND FEDERAL AGENCIES. HOWEVER, JONES ASSOCIATES INC RECOMMENDS THAT THE WETLAND BOUNDARY BE SURVEYED USING A MORE PRECISE METHOD IF ANY FILL OR REGULATED ACTIVITIES ARE TO BE PERFORMED WITHIN 20 FEET OF THE GPS LOCATED WETLAND. WETLAND FLAGS WERE REMARKED WHERE NEEDED IN APRIL 2018.
12. PLAN REFERENCES:

A.) PROPERTY PLAN AND TOPOGRAPHIC PLAN OF EXISTING CONDITIONS, HOTEL, GARFIELD & STEVENS MILL ROADS, AUBURN, MAINE PREPARED FOR ROBERT FOSS PREPARED BY ARCC LAND SURVEYING INC DATED JUNE 11, 2007

STATE OF MAINE
BOYD A. SNOWDEN
No. 6955
LICENSED PROFESSIONAL ENGINEER

GRAPHIC SCALE
0 50 100 200
1 inch = 100 ft.

REVISIONS			
NO.	DATE	DESCRIPTION	BY
1	2–22–23	ADJUSTMENT OF SUB. 1, 1.1, AND 1.2 FLOWPATHS	BAS

EXISTING WATERSHED PLAN

AUBURN SUBURBAN BASEBALL & SOFTBALL

PREPARED FOR:
AUBURN SUBURBAN BASEBALL & SOFTBALL
PO BOX 1615
AUBURN, MAINE

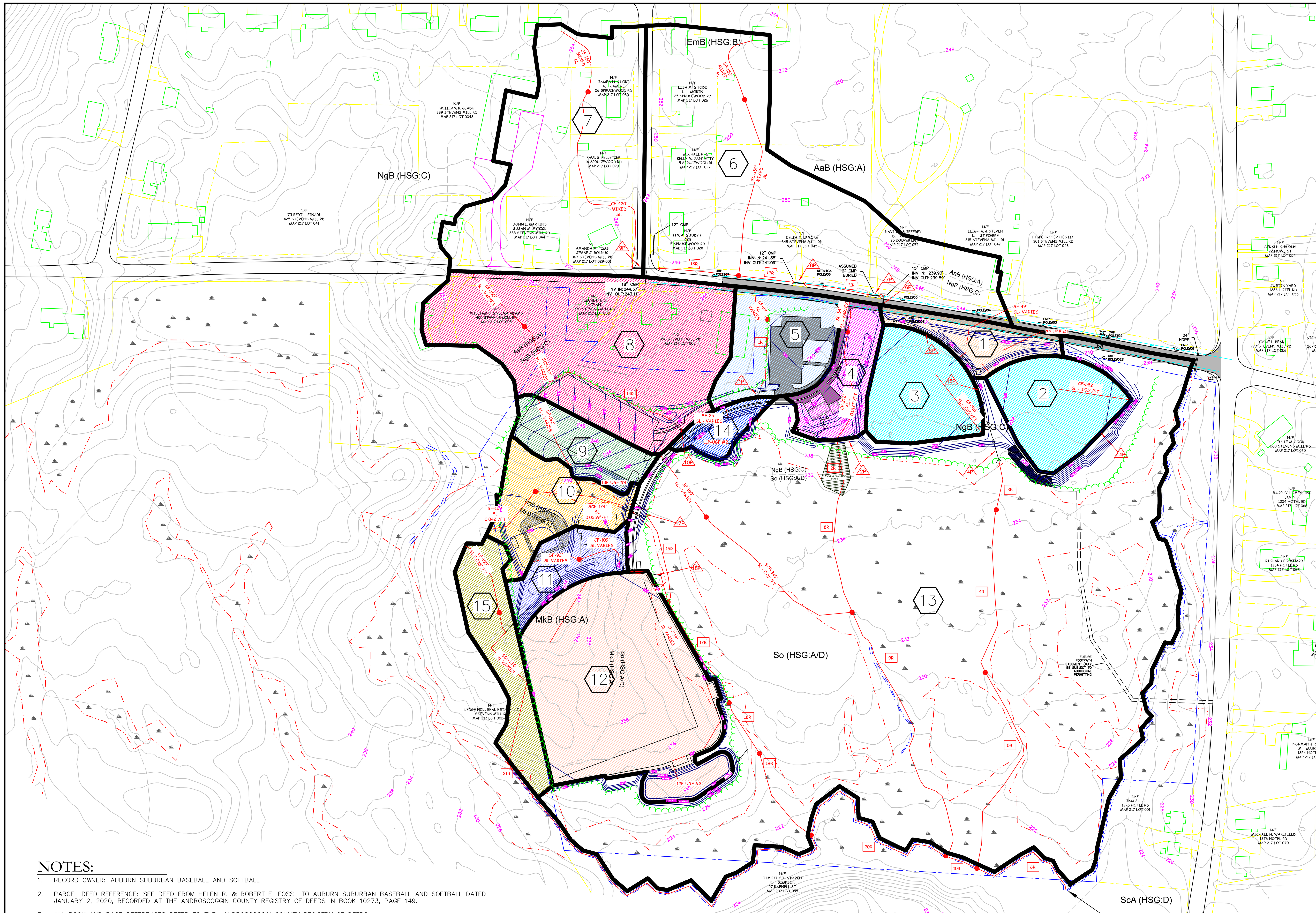
PREPARED BY:
JONES ASSOCIATES INC.
Foresters, Surveyors And Environmental Consultants
280 POLAND SPRING ROAD, AUBURN, MAINE 04210
(207) 241-0235

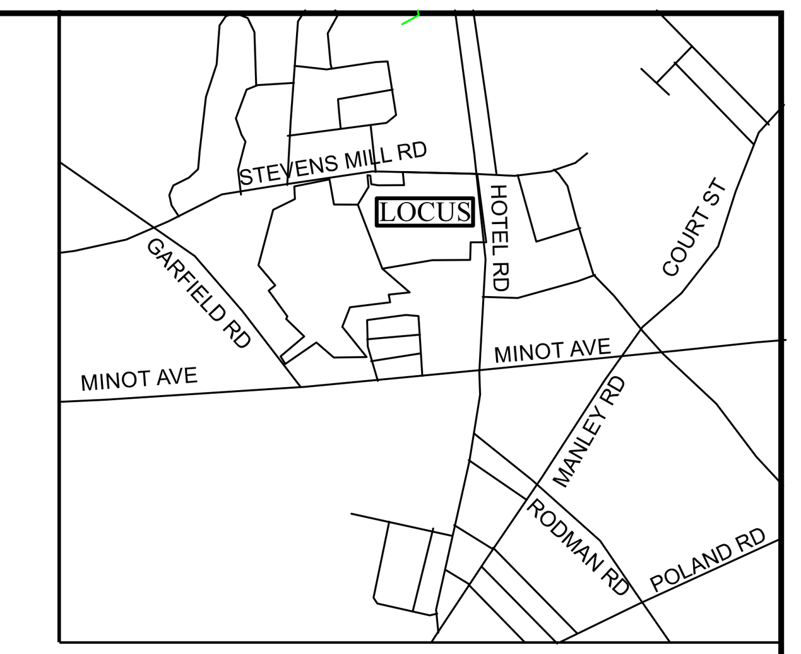
FIELD WORK DATE: APRIL & MAY 2020

PLAN DATE: 2/6/2023

SCALE: 1"=100'

PROJ. #: 21-011AU





LOCATION PLAN

SOILS LEGEND

NgB: NINIGRET FINE SANDY LOAM, 0 TO 8 PERCENT
HYDROLOGIC SOIL GROUP:C

So: SCARBORO FINE SANDY LOAM
HYDROLOGIC SOIL GROUP: A/D

MkB:MERRIMAC FINE SANDY LOAM, 0 TO 8 PERCENT SLOPES
HYDROLOGIC SOIL GROUP:A

AaB:ADAMS LOAMY SAND, 0 TO 8 PERCENT SLOPES
HYDROLOGIC SOIL GROUP:A

EmB: ELMWOOD FINE SANDY LOAM, 2 TO 8 PERCENT SLOPES
HYDROLOGIC SOIL GROUP:B

WATERSHED LEGEND

WATERSHED BOUNDARY
SOIL BOUNDARY
FLOWPATH

LEGEND

SUBJECT BOUNDARY LINE
ABUTTER OR RIGHT OF WAY LINE
STONE WALL
WETLANDS
N/F — NOW OR FORMERLY
000/000 — DEED BOOK PAGE REFERENCE
000–000 — TAX MAP AND LOT NUMBER
DECIDUOUS / CONIFEROUS TREE
MF — GRANITE MONUMENT FOUND
IPF/IRF/RBF — IRON PIPE/ROD/REBAR FOUND
DHF — DRILL HOLE FOUND
CRBS — 5/8" REBAR W/ CAP TO BE SET
UTILITY POLE
SEWER MANHOLE
DRAIN MANHOLE
CATCH BASINS
WATER SHUTOFF
WV — WATER VALVE
WELL
GV — GAS VALVE
HYDRANT
LIGHT POST
FENCE – BARBED WIRE
FENCE – CHAIN LINK
240 — EXISTING CONTOURS
240 — PROPOSED CONTOURS
SETBACK
TREELINE
OVERHEAD WIRES

GRID NORTH

NOTES:

1. RECORD OWNER: AUBURN SUBURBAN BASEBALL AND SOFTBALL
2. PARCEL DEED REFERENCE: SEE DEED FROM HELEN R. & ROBERT E. FOSS TO AUBURN SUBURBAN BASEBALL AND SOFTBALL DATED JANUARY 2, 2020, RECORDED AT THE ANDROSCOGGIN COUNTY REGISTRY OF DEEDS IN BOOK 10273, PAGE 149.
3. ALL BOOK AND PAGE REFERENCES REFER TO THE ANDROSCOGGIN COUNTY REGISTRY OF DEEDS.
4. PARCEL TAX MAP REFERENCE: CITY OF AUBURN, MAP 217, LOT 2
5. ZONING OF PROPERTY: SR (SUBURBAN–RESIDENTIAL)
6. TOTAL AREA OF PARCEL 29.83 ACRES.
7. ALL BEARINGS ARE REFERENCED TO MAGNETIC NORTH PER PLAN REF. A.
8. ELEVATIONS SHOWN ARE NAVD88 BY OPUS SOLUTION.
9. EXTERIOR BOUNDARY BASED ON PLAN REF. A.
10. WETLAND BOUNDARIES WERE IDENTIFIED AND DELINEATED IN JULY 2007 BY JONES ASSOCIATES INC. ACCORDING TO U.S. ARMY CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL (1987) AND REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION. A DELINEATION REVIEW WAS CONDUCTED BY JONES ASSOCIATES INC. IN APRIL 2018.
11. IN JULY 2007 WETLAND FLAGS WERE LOCATED USING TRIMBLE GLOBAL POSITIONING SYSTEM (GPS) TECHNOLOGY WITH EXPECTED AVERAGE ACCURACY OF SUB–METER. THIS METHOD IS RECOGNIZED BY BOTH STATE AND FEDERAL AGENCIES. HOWEVER, JONES ASSOCIATES INC RECOMMENDS THAT THE WETLAND BOUNDARY BE SURVEYED USING A MORE PRECISE METHOD IF ANY FILL OR REGULATED ACTIVITIES ARE TO BE PERFORMED WITHIN 20 FEET OF THE GPS LOCATED WETLAND. WETLAND FLAGS WERE REMARKED WHERE NEEDED IN APRIL 2018.
12. PLAN REFERENCES:

A.) PROPERTY PLAN AND TOPOGRAPHIC PLAN OF EXISTING CONDITIONS, HOTEL, GARFIELD & STEVENS MILL ROADS, AUBURN, MAINE PREPARED FOR ROBERT FOSS PREPARED BY ARCC LAND SURVEYING INC DATED JUNE 11, 2007

GRAPHIC SCALE
0 50 100 200
1 inch = 100 ft.

STATE OF MAINE
BOYD SNOWDON
No. 2263

REVISIONS

NO.	DATE	DESCRIPTION	BY
1	2-28-23	ADJUSTMENT OF SUBCATCHMENTS, FLOWPATHS, ETC.	BAS

PROPOSED WATERSHED PLAN

AUBURN SUBURBAN BASEBALL & SOFTBALL

PREPARED FOR:
AUBURN SUBURBAN BASEBALL & SOFTBALL
PO BOX 1615
AUBURN, MAINE

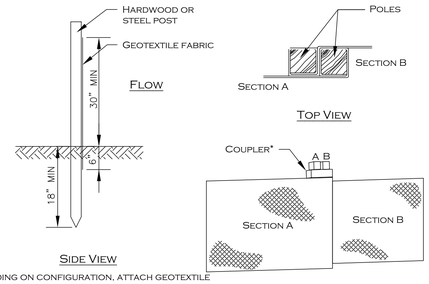
PREPARED BY:
JONES ASSOCIATES INC.
Foresters, Surveyors And Environmental Consultants
280 POLAND SPRING ROAD, AUBURN, MAINE 04210
(207) 241-0235

FIELD WORK DATE:
APRIL & MAY 2020

PLAN DATE:
2/8/2023

SCALE: 1"=100'

PROJ. #: 21-011AU



SIDE VIEW

JOINGING SECTIONS

DEPENDING ON CONFIGURATION, ATTACH GEOTEXTILE TO WIRE MESH WITH HOG RINGS, TO STEEL POSTS WITH TIE WIRES AND TO WOOD POSTS WITH STAPLES. POST MAY BE WIRED TOGETHER WHEN JOINING SECTIONS.

* THE COUPLER CAN BE ANY ACCEPTABLE DEVICE USED TO TIE THE POLES TOGETHER.

TEMPORARY SILT FENCE

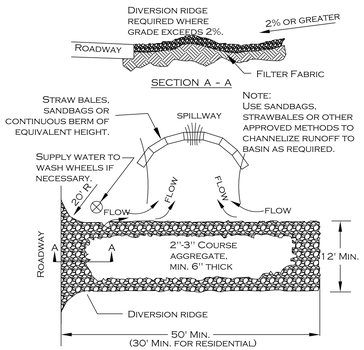
NTS

SLOPE (FT./FT)	LENGTH (FT.)
0.020	100
0.030	66
0.040	50
0.050	40
0.080	25
0.100	20
0.120	17
0.150	13

L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION

SPACING BETWEEN CHECK DAMS

NTS



NOTES:

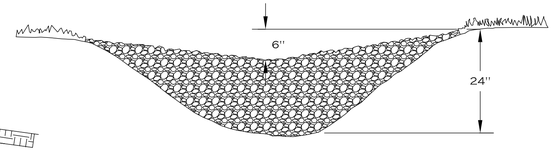
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.

3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AREA STABLIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OF SEDIMENT BASIN.

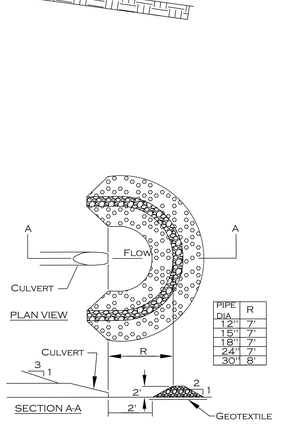
TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

NTS

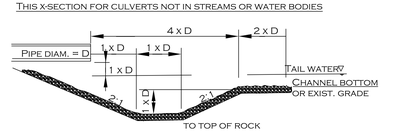


ROCK CHECK DAM

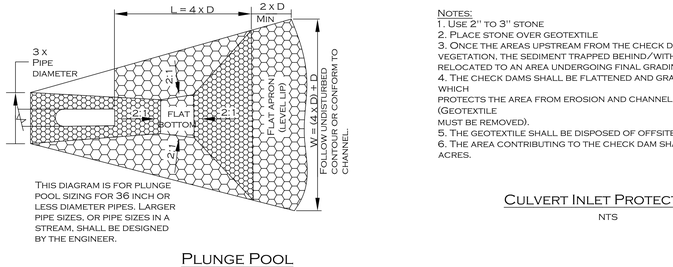
N.T.S.



THIS X-SECTION FOR CULVERTS NOT IN STREAMS OR WATER BODIES



THIS X-SECTION FOR CULVERTS WITH TAIL WATER. NOT FOR FISH PASSAGE



THIS DIAGRAM IS FOR PLUNGE POOL SIZING FOR 36 INCH OR LESS DIAMETER PIPES. LARGER PIPE SIZES, OR PIPE SIZES IN A STREAM, SHALL BE DESIGNED BY THE ENGINEER.

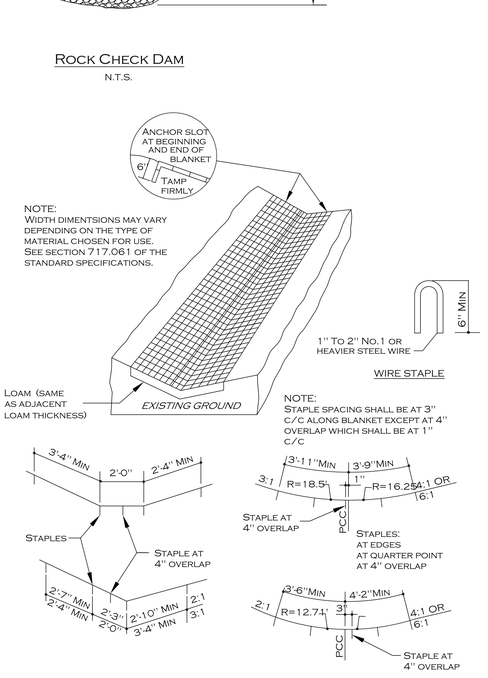
PLUNGE POOL

NTS

NOTES:
1. USE 2" TO 3" STONE
2. PLACE STONE OVER GEOTEXTILE
3. ONCE THE AREAS UPSTREAM FROM THE CHECK DAM ARE STABILIZED BY VEGETATION, THE SEDIMENT TRAPPED BEHIND/WITHIN THE DAM SHALL BE RELOCATED TO AN AREA UNDERGOING FINAL GRADING.
4. THE CHECK DAMS SHALL BE FLATTENED AND GRADED IN A MANNER WHICH PROTECTS THE AREA FROM EROSION AND CHANNEL BLOCKAGE. (GEOTEXTILE MUST BE REMOVED).
5. THE GEOTEXTILE SHALL BE DISPOSED OF OFFSITE.
6. THE AREA CONTRIBUTING TO THE CHECK DAM SHALL NOT EXCEED 10 ACRES.

CULVERT INLET PROTECTION

NTS



TEMPORARY EROSION CONTROL BLANKET

NTS

EROSION AND SEDIMENTATION CONTROL PLAN

PROJECT DESCRIPTION
THIS EROSION AND SEDIMENTATION CONTROL PLAN HAS BEEN PREPARED FOR THE CONSTRUCTION OF THE NEW AUBURN SUBURBAN BASEBALL AND SOFTBALL SPORTS FACILITY. THIS PROJECT INCLUDES APPROXIMATELY 8.69 ACRES OF DISTURBED AREA, WITH ONLY 6.07 ACRES OF NEW IMPERVIOUS AREA. 11,822 SQ. FT. OF WETLAND IMPACTS WILL BE REQUIRED FOR THE PROJECT.

EXISTING DRAINAGE ON THE SITE CURRENTLY FLOWS OVERLAND TOWARDS THE SOUTH INTO AN UNNAMED STREAM.

EXISTING SITE CONDITIONS
THE SITE CURRENTLY CONSISTS OF LOW TO MODERATELY SLOPED TERRAIN WHICH VARIES IN SLOPE FROM 3 TO 15 PERCENT. THE SITE CURRENTLY FLOWS TOWARDS THE SOUTH AS NOTED ABOVE. THE EXISTING PARCEL IS UNDEVELOPED. THE SITE WILL BE PERMITTED THROUGH THE CITY OF AUBURN'S DELEGATED REVIEW PROCESS FOR SITE LOCATION OF DEVELOPMENT PERMIT THROUGH THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

ADJACENT AREAS
ADJACENT PROPERTIES ARE ZONED AS SUBURBAN RESIDENTIAL TO THE NORTH, SOUTH, EAST, AND WEST.

SOILS
SOILS DATA CAN BE FOUND WITHIN THE ANDROSCOGGIN COUNTY MEDIUM INTENSITY SOIL SURVEY MAPS .

CRITICAL AREAS

NECESSARY PERMITS FROM THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THE U.S. ARMY CORPS OF ENGINEERS HAVE BEEN OBTAINED FOR THE 11,822 SQ. FT. OF WETLAND IMPACTS NECESSARY FOR THE PROJECT. DOUBLE EROSION CONTROL SHALL BE USED ADJACENT TO ANY WETLANDS OR STREAMS AS SHOWN ON THE EROSION CONTROL PLANS.

THE EROSION AND SEDIMENTATION CONTROL PRACTICES INCLUDES THE USE OF HDPE SMOOTH BORE STORM DRAIN PIPES, PRECAST CONCRETE DRAINAGE STRUCTURES, VEGETATED DITCHES AND DIVERSION SWALES WITH EROSION FABRIC, GEOTEXTILE FABRIC / RIP RAP PROTECTION, VEGETATIVE SLOPES, INLET AND OUTLET PROTECTION FOR CULVERTS, TEMPORARY HAY MULCH PLACES OVER DISTURBED SOILS AND SILT FENCE.

A. STRUCTURE MEASURES

1 CULVERTS / STORM DRAIN PIPES: SMOOTH BORE HDPE CULVERTS / DRAIN PIPES SHALL BE INSTALLED ACCORDING TO THE SIZE AND LOCATION ON THE DESIGN PLANS. THE CULVERTS / DRAIN PIPES HAVE BEEN DESIGNED TO ACCOMMODATE A 25-YEAR STORM EVENT. ALL CULVERTS ARE TO BE CONSTRUCTED WITH INLET AND OUTLET RIPRAP PROTECTION FOR EROSION CONTROL.
2 WOOD WASTE BERM: WOOD WASTE BERMS MAY BE USED IN LIEU OF SILT FENCE AS LONG AS THE BERM IS INSTALLED IN ACCORDANCE WITH MOST RECENT BEST MANAGEMENT PRACTICES AS OUTLINED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION. EXISTING STUMPS REMOVED DURING GRUBBING OF THE SITE SHALL BE USED FOR WOOD WASTE BERMS AT THE LOCATIONS DEFINED ON THE DESIGN PLANS.
3 SILT FENCE: SILT FENCE SHALL BE CONSTRUCTED AT THE LOCATION SHOWN ON THE PLANS. THE SILT FENCE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAIL ON THIS SHEET, AND SHALL BE INSTALLED PRIOR TO THE CONSTRUCTION OF ANY DITCHING OR GRUBBING FOR THE PROJECT AREAS. THE SILT FENCE WILL BE MAINTAINED WEEKLY DURING CONSTRUCTION AND AFTER RAIN EVENTS. THE SILT FENCE WILL REMAIN IN PLACE UNTIL THE SITE AREAS THEY ARE PROTECTING ARE FULLY VEGETATION, AT WHICH TIME THEY SHOULD BE REMOVED.
4 CATCH BASINS / F-STRUCTURES: ALL CATCH BASINS AND F-STRUCTURES INSTALLED AS PART OF THIS PROJECT ARE REQUIRED TO BE INSTALLED WITH DANDY SACK INLET PROTECTION AS MANUFACTURED BY MIRAFI OR APPROVED EQUAL. DANDY SACK SHALL BE INSTALLED BETWEEN FRAME AND GRATE AND SHALL BE MONITORED WEEKLY OR AFTER RAIN EVENTS. DANDY SACK SHALL BE CLEANED WEEKLY TO ENSURE PROPER OPERATION AND TO ENSURE RUNOFF IS ALLOWED TO PASS THROUGH THE SACK AND NOT BYPASS CATCH BASINS.

B. VEGETATIVE MEASURES:

1 TOPSOIL STOCKPILING: TOPSOIL DURING SITE CONSTRUCTION SHALL BE STOCKPILED AND USED IN SITE RECLAMATION. STOCKPILES SHALL BE MULCHED WITH HAY UNTIL IT IS USED. MULCH SHALL BE APPLIED AT A RATE OF 90 LBS / 1000 SQUARE FEET. SILT FENCE SHALL BE INSTALLED ON THE DOWN SLOPE SIDE OF THE TOPSOIL PILE TO PROVIDE A SEDIMENTATION BARRIER.
2 STUMP STOCKPILING: THE STUMPS SHALL BE STOCKPILED DURING THE CONSTRUCTION IN A LOCATION THAT IS EASILY ACCESSIBLE FOR TRUCKS AND EQUIPMENT. THE STOCKPILE SHALL BE MULCHED WITH HAY UNTIL THEY ARE REMOVED FROM THE SITE AND BURIED IN AN APPROVED LOCATION. MULCH SHALL BE APPLIED AT A RATE OF 90 LBS / 1000 SQUARE FEET. SILT FENCE SHALL BE INSTALLED ON THE DOWN SLOPE SIDE OF THE STUMP PILE TO PROVIDE A SEDIMENTATION BARRIER. STUMPS WITHIN THE ROAD RIGHT OF WAY WILL BE GROUND AND USED FOR CONSTRUCTION OF THE WOOD WASTE BERM.
3 PERMANENT SEEDING: ALL DISTURBED AREAS AND AREAS OF EXPOSED SOIL SHALL BE SEEDED WITH CONSERVATION MIX #2 AT A RATE OF 42 LBS/ACRE. THIS SHALL INCLUDE 20 LBS CREEPING RED FESCUE, 2 LBS. REDTOP AND 20 LBS. TALL FESCUE. LIME SHALL BE APPLIED AT A RATE OF 3 TONS/ACRE. HAY MULCH WILL BE APPLIED AT A RATE OF 90 LB/1000 SQUARE FEET. ALL VEGETATION WATERWAYS AND CRITICAL AREAS OF CONCENTRATE FLOW SHALL BE STABILIZED WITH GEOTEXTILE OR SIMILAR. THIS SEEDING MIXTURE SHALL NOT APPLY TO VEGETATION REQUIREMENTS IN THE UNDER DRAINED GRASS FILTER.

SPECIAL PROVISIONS:

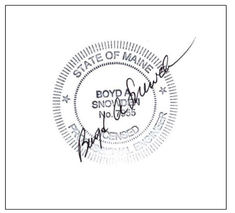
1. ALL DISTURBED AREAS WILL BE MULCHED WITHIN SEVEN DAYS OF INITIAL DISTURBANCE OR PRIOR TO ANY STORM EVENT.
2. ANY AREA TO HAVE A PERMANENT COVER OF VEGETATION SHALL HAVE LOAM, PERMANENT SEEDING, AND MULCH APPLIED WITHIN SEVEN DAYS OF COMPLETING THE FINAL GRADING FOR THAT AREA.
3. VEGETATIVE AND RIP-RAP DITCH INNINGS WILL BE INSTALLED WITH 48 HOURS OF COMPLETING THE FINAL GRADING FOR ANY SECTION OF DITCH.
4. CULVERT/ STORM DRAIN OUTLET PROTECTION WILL BE INSTALLED WITH 24 HOURS OF SETTING CULVERT OR PIPE.
5. LIMIT THE GRUBBED AREA FOR SITE CONSTRUCTION TO THAT WHICH IS MANAGABLE IN ORDER TO REDUCE POTENTIAL FOR HIGH SEDIMENT LOADING FROM RUNOFF. COMPLETE CULVERTS, INLET AND OUTLET PROTECTION AND MULCH AREAS BEFORE MOVING TO A NEW AREA.
6. ALL SLOPES EXCEEDING 15 PERCENT SHALL BE REQUIRED TO HAVE ONE OF THE FOLLOWING CONTROL MEASURES APPLIED TO PREVENT SCOURING AND EROSION:
   a. MULCH SHALL BE APPLIED OVER THE LOAM AND SEED AND SHALL BE ANCHORED BY NETTING, OR
   b. EROSION CONTROL BLANKET SHALL BE APPLIED OVER THE LOAM AND SEED, OR
   c. MULCH SHALL BE APPLIED OVER LOAM AND SEED AND SHALL HAVE TACKIFIER SPRAYED OVER MULCH, OR
   d. HYDROSEEDING ONTO LOAM SURFACE WITH MULCH APPLIED AND TACKIFIER TO STABILIZE THE MULCH.

MAINTENANCE

DURING THE PERIOD OF CONSTRUCTION AND/OR UNTIL LONG TERM PERMANENT VEGETATION HAS BEEN ESTABLISHED, THE SITE WILL BE MAINTAINED IN ACCORDANCE WITH THE FOLLOWING CRITERIA:
A. DISTURBED AREAS SHALL BE RESEEDED AND MULCHED AS NEEDED TO ENSURE ADEQUATE VEGETATION TO STABILIZE THE UNDERLYING SOILS.
B. WATERWAYS AND RIPRAP PLUNGE POOLS SHALL BE VISUALLY INSPECTED WEEKLY AND AFTER RAIN EVENTS DURING CONSTRUCTION PERIOD. THEY WILL BE RESTORED AS REQUIRED. REPAIRS WILL INCLUDE REPAIRS TO JUTE MESH, FILLING IN ERODED AREAS, RESEEDING AND REMULCHING AND PROVIDING ADDITIONAL MULCH.
C. HAY BALE BARRIERS, WOOD WASTE BERM AND SILT FENCE WILL BE INSPECTED WEEKLY AND WILL BE REPAIRED AS NEEDED. SUCH REPAIRS WILL INCLUDE REMOVE OF SEDIMENT TRAPPED AGAINST SILT FENCE / WOOD WASTE BERM WHEN HEIGHT OF SEDIMENT CREATES A LOADING PROBLEM ON THE BARRIER, REPAIR OF WATERWAY AREAS, OR DETERIORATION OF THE BARRIERS.
D. ALL DISTURBED SOILS SHALL HAVE HAY MULCH APPLIED AT A RATE OF 90 LBS. PER 1000 SQUARE FEET WITHIN 48 HOURS OF THE DISTURBANCE OF THE SOIL, AND PRIOR TO ANY PREDICTABLE RAIN EVENT. ALL MEASURES DESCRIBED ABOVE SHALL BE MAINTAINED AS DIRECTED IN THE LATEST EDITION OF BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENTATION.

WINTER STABILIZATION

1. STANDARD FOR THE TIMELY STABILIZATION OF DITCHES AND CHANNELS: THE CONTRACTOR WILL CONSTRUCT AND STABILIZE ALL STONE-LINED DITCHES AND CHANNELS ON THE SITE BY SEPTEMBER 15. THE CONTRACTOR WILL CONSTRUCT AND STABILIZE ALL GRASS-LINED DITCHES AND CHANNELS ON THE SITE BY SEPTEMBER 15. IF THE CONTRACTOR FAILS TO STABILIZE A DITCH OR CHANNEL TO BE GRASS-LINED BY SEPTEMBER 15, THEN THE CONTRACTOR WILL TAKE ONE OF THE FOLLOWING ACTIONS TO STABILIZE THE DITCH FOR LATE FALL AND WINTER.
   INSTALL A SOD LINING IN THE DITCH: THE CONTRACTOR WILL LINE THE DITCH WITH PROPERLY INSTALLED SOD BY OCTOBER 1. PROPER INSTALLATION INCLUDES THE CONTRACTOR PINNING THE SOD ONTO THE SOIL WITH WIRE PINS, ROLLING THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD AND UNDERLYING SOIL, AND WATERING THE SOD TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL.
   INSTALL A STONE LINING IN THE DITCH: THE CONTRACTOR WILL LINE THE DITCH WITH STONE RIPRAP BY NOVEMBER 15. THE CONTRACTOR WILL HIRE A REGISTERED PROFESSIONAL ENGINEER TO DETERMINE THE STONE SIZE AND LINING THICKNESS NEEDED TO WITHSTAND THE ANTICIPATED FLOW VELOCITIES AND FLOW DEPTHS WITHIN THE DITCH. IF NECESSARY, THE CONTRACTOR WILL REGRADE THE DITCH PRIOR TO PLACING THE STONE LINING SO TO PREVENT THE STONE LINING, FROM REDUCING THE DITCH'S CROSS-SECTIONAL AREA.
2. STANDARD FOR THE TIMELY STABILIZATION OF DISTURBED SLOPES: THE CONTRACTOR WILL CONSTRUCT AND STABILIZE STONE-COVERED SLOPES BY NOVEMBER 15. THE CONTRACTOR WILL SEED AND MULCH ALL SLOPES TO BE VEGETATED BY SEPTEMBER 15. THE DEPARTMENT WILL CONSIDER ANY AREA HAVING A GRADE GREATER THAN 8% TO BE A SLOPE. IF THE CONTRACTOR FAILS TO STABILIZE ANY SLOPE TO BE VEGETATED BY SEPTEMBER 15, THEN THE CONTRACTOR WILL TAKE ONE OF THE FOLLOWING ACTIONS TO STABILIZE THE SLOPE FOR LATE FALL AND WINTER.
   STABILIZE THE SOIL WITH TEMPORARY VEGETATION AND EROSION CONTROL MATS: BY OCTOBER 1, THE CONTRACTOR WILL SEED THE DISTURBED SLOPE WITH WINTER RYE AT A SEEDING RATE OF 3 POUNDS PER 1000 SQUARE FEET AND APPLY EROSION CONTROL MATS (OR MULCH WITH JUTE NETTING) OVER THE MULCHED SLOPE. THE CONTRACTOR WILL MONITOR GROWTH OF THE RYE OVER THE NEXT 30 DAYS. IF THE RYE FAILS TO GROW AT LEAST THREE INCHES OR COVER AT LEAST 75% OF THE DISTURBED SLOPE BY NOVEMBER 1, THEN THE CONTRACTOR WILL COVER THE SLOPE WITH AN ADDITIONAL LAYER OF WINTER MULCH APPLICATION, STONE RIPRAP, OR WOODWASTE COMPOST AS DESCRIBED BELOW.
   STABILIZE THE SLOPE WITH SOD: THE CONTRACTOR WILL STABILIZE THE DISTURBED SLOPE WITH PROPERLY INSTALLED SOD BY OCTOBER 1. PROPER INSTALLATION INCLUDES THE CONTRACTOR PINNING THE SOD ONTO THE SLOPE WITH WIRE PINS, ROLLING THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD AND UNDERLYING SOIL, AND WATERING THE SOD TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL. THE CONTRACTOR WILL NOT USE LATE-SEASON SOD INSTALLATION TO STABILIZE SLOPES HAVING A GRADE GREATER THAN 33%.
   STABILIZE THE SLOPE WITH EROSION CONTROL MIX: THE CONTRACTOR WILL PLACE A SIX-INCH LAYER OF EROSION CONTROL MIX ON THE SLOPE BY NOVEMBER 15. PRIOR TO PLACING THE EROSION CONTROL MIX, THE CONTRACTOR WILL REMOVE ANY SNOW ACCUMULATION ON THE DISTURBED SLOPE. THE CONTRACTOR WILL NOT USE EROSION CONTROL MIX TO STABILIZE SLOPES HAVING GRADES GREATER THAN 50% OR HAVING GROUNDWATER SEEPS ON THE SLOPE FACE.
   STABILIZE THE SLOPE WITH STONE RIPRAP: THE CONTRACTOR WILL PLACE A LAYER OF STONE RIPRAP ON THE SLOPE BY NOVEMBER 15. THE CONTRACTOR WILL HIRE A REGISTERED PROFESSIONAL ENGINEER TO DETERMINE THE STONE SIZE NEEDED FOR STABILITY AND TO DESIGN A FILTER LAYER FOR UNDERNEATH THE RIPRAP.
3. STANDARD FOR THE TIMELY STABILIZATION OF DISTURBED SOILS: BY SEPTEMBER 15, THE CONTRACTOR WILL SEED AND MULCH ALL DISTURBED SOILS ON AREAS HAVING A SLOPE LESS THAN 15%. IF THE CONTRACTOR FAILS TO STABILIZE THESE SOILS BY THIS DATE, THEN THE CONTRACTOR WILL TAKE ONE OF THE FOLLOWING ACTIONS TO STABILIZE THE SOIL FOR LATE FALL AND WINTER:
   STABILIZE THE SOIL WITH TEMPORARY VEGETATION: BY OCTOBER 1, THE CONTRACTOR WILL SEED THE DISTURBED SOIL WITH WINTER RYE AT A SEEDING RATE OF 3 POUNDS PER 1000 SQUARE FEET, LIGHTLY MULCH THE SEEDED SOIL WITH HAY OR STRAW AT 75 POUNDS PER 1000 SQUARE FEET, AND ANCHOR THE MULCH WITH PLASTIC OR JUTE NETTING. THE CONTRACTOR WILL MONITOR GROWTH OF THE RYE OVER THE NEXT 30 DAYS. IF THE RYE FAILS GROW AT LEAST THREE INCHES OR COVER AT LEAST 75% OF THE DISTURBED SOIL BEFORE NOVEMBER 15, THEN THE CONTRACTOR WILL MULCH THE AREA FOR OVER-WINTER PROTECTION AS DESCRIBED IN ONE OF THE ITEMS BELOW OF THIS STANDARD.
   STABILIZE THE SOIL WITH SOD: THE CONTRACTOR WILL STABILIZE THE DISTURBED SOIL WITH PROPERLY INSTALLED SOD BY OCTOBER 1. PROPER INSTALLATION INCLUDES THE CONTRACTOR PINNING THE SOD ONTO THE SOIL WITH WIRE PINS, ROLLING THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD AND UNDERLYING SOIL, AND WATERING THE SOD TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL.
   STABILIZE THE SOIL WITH MULCH: BY NOVEMBER 15, THE CONTRACTOR WILL MULCH THE DISTURBED SOIL BY SPREADING HAY OR STRAW AT A RATE OF AT LEAST 150 POUNDS PER 1000 SQUARE FEET ON THE AREA SO THAT NO SOIL IS VISIBLE THROUGH THE MULCH. PRIOR TO APPLYING THE MULCH, THE CONTRACTOR WILL REMOVE ANY SNOW ACCUMULATION ON THE DISTURBED AREA. IMMEDIATELY AFTER APPLYING THE MULCH, THE CONTRACTOR WILL ANCHOR THE MULCH WITH PLASTIC OR JUTE NETTING TO PREVENT WIND FROM MOVING THE MULCH OFF THE DISTURBED SOIL.



REVISIONS

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
AUBURN SUBURBAN BASEBALL & SOFTBALL
STEVENS MILL ROAD
AUBURN, MAINE

PREPARED BY:
JONES ASSOCIATES INC.
Foresters, Surveyors And Environmental Consultants
298 POLAND SPRING ROAD, AUBURN, MAINE 04210
(207) 241-0235

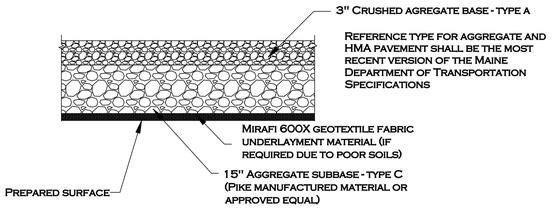
PREPARED FOR:
AUBURN SUBURBAN BASEBALL & SOFTBALL
PO BOX 1615
AUBURN, MAINE

SHEET: E-1

PLAN DATE: FEBRUARY 9, 2023

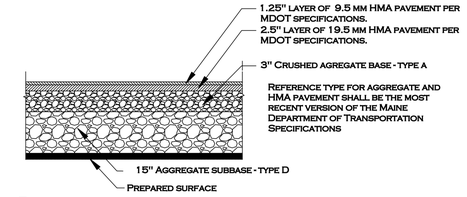
SCALE: N/A

PROJ. #:21-011AU



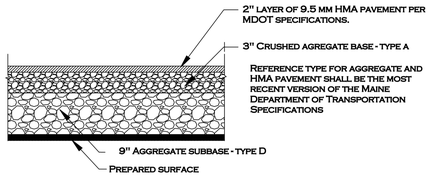
Typical gravel parking and driveways

NTS



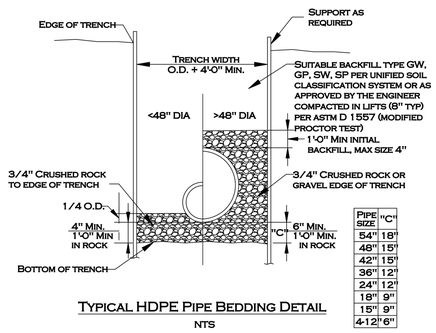
Typical paved parking and driveways

NTS



Typical Asphalt walkway detail

NTS



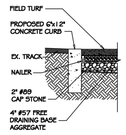
Pipe size	"C"
54"	18"
48"	15"
42"	15"
36"	12"
24"	12"
18"	9"
15"	9"
4-12"	6"

Typical HDPE Pipe Bedding Detail

NTS

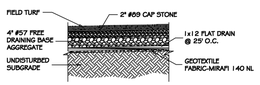
Transverse Section Through Field

ARTIFICIAL FIELD SURFACES AND UNDER FIELD DRAINAGE DETAILS SHOWN ARE FOR "FIELDTURF" ARTIFICIAL FIELD SURFACES, "FIELDTURF" ARTIFICIAL FIELD SURFACES AND UNDER FIELD DRAINAGE SYSTEMS AS SHOWN SHALL BE INSTALLED BY FIELDTURF OR THEIR APPROVED SUBCONTRACTOR. UNLESS AND ALTERNATIVE IS APPROVED BY THE ENGINEER.



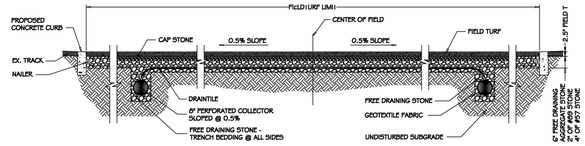
Curb detail

NTS



Sub drainage system

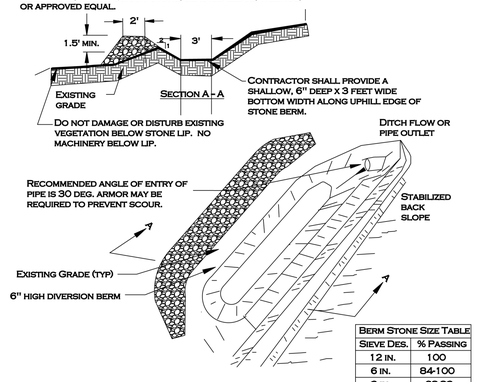
NTS



Transverse section through field

NTS

Stone level lip spreader shall have stone size in accordance with the table labeled Berm Stone Size. Stone shall be durable rock that will not disintegrate by exposure to water or weather. Stone may be fieldstone, rough quarry stone, blasted ledge, tailings, or approved equal.

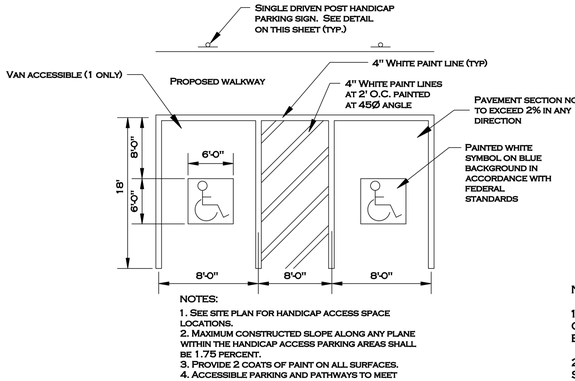


Berm Stone Size Table	
Sieve Des.	% Passing
12 in.	100
6 in.	84-100
3 in.	68-83
1 in.	42-55
No. 4	8-12

Construction Specifications

1. Spreaders shall be installed with a level instrument. Construct level lip to 0% grade to ensure uniform sheet flow. Level spreader shall be constructed on undisturbed soils (not fill.)
2. Select geotextile fabric for under rip rap outlet protection of culvert based on undisturbed soils (sand, silts, clays, etc.)
3. Storm run-off converted to sheet flow across outlet apron shall flow onto stabilized areas. Run-off shall not be reconnected immediately below the point of discharge.
4. Periodic inspection and required maintenance shall be provided.
5. Construction of level spreader lip shall be from uphill side only. Level lip and area below spreader shall be at existing grades and undisturbed by earthwork equipment.
6. Construct spreader with lip at existing elevation as specified.
7. Downgradient receiving area must be naturally well vegetated.
8. Discharge is not permitted within 25' of a stream or wetland. Consult DEP if structure must be within 75' of stream or water body.

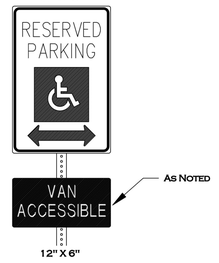
Stone Berm Level Lip Spreader



Notes:

1. See site plan for handicap access space locations.
2. Maximum constructed slope along any plane within the handicap access parking areas shall be 1.75 percent.
3. Provide 2 coats of paint on all surfaces.
4. Accessible parking and pathways to meet "ADA" requirements.

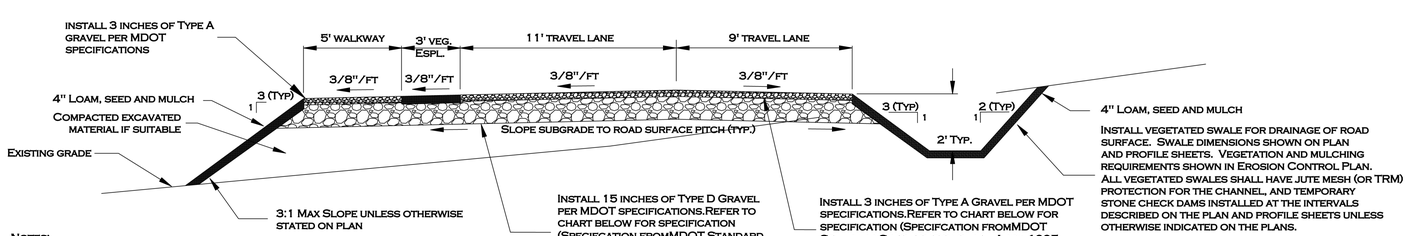
Handicap Van Accessible Reserved Parking



Notes:

1. See U.S. Department of Transportation manual on uniform traffic control devices, latest edition.

2. Contractor shall install post and signage as shown on this detail in order to meet ADA requirements.



Notes:

1. Entire width of roadway/driveway shall be stripped of all organic layers and all stumps and roots shall grubbed from the travel surface and shoulder areas.

2. Subgrade shall be sloped in such a manner as to promote water movement in subbase and base aggregate of road/driveway to side ditch or low side bank.

3. Vegetated shoulder shall be constructed with 2 inch layer of 50:50 loam/sand mix, which shall be seeded in accordance with the seed specification listed below:
   Creeping Red Fescue 20 lbs/acre
   Redtop 2 lbs/acre
   Tall Fescue 20 lbs/acre

4. This detail shows gravel portion of driveway. For pavement sections, dimensions and depths of aggregate are the same as shown on the detail above, only the top surface shall include
pavement depths in accordance with the other material details on this sheet.

	Percent Passing by Weight	
Sieve Size	Type A Base Gravel	Type D Subbase Gravel
1/2 inch	45-70	
1/4 inch	30-55	25-70
No. 40	0-20	0-30
No. 200	0-5.0	0-7.0

Note: All aggregate for base and subbase shall be free from vegetative matter, lumps or balls of clay, or organic matter.

Typical road/driveway cross section

NTS

Revisions			
No.	Date	Description	By
1	3/1/23	Removed parking area detail and added road/driveway cross section	JR

Project name:

AUBURN SUBURBAN BASEBALL & SOFTBALL

STEVENS MILL ROAD
AUBURN, MAINE

Prepared by:

JONES ASSOCIATES INC.
Foresters, Surveyors And Environmental Consultants
280 POLAND SPRING ROAD, AUBURN, MAINE 04210
(207) 241-0235

Prepared for:

AUBURN SUBURBAN BASEBALL & SOFTBALL
PO BOX 1615
AUBURN, MAINE

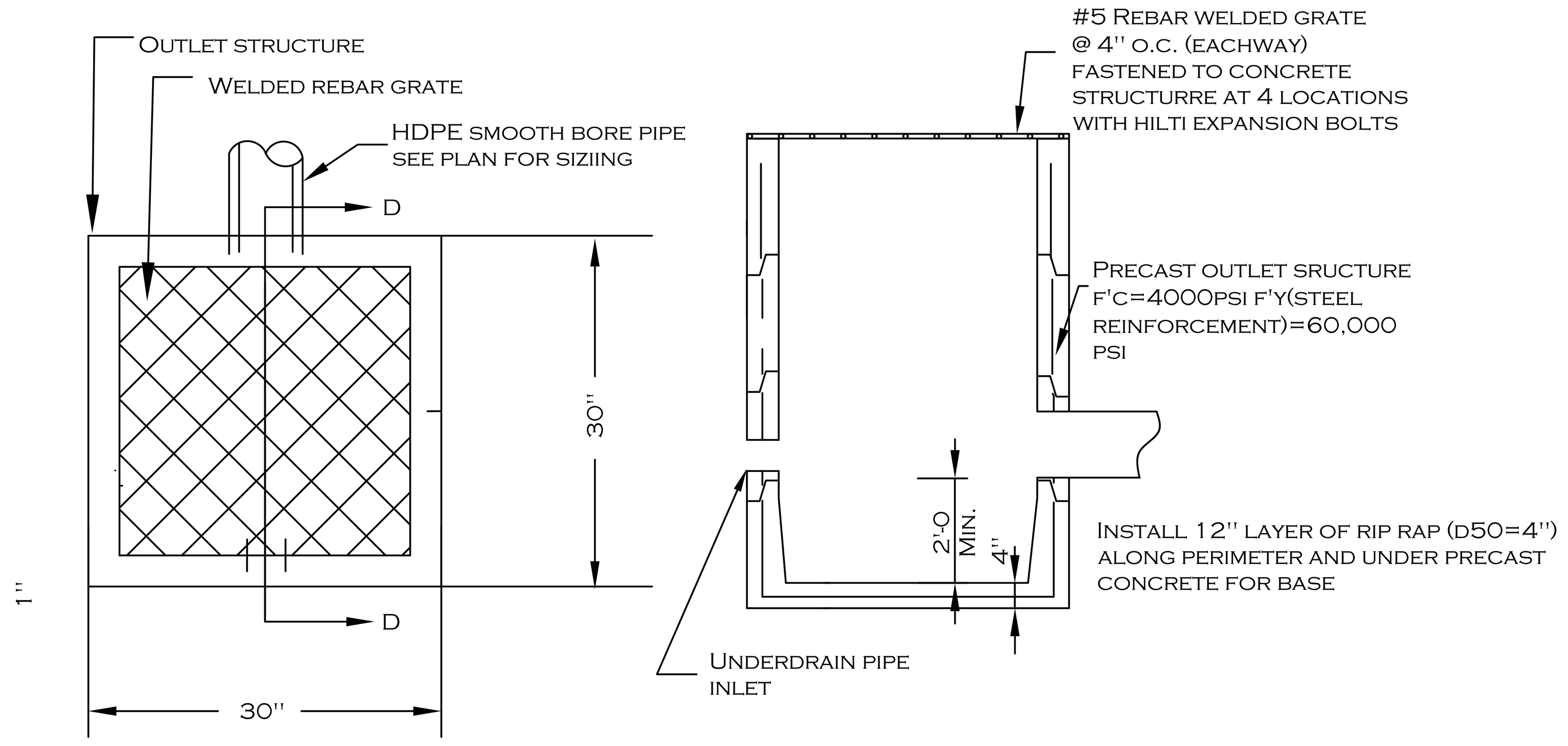
Sheet:

E-2

Plan date:
FEBRUARY 9, 2023

SCALE: N/A

PROJ. #:21-011AU



Biofilter Outlet Structure Detail

NTS

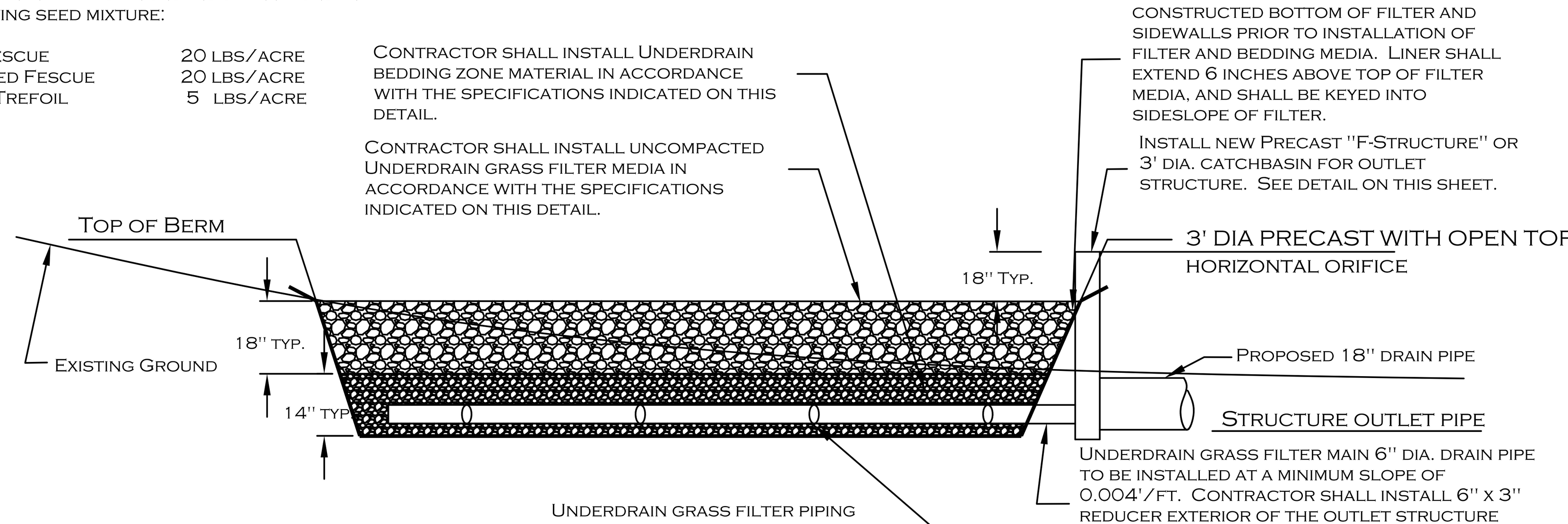
Notes:

1. During excavation for the filter, the Contractor shall be careful not to overexcavate the area under the filter. If filters are on fill sites, Contractor shall ensure that soils below the filters are compacted to a density of 95% of the optimum density for the subgrade soils.
2. The Contractor shall temporarily stabilize the filter sideslopes with geotextile or other approved means to prevent erosion until vegetation has been established.
3. Filter side slopes shall be covered with a 4 inch layer of compacted loam, seeded and mulched (above underdrain grass filter).
4. The soil filter shall be used as a temporary sediment trap during constructuion of the projectand until the area is stabilized. Stabilization is indicated by vegetative cover of at least 75 percent of disturbed areas.
5. The Contractor shall install a sacrificial layer of sandy loam, 2-3" deep throughout filter area to be left in place for one full year from the date of completion of the site and storm water construction. After this year, assuming all areas are stabilized, the Contractor shall remove the top 2-3 inch layer and spread the disposed material on site outside of the filter, and seed the disposed material.
6. Filter must drain with in 24 and 48 hours.
7. Sediment trap must be installed at the entrance to the grass filter from vegetative ditches or culverts to reduce/eliminate sediment loading to grass filter.
8. If vegetation has not establishing itself within a reasonable growth period, the contractor shall install 2-3 inches of loam (w/less than 1% clay content) on the surface of the grass filter (uncompacted), and reseed wtih underdrain grass filter seed mix. If additional loam will be provided for grass growth, an equal depth of media will need to be removed. Contractor shall seed the filter media according to the specifications listed on this detail and mulch the filter media with straw mulch after seeding is complete. Contractor shall NOT fertilize the filter media area.

Underdrain grass filters must be seeded and mulched to promote grass growth.

Seed mixture for Underdrain grass filter for bottom of filter and side slopes shall include the following seed mixture:

Tall Red Fescue	20 lbs/acre
Creeping Red Fescue	20 lbs/acre
Birdsfoot Trefoil	5 lbs/acre



Contractor shall install a 3" dia. PVC ball valve onto the underdrain pipe inside the outlet structure in order to control draining of filter bed. Install 3" curb stop to rim of outlet structure and brace with stainless steel supports to structure to allow operation of valve. Valve is proposed to allow operator to drain the storage volume in the filter system in a time period no less than 24 hours and no more than 48 hours.

Inspection of the grass filter shall be provided for each phase of construction of each grass filter by the design and third party engineer. See the description on this Sheet for the MDEP requirements.

For sizing and elevations of underdrain grass filters, see Sheet 1 of this plan set.

Underdrain Grass Filter Section View (Typ.)

NTS

Grass filter media shall meet the following specifications.

6" thick soil transition zone (between pipe bedding and filter material) Sieve #	% Passing	Underdrain pipe bedding Sieve #	% Passing
1"	90-100	1"	100
1/2"	75-100	3/4"	90-100
# 4	50-100	3/8"	0-75
# 20	15-80	# 4	0-25
# 50	0-15	# 10	0-5
# 200	0-5		

Soil Filter Media

Soil filter media shall be composed of a thoroughly blended mixture of materials meeting the following specifications:

> Silty sand soil or soil mixture combined with 20-25 percent by volume (no less than 10% by dry weight) of moderately fine shredded bark or wood fiber mulch .

Resulting mix of soil filter media must have no less than 8 percent passing the No. 200 Sieve.

Media shall have a maximum clay content less than 2 percent.

All filter bed media materials must be tested by geotechnical laboratory, and approvedby the design engineer prior to use. Contractor shall identify the location of the source of filter media (i.e., self developed, purchased, etc.) . Tests shall include the following:

1. silty/sand component sieve analysis
2. Fine shredded bark or wood fiber mulch sieve analysis
3. Organic material sieve anaysis
4. Hydrometer test (clay content) in mixed material
5. Permeability rate at optimimal laboratory density

All test results shall be submitted to the Design engineer prior to mixing of the material, and also prior to shipping of the material after mixing.

Underdrain Grass Filter Construction Oversight Req.

construction oversight

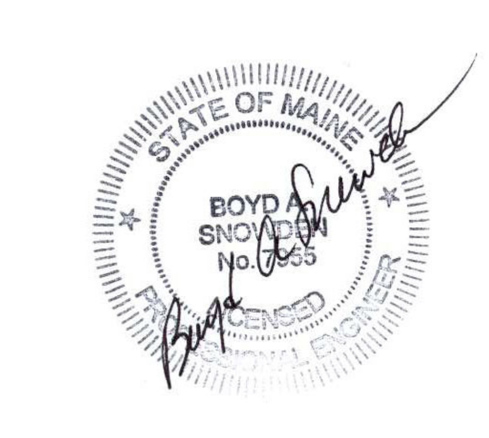
The applicant will retain the services of a professional engineer to inspect the construction and stabilization of all stormwater management structures to be built as part of the project. If necessary, the inspecting engineer will interpret the construction plans for the contractor. Once all stormwater management structures are constructed and stabilized, the inspecting engineer will notify the department in writing within 30 days to state that the structures have been completed. Accompanying the engineer's notification must be a copy of the test results for any soil fill, aggregate, or mulch materials used in the construction of the stormwater management structures and a log of the engineer's inspections giving the date of each inspection, the time of each inspection, and the items inspected on each visit.

VEGETATED UNDERDRAINED SOIL FILTER BASINS

Construction inspections: At a minimum, the professional engineer's inspection will occur after foundation soil preparation but prior to placement of the embankment fill, after any impermeable liner is installed, after the underdrain pipes are installed but not yet backfilled, after the pipe bedding fill is placed but prior to the placement of the transition layer gravel, and after the transition layer and filter media have been placed and the filter surface seeded.

Testing and submittals: All the soil, mulch, and aggregate used for the construction of the vegetated underdrain soil filter basin must be confirmed as suitable by testing. The contractor shall identify the source of each material and obtain samples for each material for testing. All testing must be done by a certified laboratory. All results of field and laboratory testing shall be submitted to the project engineer for confirmation. It shall be the contractor's responsibility to ensure completion of the following sampling and testing before the fill or aggregate is placed as part of the vegetated underdrain soil filter basin's construction.

- Obtain a sample of the filter media consisting of a blend of sand, topsoil, and wood fiber mulch (or other approved organic source). The sample must be a composite of three different locations (grabs) from the stockpile. The sample size required will be determined by the testing laboratory. Perform analyses of the blended filter media showing it has 8% to 12% by weight passing the #200 sieve as determined by ASTM C136 (Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates 1996A), has a clay content of less than 2%, and has an organic matter content of no less than 10% by dry weight.
- Obtain a sample of the transition layer gravel fill to be used above the pipe bedding. The sample must be a composite of three different locations (grabs) from the stockpile or pit face. The sample size required will be determined by the testing laboratory. Perform a sieve analysis conforming to ASTM C136 (Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates 1996A) of the gravel to be used for the underdrain pipe bedding. The gravel fill must conform to MEDOT specification 703.22 Underdrain Type B.
- If the underdrain pipes will be bedded in crushed stone, obtain a sample of the crushed stone to be used for the pipe bedding. The sample must be a composite of three different locations (grabs) from the stockpile. The sample size required will be determined by the testing laboratory. Perform a sieve analysis conforming to ASTM C136 (Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates 1996A) of the crushed stone to be used for the underdrain pipe bedding. The crushed stone fill must conform to MEDOT specification 703.22 Underdrain Type C.



REVISIONS			
NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
AUBURN SUBURBAN BASEBALL & SOFTBALL
STEVENS MILL ROAD
AUBURN, MAINE

PREPARED BY:
JONES ASSOCIATES INC.
Foresters, Surveyors, Soil Scientists, Environmental Consultants
280 POLAND SPRING ROAD, AUBURN, MAINE 04210
(207) 241-0235

PREPARED FOR:
AUBURN SUBURBAN BASEBALL & SOFTBALL
PO BOX 1615
AUBURN, MAINE

SHEET: E-3

PLAN DATE: FEBRUARY 9, 2023

SCALE: N/A

PROJ. #:21-011AU