



November 21, 2022

Mr. Adam L. Duchesneau, AICP
Director Planning and Community Development
Town of Sudbury
278 Old Sudbury Road
Sudbury, Massachusetts 01776

**Re: Second Response to Peer Review of Stormwater Management Permit Application
Nobscoot Scout Reservation Trail Improvement Project
1 Nobscoot Road, Sudbury, MA**

Dear Mr. Duchesneau and Board Members:

Howard Stein Hudson (HSH) has reviewed the Horsley Witten Group comments on behalf of the Town of Sudbury dated October 27, 2022 and offers the following responses:

Sheet 3 (4) of 21 (22): Legion Cabin and Gen John Nixon Trail – Station 112+00 to 118+00

1st Comment: *Review use of firewood in Conservation Restriction, may be okay to use down trees but this should not be considered an automatic approval.*

2nd comment: *The Applicant has clarified the use of downed trees for firewood. HW does not have a copy of the Conservation Restriction to confirm the proposed use. HW defers further discussion to the Conservation Commission.*

Response: **Not all downed trees are used for firewood. Most downed trees left in place to provide habitat for wildlife.**

Sheet 4 (5) of 21 (22): White Ridge Trail – Station 119+00 to 125+00

1st Comment: *Excessive sediment on trail to be removed.*

2nd comment: *HW comment stands, however we understand from our site visit this is the intent*

Response: **The erosion controls in place and all disturbed areas will be continually inspected and any sediment build-up will be removed.**

1st Comment: *Concern with invasives within swales after land disturbance. Hydroseed immediately and monitor.*



2nd Comment: *The Applicant has indicated hydroseeding has been included as part of the stabilization plan. It also noted all graded areas will be monitored for invasives. The Conservation Commission may choose to include this as a Special Condition.*

Response: The applicant has agreed to monitoring the invasives within the work zone using Lucas Environmental.

1st Comment: *Level spreader may be needed around Station 124+25 to slow flow and reduce erosion.*

2nd Comment: *The Applicant has stated that a level spreader has been added. However, it is not called out on the plan. HW recommends that the Applicant call out the level spreader and provide a detail.*

Response: A precast concrete level spreader and detail has been added to the plans.

Sheet 5 (6) of 21 (22): Monson Trail – Station 400+00 to 407+00

1st Comment: *HW recommends installing water bars along trail with professional oversight.*

2nd Comment: *The Applicant added additional water bars to the area. The Conservation Commission may choose to require professional oversight wherever water bars, check dams, or level spreaders are proposed.*

Response: The installation of the level spreader will be over seen by the Project Engineer from HSH.

1st Comment: *Sediment in path around Station 403+75 should be removed and replaced with stone. Document where sediment that will be removed will be placed temporarily and permanently.*

2nd Comment: *The Applicant has stated that sediment removed from the area will be moved off-site to a maintenance facility. It has also stated that any stockpiled areas will be located outside the wetlands and buffer areas. The Conservation Commission may choose to include restrictions to the location of stockpiles as a Special Condition. It may be useful to have the restrictions included on the cover sheet.*

Response: Comment noted, Commission to make the determine on any special conditions.

Sheet 8 (9) of 21 (22): Legion Trail – Station 1+00 to 8+00



1st Comment: *Placement of 6-foot-long concrete footings for wooden platform at Station 1+00 to be done by hand. Other footing types instead of heavy concrete footings may be considered.*

2nd Comment: *The Applicant has noted that this area may be in water for extended periods and considered concrete may be the most practical. It has noted all work in this area to be completed by hand. The Commission may choose to include as a Special Condition that the work is to be conducted by hand or it may prefer that the Applicant add a note to the plan.*

Response: A note has been added to the plans specifying that bridge footings proposed within wetlands should be installed by hand. Installation of the bridge will be overseen by the project engineer.

1st Comment: *Applicant to review all areas of land disturbance. Areas within wetlands receiving stone should be considered a permanent impact and not temporary.*

2nd Comment: *The Applicant has noted that areas of compacted paths being restored with stone within wetland areas are previously impacted and should not be considered temporary. Furthermore, it states areas within wetlands with stone cover would not require replication as there is no wetland loss at this location due to an existing trail. It is HW's opinion that any wetland area receiving crushed stone should be considered a permanent impact. The wetland areas where crushed stone exists and is being replaced may be considered temporary impacts.*

Response: This issue was discussed in the field with members of the Conservation Commission and the Conservation Commission Agent. HSH considers the placement of stone within the existing trail limits as a temporary impact as the wetland has already been degraded by its use as a trail. If, however, the placement of stone changes the grade by more than 12-inches it is assumed that this is a permanent impact and loss of wetland as it removes its hydraulic connection to the surrounding wetland. In this event as discussed in the field, rather than clear vegetated areas to provide replication areas a more robust invasive species monitoring program will be put in place.

Sheet 9 (10) of 21 (22): Muskie Trail – Station 9+00 to 15+00

1st Comment: *Applicant to review all areas of land disturbance. Areas within wetlands receiving stone should be considered a permanent impact and not temporary. Culvert crossing is permanent impact.*



2nd Comment: *The Applicant agrees that the proposed culvert crossing is a permanent impact. However, it has noted that areas of compacted paths being restored with stone within wetland areas are previously impacted and should not be considered temporary. It is HW's opinion that any wetland area receiving crushed stone should be considered a permanent impact. HW agrees that the placement of the crushed stone is beneficial to avoid widening of the trail from pedestrian traffic. However, we still consider it a permanent impact.*

Response: **This comment is very similar to the previous comment. A more robust invasive species monitoring program will be put in place.**

1st Comment: *Invasive species in this area are a concern, including poison ivy, specifically north side of trail for 25 feet beyond proposed grading, south side is also a problem but not as severe. Invasive management plan should be reviewed with Conservation Commission. Replant disturbed area with shrubs and spray seed mix. Weed Warrior program was discussed. Applicant should explain how it intends to restore the temporary impacts to the wetlands in this area.*

2nd Comment: *The Applicant has stated temporary impacts are to be loamed and hydroseeded with a wetland seed mix. Upland areas will be hydroseeded. It also noted the goal for volunteers to be trained to identify invasives. The Conservation Commission may choose to include management of invasives along the trail as a Special Condition.*

Response: **As previous discussed at the last NOI hearing, the intent and agreement is to have Lucas Environmental provide invasive management over the work areas, while the volunteers in coordination with the SVT (weed warrior program), Lucas Environmental, and the Sudbury Conservation Agent will define an invasive management plan for a larger areas of the trail system, outside of the work zones.**

1st Comment: *There is a trail to the Peabody Camp site. Questions were raised during site walk on how this trail is accessed by the campers with special needs.*

2nd Comment: *The Applicant has stated that the trail system is not ADA accessible and groups with special needs will need to coordinate access with Mayflower Council's Camping and Program Director. HW defers further discussion to the Conservation Commission.*

Response: **There is an ADA accessible cabin at the main entrance to the trail system. Any other special arrangements for people with accessibility issues are coordinated with Camp staff before arriving at the reservation.**



Sheet 10 (11) of 21 (22): Little Sachem Bridge, Legion Trail – Station 16+00 to 17+00

1st Comment: *Keep utility pole acting as headwall.*

2nd Comment: *The Applicant has stated that the utility pole will need to be removed for installation of the bridge footing and joints. It is not clear on the plans where the utility pole is located and whether it will be replaced. HW recommends that the Applicant provide clarification.*

Response: All utility poles used as a headwall (spacers) between the utility pole joists beams are to be removed are replaced with timber spacers (2"x12") that will act as a headwall. The location of the existing utility pole headwalls have been added to the plans.

Sheet 16 (17) - 18 (19) of 21 (22): Gen John Nixon Trail – Station 200+00 to 226+00

1st Comment: *Applicant to review all areas of land disturbance. Areas within wetlands receiving stone should be considered a permanent impact and not temporary.*

2nd Comment: *The Applicant has noted that areas of compacted paths being restored with stone within wetland areas are previously impacted and should not be considered temporary. It is HW's opinion that any wetland area receiving crushed stone should be considered a permanent impact. HW agrees that the placement of the crushed stone is beneficial to avoid widening of the trail from pedestrian traffic. However, we still consider it a permanent impact.*

Response: This comment is similar to others and has previously been addressed.

Sheet 20 (21) of 21 (22): NIPMUC Trail – Station 314+00 to 319+00 and Belden Bridge

1st Comment: *Area that appears to be used by dogs to access stream should be planted with native vegetation that will discourage access. Within or adjacent to proposed wetland mitigation area.*

2nd Comment: *The Applicant has stated this may not be a deterrent enough to stop dogs from entering the stream and suggests signage. HW agrees signage would be helpful for leashing dogs. HW still recommends plantings as a physical barrier to the stream area. HW defers to the Commission on any conditions implemented for this location.*



Response: Elderberry bushes have been added along the trail to protect the wetland replication area adjacent to the Belden Bridge and deter dogs and pedestrians from accessing the stream in this area.

Please contact me at (617) 348-3310 or jdowning@hshassoc.com if you have any additional questions or comments.

Sincerely,

James Downing
Project Manager

cc: MassDEP Division of Wetlands & Waterways, Northeast Regional Office
Massachusetts Natural Heritage & Endangered Species Program (electronic copy)
Lucas Environmental, LLC (electronic copy)
Property Owner & Applicant – Mayflower Council, Boy Scouts of America (electronic copy)

SITE PLAN FOR NOBSCOT SCOUT RESERVATION TRAIL PROJECT SUDBURY AND FRAMINGHAM, MA.

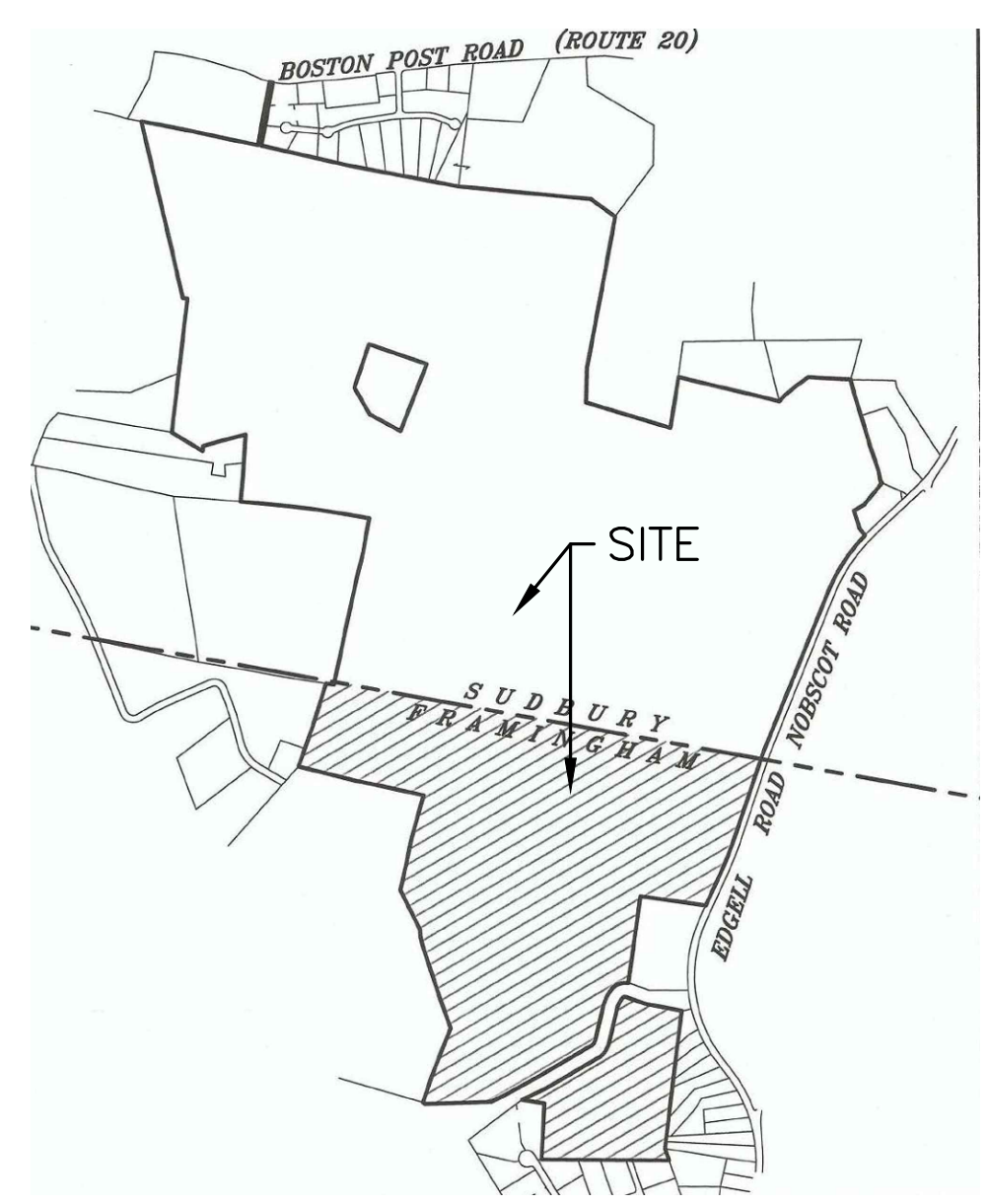
HOWARD STEIN HUDSON
11 Beacon Street, Suite 1010
Boston, MA 02108
www.hshassoc.com

PREPARED FOR:
BOY SCOUTS OF AMERICA
MAYFLOWER COUNCIL
83 CEDAR STREET
MILFORD, MA 01757

NOBSCOT SCOUT
RESERVATION TRAIL
PROJECT
FRAMINGHAM AND SUDBURY, MA
WORCESTER COUNTY

GENERAL NOTES:

1. EXISTING PROPERTY LINE AND UTILITY INFORMATION SHOWN IS BASED ON AN EXISTING SURVEY CONDUCTED BY FELDMAN LAND SURVEYORS REVISED THROUGH 04-13-2022.
2. WETLAND DELINEATION COMPLETED BY LUCAS ENVIRONMENTAL, LLC UPDATED THROUGH MARCH 17, 2022.
3. "WF" SERIES REFER TO BORDERING VEGETATED WETLANDS, UNLESS OTHERWISE NOTED OR LABELED.
4. "BF" SERIES REFER TO INLAND BANK, UNLESS OTHERWISE NOTED OR LABELED.
5. THE 100-FOOT BUFFER ZONE IN THE TOWN OF SUDBURY IS DESIGNATED AS THE ADJACENT UPLAND RESOURCE AREA.
6. WF-J CONTAINS A CERTIFIED VERNAL POOL.
7. THE LIMIT OF WORK AREA IS LOCATED WITHIN ESTIMATED HABITAT FOR RARE WILDLIFE (EH 622) AND PRIORITY HABITAT FOR RARE SPECIES (PH 669).
8. THE ACCURACY AND COMPLETENESS OF THE UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION, SIZE, TYPE, ETC. OF ALL UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY THE WORK. AT LEAST 72 HOURS BEFORE EXCAVATION, THE CONTRACTOR SHALL BE REQUIRED TO CONTACT DIGSAFE AT 1-888-344-7233.
9. THE CONTRACTOR SHALL FIELD VERIFY CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
10. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE APPROPRIATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION.
11. ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE NOTIFIED, INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN, PRIOR TO EXCAVATING, BLASTING, INSTALLING, BACKFILLING, GRADING, PAVEMENT RESTORATION OR REPAVING.
12. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES EXCEPT THOSE NOTED TO BE ABANDONED, REMOVED AND DISPOSED.
13. THE CONTRACTOR SHALL DISPOSE OF ALL WASTE MATERIAL IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS AT HIS/HER OWN EXPENSE, OUTSIDE OF THE PROJECT LIMITS.
14. THE SILT FENCE WILL BE INSTALLED AS CONSTRUCTION PROGRESSES IN AREAS SHOWN ON THE PLANS. IT WILL NOT BE INSTALLED SIMULTANEOUSLY THROUGHOUT THE SITE.
15. THE SILT FENCE IS TO BE USED AS THE TURTLE PROTECTION BARRIER IN ADDITION TO USE AS AN EROSION CONTROL DEVICE.
16. CONTRACTOR SHALL INSTALL A PLYWOOD CONSTRUCTION ACCESS BARRIER FOR TURTLE PROTECTION. THE BARRIER SHALL BE REMOVED AND REPLACED DAILY OR WHEN ACCESS IS NECESSARY.
17. GIS TOPOGRAPHIC INFORMATION PROVIDED FOR WOODED AREAS TO SUPPLEMENT THE SURVEY PROVIDED BY FELDMAN LAND SURVEYORS.



OWNER
BOY SCOUTS OF AMERICA
MAYFLOWER COUNCIL
83 CEDAR STREET
MILFORD, MA 01757

FRAMINGHAM ASSESSORS INFORMATION

ASSESSORS MAP 008 BLOCK 01 LOT 2517
ASSESSORS MAP 008 BLOCK 11 LOT 7059
ASSESSORS MAP 015 BLOCK 19 LOT 6802

SUDBURY ASSESSORS INFORMATION

ASSESSORS MAP L BLOCK 05 LOT 0001
ASSESSORS MAP L BLOCK 05 LOT 0003
ASSESSORS MAP L BLOCK 05 LOT 0004
ASSESSORS MAP L BLOCK 05 LOT 0005
ASSESSORS MAP L BLOCK 05 LOT 0007
ASSESSORS MAP L BLOCK 05 LOT 0200
ASSESSORS MAP L BLOCK 06 LOT 0009

REFERENCES

1. EXISTING CONDITIONS SURVEY BY FELDMAN LAND SURVEYORS.

REVISIONS:

NO	BY	DATE	DESCRIPTION
1	JC	10/24/22	REVIEW REVISIONS
2	JC	11/21/22	REVIEW REVISIONS #2

SHEET INDEX

SHEET 1	COVER SHEET
SHEET 2	PARTIAL EXISTING CONDITIONS PLAN
SHEET 3	KEY PLAN
SHEET 4-21	CONSTRUCTION PLANS
SHEET 22	DETAIL SHEET

NOBSCOT SCOUT
RESERVATION TRAIL
PROJECT
1 NOBSCOT ROAD
SUDBURY MA 01776

NOTICE OF INTENT
PERMIT SET

COVER
SHEET



Mihov

DATE:	11/21/2022
PROJECT NUMBER:	16033.02
DESIGNED BY:	JBC
DRAWN BY:	JBC
CHECKED BY:	REL

11/21/2022...16033\CURRENT\CUTS\SHEETS\16033 NOI Cover Sheet.dwg
Joseph Connolly



I CERTIFY THAT THIS PLAN IS BASED ON AN ACTUAL FIELD SURVEY.

10/21/22

TIMOTHY R. AGURKIS, PLS (MA# 52782)
TR@FELDMANGEO.COM

DATE



PARTIAL EXISTING CONDITIONS PLAN
NOBSCOT RESERVATION
**SUDBURY &
FRAMINGHAM, MASS.**

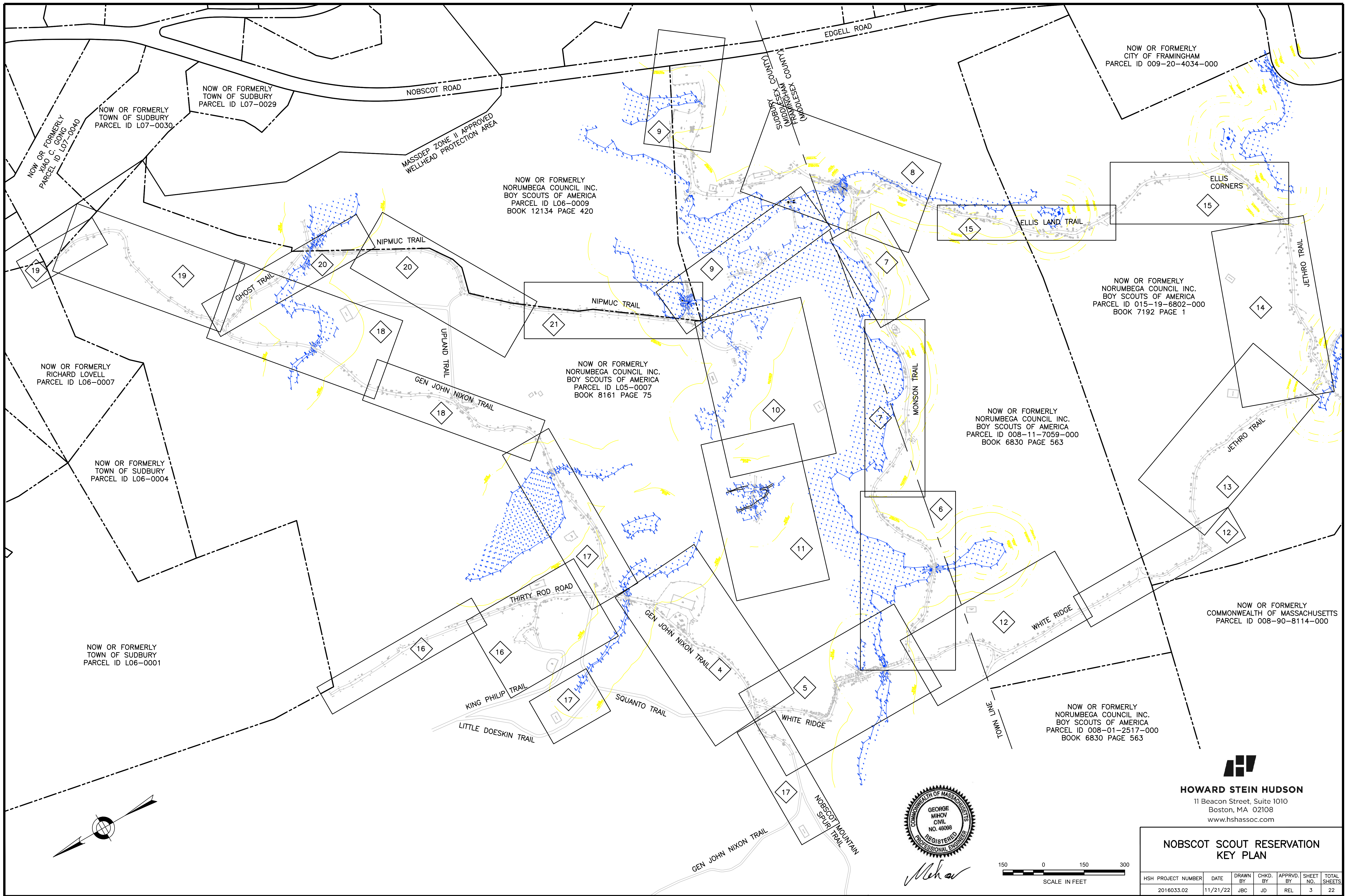
FELDMAN GEOSPATIAL
152 HAMPDEN STREET
BOSTON, MASS. 02119

APRIL 5, 2022
PHONE: (617)357-9740
www.feldmangeospatial.com



SCALE: 1"=200'

RESEARCH	FIELD CHIEF	PROJ MGR	APPROVED	SHEET NO.	OF
CALC	CADD	FIELD CHECKED	CRD FILE	JOB NO.	2200117
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TOWN OF SUDBURY
PARCEL ID L07-0030

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TOWN OF SUDBURY
PARCEL ID L07-0029

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CITY OF FRAMINGHAM
PARCEL ID 009-20-4034-000

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RICHARD LOVELL
PARCEL ID L06-0007

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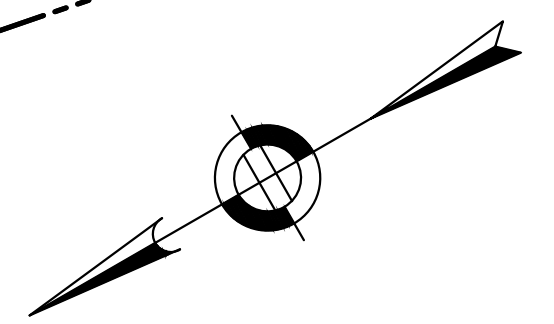
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TOWN OF SUDBURY
PARCEL ID L06-0001

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COMMONWEALTH OF MASSACHUSETTS
PARCEL ID 008-90-8114-000

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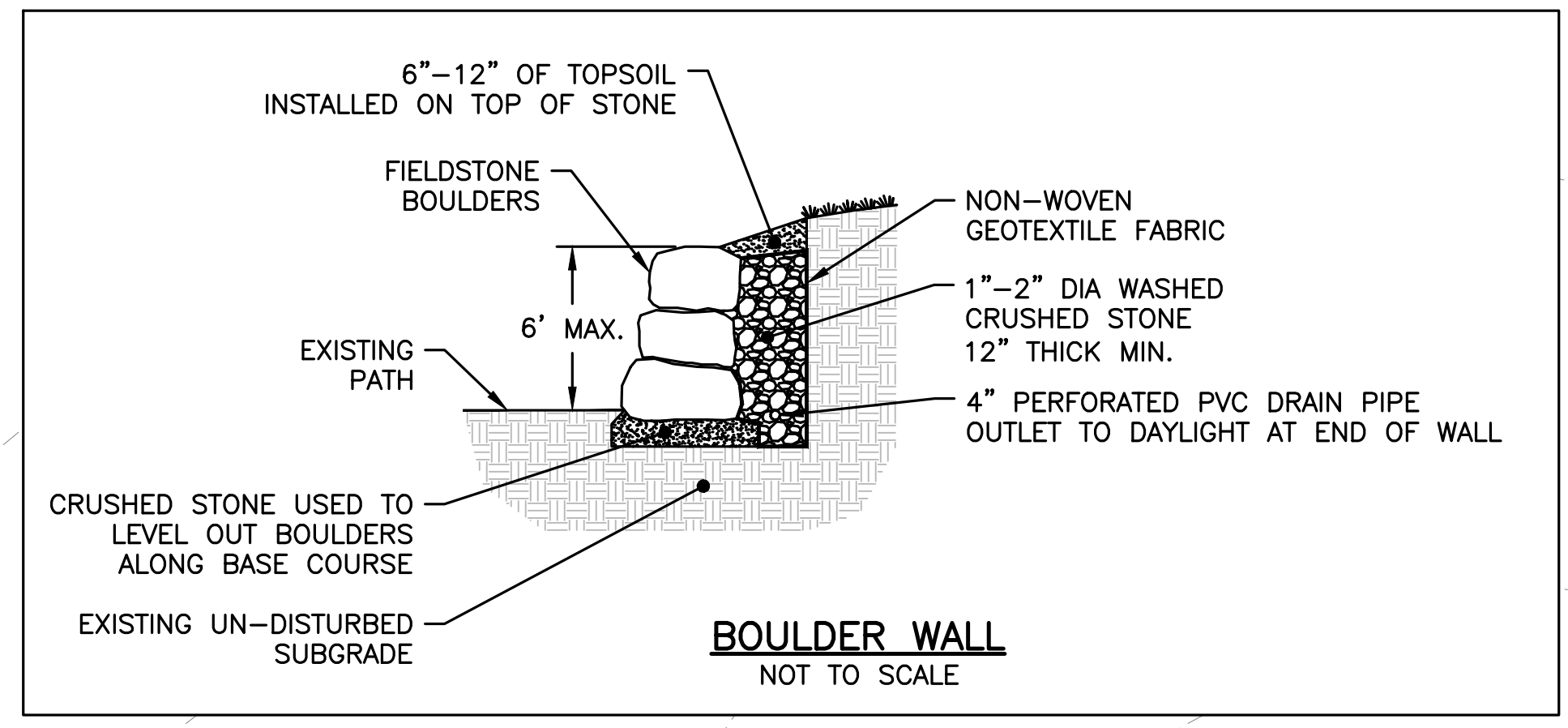
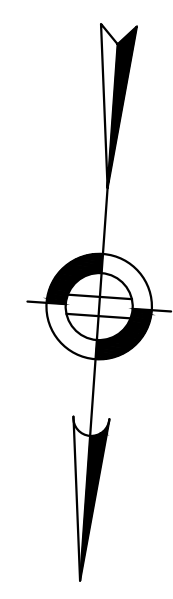


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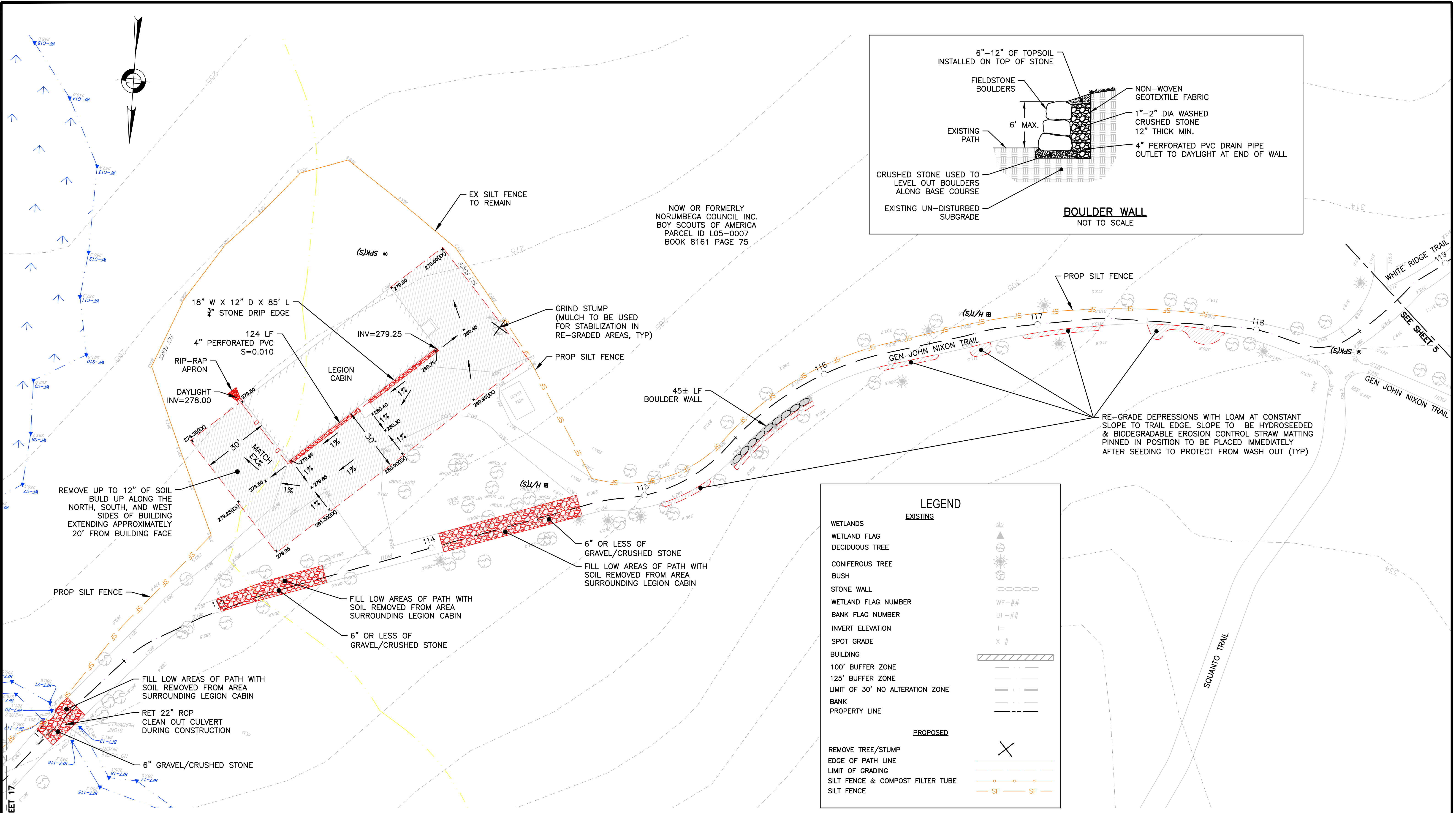
**NOBSCOT SCOUT RESERVATION
KEY PLAN**

HSH PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
2016033.02	11/21/22	JBC	JD	REL	3	22

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LEGEND	
EXISTING	
WETLANDS	
WETLAND FLAG	
DECIDUOUS TREE	
CONIFEROUS TREE	
BUSH	
STONE WALL	
WETLAND FLAG NUMBER	WF-##
BANK FLAG NUMBER	BF-##
INVERT ELEVATION	=
SPOT GRADE	X #
BUILDING	
100' BUFFER ZONE	
125' BUFFER ZONE	
LIMIT OF 30' NO ALTERATION ZONE	
BANK	
PROPERTY LINE	
PROPOSED	
REMOVE TREE/STUMP	
EDGE OF PATH LINE	
LIMIT OF GRADING	
SILT FENCE & COMPOST FILTER TUBE	
SILT FENCE	

DESCRIPTION OF DISTURBANCE	HATCH	AREA
PERMANENT UPLAND IMPACT		142 SF
TEMPORARY UPLAND IMPACT		7,990 SF
PERMANENT WETLAND IMPACT		0 SF
TEMPORARY WETLAND IMPACT		0 SF
PERMANENT BANK IMPACT	N/A	0 SF
TEMPORARY BANK IMPACT	N/A	0 LF
30' NO ALTERATION ZONE IMPACT		N/A
50' NO BUILD ZONE IMPACT		N/A
100' WETLAND BUFFER IMPACT	N/A	1,205 SF

STA 112+00-112+20 6" GRAVEL/CRUSHED STONE
 STA 113+10-113+50 6" GRAVEL/CRUSHED STONE
 STA 114+05-114+70 6" GRAVEL/CRUSHED STONE



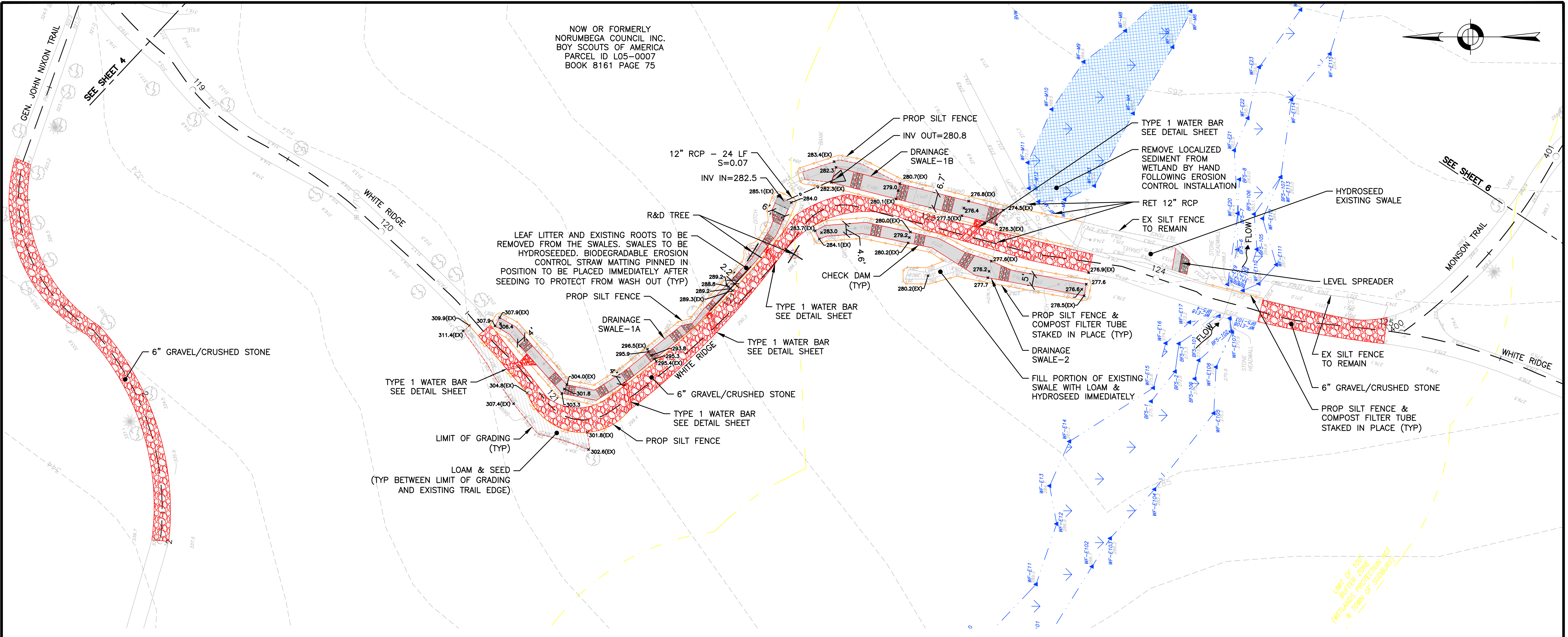
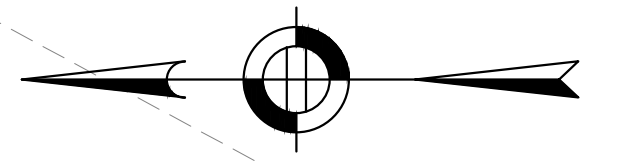
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**NOBSCOT SCOUT RESERVATION
 PERMITTING & CONSTRUCTION PLANS**

HSH PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
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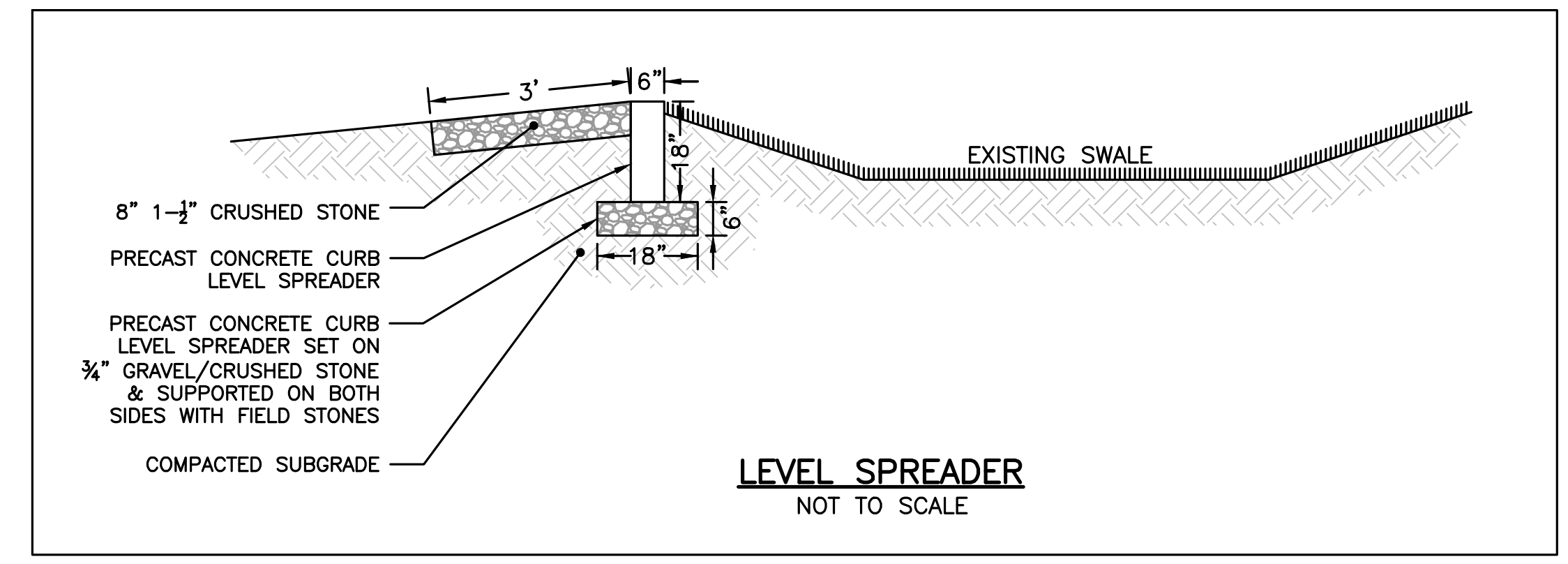
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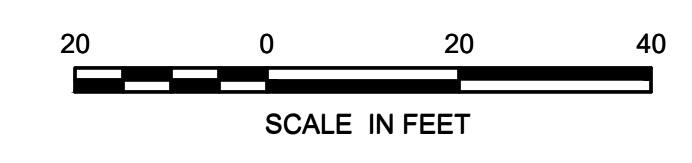


STA 0+85-2+35 6\"/>

DESCRIPTION OF DISTURBANCE	HATCH	AREA
PERMANENT UPLAND IMPACT	[Hatched Pattern]	1,855 SF
TEMPORARY UPLAND IMPACT	[Hatched Pattern]	4,654 SF
PERMANENT WETLAND IMPACT	[Blue Hatched Pattern]	0 SF
TEMPORARY WETLAND IMPACT	[Blue Hatched Pattern]	2,542 SF
PERMANENT BANK IMPACT	N/A	0 SF
TEMPORARY BANK IMPACT	N/A	0 LF
30' NO ALTERATION ZONE IMPACT	[Yellow Hatched Pattern]	N/A
50' NO BUILD ZONE IMPACT	[Yellow Hatched Pattern]	N/A
100' WETLAND BUFFER IMPACT	N/A	2,849 SF



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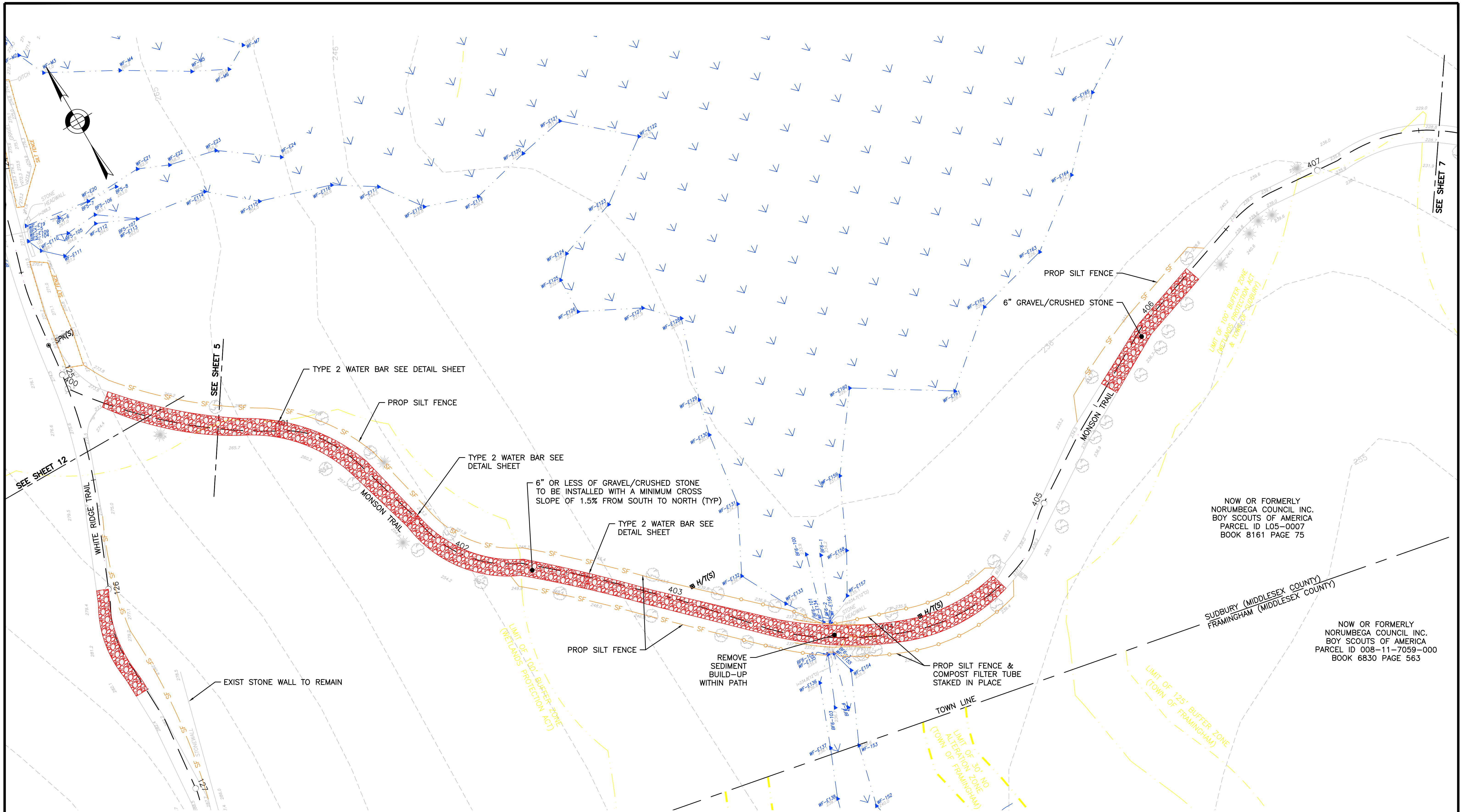


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2016033.02	11/21/22	JBC	JD	REL	5	22

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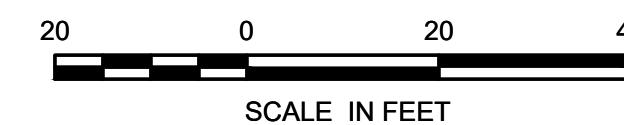


DESCRIPTION OF DISTURBANCE	HATCH	AREA
PERMANENT UPLAND IMPACT	[Solid Grey Hatch]	0 SF
TEMPORARY UPLAND IMPACT	[Diagonal Line Hatch]	3,990 SF
PERMANENT WETLAND IMPACT	[Blue Hatch]	0 SF
TEMPORARY WETLAND IMPACT	[Blue Diagonal Hatch]	0 SF
PERMANENT BANK IMPACT	N/A	0 SF
TEMPORARY BANK IMPACT	N/A	0 LF
30' NO ALTERATION ZONE IMPACT	[Yellow Hatch]	N/A
50' NO BUILD ZONE IMPACT	[Yellow Diagonal Hatch]	N/A
100' WETLAND BUFFER IMPACT	N/A	2,470 SF

STATION 400+17-404+57 - 6" GRAVEL/CRUSHED STONE
STATION 405+60-406+25 - 6" GRAVEL/CRUSHED STONE



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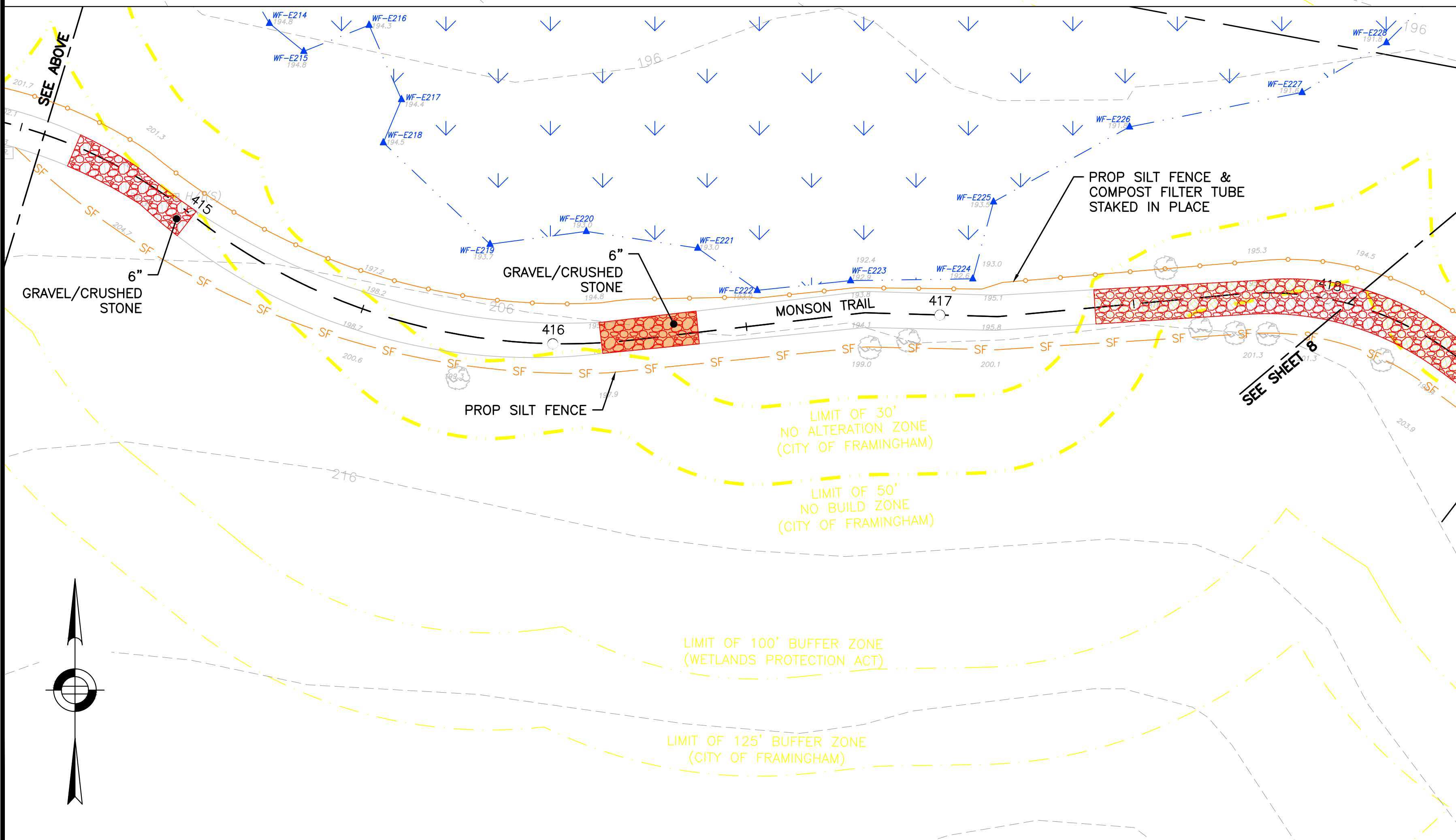
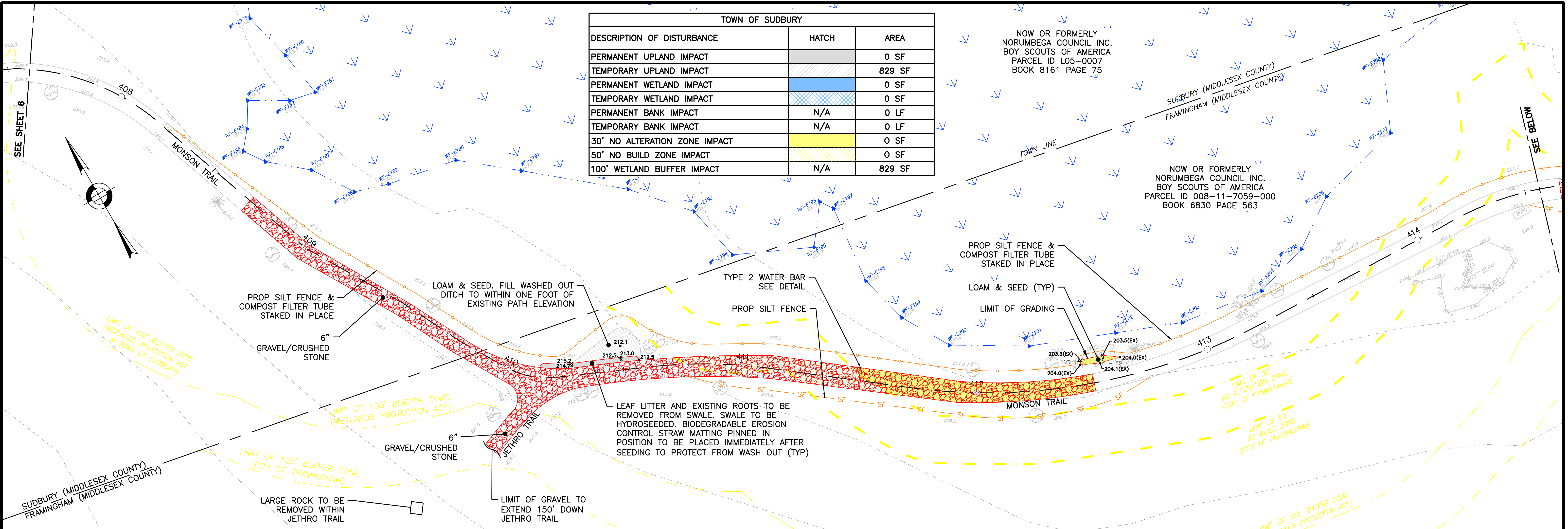
**NOBSCOT SCOUT RESERVATION
PERMITTING & CONSTRUCTION PLANS**

HSH PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
2016033.02	11/21/22	JBC	JD	REL	6	22

TOWN OF SUDBURY		
DESCRIPTION OF DISTURBANCE	HATCH	AREA
PERMANENT UPLAND IMPACT	[Hatched]	0 SF
TEMPORARY UPLAND IMPACT	[Hatched]	829 SF
PERMANENT WETLAND IMPACT	[Blue Hatched]	0 SF
TEMPORARY WETLAND IMPACT	[Blue Hatched]	0 SF
PERMANENT BANK IMPACT	N/A	0 LF
TEMPORARY BANK IMPACT	N/A	0 LF
30' NO ALTERATION ZONE IMPACT	[Yellow Hatched]	0 SF
50' NO BUILD ZONE IMPACT	[Yellow Hatched]	0 SF
100' WETLAND BUFFER IMPACT	N/A	829 SF

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STA 408+70-412+50 6" GRAVEL/CRUSHED STONE
STA 414+65-415+00 6" GRAVEL/CRUSHED STONE
STA 416+13-416+38 6" GRAVEL/CRUSHED STONE
STA 417+40-419+05 6" GRAVEL/CRUSHED STONE

CITY OF FRAMINGHAM		
DESCRIPTION OF DISTURBANCE	HATCH	AREA
PERMANENT UPLAND IMPACT	[Hatched]	82 SF
TEMPORARY UPLAND IMPACT	[Hatched]	4,656 SF
PERMANENT WETLAND IMPACT	[Blue Hatched]	0 SF
TEMPORARY WETLAND IMPACT	[Blue Hatched]	0 SF
PERMANENT BANK IMPACT	N/A	0 LF
TEMPORARY BANK IMPACT	N/A	0 LF
30' NO ALTERATION ZONE IMPACT	[Yellow Hatched]	1,046 SF
50' NO BUILD ZONE IMPACT	[Yellow Hatched]	592 SF
100' WETLAND BUFFER IMPACT	N/A	3,680 SF



Mihov

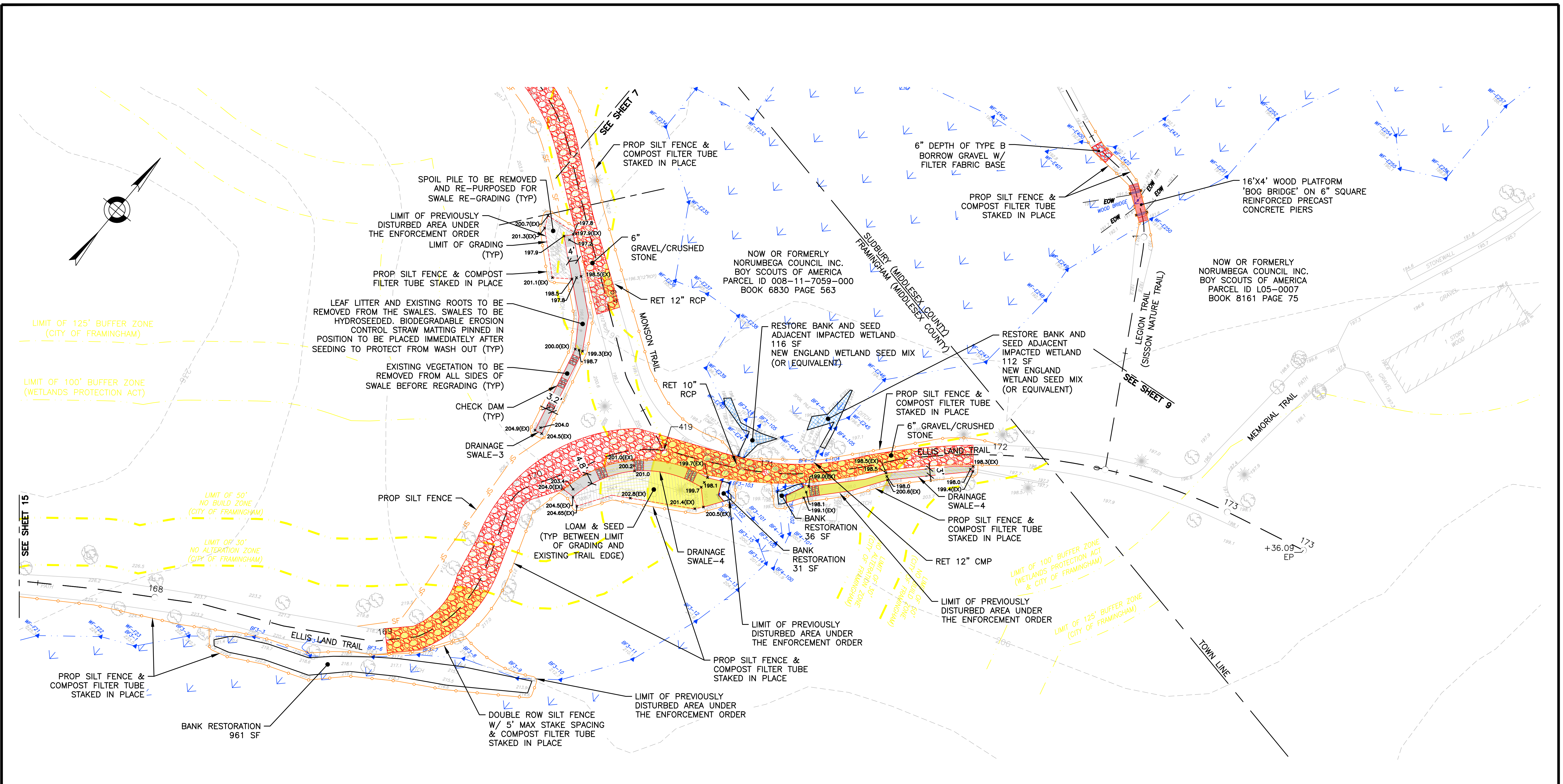
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**NOBSCOT SCOUT RESERVATION
CONSTRUCTION PLANS**

HSH PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
2016033.01	11/21/22	JBC	JD	REL	7	22



11/21/2022 L:\16033\CURRENT\OUTSHEET\16033_NOT PLANS_SWALES.dwg Joseph Connolly



STA 169+00-171+90 6" GRAVEL/CRUSHED STONE
 STA 1+38-1+46 6" TYPE B GRAVEL BORROW W/ FILTER FABRIC BASE

CITY OF FRAMINGHAM		
DESCRIPTION OF DISTURBANCE	HATCH	AREA
PERMANENT UPLAND IMPACT	[Hatch]	958 SF
TEMPORARY UPLAND IMPACT	[Hatch]	5,247 SF
PERMANENT WETLAND IMPACT	[Hatch]	0 SF
TEMPORARY WETLAND IMPACT	[Hatch]	229 SF
PERMANENT BANK IMPACT	N/A	0 LF
TEMPORARY BANK IMPACT	N/A	161 LF
30' NO ALTERATION ZONE IMPACT	[Hatch]	2,151 SF
50' NO BUILD ZONE IMPACT	[Hatch]	4,715 SF
100' WETLAND BUFFER IMPACT	N/A	6,205 SF

TOWN OF SUDBURY		
DESCRIPTION OF DISTURBANCE	HATCH	AREA
PERMANENT UPLAND IMPACT	[Hatch]	0 SF
TEMPORARY UPLAND IMPACT	[Hatch]	2 SF
PERMANENT WETLAND IMPACT	[Hatch]	11 SF
TEMPORARY WETLAND IMPACT	[Hatch]	38 SF
PERMANENT BANK IMPACT	N/A	0 LF
TEMPORARY BANK IMPACT	N/A	0 LF
30' NO ALTERATION ZONE IMPACT	[Hatch]	0 SF
50' NO BUILD ZONE IMPACT	[Hatch]	0 SF
100' WETLAND BUFFER IMPACT	N/A	2 SF



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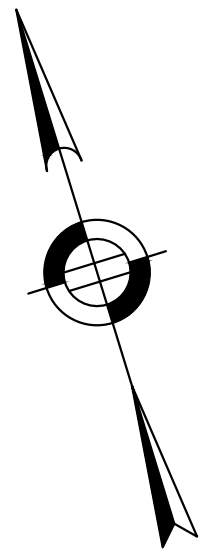
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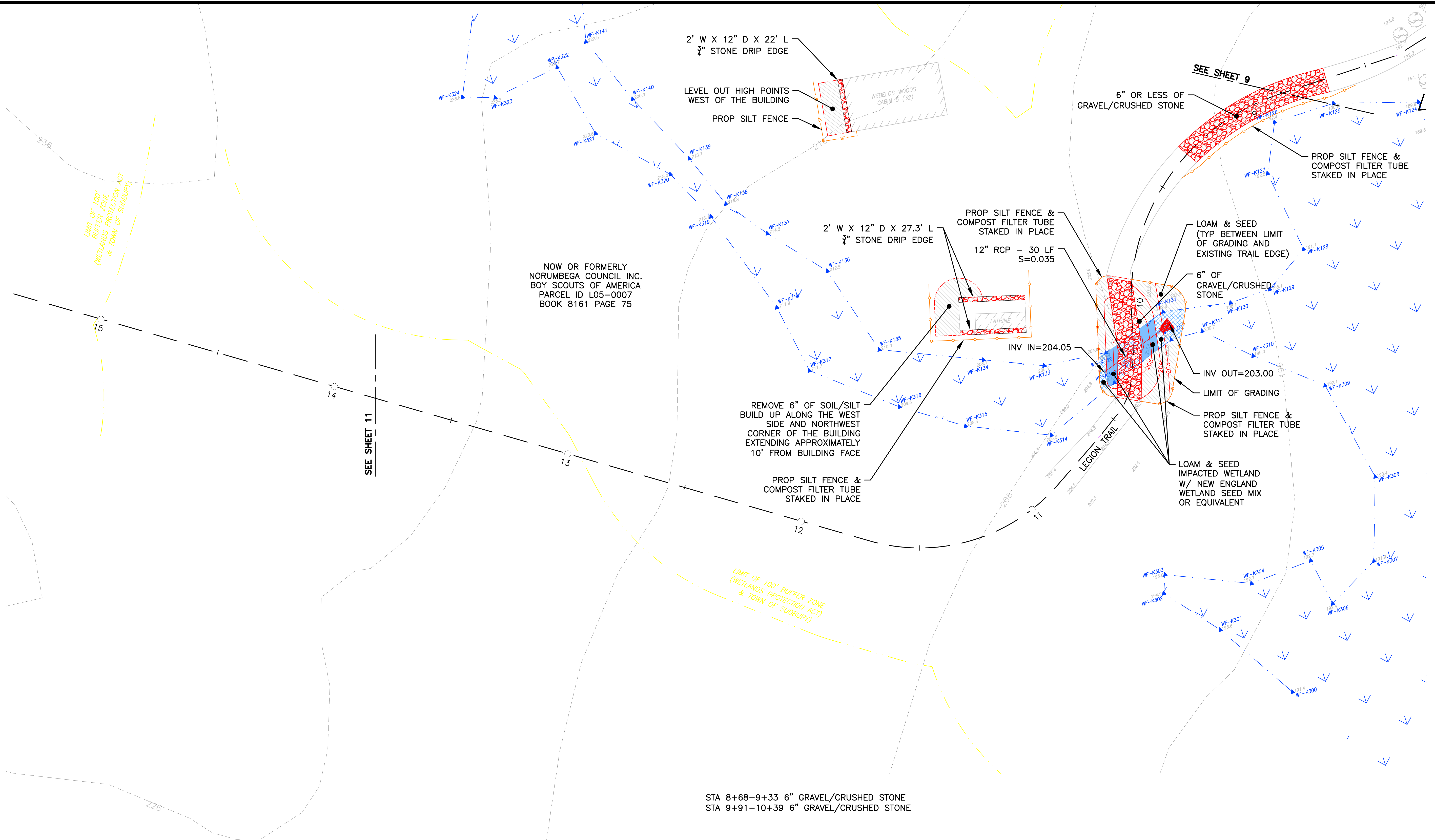
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2016033.02	11/21/22	JBC	JD	REL	8	22



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LIMIT OF 100' BUFFER ZONE (WETLANDS PROTECTION ACT & TOWN OF SUDBURY)



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2' W X 12" D X 22' L 3/4" STONE DRIP EDGE

LEVEL OUT HIGH POINTS WEST OF THE BUILDING
PROP SILT FENCE

2' W X 12" D X 27.3' L 3/4" STONE DRIP EDGE

PROP SILT FENCE & COMPOST FILTER TUBE STAKED IN PLACE
12" RCP - 30 LF S=0.035

6" OR LESS OF GRAVEL/CRUSHED STONE

PROP SILT FENCE & COMPOST FILTER TUBE STAKED IN PLACE

LOAM & SEED (TYP BETWEEN LIMIT OF GRADING AND EXISTING TRAIL EDGE)

6" OF GRAVEL/CRUSHED STONE

INV IN=204.05
INV OUT=203.00

LIMIT OF GRADING
PROP SILT FENCE & COMPOST FILTER TUBE STAKED IN PLACE

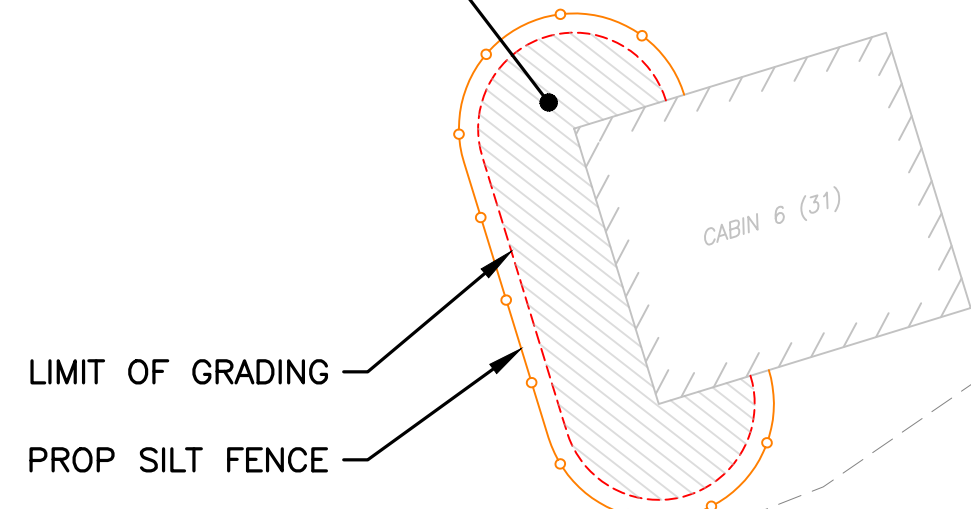
LOAM & SEED IMPACTED WETLAND W/ NEW ENGLAND WETLAND SEED MIX OR EQUIVALENT

REMOVE 6" OF SOIL/SILT BUILD UP ALONG THE WEST SIDE AND NORTHWEST CORNER OF THE BUILDING EXTENDING APPROXIMATELY 10' FROM BUILDING FACE

PROP SILT FENCE & COMPOST FILTER TUBE STAKED IN PLACE

STA 8+68-9+33 6" GRAVEL/CRUSHED STONE
STA 9+91-10+39 6" GRAVEL/CRUSHED STONE

REMOVE 6" OF SOIL/SILT BUILD UP ALONG THE WEST SIDE, NORTHWEST CORNER, AND SOUTHWEST CORNER OF THE BUILDING EXTENDING APPROXIMATELY 10' FROM BUILDING FACE



DESCRIPTION OF DISTURBANCE	HATCH	AREA
PERMANENT UPLAND IMPACT		0 SF
TEMPORARY UPLAND IMPACT		3,010 SF
PERMANENT WETLAND IMPACT		178 SF
TEMPORARY WETLAND IMPACT		167 SF
PERMANENT BANK IMPACT	N/A	0 SF
TEMPORARY BANK IMPACT	N/A	0 LF
30' NO ALTERATION ZONE IMPACT		N/A
50' NO BUILD ZONE IMPACT		N/A
100' WETLAND BUFFER IMPACT	N/A	2,396 SF



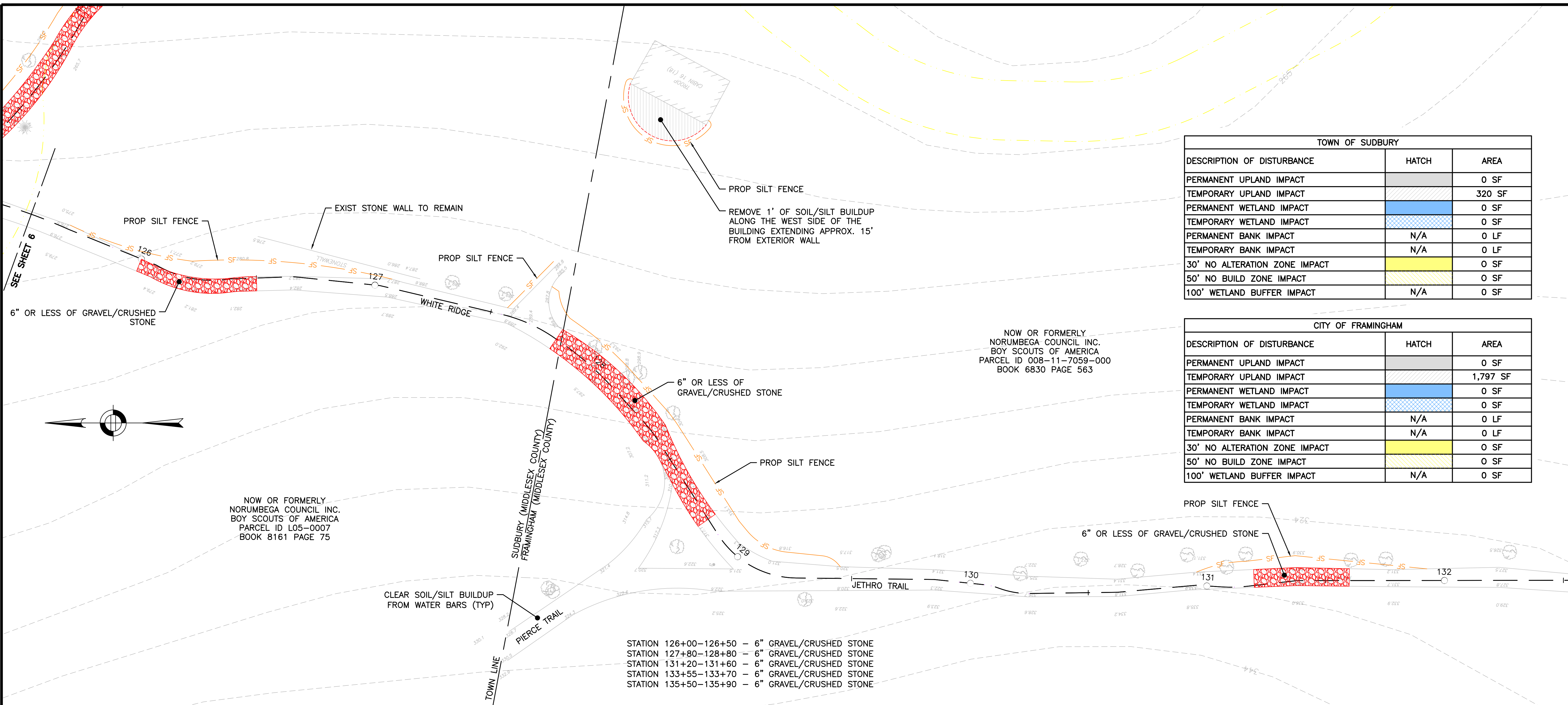
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2016033.02	11/21/22	JBC	JD	REL	10	22

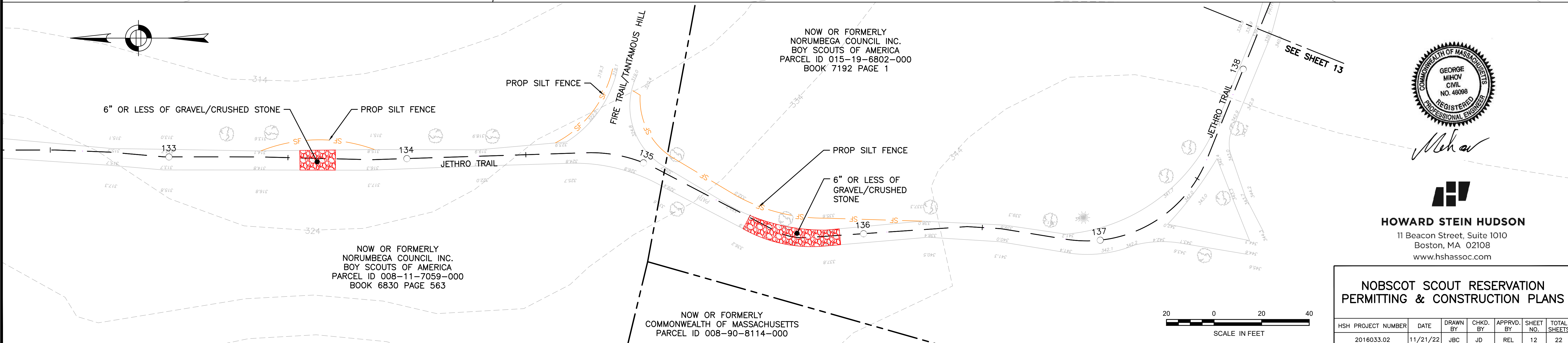




TOWN OF SUDBURY		
DESCRIPTION OF DISTURBANCE	HATCH	AREA
PERMANENT UPLAND IMPACT	[Hatched]	0 SF
TEMPORARY UPLAND IMPACT	[Hatched]	320 SF
PERMANENT WETLAND IMPACT	[Blue Hatched]	0 SF
TEMPORARY WETLAND IMPACT	[Blue Hatched]	0 SF
PERMANENT BANK IMPACT	N/A	0 LF
TEMPORARY BANK IMPACT	N/A	0 LF
30' NO ALTERATION ZONE IMPACT	[Yellow Hatched]	0 SF
50' NO BUILD ZONE IMPACT	[Yellow Hatched]	0 SF
100' WETLAND BUFFER IMPACT	N/A	0 SF

CITY OF FRAMINGHAM		
DESCRIPTION OF DISTURBANCE	HATCH	AREA
PERMANENT UPLAND IMPACT	[Hatched]	0 SF
TEMPORARY UPLAND IMPACT	[Hatched]	1,797 SF
PERMANENT WETLAND IMPACT	[Blue Hatched]	0 SF
TEMPORARY WETLAND IMPACT	[Blue Hatched]	0 SF
PERMANENT BANK IMPACT	N/A	0 LF
TEMPORARY BANK IMPACT	N/A	0 LF
30' NO ALTERATION ZONE IMPACT	[Yellow Hatched]	0 SF
50' NO BUILD ZONE IMPACT	[Yellow Hatched]	0 SF
100' WETLAND BUFFER IMPACT	N/A	0 SF

- STATION 126+00-126+50 - 6" GRAVEL/CRUSHED STONE
- STATION 127+80-128+80 - 6" GRAVEL/CRUSHED STONE
- STATION 131+20-131+60 - 6" GRAVEL/CRUSHED STONE
- STATION 133+55-133+70 - 6" GRAVEL/CRUSHED STONE
- STATION 135+50-135+90 - 6" GRAVEL/CRUSHED STONE



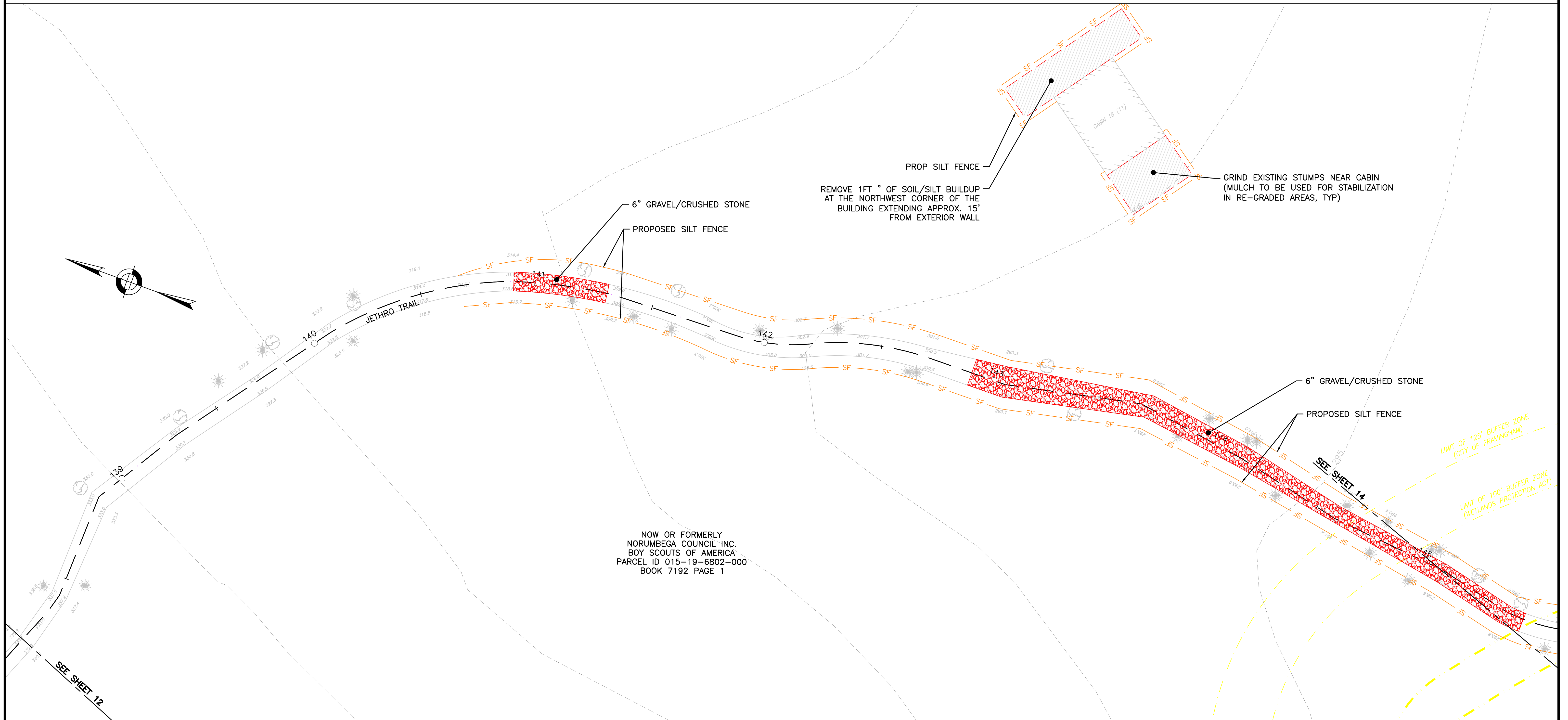
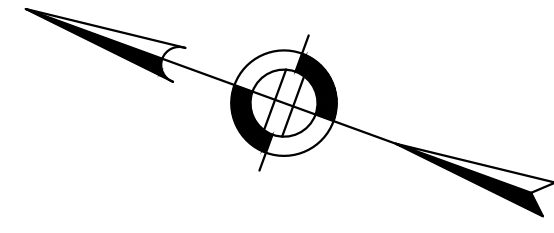
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2016033.02	11/21/22	JBC	JD	REL	12	22





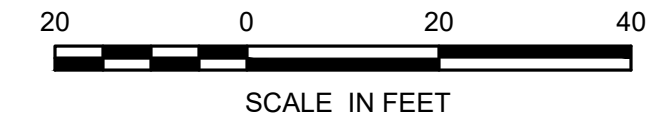
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 BOY SCOUTS OF AMERICA
 PARCEL ID 015-19-6802-000
 BOOK 7192 PAGE 1

STATION 140+90-141+30 - 6" GRAVEL/CRUSHED STONE
 STATION 142+90-145+50 - 6" GRAVEL/CRUSHED STONE

DESCRIPTION OF DISTURBANCE	HATCH	AREA
PERMANENT UPLAND IMPACT	[Hatched]	0 SF
TEMPORARY UPLAND IMPACT	[Hatched]	4,255 SF
PERMANENT WETLAND IMPACT	[Blue Hatched]	0 SF
TEMPORARY WETLAND IMPACT	[Blue Hatched]	0 SF
PERMANENT BANK IMPACT	N/A	0 LF
TEMPORARY BANK IMPACT	N/A	0 LF
30' NO ALTERATION ZONE IMPACT	[Yellow Hatched]	0 SF
50' NO BUILD ZONE IMPACT	[Yellow Hatched]	0 SF
100' WETLAND BUFFER IMPACT	N/A	462 SF



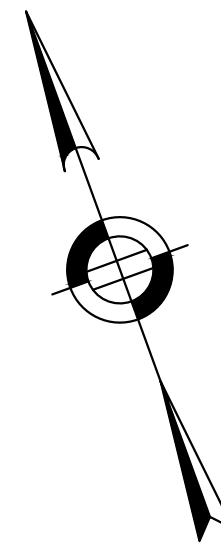
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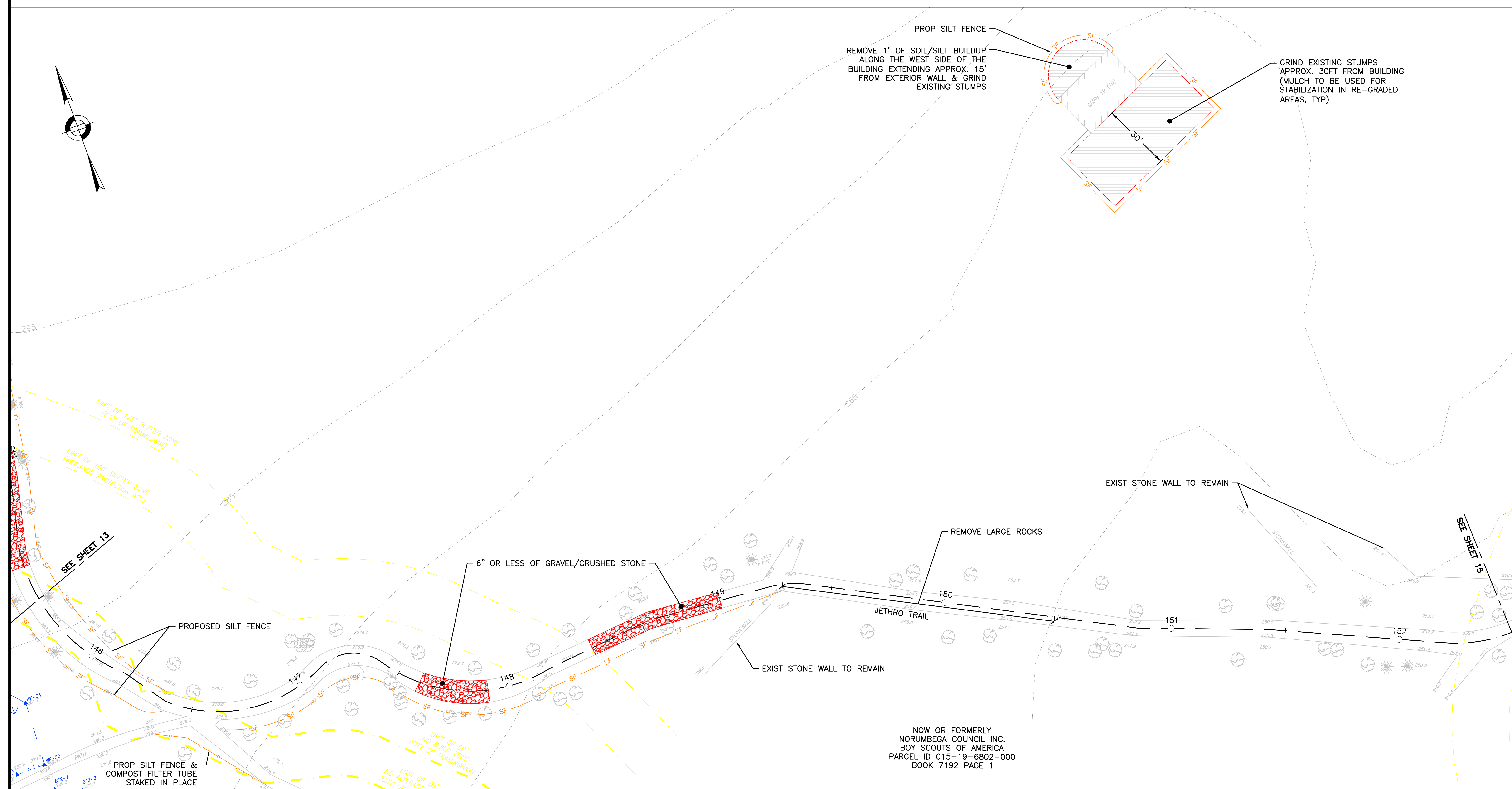
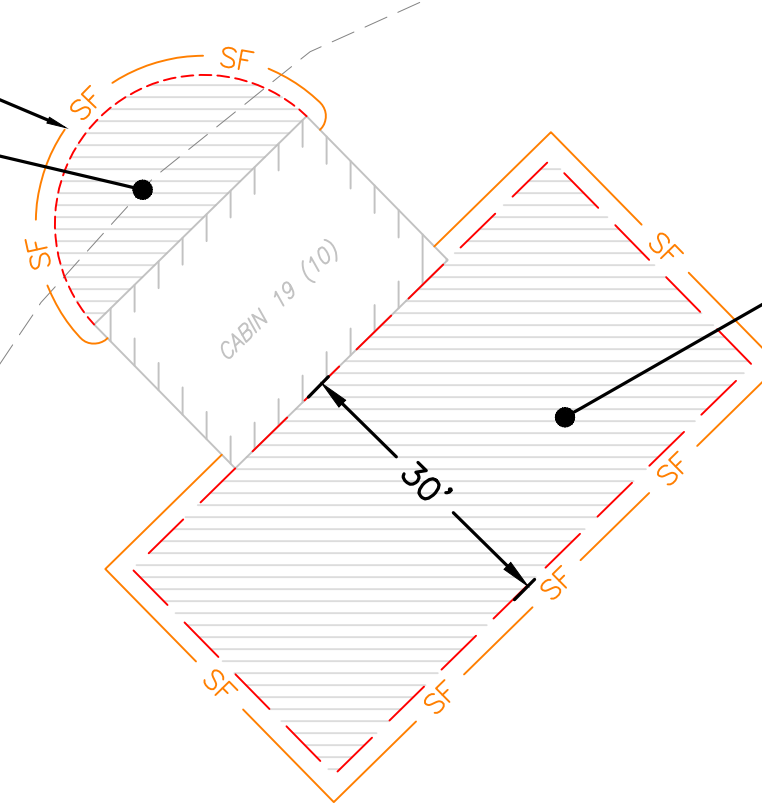
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2016033.02	11/21/22	JBC	JD	REL	13	22



PROP SILT FENCE
 REMOVE 1' OF SOIL/SILT BUILDUP
 ALONG THE WEST SIDE OF THE
 BUILDING EXTENDING APPROX. 15'
 FROM EXTERIOR WALL & GRIND
 EXISTING STUMPS

GRIND EXISTING STUMPS
 APPROX. 30FT FROM BUILDING
 (MULCH TO BE USED FOR
 STABILIZATION IN RE-GRADED
 AREAS, TYP)



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DESCRIPTION OF DISTURBANCE	HATCH	AREA
PERMANENT UPLAND IMPACT	[Hatched]	0 SF
TEMPORARY UPLAND IMPACT	[Hatched]	2,933 SF
PERMANENT WETLAND IMPACT	[Hatched]	0 SF
TEMPORARY WETLAND IMPACT	[Hatched]	0 SF
PERMANENT BANK IMPACT	N/A	0 LF
TEMPORARY BANK IMPACT	N/A	0 LF
30' NO ALTERATION ZONE IMPACT	[Hatched]	0 SF
50' NO BUILD ZONE IMPACT	[Hatched]	0 SF
100' WETLAND BUFFER IMPACT	N/A	300 SF

STATION 147+60-147+90 - 6" GRAVEL/CRUSHED STONE
 STATION 148+40-149+00 - 6" GRAVEL/CRUSHED STONE
 STATION 149+30-150+50 - REMOVE LARGE ROCKS

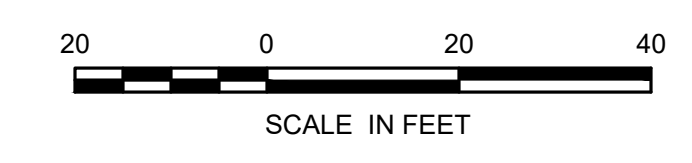


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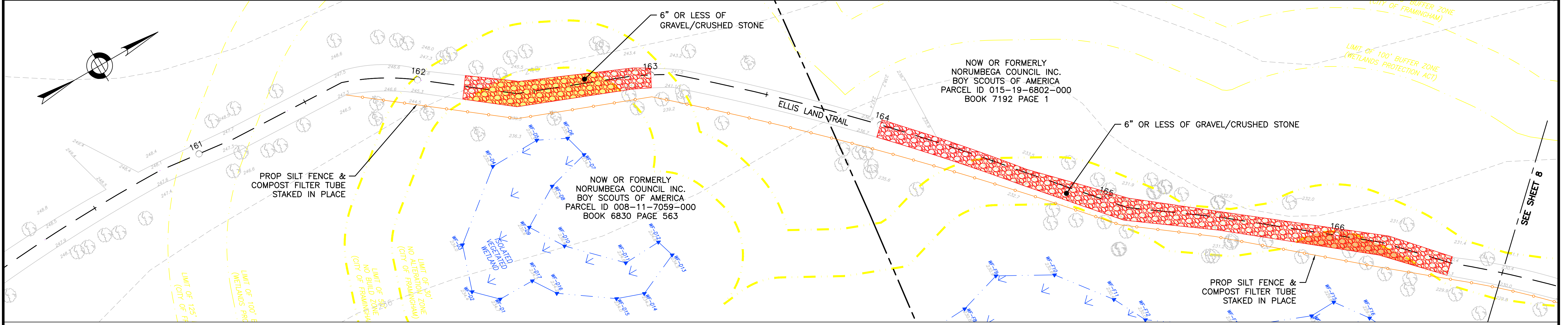
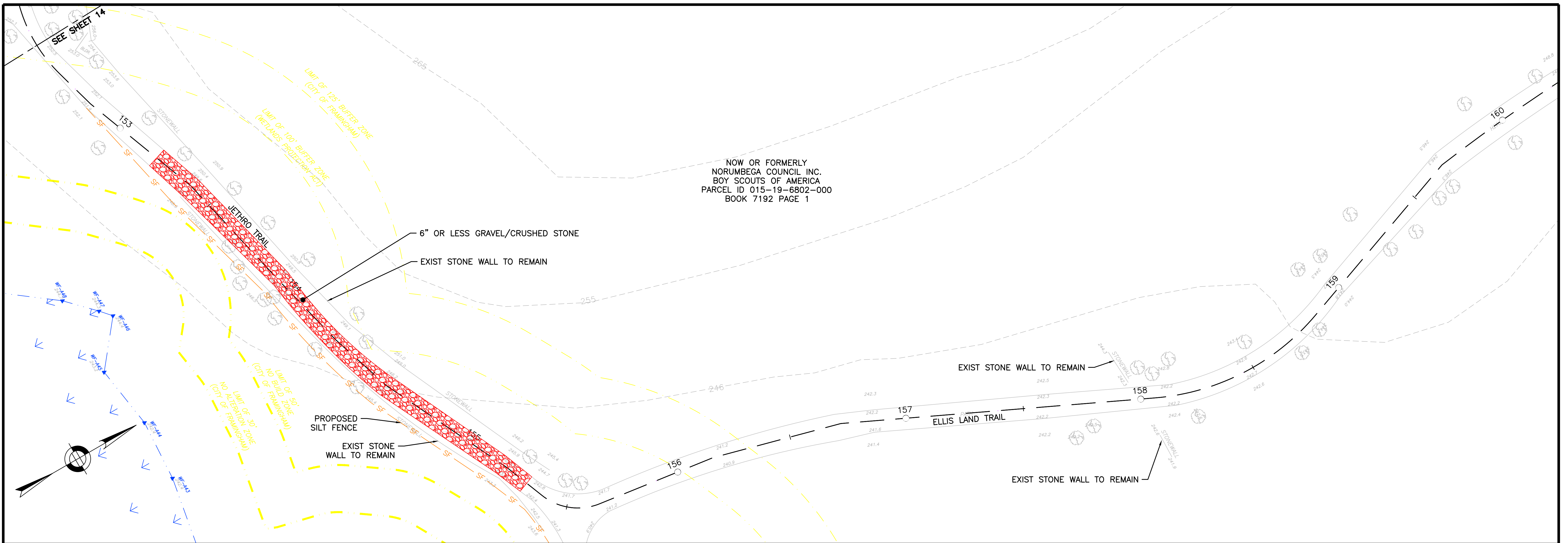
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2016033.02	11/21/22	JBC	JD	REL	14	22



11/21/2022 L:\16033\CURRENT\CUTSHEET\16033_NOT PLANS.dwg Joseph Connolly



DESCRIPTION OF DISTURBANCE	HATCH	AREA
PERMANENT UPLAND IMPACT	[Hatched Pattern]	0 SF
TEMPORARY UPLAND IMPACT	[Diagonal Line Pattern]	4,591 SF
PERMANENT WETLAND IMPACT	[Blue Hatched Pattern]	0 SF
TEMPORARY WETLAND IMPACT	[Blue Diagonal Line Pattern]	0 SF
PERMANENT BANK IMPACT	N/A	0 LF
TEMPORARY BANK IMPACT	N/A	0 LF
30' NO ALTERATION ZONE IMPACT	[Yellow Hatched Pattern]	782 SF
50' NO BUILD ZONE IMPACT	[Yellow Diagonal Line Pattern]	1,950 SF
100' WETLAND BUFFER IMPACT	N/A	4,591 SF

STATION 153+20-155+30 - 6" GRAVEL/CRUSHED STONE
 STATION 162+20-163+00 - 6" GRAVEL/CRUSHED STONE
 STATION 164+00-166+50 - 6" GRAVEL/CRUSHED STONE



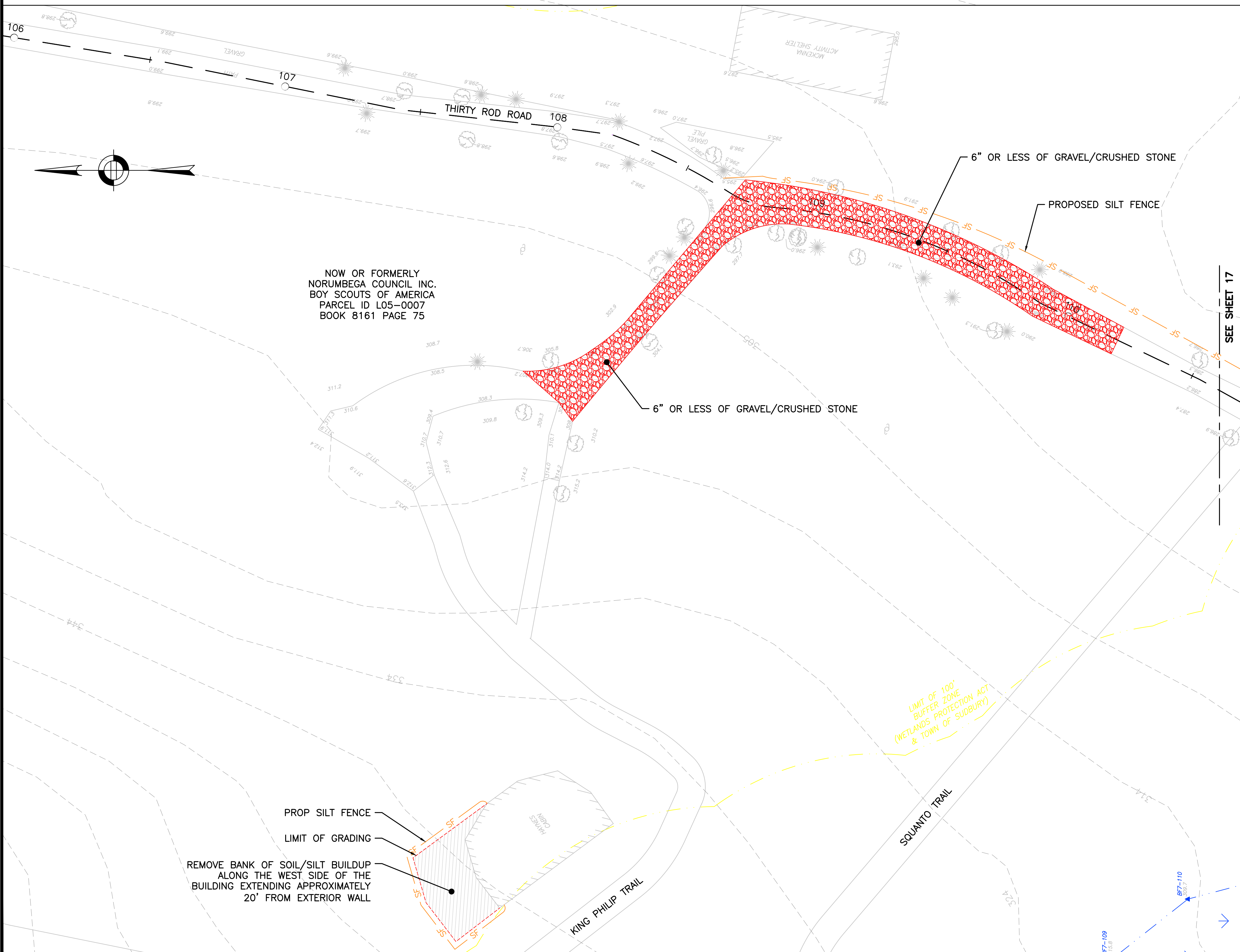
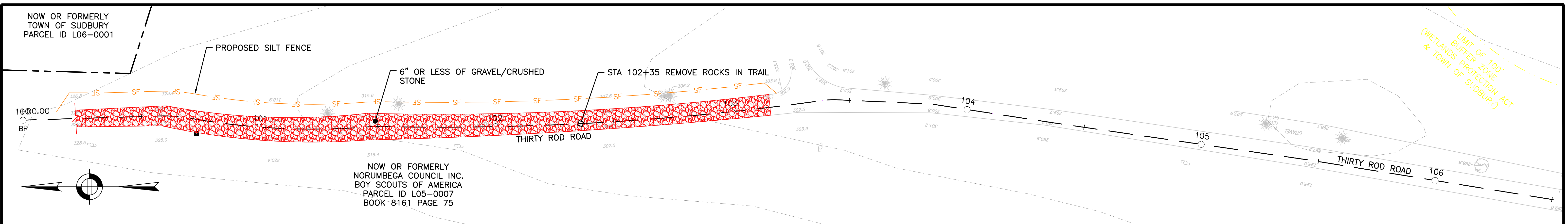
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2016033.02	11/21/22	JBC	JD	REL	15	22





STA 98+20-103+20 - 6" GRAVEL/CRUSHED STONE
 STA 108+70-110+20 - 6" GRAVEL/CRUSHED STONE

DESCRIPTION OF DISTURBANCE	HATCH	AREA
PERMANENT UPLAND IMPACT	[Solid Grey Hatch]	0 SF
TEMPORARY UPLAND IMPACT	[Diagonal Line Hatch]	6,340 SF
PERMANENT WETLAND IMPACT	[Blue Hatch]	0 SF
TEMPORARY WETLAND IMPACT	[Blue Dotted Hatch]	0 SF
PERMANENT BANK IMPACT	N/A	0 LF
TEMPORARY BANK IMPACT	N/A	0 LF
30' NO ALTERATION ZONE IMPACT	[Yellow Hatch]	N/A
50' NO BUILD ZONE IMPACT	[Light Green Hatch]	N/A
100' WETLAND BUFFER IMPACT	N/A	0 SF



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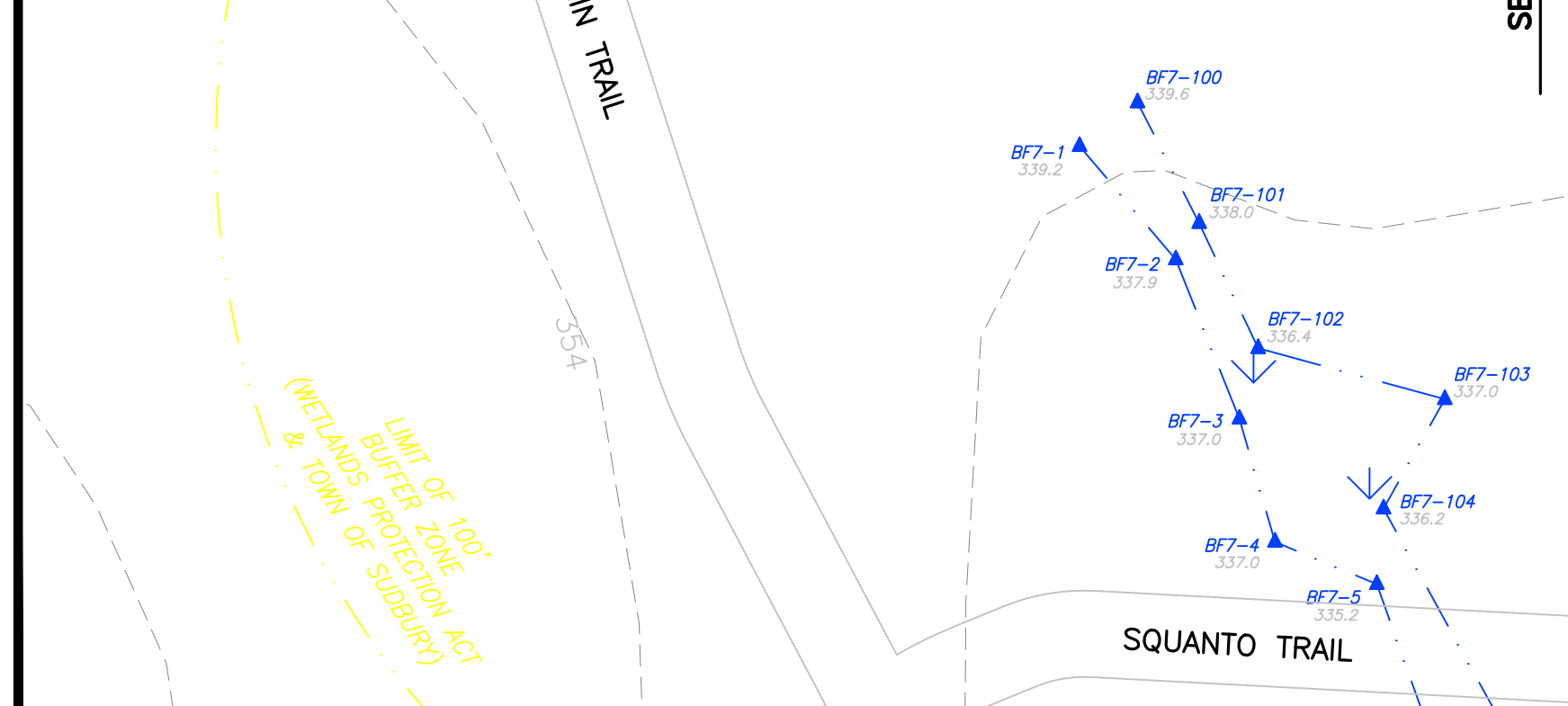
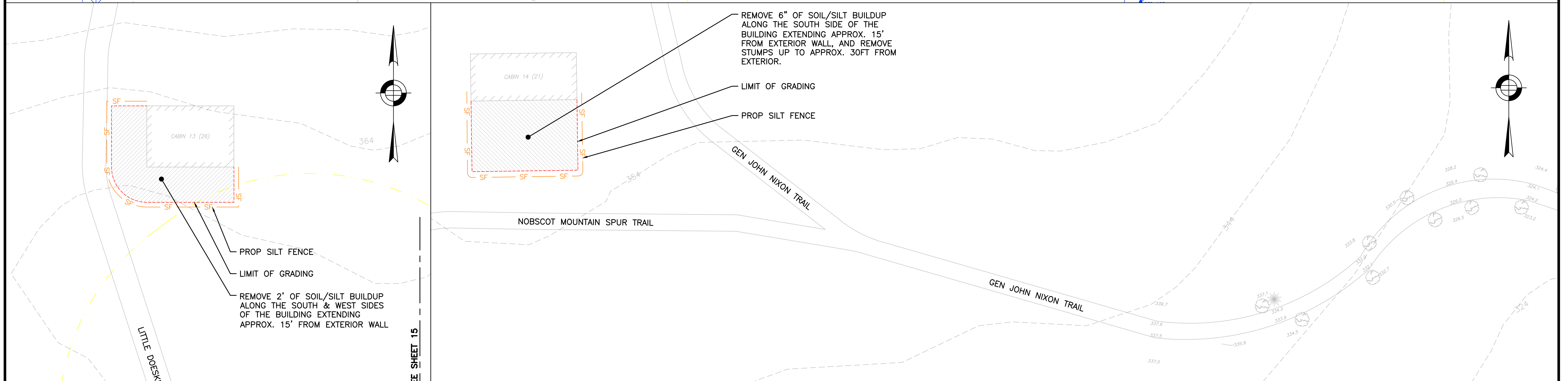
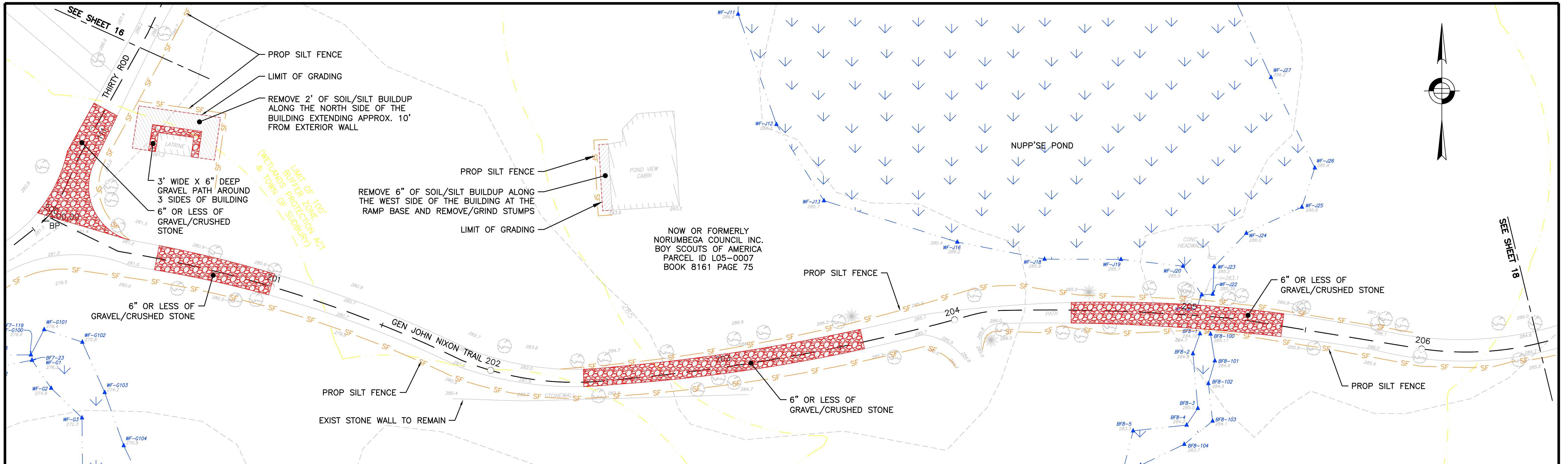


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2016033.02	11/21/22	JBC	JD	REL	16	22





DESCRIPTION OF DISTURBANCE	HATCH	AREA
PERMANENT UPLAND IMPACT	[Hatched]	0 SF
TEMPORARY UPLAND IMPACT	[Hatched]	6,185 SF
PERMANENT WETLAND IMPACT	[Blue Hatched]	0 SF
TEMPORARY WETLAND IMPACT	[Blue Hatched]	0 SF
PERMANENT BANK IMPACT	N/A	0 LF
TEMPORARY BANK IMPACT	N/A	0 LF
30' NO ALTERATION ZONE IMPACT	[Yellow Hatched]	N/A
50' NO BUILD ZONE IMPACT	[Yellow Hatched]	N/A
100' WETLAND BUFFER IMPACT	N/A	3,211 SF

STATION 110+90-111+40 - 6" GRAVEL/CRUSHED STONE
 STATION 200+50-201+00 - 6" GRAVEL/CRUSHED STONE
 STATION 202+40-203+60 - 6" GRAVEL/CRUSHED STONE
 STATION 204+50-205+40 - 6" GRAVEL/CRUSHED STONE



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DESCRIPTION OF DISTURBANCE	HATCH	AREA
PERMANENT UPLAND IMPACT		0 SF
TEMPORARY UPLAND IMPACT		11,175 SF
PERMANENT WETLAND IMPACT		0 SF
TEMPORARY WETLAND IMPACT		0 SF
PERMANENT BANK IMPACT	N/A	0 LF
TEMPORARY BANK IMPACT	N/A	0 LF
30' NO ALTERATION ZONE IMPACT		N/A
50' NO BUILD ZONE IMPACT		N/A
100' WETLAND BUFFER IMPACT	N/A	4,402 SF

STATION 207+00-207+40 - 6" GRAVEL/CRUSHED STONE
 STATION 207+90-208+20 - 6" GRAVEL/CRUSHED STONE
 STATION 210+50-211+50 - 6" GRAVEL/CRUSHED STONE
 STATION 214+00-217+70 - 6" GRAVEL/CRUSHED STONE
 STATION 300+00-310+10 - 6" GRAVEL/CRUSHED STONE

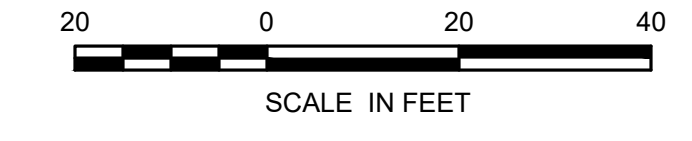


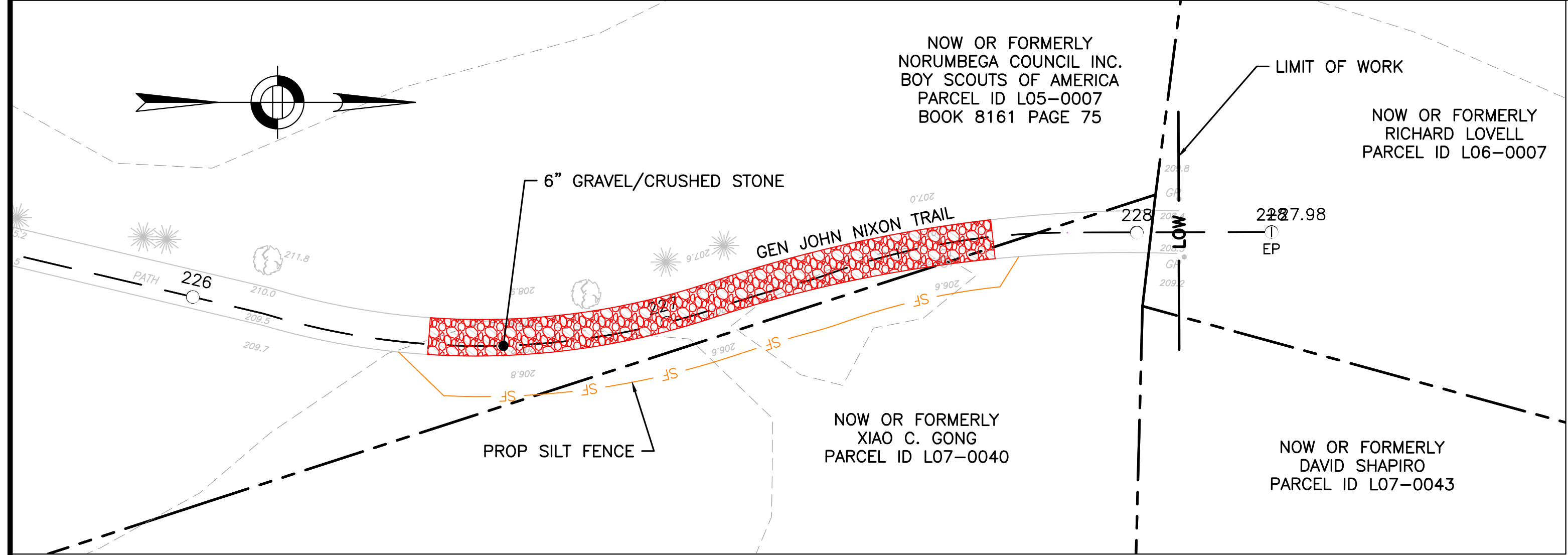
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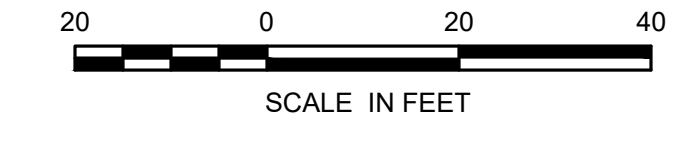
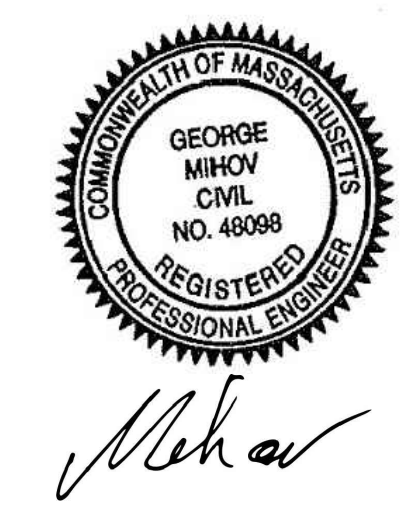
HSH PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
2016033.02	11/21/22	JBC	JD	REL	18	22





DESCRIPTION OF DISTURBANCE	HATCH	AREA
PERMANENT UPLAND IMPACT	[Hatch]	0 SF
TEMPORARY UPLAND IMPACT	[Hatch]	3,513 SF
PERMANENT WETLAND IMPACT	[Hatch]	0 SF
TEMPORARY WETLAND IMPACT	[Hatch]	0 SF
PERMANENT BANK IMPACT	N/A	0 LF
TEMPORARY BANK IMPACT	N/A	0 LF
30' NO ALTERATION ZONE IMPACT	[Hatch]	N/A
50' NO BUILD ZONE IMPACT	[Hatch]	N/A
100' WETLAND BUFFER IMPACT	N/A	0 SF

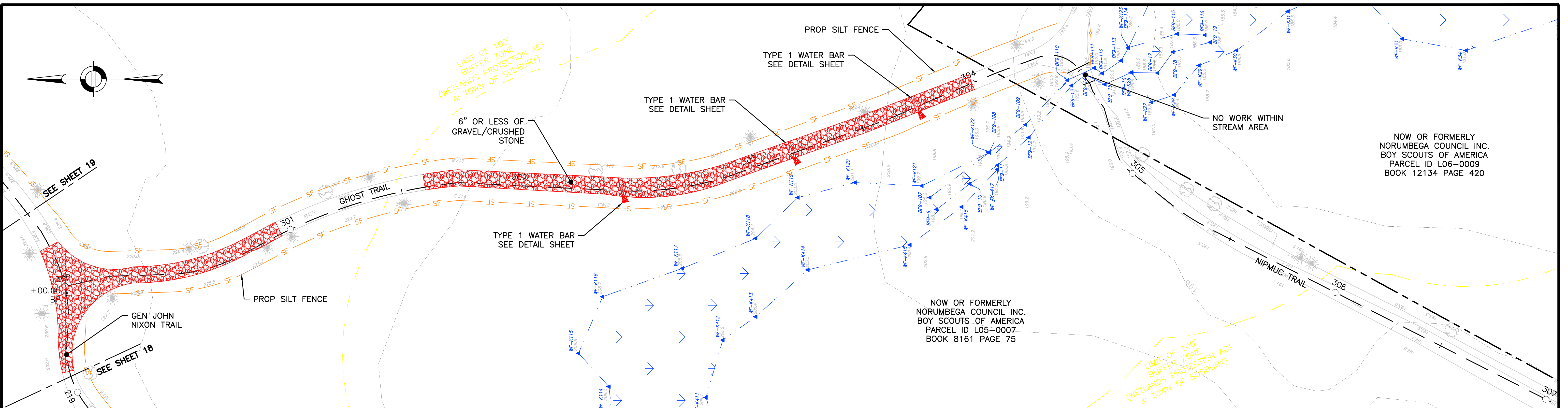
STATION 220+30-223+80 - 6" GRAVEL/CRUSHED STONE
 STATION 226+50-227+70 - 6" GRAVEL/CRUSHED STONE



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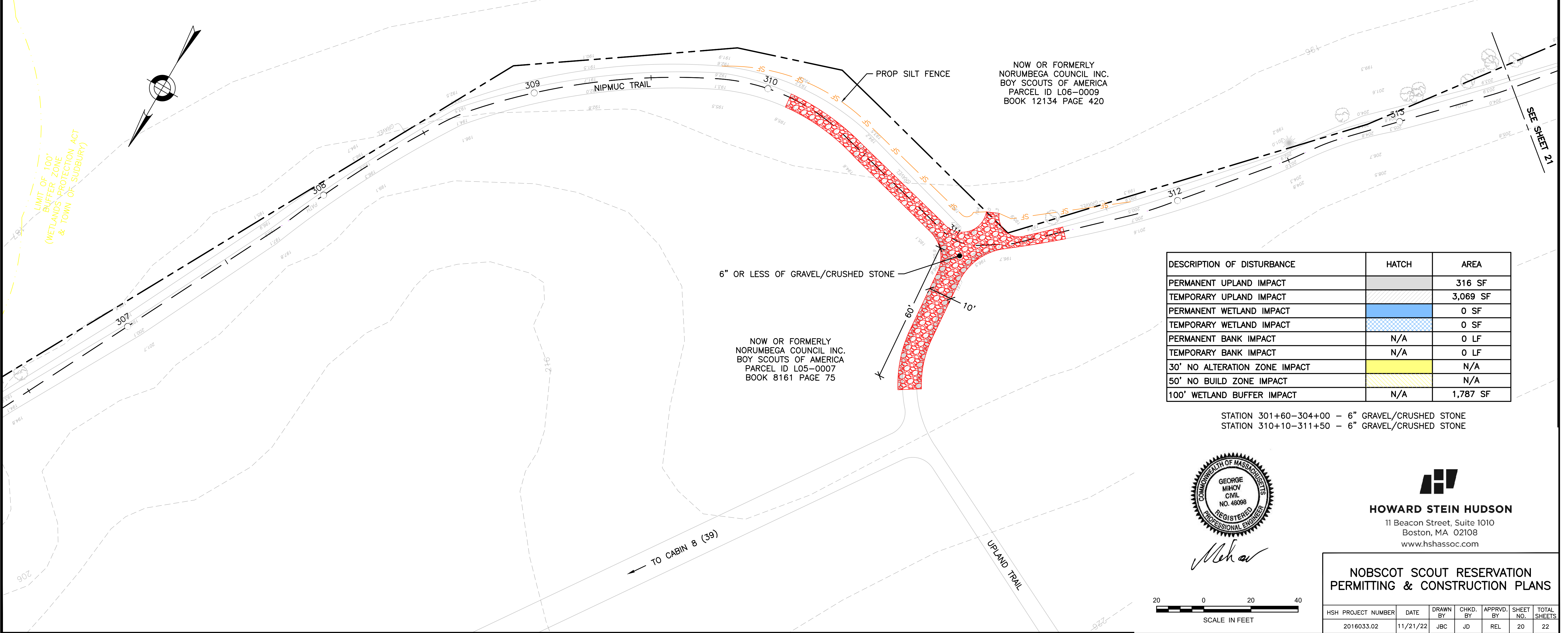
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BOOK 12134 PAGE 420

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BOOK 8161 PAGE 75



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PARCEL ID L05-0007
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DESCRIPTION OF DISTURBANCE	HATCH	AREA
PERMANENT UPLAND IMPACT	[Solid Grey Hatch]	316 SF
TEMPORARY UPLAND IMPACT	[Diagonal Line Hatch]	3,069 SF
PERMANENT WETLAND IMPACT	[Blue Stippled Hatch]	0 SF
TEMPORARY WETLAND IMPACT	[Blue Stippled Hatch]	0 SF
PERMANENT BANK IMPACT	N/A	0 LF
TEMPORARY BANK IMPACT	N/A	0 LF
30' NO ALTERATION ZONE IMPACT	[Yellow Hatch]	N/A
50' NO BUILD ZONE IMPACT	[Yellow Hatch]	N/A
100' WETLAND BUFFER IMPACT	N/A	1,787 SF

STATION 301+60-304+00 - 6" GRAVEL/CRUSHED STONE
STATION 310+10-311+50 - 6" GRAVEL/CRUSHED STONE

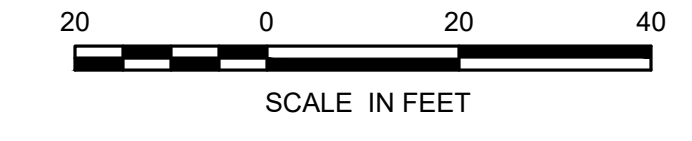


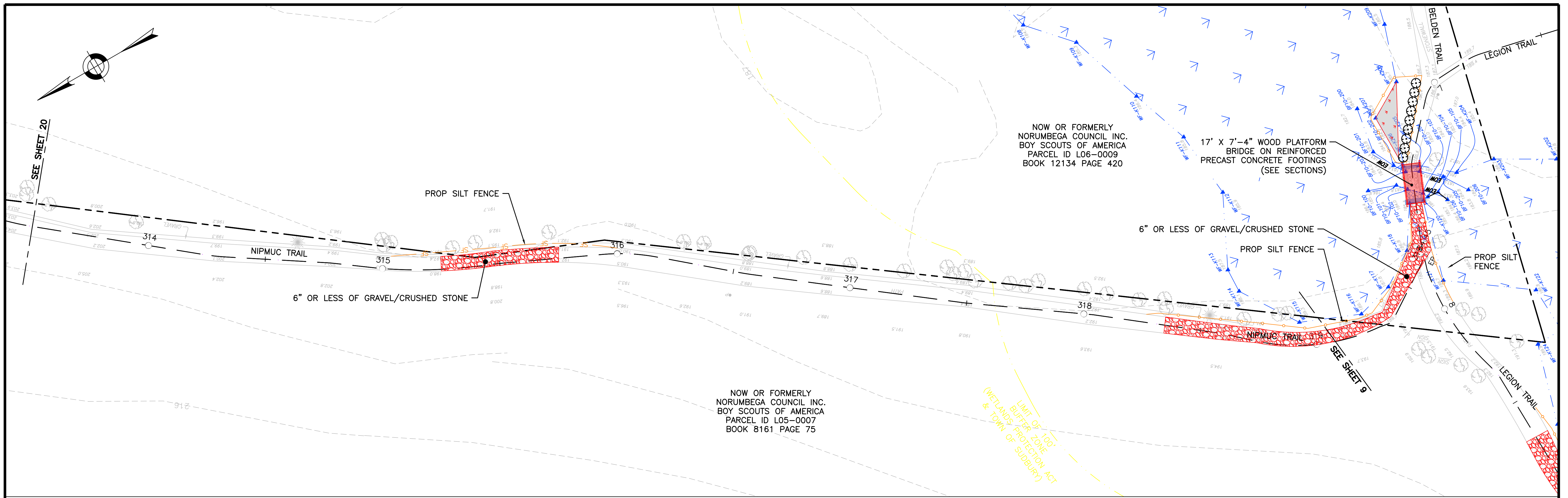
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PERMITTING & CONSTRUCTION PLANS**

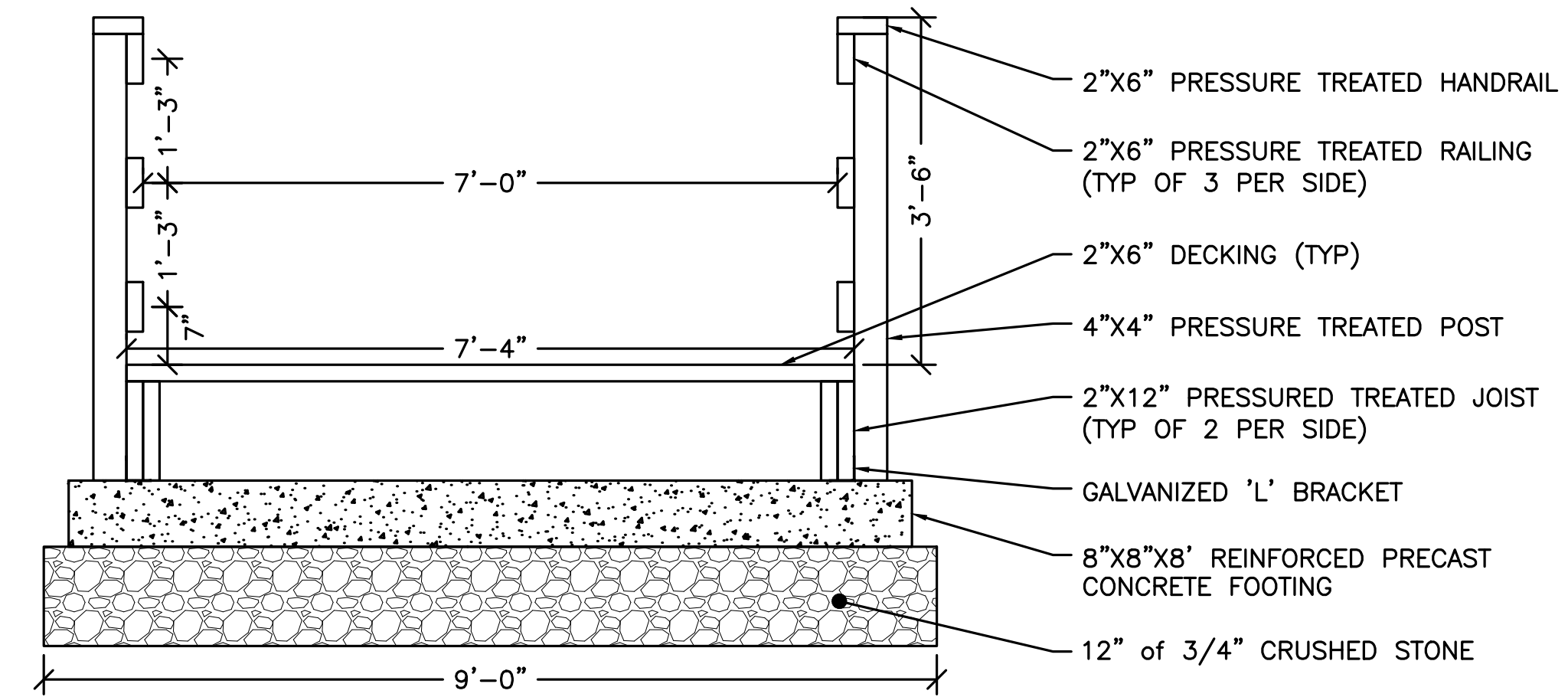
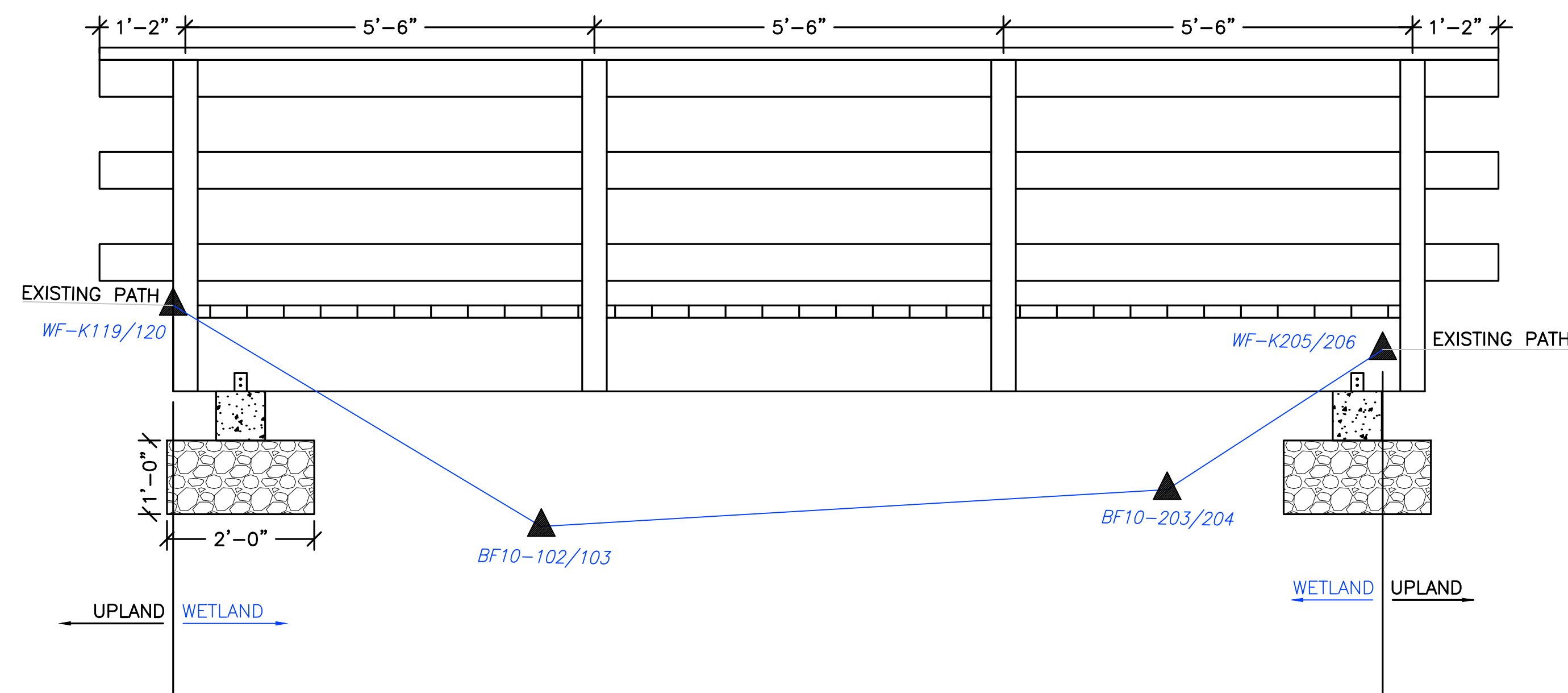
HSH PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
2016033.02	11/21/22	JBC	JD	REL	20	22





STATION 7+53-7+78 - 6" GRAVEL/CRUSHED STONE
 STATION 315+25-315+75 - 6" GRAVEL/CRUSHED STONE
 STATION 318+25-319+65 - 6" GRAVEL CRUSHED STONE

DESCRIPTION OF DISTURBANCE	HATCH	AREA
PERMANENT UPLAND IMPACT	[Hatched]	0 SF
TEMPORARY UPLAND IMPACT	[Hatched]	786 SF
PERMANENT WETLAND IMPACT	[Hatched]	0 SF
TEMPORARY WETLAND IMPACT	[Hatched]	34 SF
PERMANENT BANK IMPACT	N/A	0 LF
TEMPORARY BANK IMPACT	N/A	16 LF
30' NO ALTERATION ZONE IMPACT	[Hatched]	N/A SF
50' NO BUILD ZONE IMPACT	[Hatched]	N/A
100' WETLAND BUFFER IMPACT	N/A	470 SF



BELDEN BRIDGE SECTIONS
NOT TO SCALE



Mihov

HOWARD STEIN HUDSON
 11 Beacon Street, Suite 1010
 Boston, MA 02108
 www.hshassoc.com

**NOBSCOT SCOUT RESERVATION
 PERMITTING & CONSTRUCTION PLANS**

HSH PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
2016033.02	11/21/22	JBC	JD	REL	21	22





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 Boston, MA 02108
 www.hshassoc.com

PREPARED FOR:
 KNOX TRAIL COUNCIL
 BOY SCOUTS OF AMERICA
 490 UNION AVENUE
 FRAMINGHAM, MA 01702

**NOBSCOT SCOUT
 RESERVATION TRAIL
 PROJECT**
 FRAMINGHAM AND SUDBURY, MA
 WORCESTER COUNTY

REVISIONS:

NO	BY	DATE	DESCRIPTION

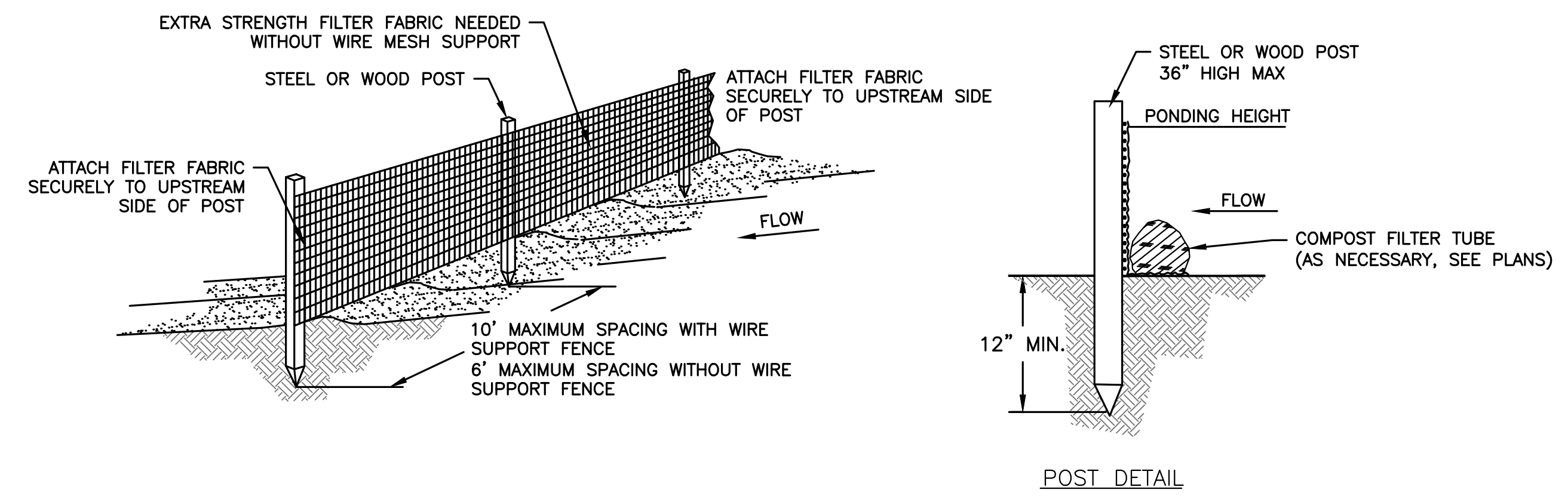
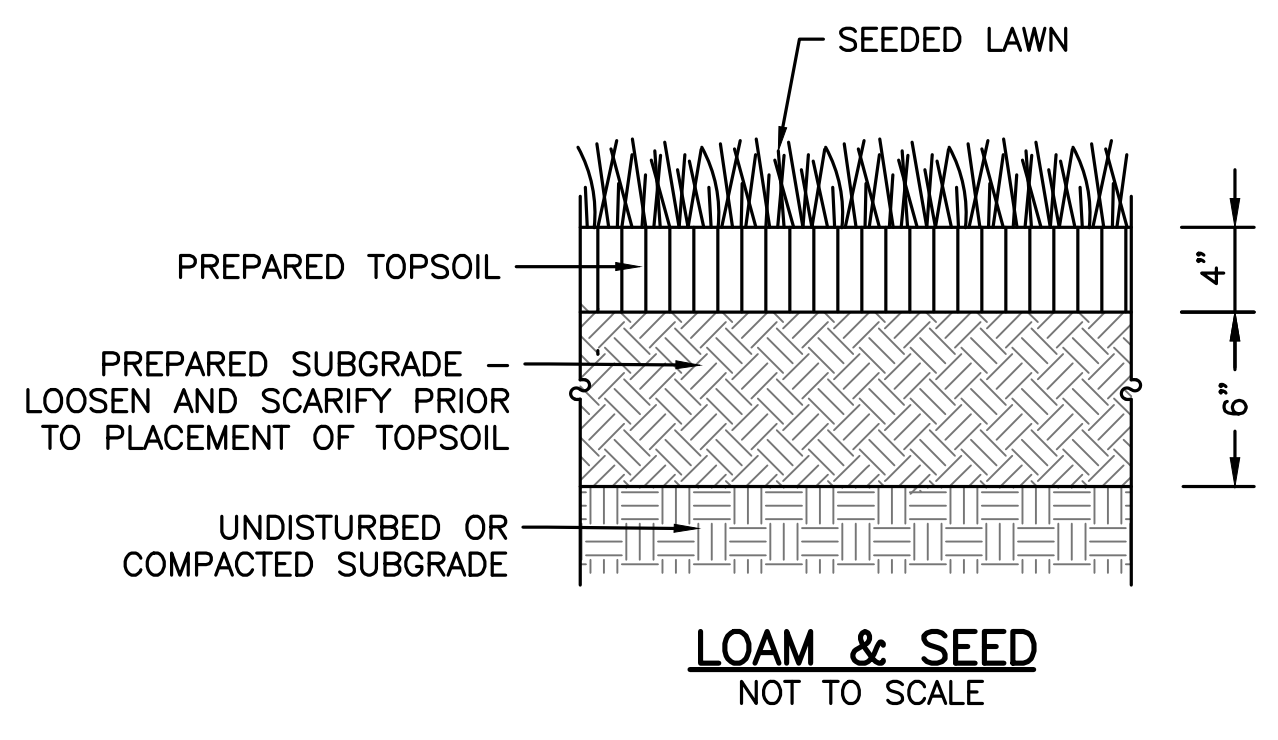


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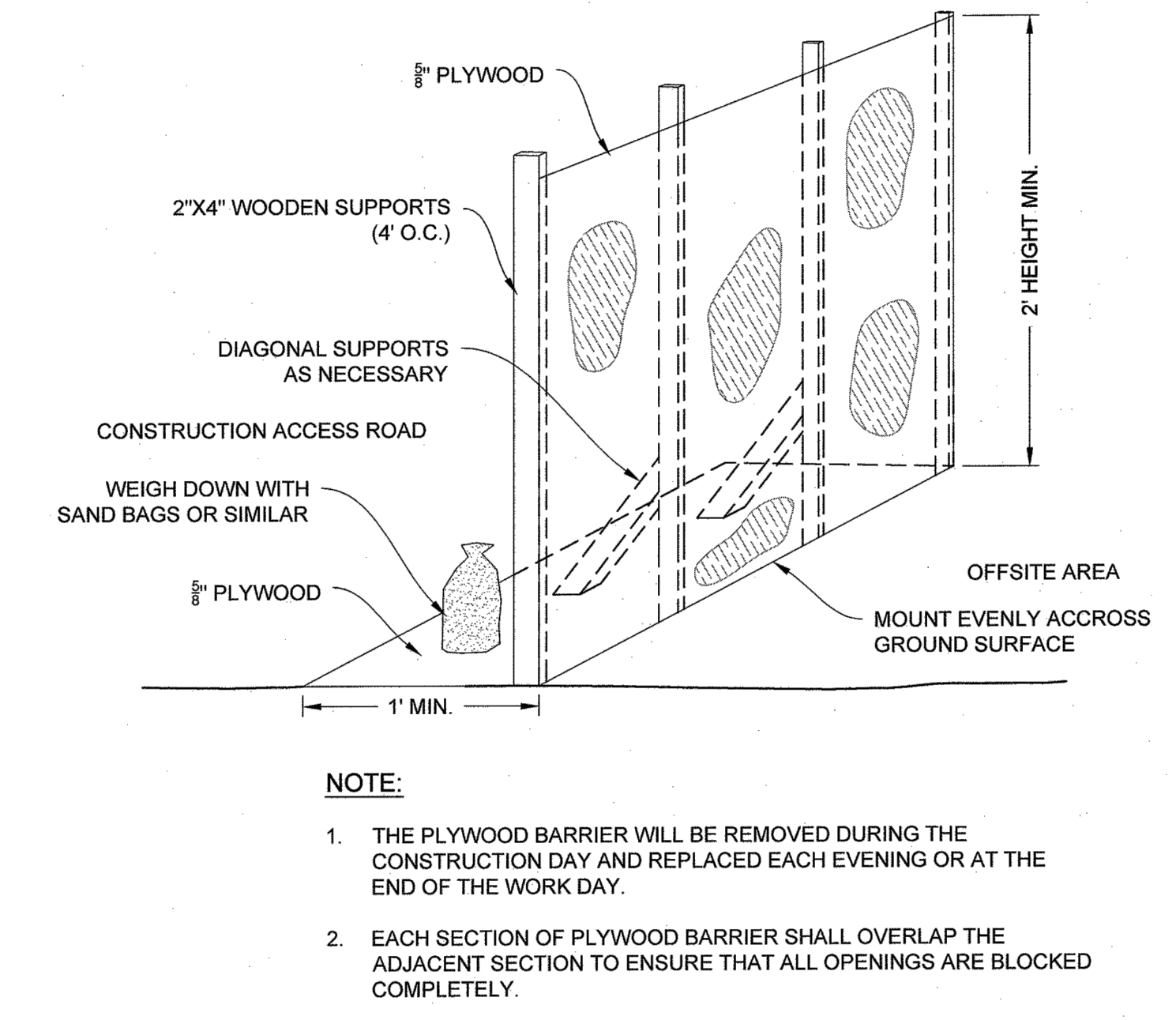
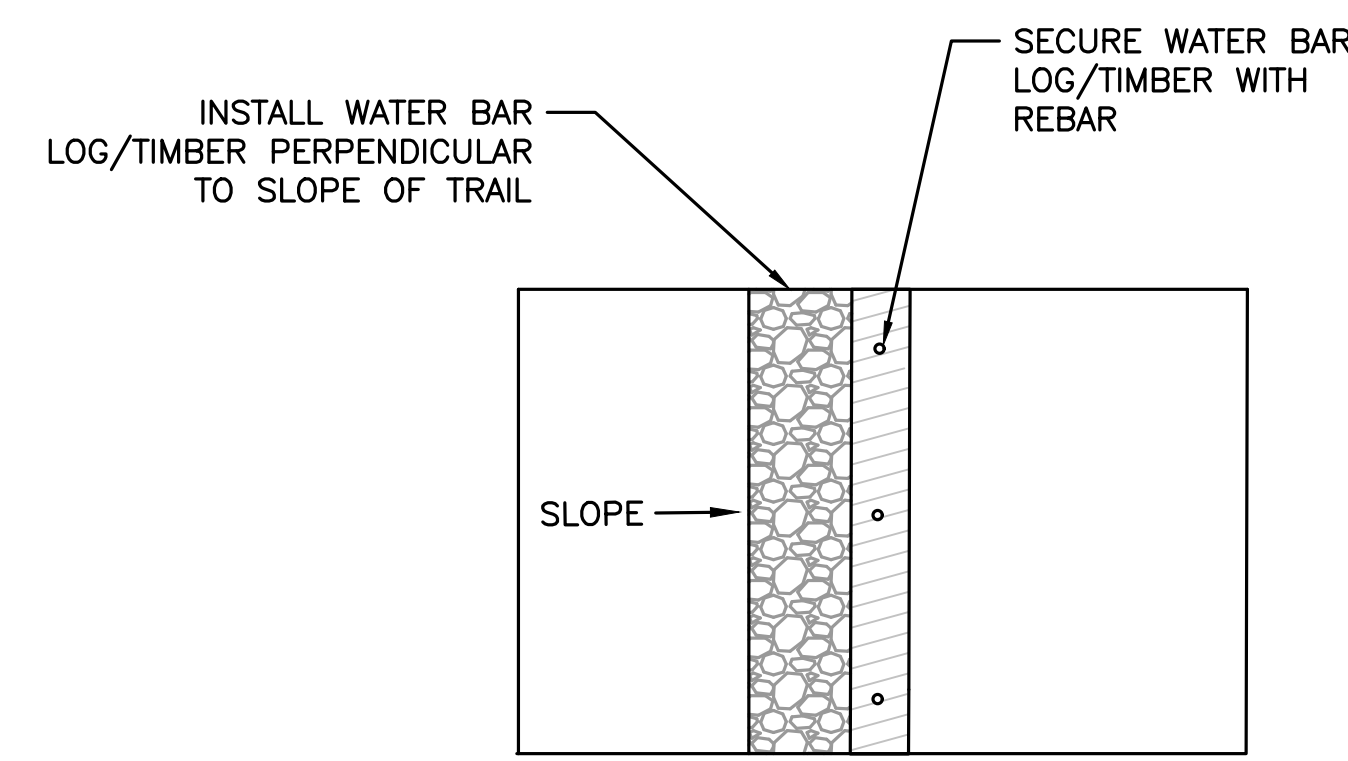
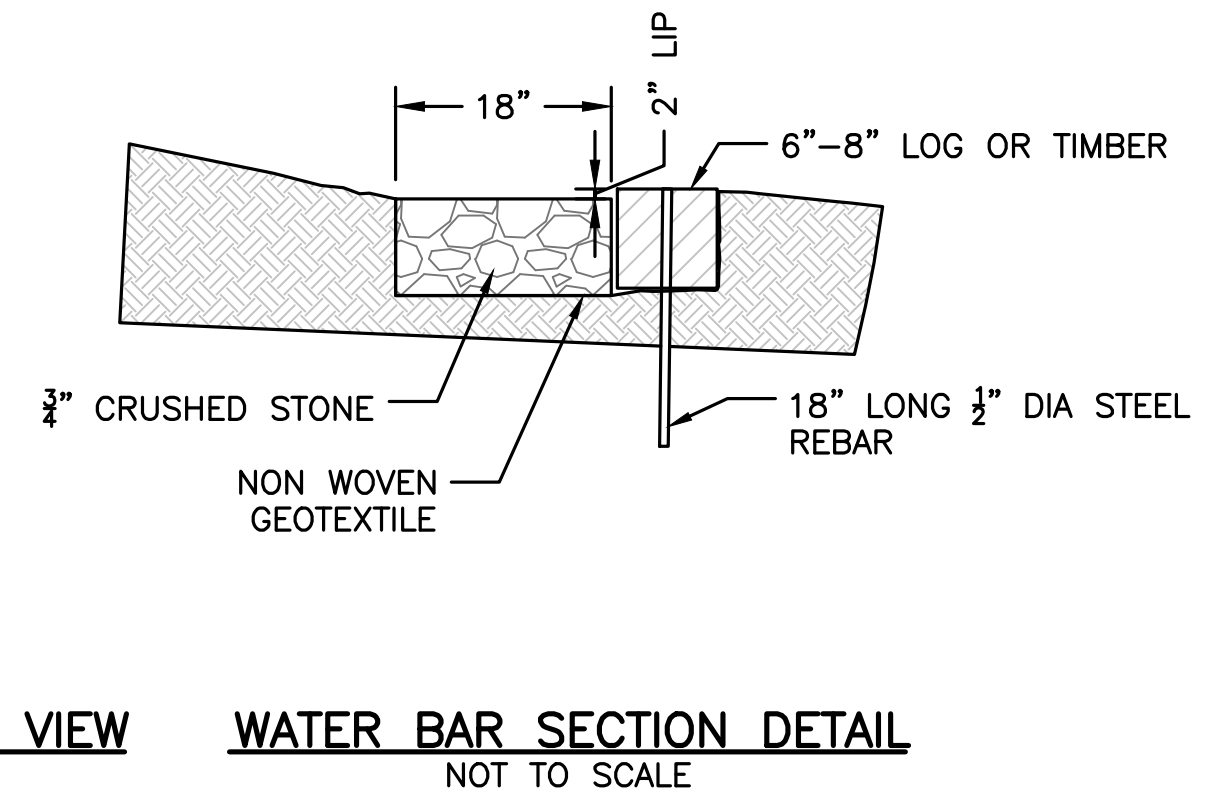
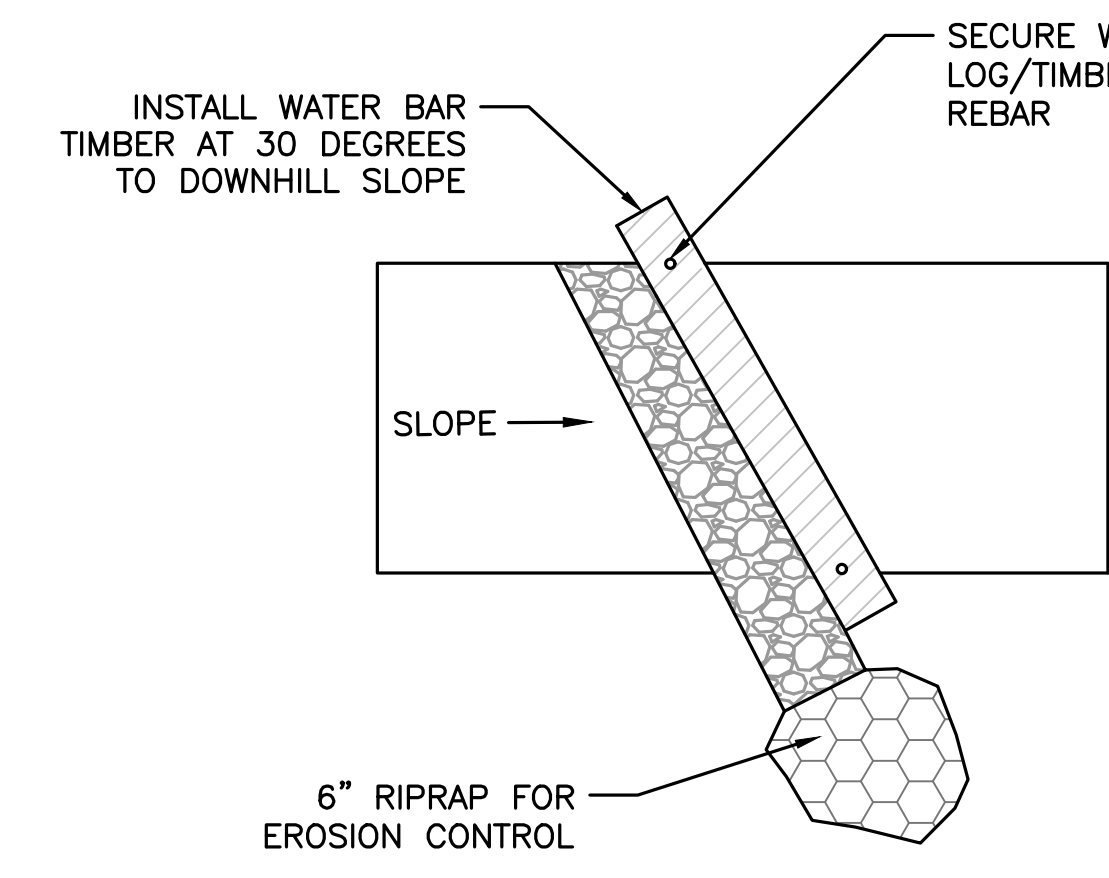
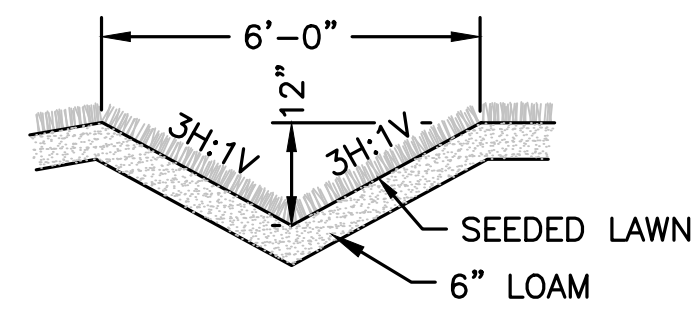
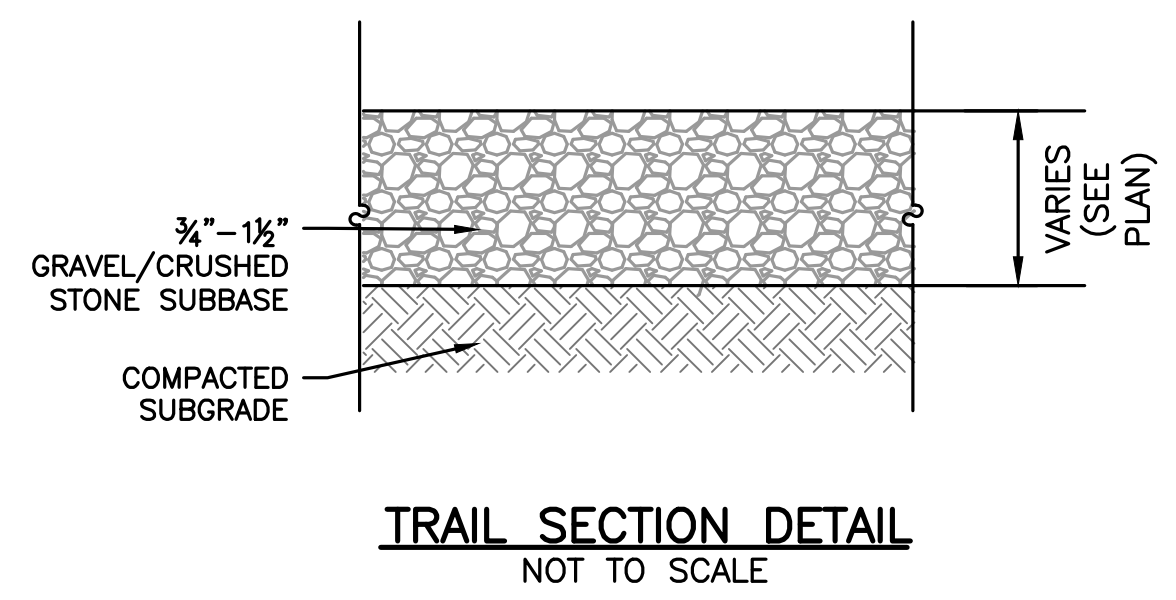
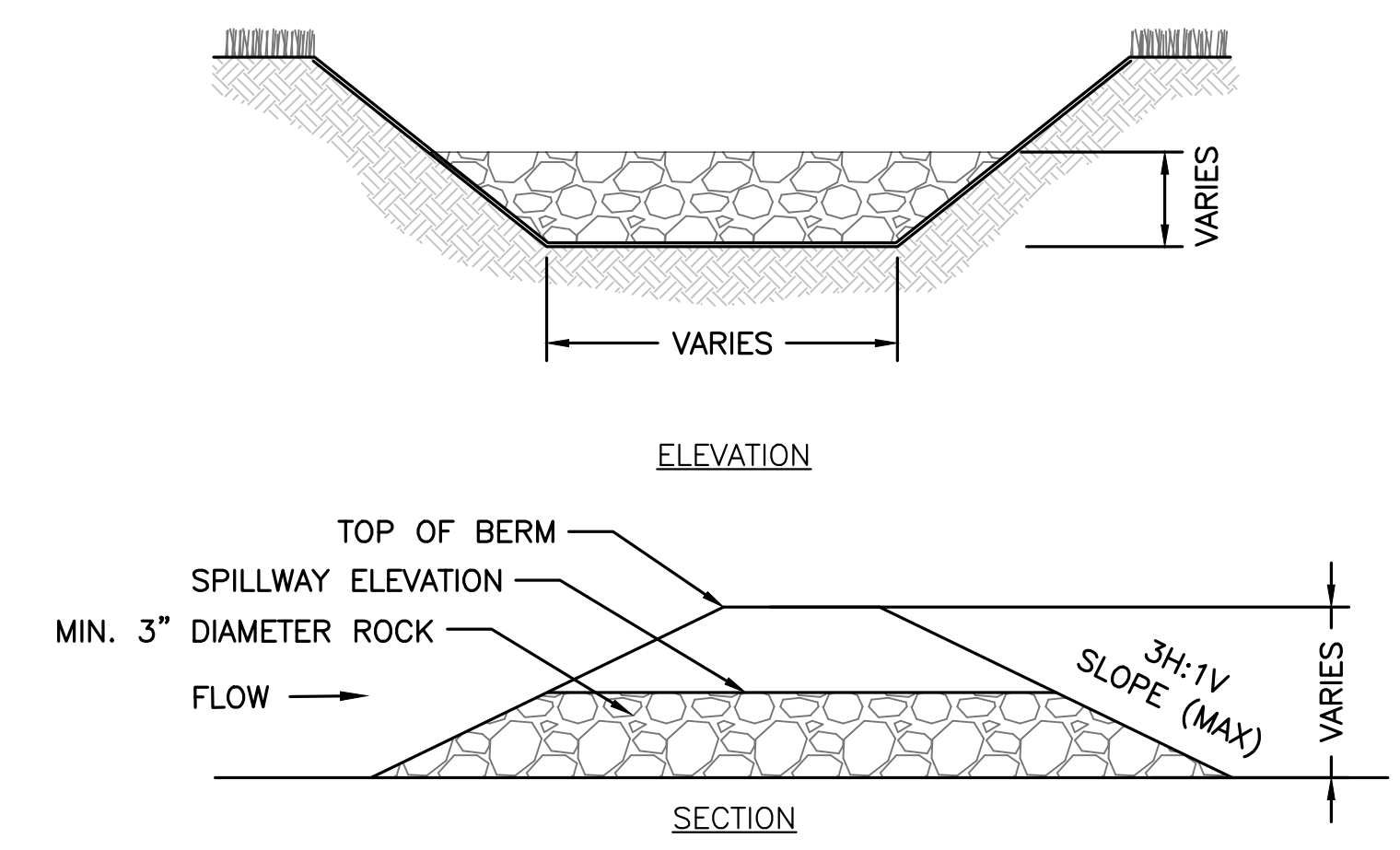
NOTICE OF INTENT
 PERMIT SET

DETAILS

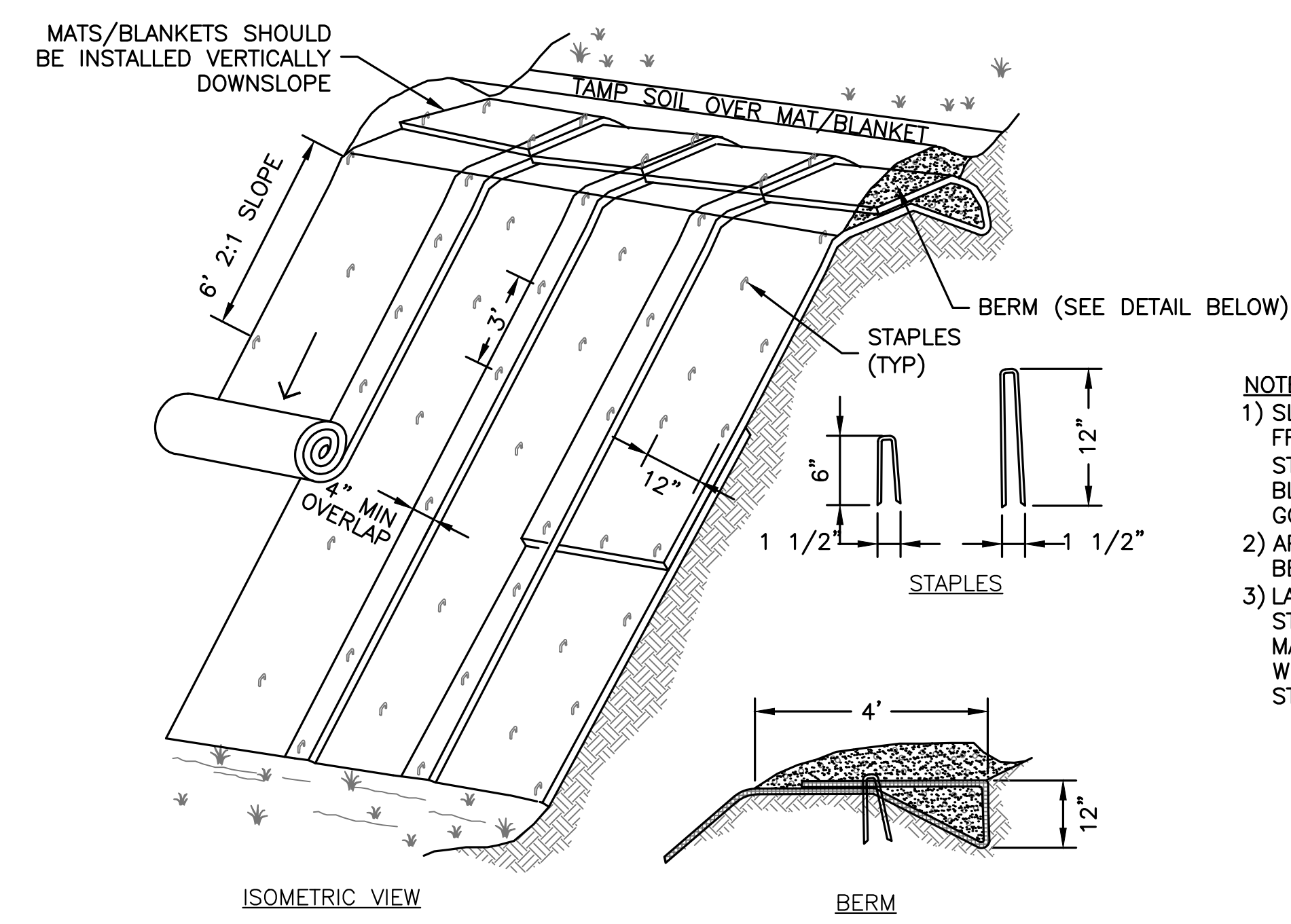
DATE:	11/21/2022
PROJECT NUMBER:	16033.02
DESIGNED BY:	JBC
DRAWN BY:	JBC
CHECKED BY:	REL



NOTES:
 1. ALL SILT FENCE SHALL BE PLACED AROUND ALL MATERIAL STOCKPILE AREAS AND MAINTAINED AT STAGING AREAS TO ASSURE NO SILTATION INTO ADJACENT WETLANDS OR ONTO PUBLIC OR PRIVATE WAYS OR PROPERTY.



NOTE:
 1. THE PLYWOOD BARRIER WILL BE REMOVED DURING THE CONSTRUCTION DAY AND REPLACED EACH EVENING OR AT THE END OF THE WORK DAY.
 2. EACH SECTION OF PLYWOOD BARRIER SHALL OVERLAP THE ADJACENT SECTION TO ENSURE THAT ALL OPENINGS ARE BLOCKED COMPLETELY.



NOTES:
 1) SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. MATS/BLANKETS SHALL HAVE GOOD SOIL CONTACT.
 2) APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.
 3) LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.

