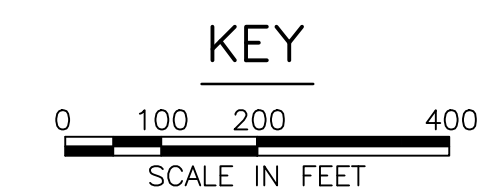
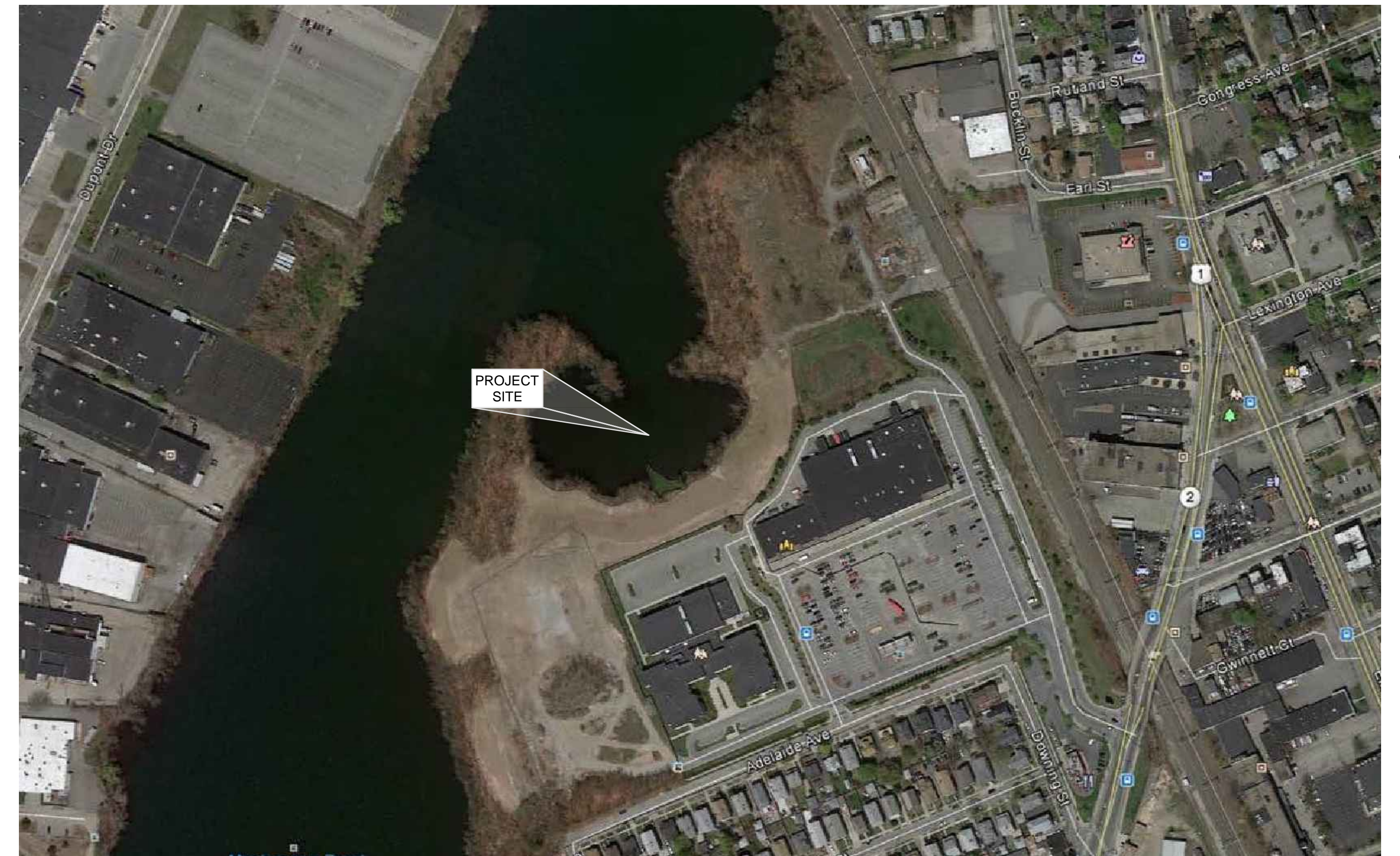
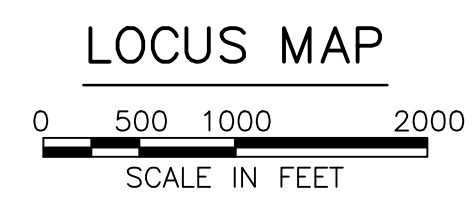
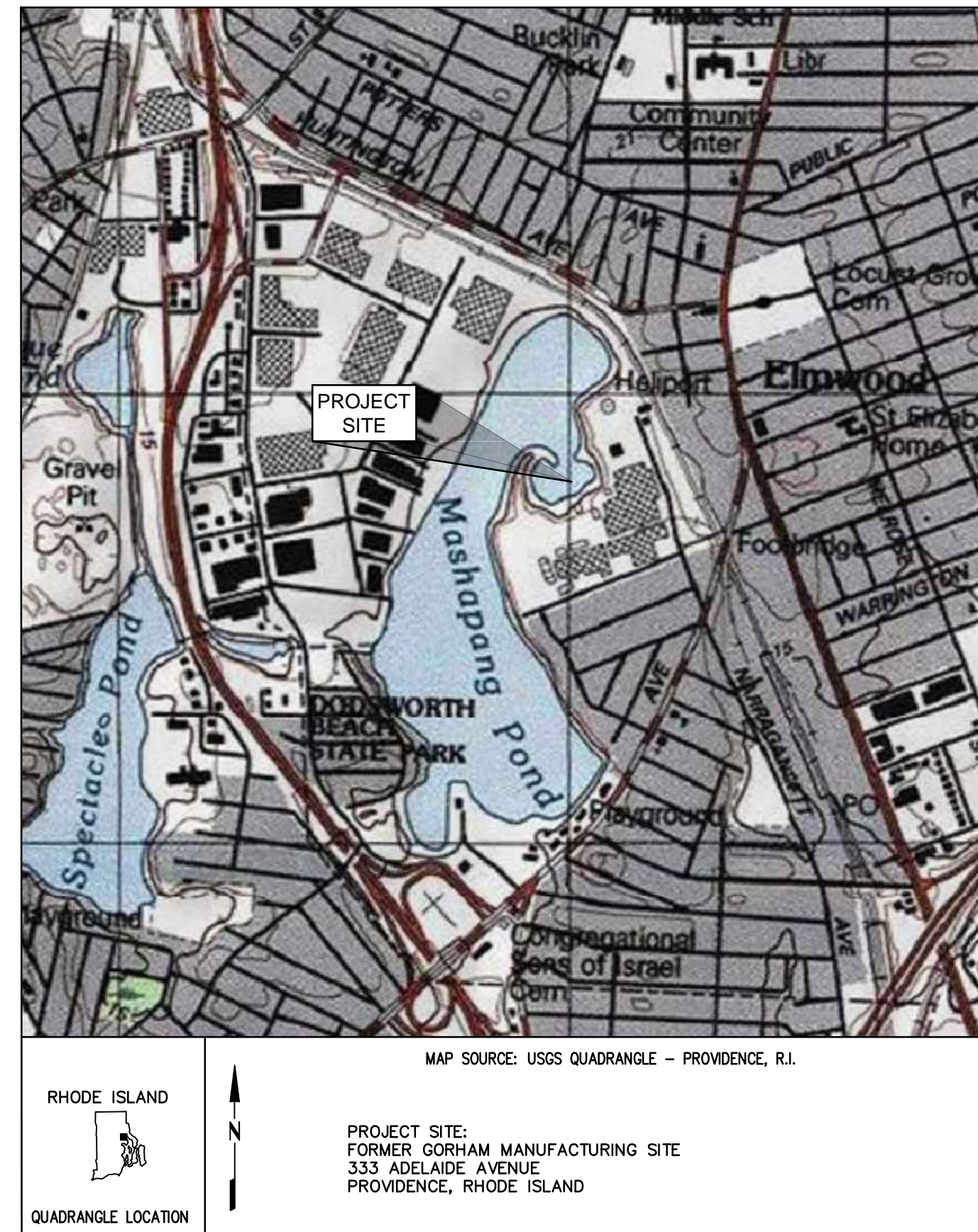


TEXTRON, INC. REMEDIAL ACTION WORK PLAN FORMER GORHAM MANUFACTURING SITE PROVIDENCE, RHODE ISLAND MARCH, 2015



DRAWING INDEX

SHEET NUMBER	DRAWING TITLE	DISCIPLINE NUMBER
	COVER SHEET	G-001
1	GENERAL NOTES, ABBREVIATIONS, AND LEGEND	G-002
2	OVERALL SITE PLAN	V-101
3	DEMOLITION AND EROSION AND CONTROL PLAN, SHEET 1 OF 3	V-102
4	DEMOLITION AND EROSION AND CONTROL PLAN, SHEET 2 OF 3	V-103
5	DEMOLITION AND EROSION AND CONTROL PLAN, SHEET 3 OF 3	V-104
6	PROPOSED SITE PLAN, SHEET 1 OF 3	C-101
7	PROPOSED SITE PLAN, SHEET 2 OF 3	C-102
8	PROPOSED SITE PLAN, SHEET 3 OF 3	C-103
9	DETAILS, SHEET 1 OF 2	C-501
10	DETAILS, SHEET 2 OF 2	C-502

PREPARED FOR:

TEXTRON

PREPARED BY:

amec foster wheeler

ISSUED FOR PERMITTING

GENERAL NOTES:

- 1. PLANS HAVE BEEN COMPILED FROM ON-SITE INVESTIGATIONS, GIS, LIDAR AND SURVEY. SEE PLAN REFERENCES FOR FURTHER INFORMATION.
2. VERTICAL LAYOUT BASED UPON THE CONTROL DATUM SHOWN ON V-101.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW OF ALL DRAWINGS PRIOR TO ANY CONSTRUCTION...

GRADING, DRAINAGE, AND EROSION CONTROL NOTES:

- 1. NO VEGETATION SHALL BE DISTURBED EXCEPT AS NOTED HEREON OR AS NECESSARY FOR GRADING PURPOSES AND ONLY AS APPROVED BY THE ENGINEER. NO HEAVY EQUIPMENT SHALL BE OPERATED OR STORED AND NO MATERIALS SHALL BE HANDLED OR STORED WITHIN THE DRIP LINES OF UNDISTURBED TREES OR WITHIN 50 FEET FROM THE LIMIT OF WETLANDS AND/OR MASHAUG POND.
2. ALL DISTURBED AREAS WHICH ARE FINISH GRADED WITH NO FURTHER CONSTRUCTION TO TAKE PLACE SHALL BE STABILIZED WITH SEED AND MULCH WITHIN 7 CALENDAR DAYS AFTER GRADING IS COMPLETE...

PLAN REFERENCES:

- 1. PLAN PREPARED BY THE U.S. ARMY CORPS OF ENGINEERS, ENTITLED 'SEWER SYSTEM' DATED SEPTEMBER 1943 AND REVISED OCTOBER 1943 (AS-BUILT) ORIGINAL SCALE: 1" = 100'
2. SELECTED SITE FEATURES DIGITIZED FROM DIVERSIFIED TECHNOLOGY CONSULTANTS' FIGURE 7 TITLED 'BATTERY HAMILTON AND BORING/SAMPLING LOCATIONS' DATED AUGUST 8, 1999 FROM THE 'RESEARCH AND ASSESSMENT STUDY' DATED OCTOBER 2000.

SUGGESTED CONSTRUCTION SEQUENCE:

- 1. ESTABLISH VERTICAL AND HORIZONTAL CONTROL.
2. INSTALL EROSION AND SEDIMENTATION CONTROL DEVICES AS SHOWN AND AS REQUIRED PRIOR TO SITE DISTURBANCE.
3. CLEAR AND GRUB TO THE LIMITS SHOWN ON THE PLANS AS DEPICTED BY THE 'LIMIT OF DISTURBANCE' LINE.
4. PARCEL C
1. REGRADE EXISTING SOILS TO PREPARE THE SUBGRADE ELEVATIONS AS SHOWN.
2. INSTALL CAPPING MATERIALS FOR COMPLETION OF THE PARCEL C-1 UPLAND SOIL CAP.

ABBREVIATIONS:

Table with 2 columns: Abbreviation (e.g., APPROX, BLDG, BMPs, CB, CI) and Full Name (e.g., APPROXIMATELY BUILDING, BEST MANAGEMENT PRACTICES, CATCH BASIN).

GENERAL LEGEND:

Legend items including: 1FT EXISTING CONTOUR, EXISTING LIMIT OF TREE, LARGE DIAMETER TREE WITH NUMERICAL DESIGNATION, LIMIT OF WETLAND, EDGE OF WATER, 50' PERIMETER WETLAND LINE, PROPERTY LINE, EXISTING PAVEMENT, EXISTING LIMIT OF SURFICIAL FILL, EXISTING TURBIDITY CURTAIN, EXISTING DRAIN LINE, EXISTING STRUCTURE, EXISTING MONITORING WELL, EXISTING SURFACE WATER AND SEDIMENT SAMPLE LOCATION, EXISTING WELLS TO BE SAMPLED, EXISTING WELL TO BE ABANDONED, EXISTING FENCE TO BE REMOVED, EXISTING FENCE, WETLAND FLAG, EXISTING SOIL CAP, EXISTING GEOMEMBRANE CAP, PROPOSED 1FT CONTOUR, PROPOSED 5FT CONTOUR, PROPOSED TURBIDITY CURTAIN, PROPOSED LIMIT OF DISTURBANCE, PROPOSED SILT FENCE, PROPOSED AUGMENTED SILT FENCE, PROPOSED GRAVEL ACCESS, PROPOSED EDGE OF GRAVEL, PROPOSED LIMIT OF CAPPING SYSTEM, PROPOSED MONITORING WELL, PROPOSED TREE LINE, PROPOSED FRINGE WETLAND TOE CAP, PROPOSED PERIMETER WETLAND CAP, PROPOSED UPLAND CAP, PROPOSED EROSION CONTROL MATTING.

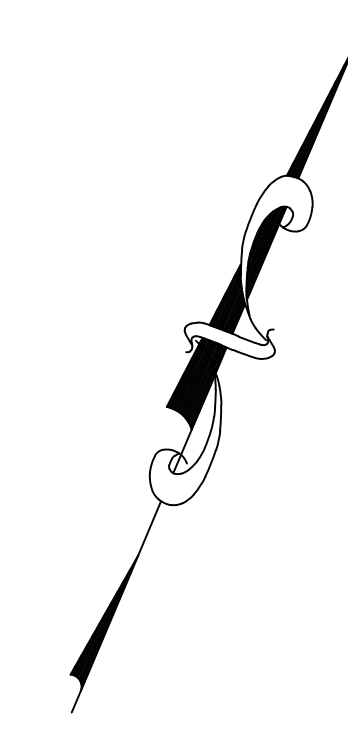
amec foster wheeler logo and contact information: AMEC FOSTER WHEELER ENVIRONMENT & INFRASTRUCTURE, INC. 271 MILL ROAD CHELMSFORD MASSACHUSETTS 01824

Revision table with columns: REVISION, DATE, ISSUED BY. Contains three rows of revision data.

PROJECT: TETTRON, INC. FORMER GORHAM MANUFACTURING SITE 333 ADELAIDE AVENUE, PROVIDENCE, RI REMEDIAL ACTION WORK PLAN
TITLE: GENERAL NOTES, ABBREVIATIONS, AND LEGEND

TETTRON logo and client information: CLIENT: TETTRON

Design and scale information table: DESIGNED BY: DAA, DRAWN BY: DED, CHECKED BY: DEH, SCALE: NONE, PROJECT NUMBER: 3652140032, DRAWING NUMBER: G-002, SHEET NUMBER: 1 OF 10



NOTES:
 1. SEE SHEET 1 FOR PLAN REFERENCES.
 2. SEE SHEET 1 FOR LEGEND AND NOTES.

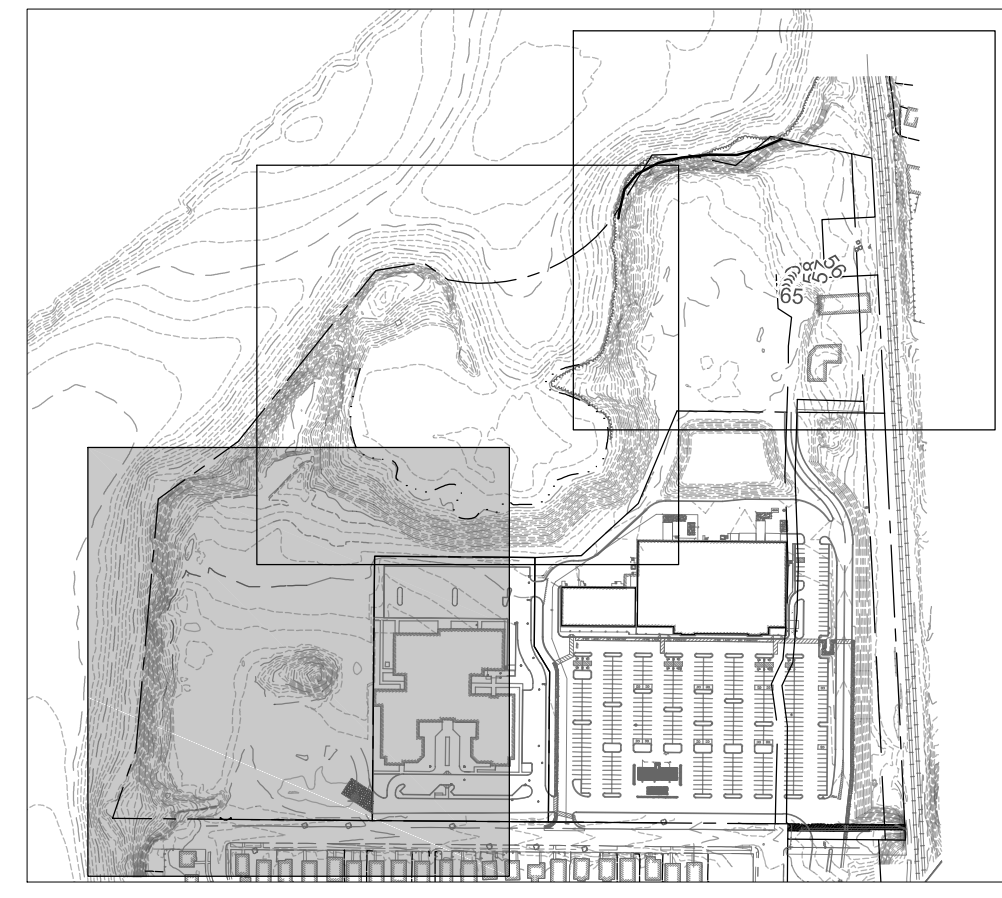
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1	02/13/2015	DRAFT - ISSUED FOR CLIENT REVIEW	DAW	RJB
0	01/12/2015	DRAFT - ISSUED FOR CLIENT REVIEW	DAW	RJB

PROJECT:	TEXTRON, INC. FORMER GORHAM MANUFACTURING SITE 333 ADELAIDE AVENUE, PROVIDENCE, RI REMEDIAL ACTION WORK PLAN
TITLE:	OVERALL SITE PLAN

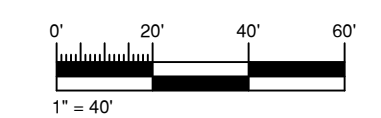


DESIGNED BY:	DAW	DRAWN BY:	DED
CHECKED BY:	DEH	SCALE:	AS SHOWN
PROJECT NUMBER:	3652140032		
DRAWING NUMBER:	V-101		
SHEET NUMBER:	2 OF 10		





- NOTES:
- SEE SHEET 1 FOR PLAN REFERENCES.
 - SEE SHEET 1 FOR LEGEND AND NOTES.



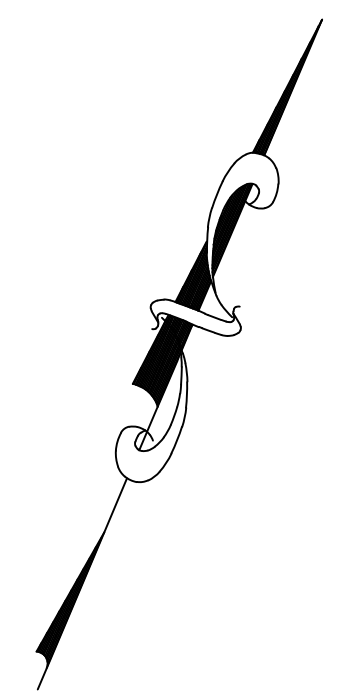
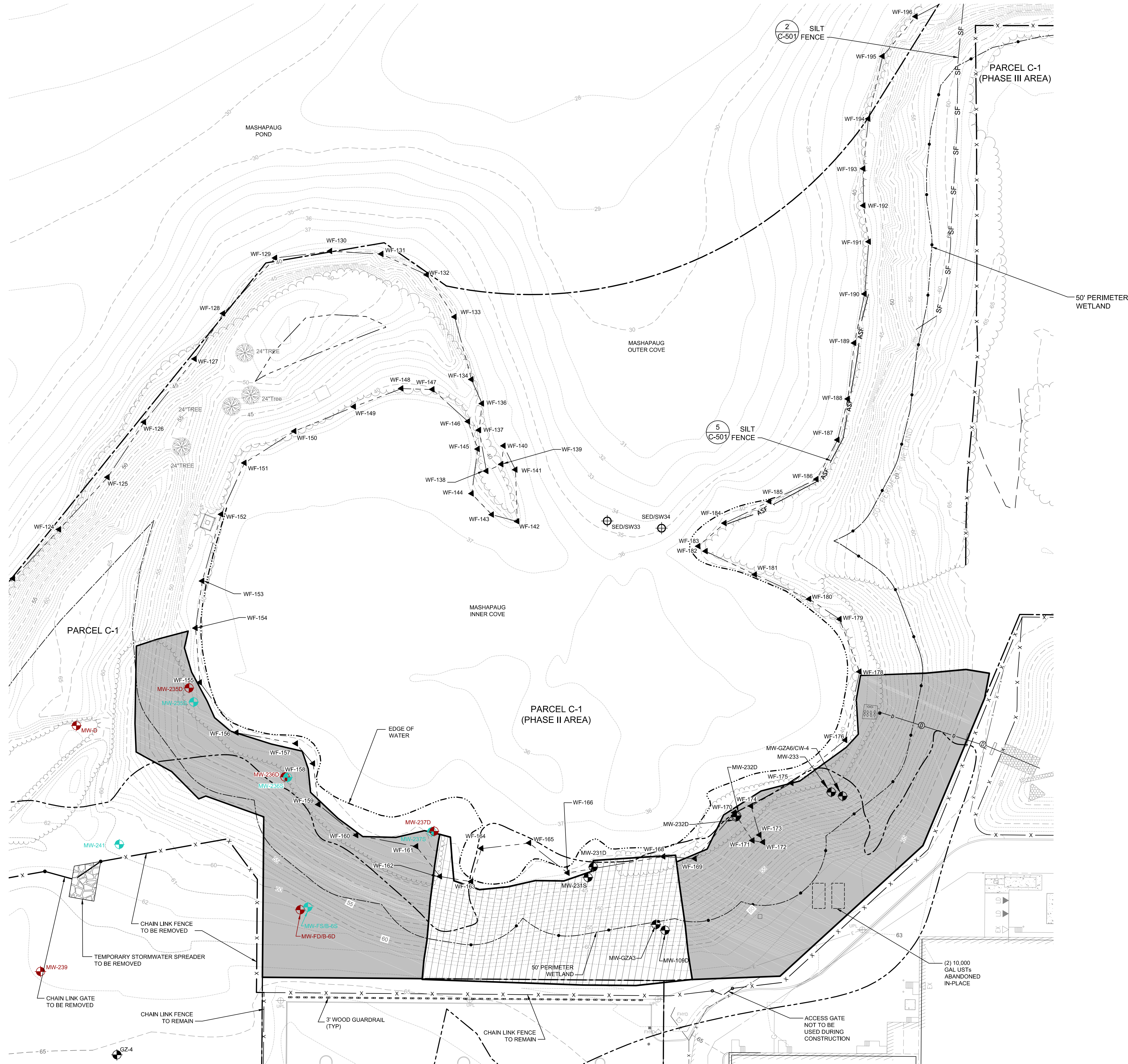
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1	02/13/2015	DRAFT - ISSUED FOR CLIENT REVIEW	DAA	RJB
0	01/12/2015	DRAFT - ISSUED FOR CLIENT REVIEW	DAA	RJB

PROJECT: **TEXTRON, INC.**
FORMER GORHAM MANUFACTURING SITE
333 ADELAIDE AVENUE, PROVIDENCE, RI
REMEDIATION ACTION WORK PLAN

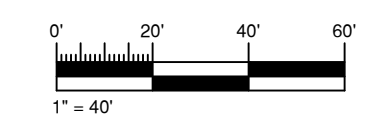
TITLE: **DEMOLITION AND EROSION**
AND CONTROL PLAN
SHEET 1 OF 3



DESIGNED BY: DAA	DRAWN BY: DED
CHECKED BY: DEH	SCALE: AS SHOWN
PROJECT NUMBER: 3652140032	
DRAWING NUMBER: V-102	
SHEET NUMBER: 3 OF 10	



- NOTES:
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 - SEE SHEET 1 FOR LEGEND AND NOTES.



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2	03/11/2015	ISSUED FOR PERMITTING	DAV	RJB
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0	01/12/2015	DRAFT - ISSUED FOR CLIENT REVIEW	DAV	RJB

PROJECT: **TEXTRON, INC.**
FORMER GORHAM MANUFACTURING SITE
333 ADELAIDE AVENUE, PROVIDENCE, RI
REMEDIATION ACTION WORK PLAN

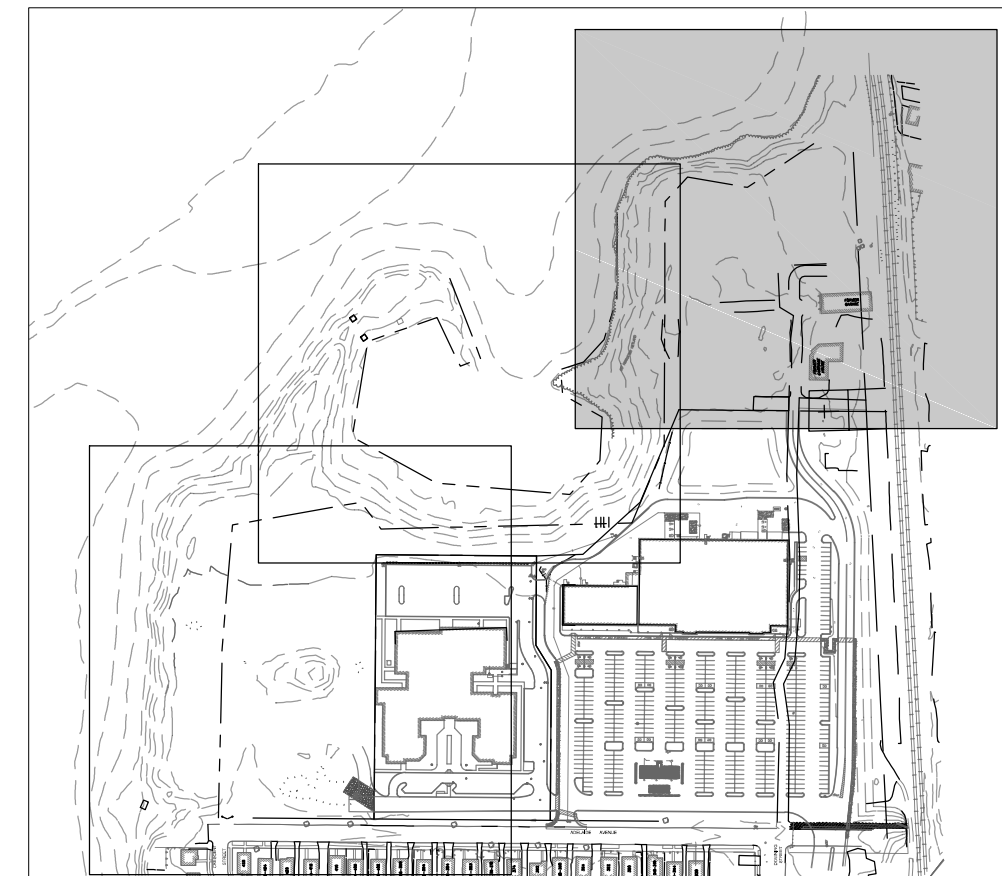
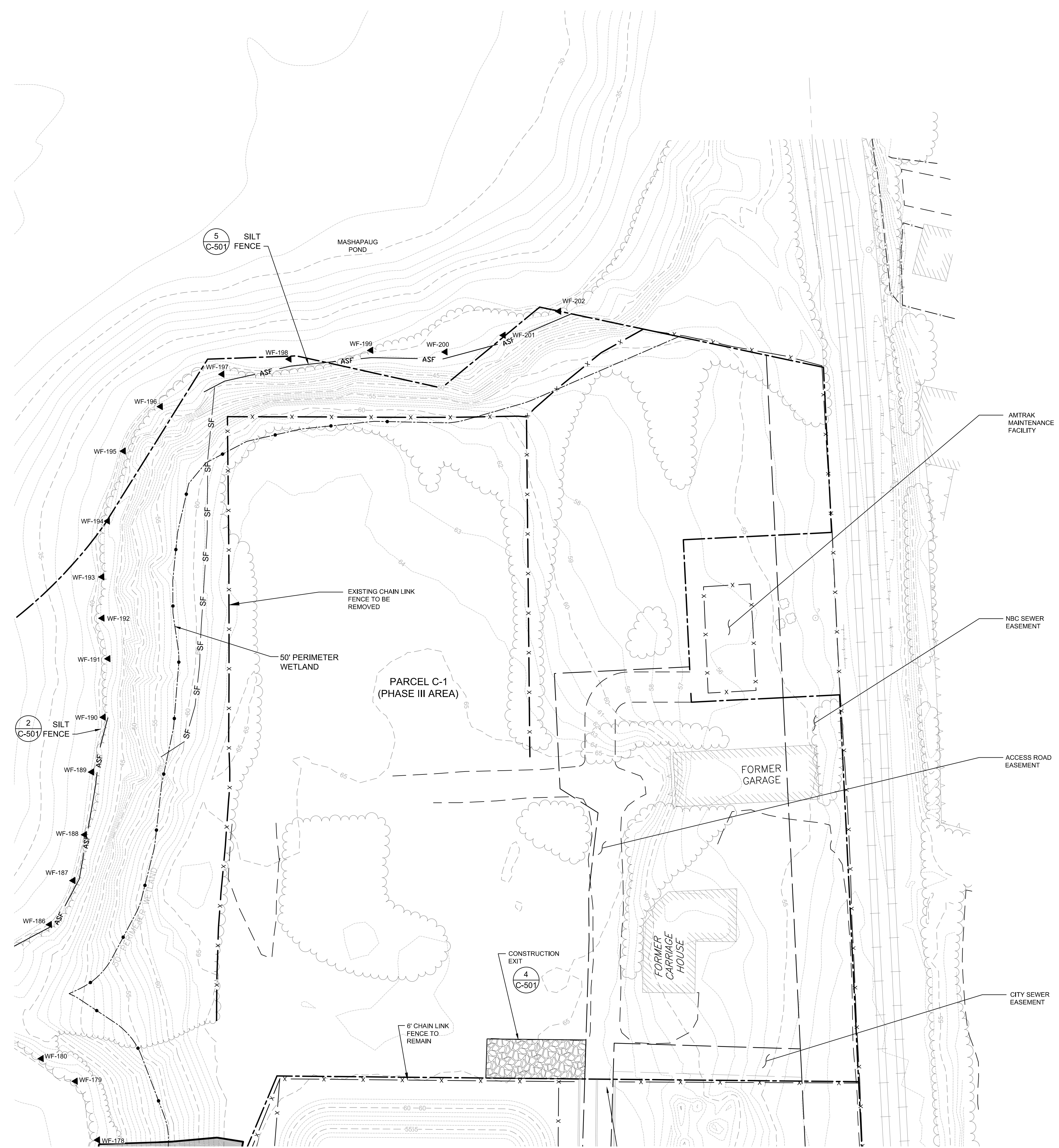
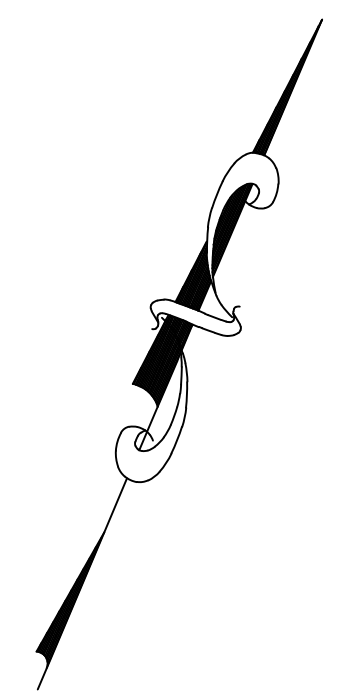
TITLE: **DEMOLITION AND EROSION**
AND CONTROL PLAN
SHEET 2 OF 3



DESIGNED BY: DAV	DRAWN BY: DED
CHECKED BY: DEH	SCALE: AS SHOWN
PROJECT NUMBER: 3652140032	DRAWING NUMBER: V-103
SHEET NUMBER: 4 OF 10	



AMEC FOSTER WHEELER
 ENVIRONMENT & INFRASTRUCTURE, INC.
 271 MILL ROAD
 CHELMSFORD MASSACHUSETTS 01824
 TELEPHONE: (978) 662-9090
 FAX: (978) 662-9653
 WEB: WWW.AMEC.COM



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0	01/12/2015	DRAFT - ISSUED FOR CLIENT REVIEW	DAA	RJB

PROJECT: **TEXTRON, INC.**
FORMER GORHAM MANUFACTURING SITE
333 ADELAIDE AVENUE, PROVIDENCE, RI
 REMEDIAL ACTION WORK PLAN

TITLE: **DEMOLITION AND EROSION**
AND CONTROL PLAN
 SHEET 3 OF 3

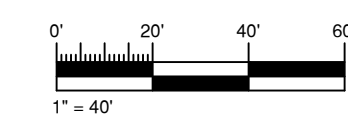


CLIENT: **TEXTRON, INC.**

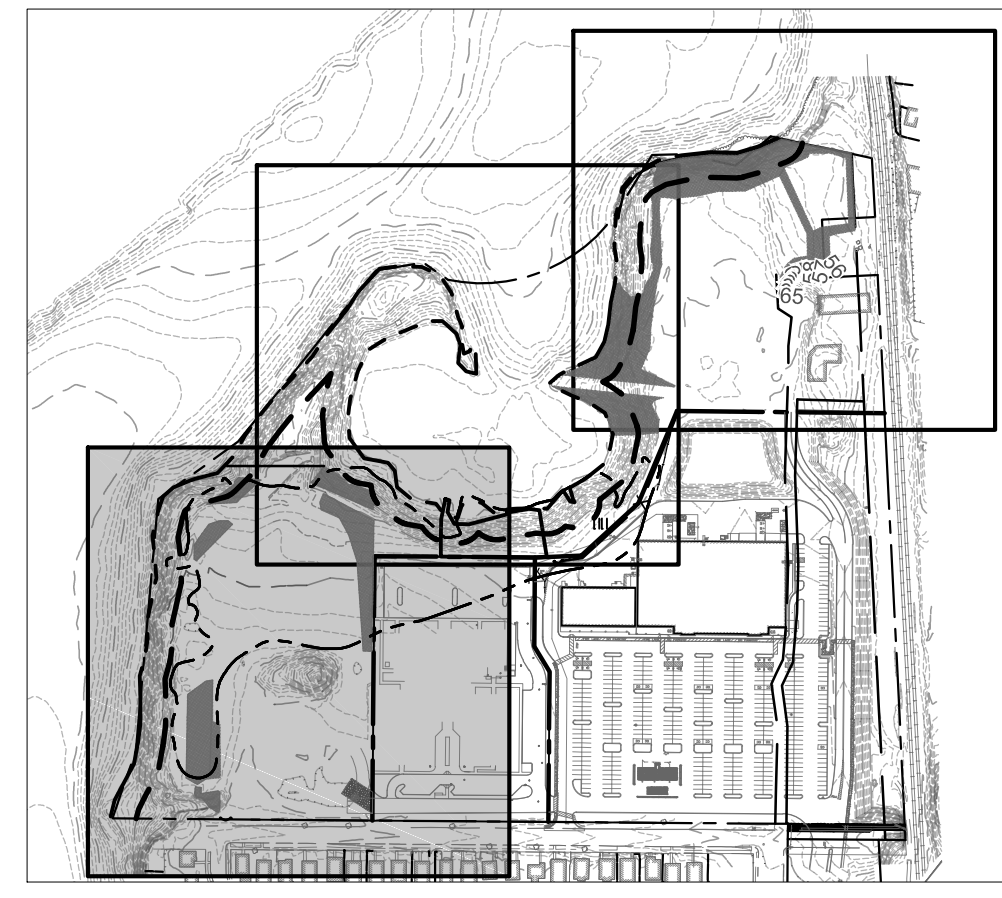
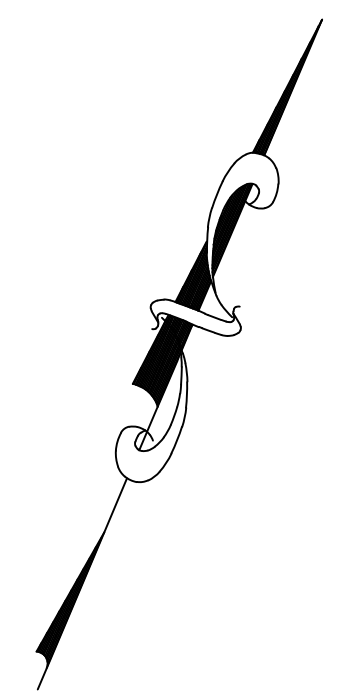
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 CHECKED BY: DEH
 PROJECT NUMBER: 3652140032
 DRAWING NUMBER: **V-104**

DRAWN BY: DED
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 SHEET NUMBER: **5 OF 10**

- NOTES:
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 - SEE SHEET 1 FOR LEGEND AND NOTES.

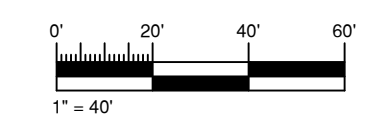


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INSET NOT TO SCALE

- NOTES:
- SEE SHEET 1 FOR PLAN REFERENCES.
 - SEE SHEET 1 FOR LEGEND AND NOTES.



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0	01/12/2015	DRAFT - ISSUED FOR CLIENT REVIEW	DAA	RJB

PROJECT: **TEXTRON, INC.**
FORMER GORHAM MANUFACTURING SITE
333 ADELAIDE AVENUE, PROVIDENCE, RI
REMEDIATION ACTION WORK PLAN

TITLE: **PROPOSED SITE PLAN**
SHEET 1 OF 3



DESIGNED BY: DAA	DRAWN BY: DED
CHECKED BY: DEH	SCALE: AS SHOWN
PROJECT NUMBER: 3652140032	DRAWING NUMBER: C-101
SHEET NUMBER: 6 OF 10	

REVISION	DATE	ISSUE / REVISION DESCRIPTION	ISSUED BY	APPROVED
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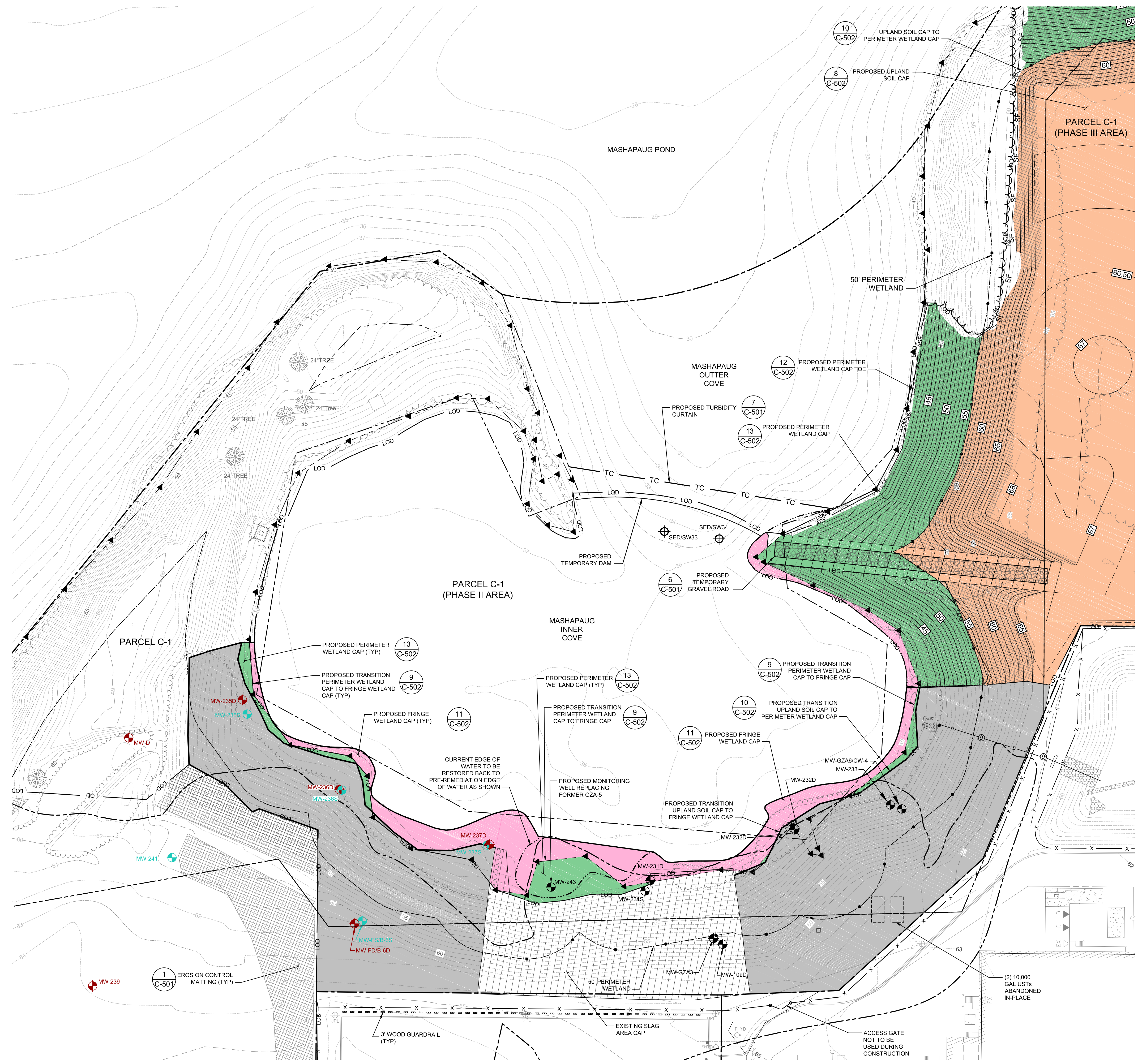
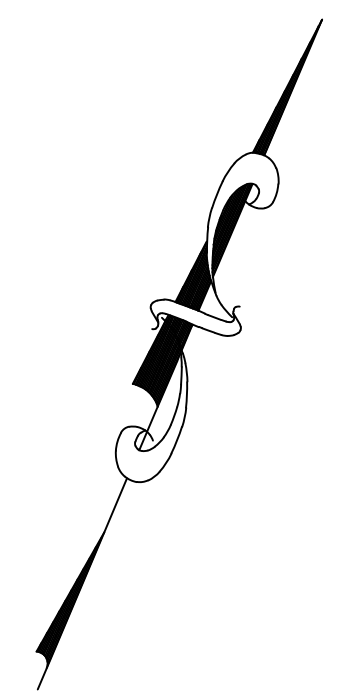
PROJECT: **TEXTRON, INC.**
FORMER GORHAM MANUFACTURING SITE
333 ADELAIDE AVENUE, PROVIDENCE, RI
REMEDIATION ACTION WORK PLAN

TITLE: **PROPOSED SITE PLAN**
SHEET 2 OF 3

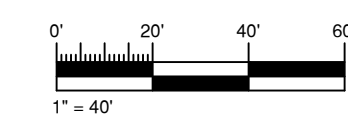
CLIENT: **TEXTRON**

DESIGNED BY: DAA
 CHECKED BY: DEH
 PROJECT NUMBER: 3652140032
 DRAWING NUMBER: **C-102**
 SHEET NUMBER: **7 OF 10**

DRAWN BY: SCALE
 DEH AS SHOWN



- NOTES:
 1. SEE SHEET 1 FOR PLAN REFERENCES.
 2. SEE SHEET 1 FOR LEGEND AND NOTES.





REVISION	DATE	ISSUE / REVISION DESCRIPTION	ISSUED BY	APPROVED
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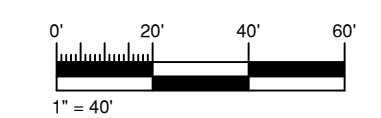
PROJECT: **TEXTRON, INC.**
FORMER GORHAM MANUFACTURING SITE
333 ADELAIDE AVENUE, PROVIDENCE, RI
REMEDIATION ACTION WORK PLAN

TITLE: **PROPOSED SITE PLAN**
SHEET 3 OF 3



DESIGNED BY: DAA	DRAWN BY: DED
CHECKED BY: DEH	SCALE: AS SHOWN
PROJECT NUMBER: 3652140032	DRAWING NUMBER: C-103
SHEET NUMBER: 8 OF 10	

- NOTES:
 1. SEE SHEET 1 FOR PLAN REFERENCES.
 2. SEE SHEET 1 FOR LEGEND AND NOTES.



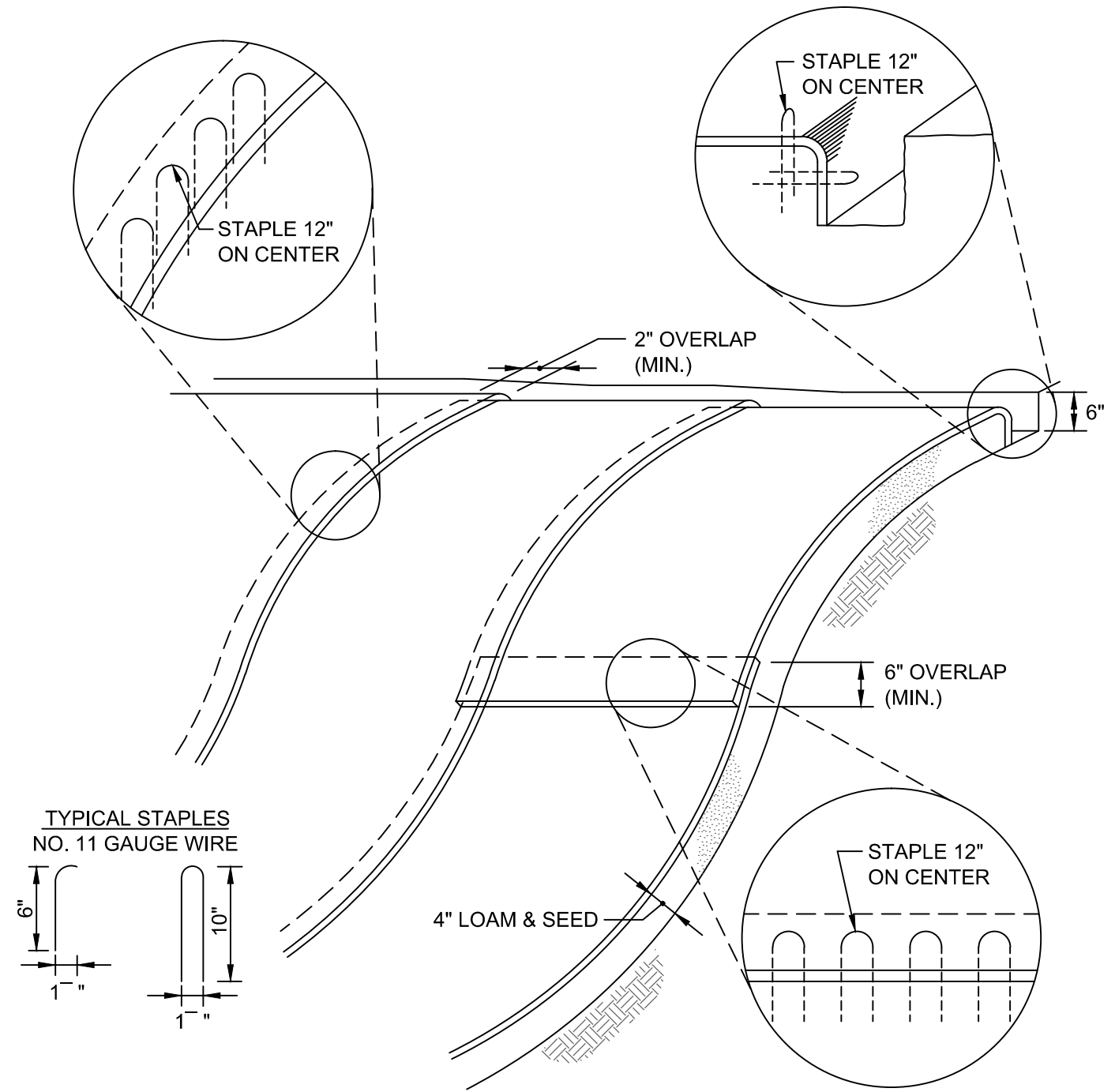
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1	02/13/2015	DRAFT - ISSUED FOR CLIENT REVIEW	DAA	
0	01/12/2015	DRAFT - ISSUED FOR CLIENT REVIEW	DAA	

PROJECT: **TEXTRON, INC. FORMER GORHAM MANUFACTURING SITE**
333 ADELAIDE AVENUE PROVIDENCE, RI
REMEDIAL ACTION WORK PLAN

TITLE: **DETAILS SHEET 1 OF 2**

CLIENT: **TEXTRON**

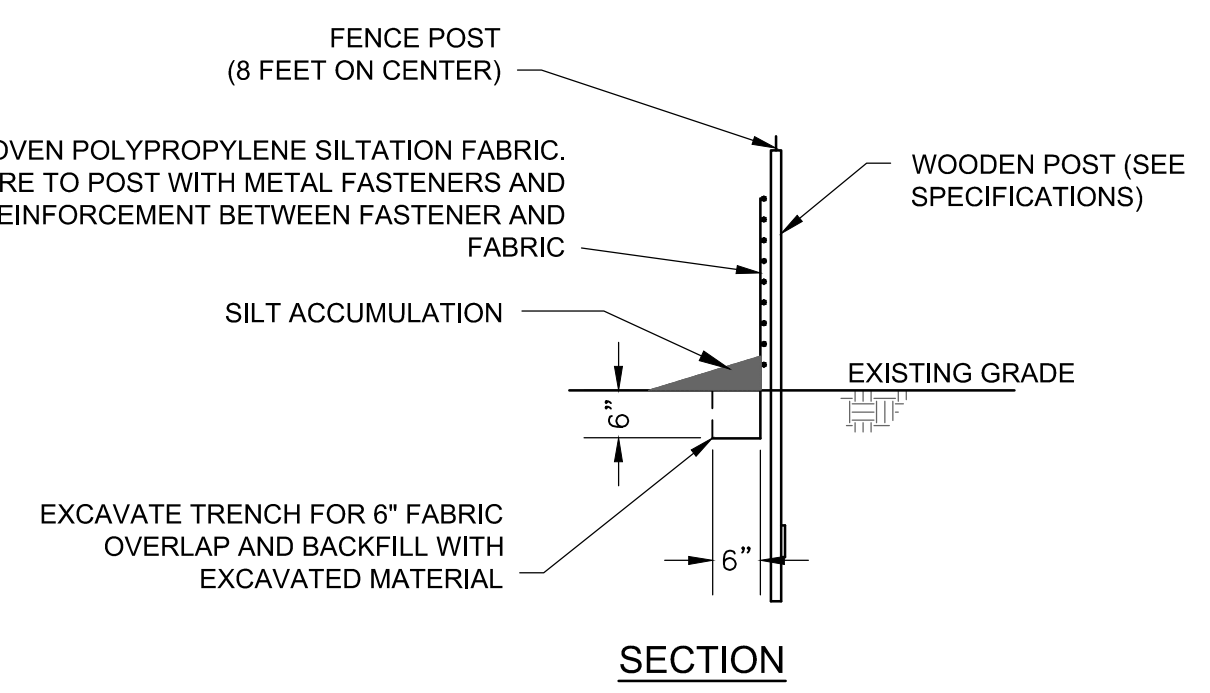
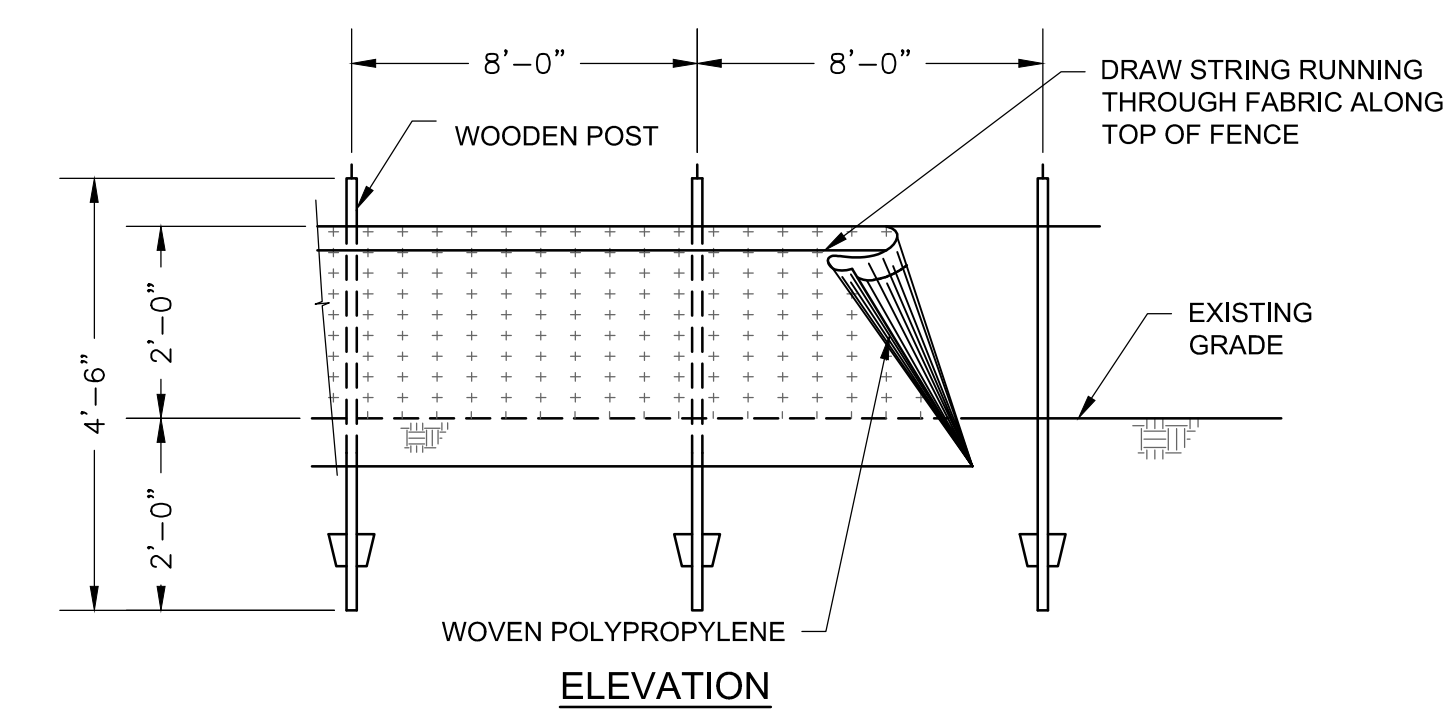
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PROJECT NUMBER: 3652140032	
DRAWING NUMBER: C-501	
SHEET NUMBER: 9 OF 10	



NOTES:

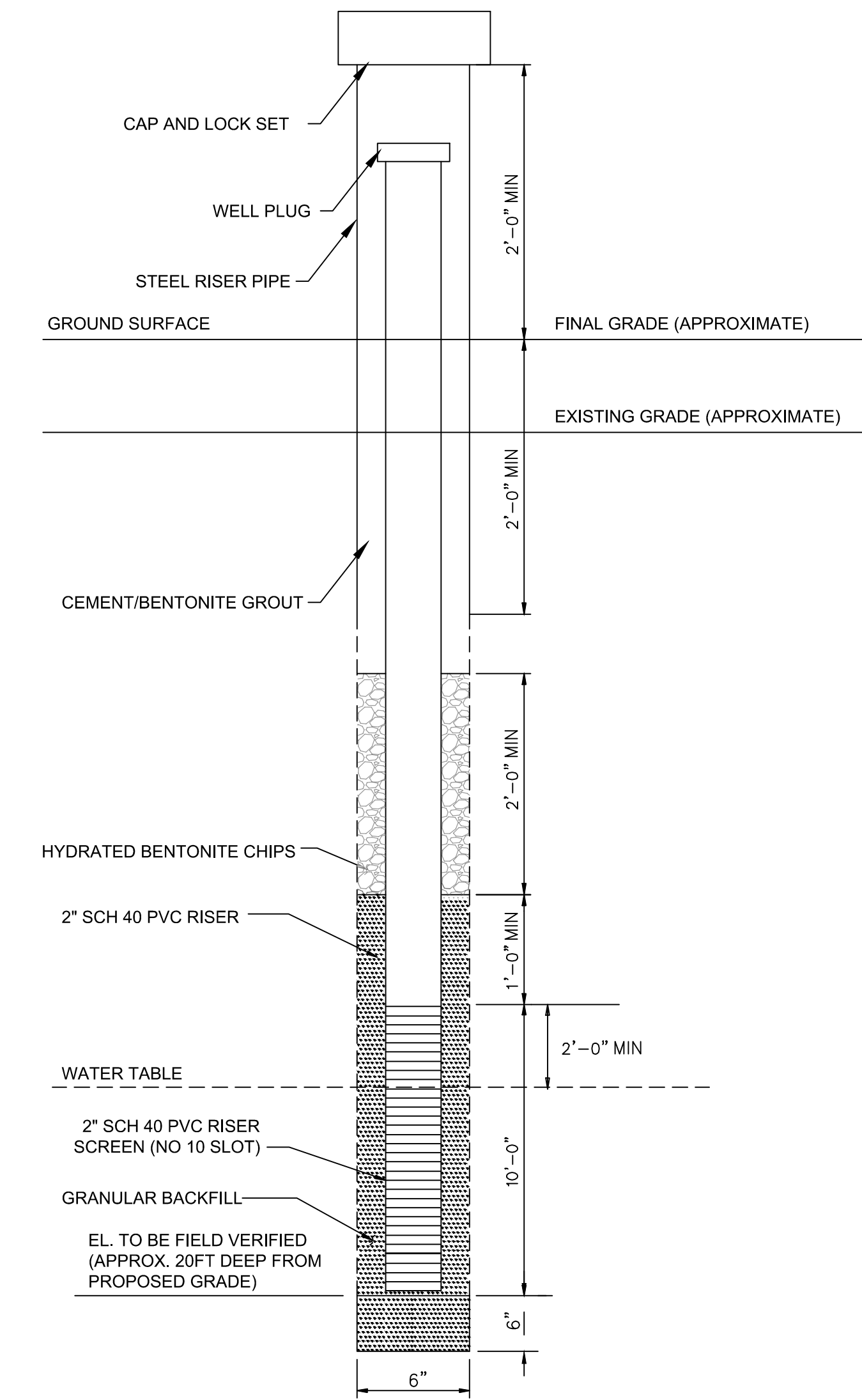
- BEGIN AT THE TOP OF MATTING INSTALLATION AREA BY ANCHORING MATTING IN A 6" DEEP TRENCH BACKFILL AND COMPACT TRENCH AFTER STAPLING.
- ROLL THE MATTING DOWN THE SWALE IN THE DIRECTION OF THE WATER FLOW.
- THE EDGES OF MATTINGS MUST BE STAPLED WITH A MINIMUM OF 4 INCH OVERLAP WHERE 2 OR MORE STRIP WIDTHS ARE REQUIRED.
- WHEN MATTINGS MUST BE SPLICED DOWN THE SWALE, PLACE MATTING END OVER END WITH 6 INCH (MIN.) OVERLAP AND ANCHOR DOWN SLOPE MATTING IN A 6 INCH DEEP TRENCH.

EROSION CONTROL MATTING SLOPE INSTALLATION (1, 1, 1)
C-101 C-102 C-113
NTS

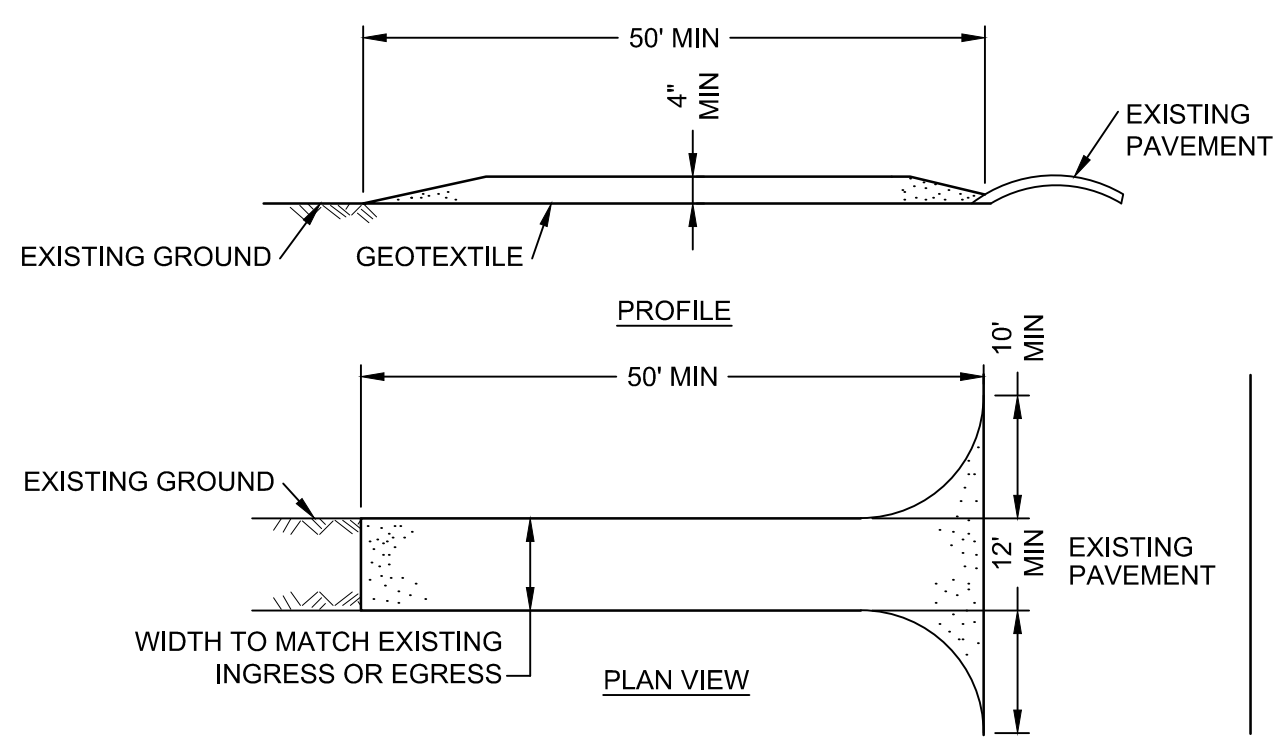


NOTE: WHERE REQUIRED AS SHOWN ON THE DRAWINGS. SILTATION FENCE REINFORCED WITH HOG OR CHICKEN WIRE OR INTEGRAL PLASTIC MESH REINFORCING MAY BE USED.

SILT FENCE (2, 2, 2)
V-102 V-103 V-104
NTS



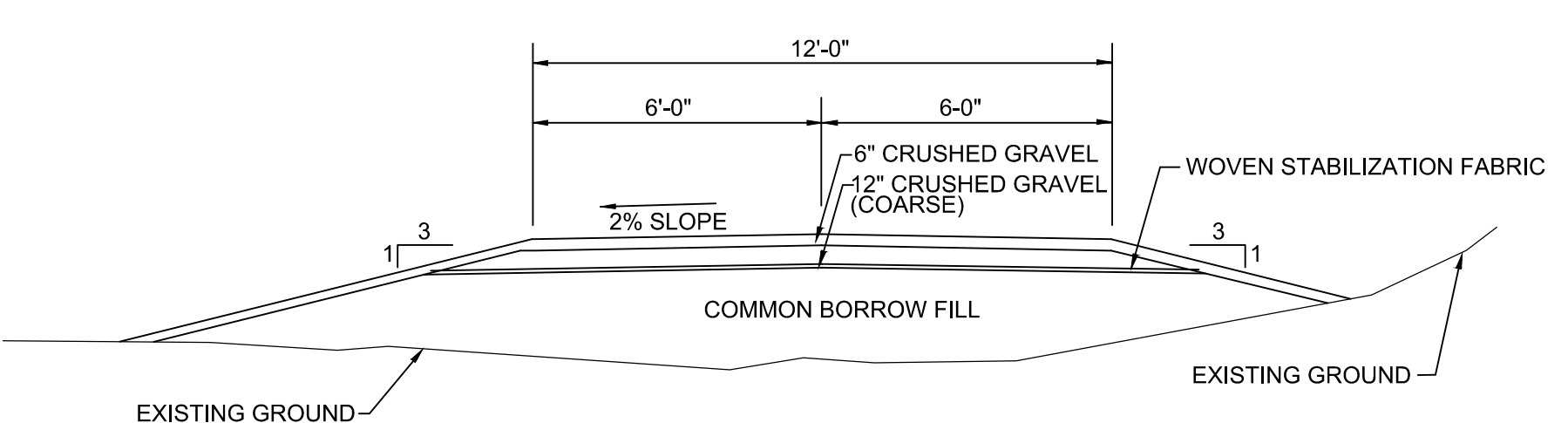
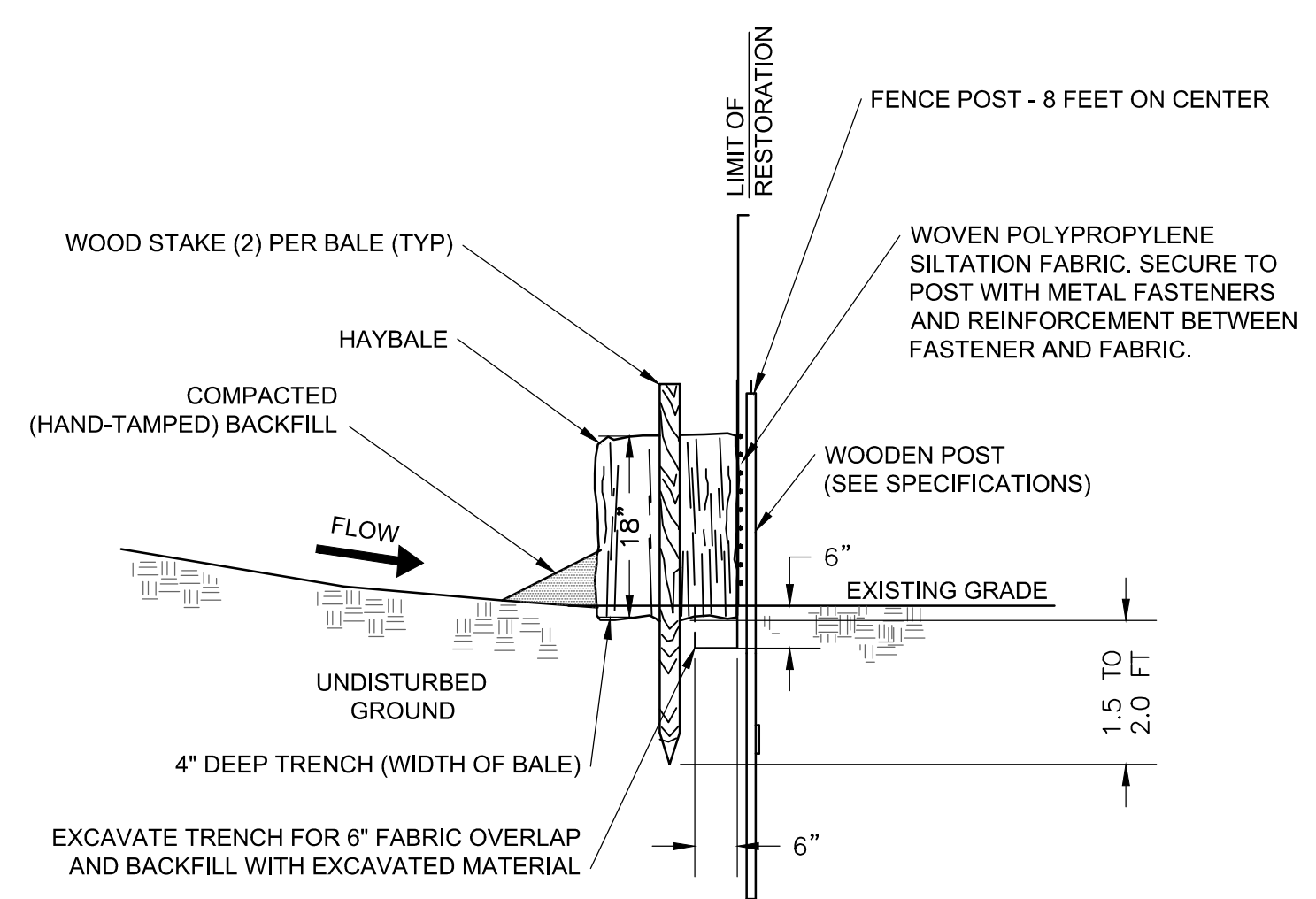
TYPICAL MONITORING WELL INSTALLATION (3, 3)
C-101 C-102
NTS



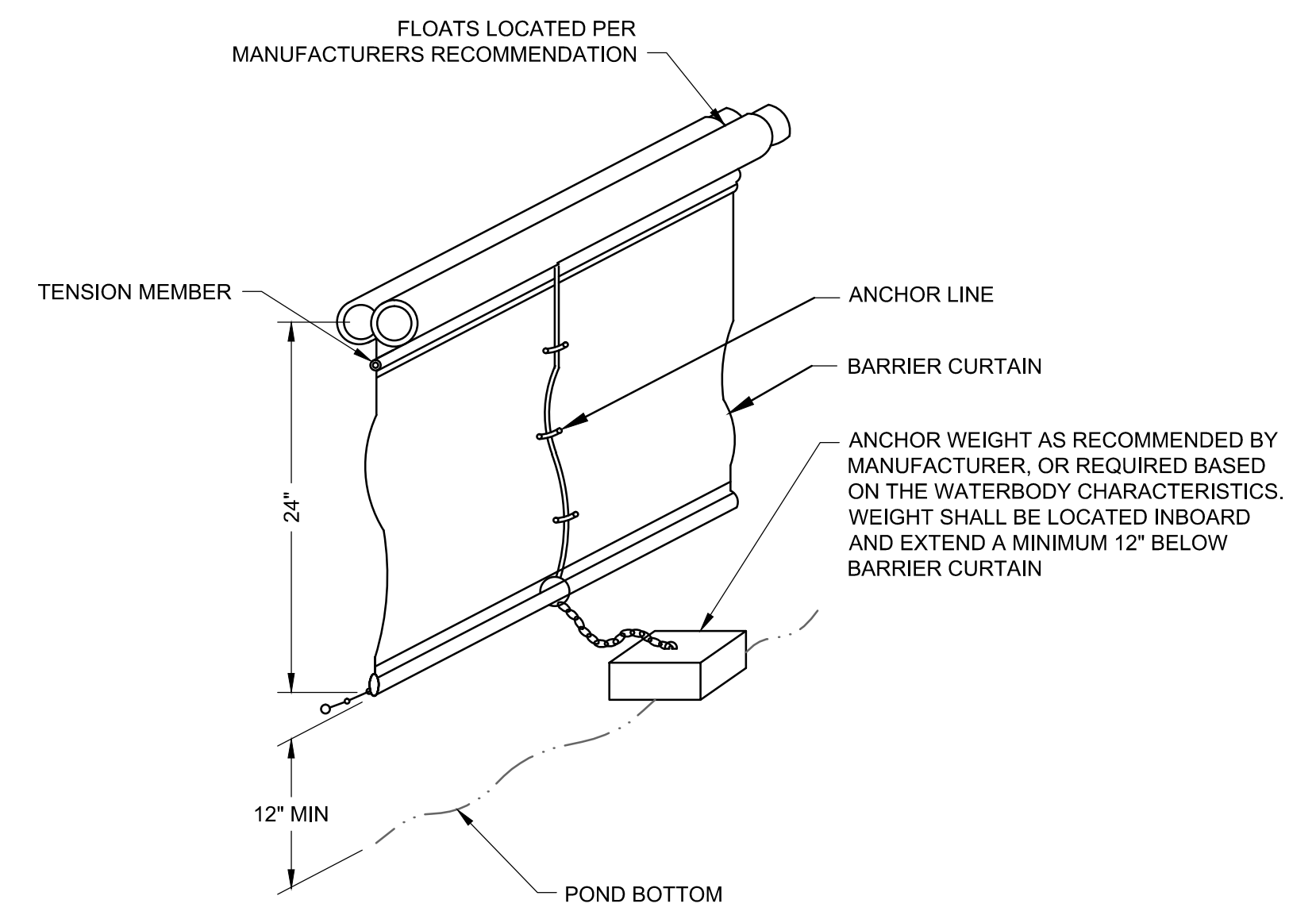
CONSTRUCTION SPECIFICATIONS:

- STONE SIZE - USE 2 INCH CRUSHED STONE OR GRAVEL.
- LENGTH - NOT LESS THAN 50 FEET.
- THICKNESS - NOT LESS THAN FOUR (4) INCHES.
- WIDTH - TWELVE (12) FEET MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FEET IF SINGLE ENTRANCE TO SITE.
- GEOTEXTILE - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND REQUIRED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN EVENT.

STABILIZED CONSTRUCTION ENTRANCE (4, 4, 4, 4, 4)
V-102 V-104 C-101 C-102 C-103
NTS



TEMPORARY GRAVEL ACCESS ROAD FROM PHASE III AREA TO INNER COVE (6, 6)
C-102 C-103
NTS



NOTES:

- THE TURBIDITY CURTAIN SHALL BE DEPLOYED PRIOR TO DISTURBING THE WATERBODY BANK SOILS.
- THE TURBIDITY CURTAIN SHALL WITHSTAND THE WATERBODY FLOW CHARACTERISTICS.

TURBIDITY CURTAIN DETAIL (7, 7)
C-102 C-103
NTS

NO.	DATE	REVISION	ISSUE / REVISION DESCRIPTION	ISSUED BY	APPROVED
2	03/11/2015		ISSUED FOR PERMITTING	DAA	
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0	01/12/2015		DRAFT - ISSUED FOR CLIENT REVIEW	DAA	

PROJECT: **TEXTRON, INC.**
FORMER GORHAM MANUFACTURING SITE
333 ADELAIDE AVENUE, PROVIDENCE, RI
REMEDIAL ACTION WORK PLAN

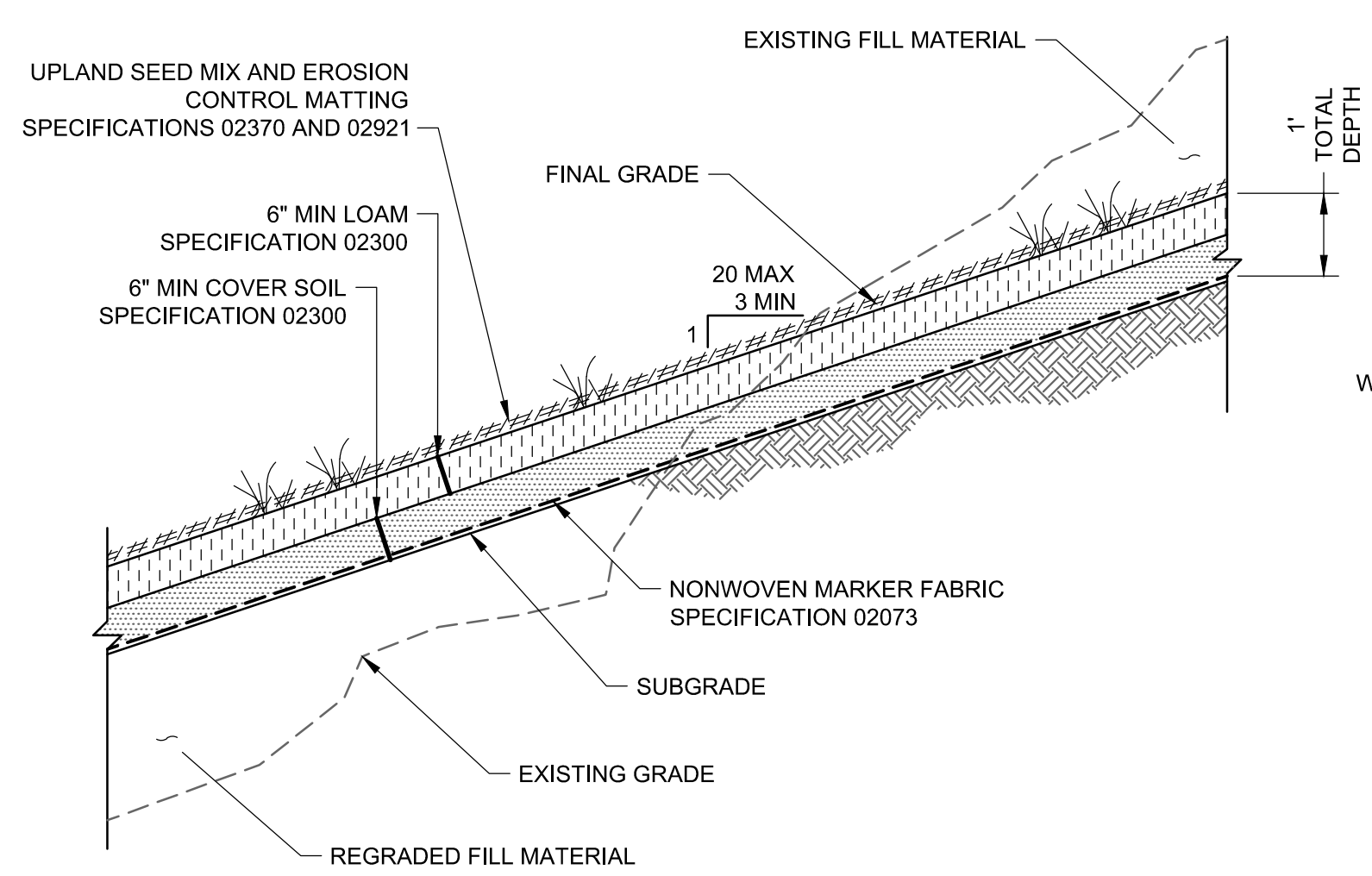
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SHEET 2 OF 2

CLIENT: **TEXTRON**

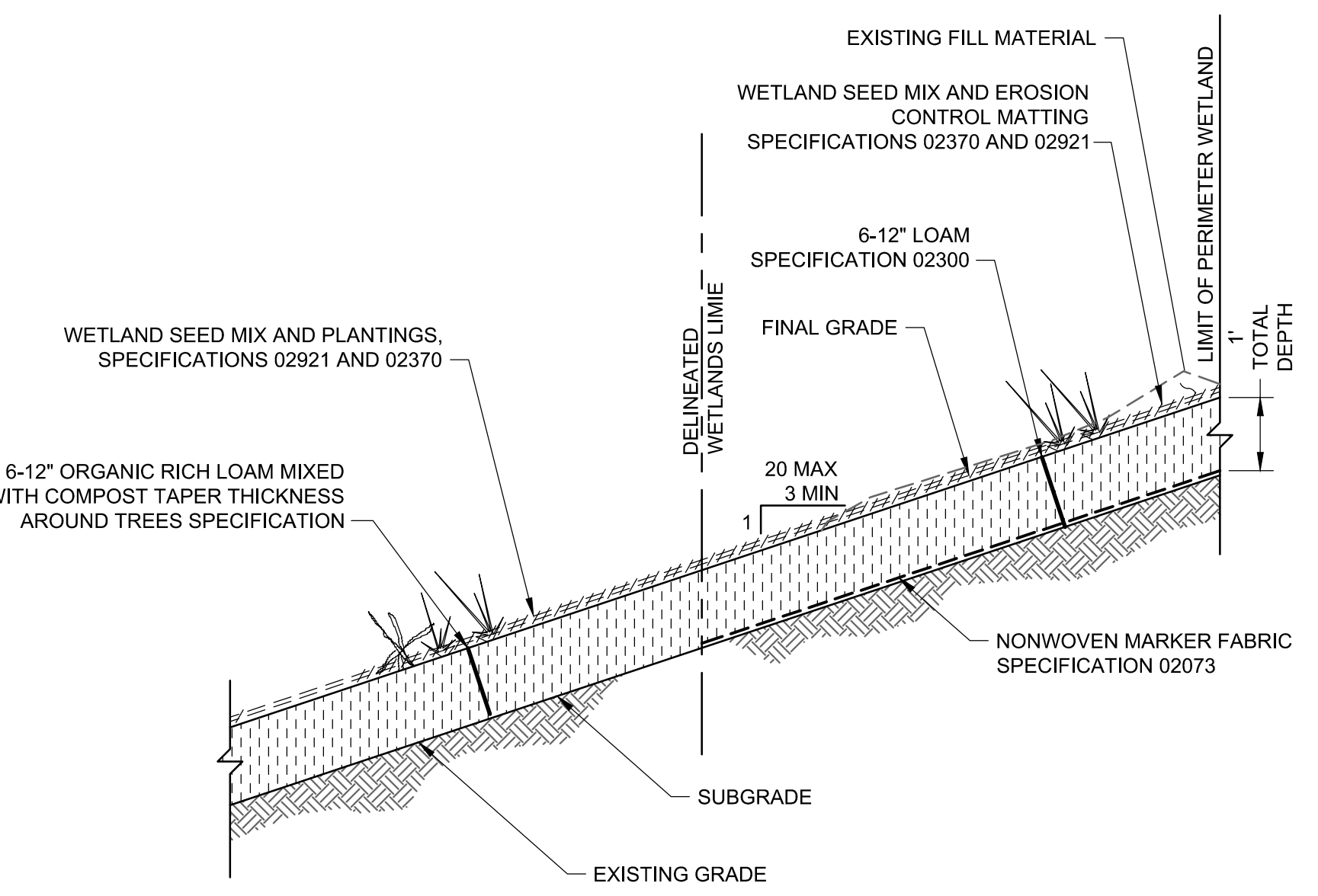
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DRAWN BY: DED
CHECKED BY: DEH
SCALE: NOT TO SCALE

PROJECT NUMBER: 3652140032
DRAWING NUMBER: **C-502**
SHEET NUMBER: **10 OF 10**

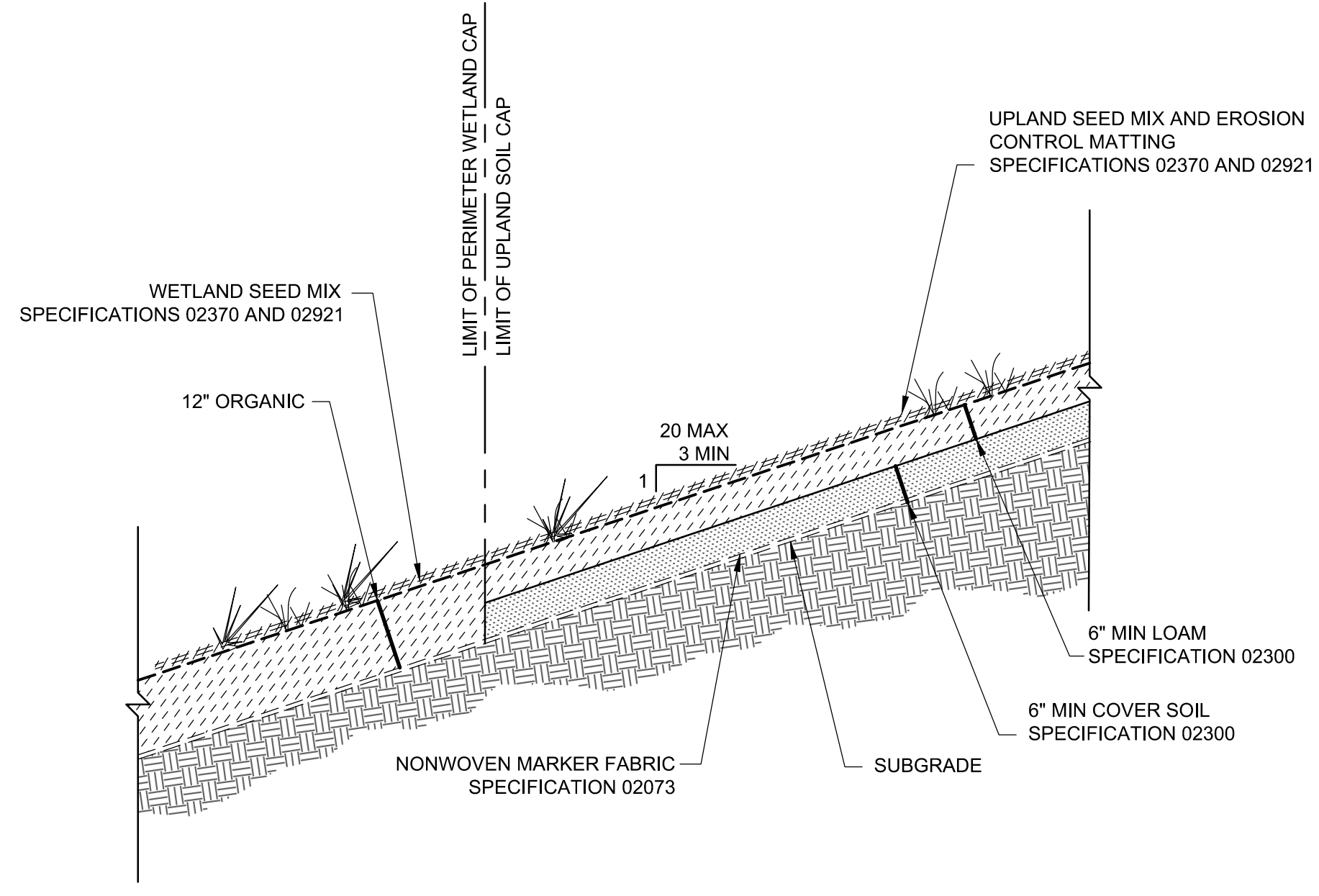
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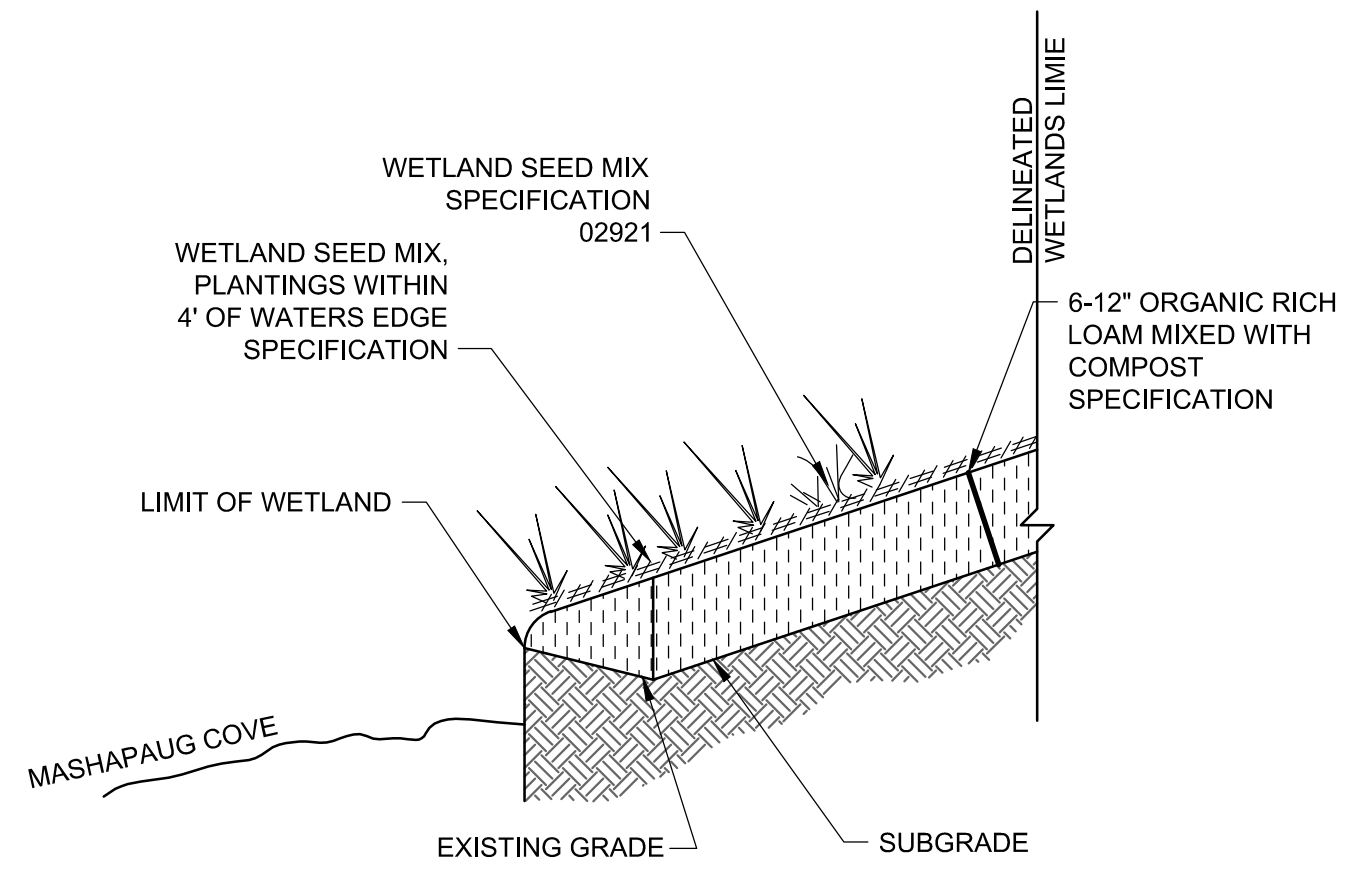
TYPICAL UPLAND SOIL CAP
NTS
8 8
C-102 C-103



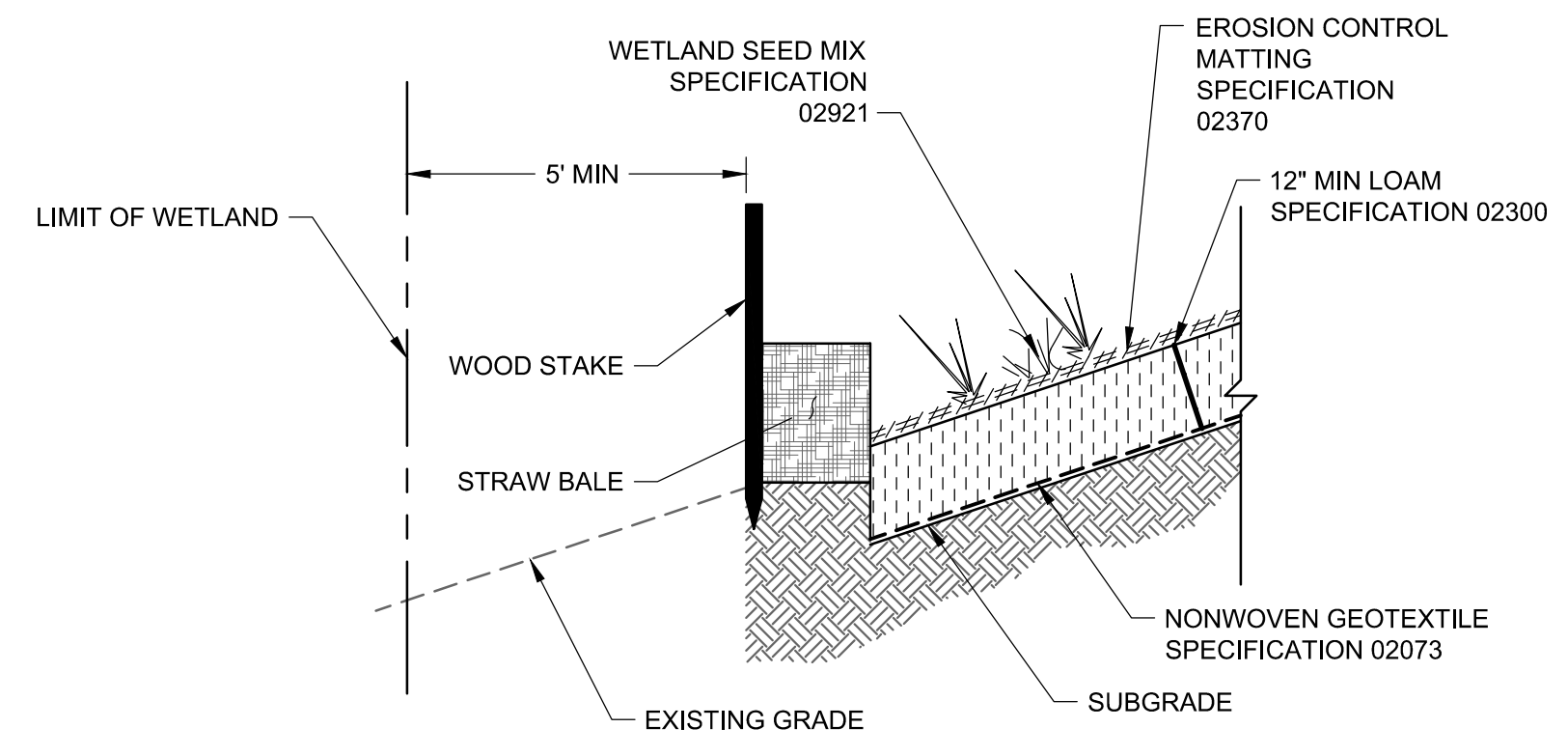
**TYPICAL TRANSITION DETAIL:
PERIMETER WETLAND CAP TO FRINGE WETLAND CAP**
NTS
9 9 9
C-101 C-102 C-103



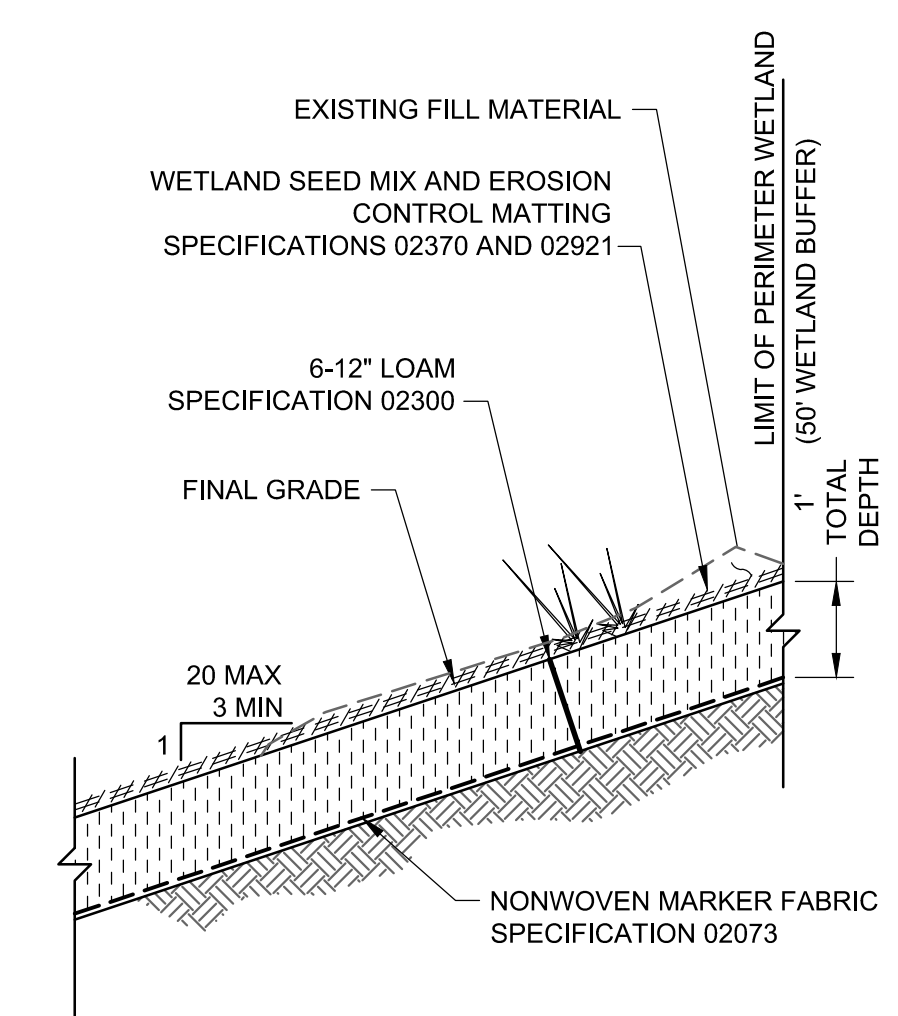
**TYPICAL TRANSITION DETAIL:
UPLAND SOIL CAP TO PERIMETER WETLAND CAP**
NTS
10 10
C-102 C-103



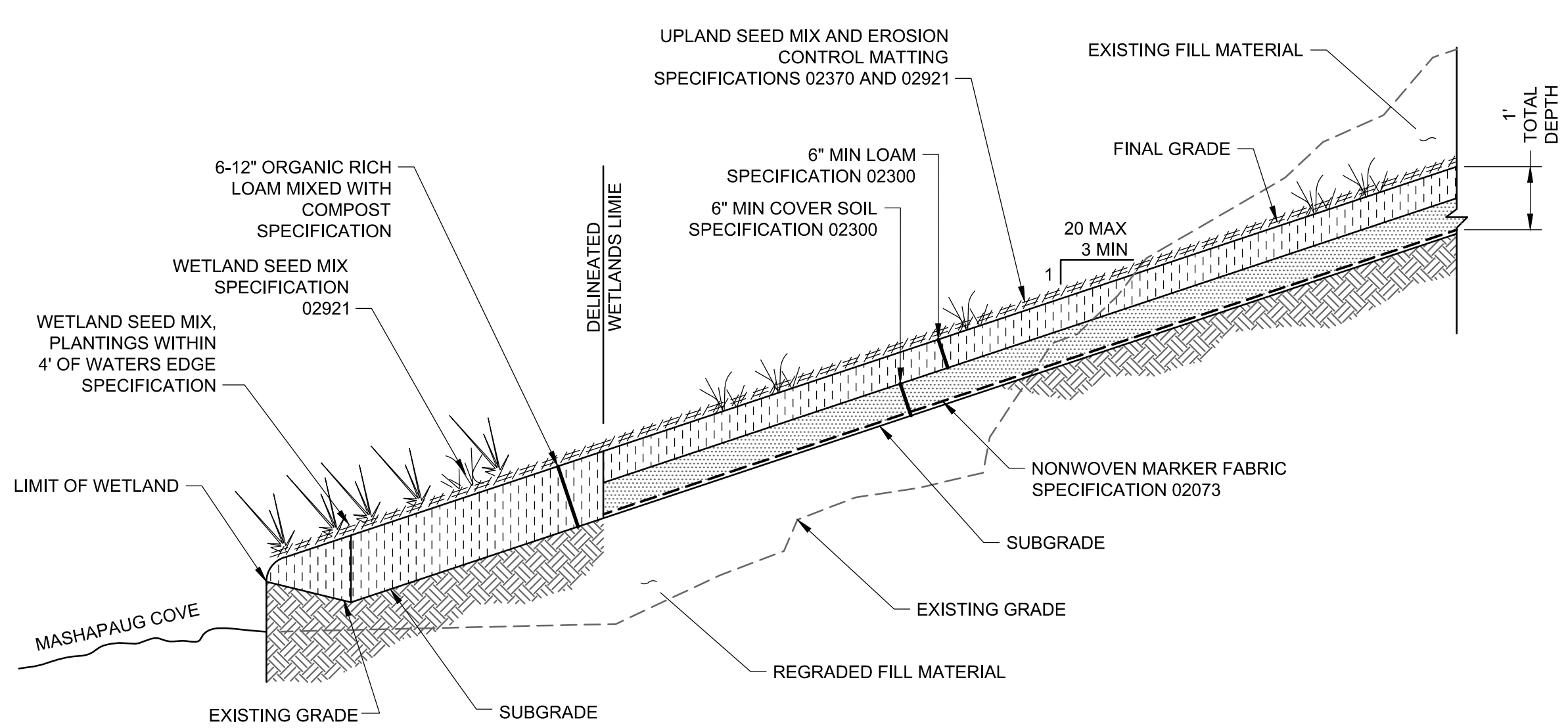
TYPICAL FRINGE WETLAND CAP
NTS
11 11 11
C-101 C-102 C-103



TYPICAL PERIMETER WETLAND CAP TOE DETAIL
NTS
12
C-105



TYPICAL PERIMETER WETLAND CAP
NTS
13 13 13
C-101 C-102 C-103



**TYPICAL TRANSITION DETAIL:
UPLAND SOIL CAP TO FRINGE WETLAND CAP**
NTS
14
C-102