

# Allenstown Transfer Station Stormwater Improvements

## 104 River Road Allenstown, New Hampshire

Prepared For:  
**Casella Waste Management of Massachusetts, Inc.**  
 53 Pelham Road  
 Salem, New Hampshire  
 Permitting Set - June 21, 2019

**Design Consultants:**

CIVIL ENGINEER  
 WALSH ENGINEERING ASSOCIATES, INC.  
 ONE KAREN DRIVE, SUITE 2A  
 WESTBROOK, MAINE 04092  
 207-553-9898

**Utilities:**

WATER  
 PEMBROKE WATER WORKS  
 346 PEMBROKE STREET  
 PEMBROKE, NEW HAMPSHIRE 03275-3236

ELECTRIC  
 EVERSOURCE ENERGY  
 780 N. COMMERCIAL STREET  
 MANCHESTER, NH 03101  
 866-554-6025

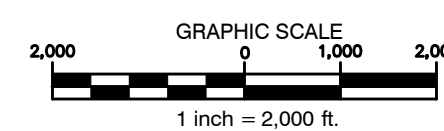
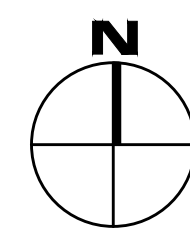
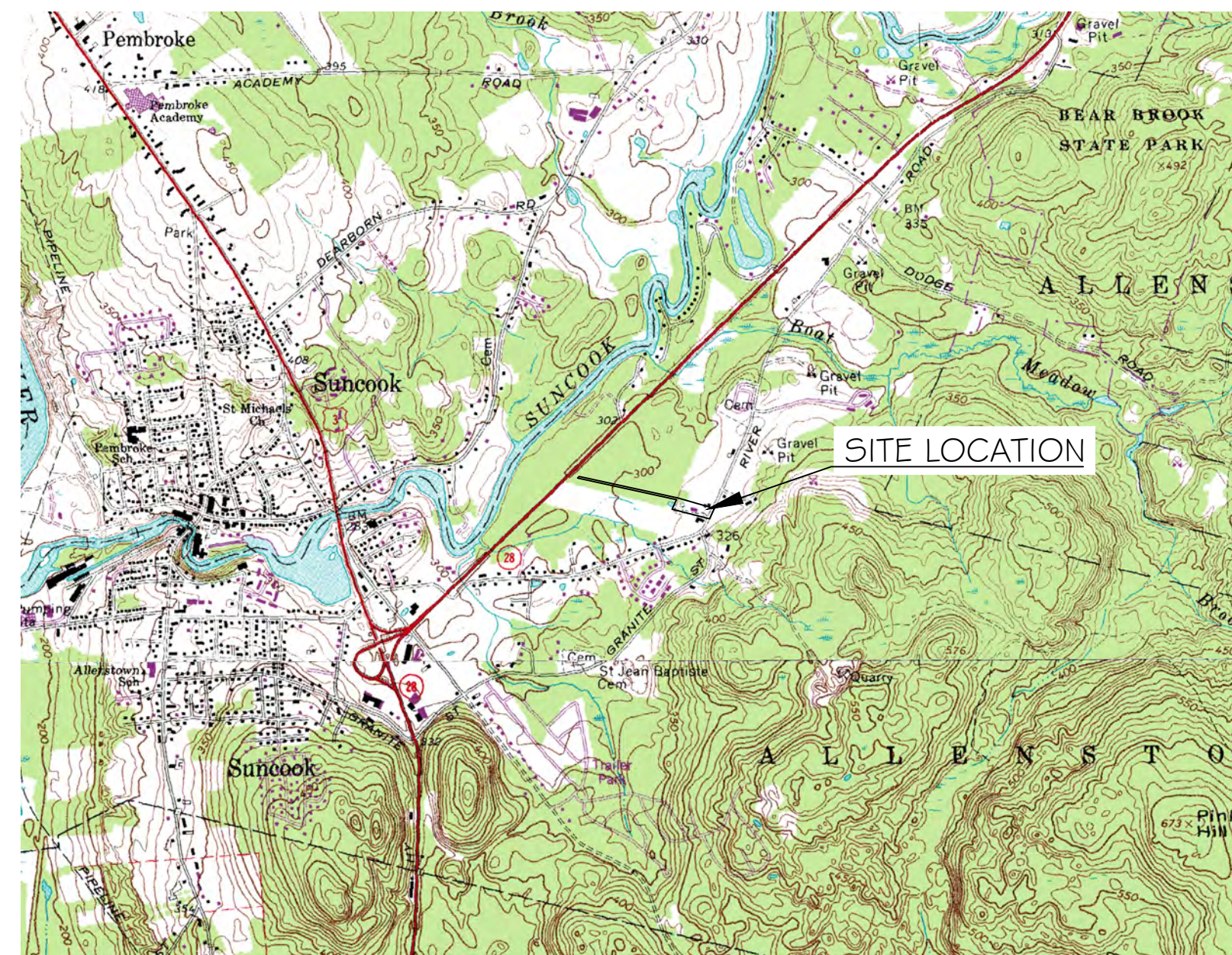
SEWER  
 ALLENSTOWN SEWER DEPARTMENT  
 35 CANAL STREET  
 ALLENSTOWN, NEW HAMPSHIRE 03275  
 603-485-5600



One Karen Dr., Suite 2A | Westbrook, Maine 04092  
 ph: 207.553.9898 | www.walsh-eng.com

**List of Drawings:**

SHEET NO.	SHEET TITLE
	COVER SHEET
	DOUCET SURVEY PLAN
C1.0	EXISTING CONDITIONS & REMOVALS PLAN
C1.1	EASEMENT AND ABUTTER PLAN
C2.0	STORMWATER MANAGEMENT SITE PLAN
C3.0	DETAILS
C3.1	DETAILS



**Permits:**

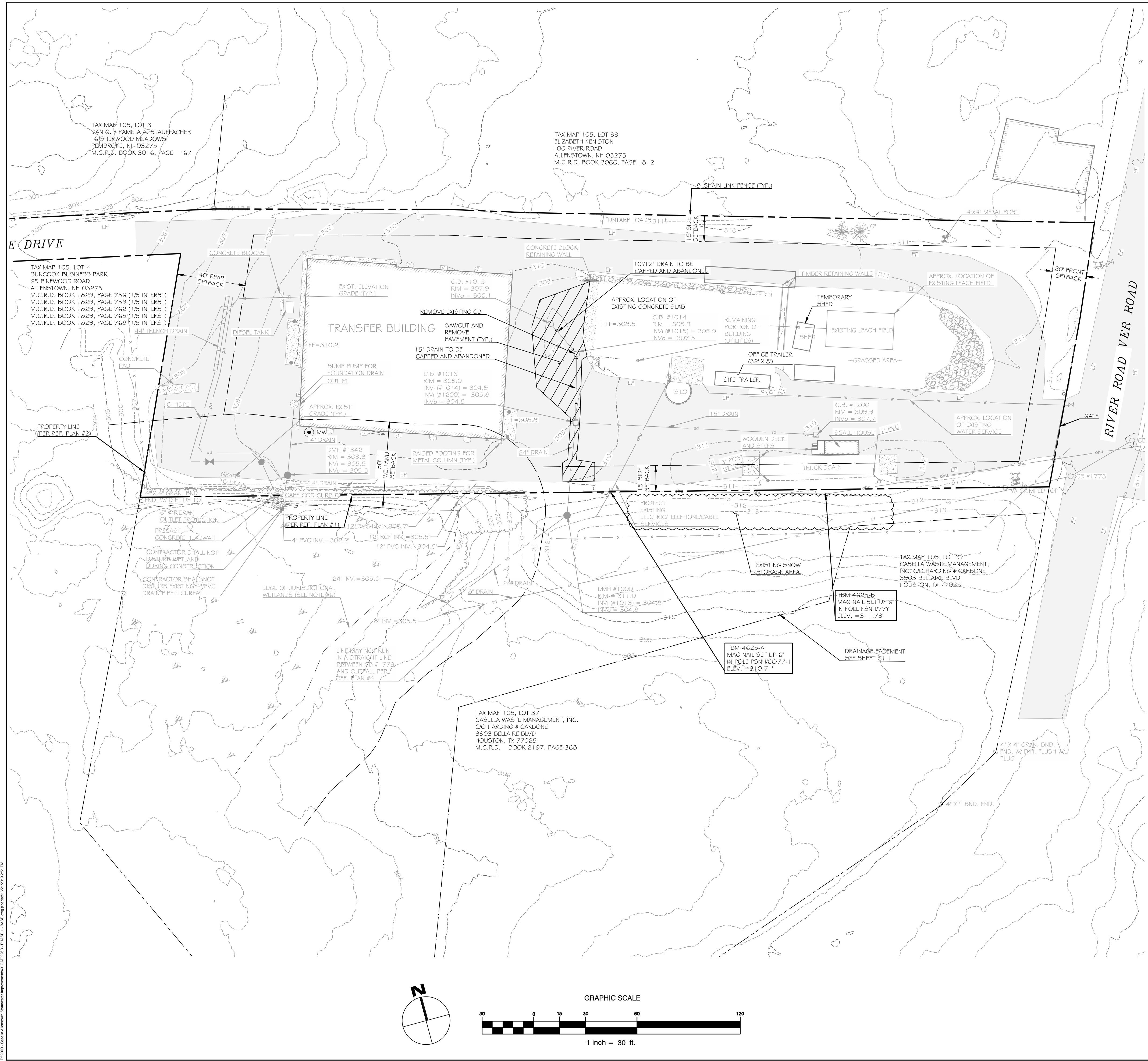
TYPE	JURISDICTION	STATUS
MINOR SITE PLAN APPLICATION	TOWN OF ALLENSTOWN	SUBMITTED JUNE 21, 2019

**Record Owner:**

CASELLA WASTE MANAGEMENT OF MASSACHUSETTS, INC.  
 104 RIVER ROAD  
 ALLENSTOWN, NH

**Parcel ID:**

MAP 105  
 LOT 38



**LEGEND**

EXISTING	
⊕	STORM DRAIN MANHOLE
■	STORM DRAIN CATCH BASIN
— — —	STORM DRAIN LINE
⊙	SANITARY SEWER MANHOLE
— — —	SANITARY SEWER LINE
— — —	WATER LINE
— — —	OVERHEAD UTILITY LINE
●	BOLLARD
▭	BUILDING
—x—x—x—	FENCE METAL
—x—x—x—	RIPRAP
— — —	EDGE OF PAVEMENT
— — —	EDGE OF CONCRETE
— — —	CURB
— — —	TREELINE
— — —	INTERMEDIATE CONTOUR
— — —	INDEX CONTOUR
— — —	WETLANDS
— — —	WETLAND BUFFER

- PLAN REFERENCES:**
- TOPOGRAPHIC AND PROPERTY BOUNDARY INFORMATION TAKEN FROM A COMPILATION OF THE FOLLOWING:
    - A SET OF SITE PLANS TITLED "TRANSFER STATION ALLENSTOWN, NEW HAMPSHIRE" PREPARED BY GEOSIGHT, INC. OF 106 GRANITE ST., 3RD FLOOR, SUITE A, MANCHESTER, NH DATED JANUARY 19, 2007
    - A PLAN TITLED "TOPOGRAPHIC AND BOUNDARY LINE VERIFICATION PLAN FOR WALSH ENGINEERING ASSOCIATES" PREPARED BY DOUCET SURVEY, INC. OF 102 KENT PLACE, NEWMARKET, NEW HAMPSHIRE AND DATED AUGUST 2016.

- GENERAL NOTES:**
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "DIG SAFE" AND LOCAL UTILITY COMPANIES AT LEAST THREE (3) BUSINESS DAYS, BUT NOT MORE THAN 30 CALENDAR DAYS, PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION, IN ACCORDANCE WITH NEW HAMPSHIRE STATE LAW. "DIG SAFE" TELEPHONE NUMBER IS 811.
  - THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL AND ANY MEANS, METHODS, AND TECHNIQUES EMPLOYED TO PERFORM THE WORK SHOWN ON THE PLANS.
  - ALL WORK SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS INCLUDING ALL SAFETY REGULATIONS (OSHA).
  - ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH NEW HAMPSHIRE DOT STANDARD DETAILS AND SPECIFICATIONS.
  - THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS FOR THE WORK SHOWN ON THESE PLANS PRIOR TO CONSTRUCTION.
  - ALL PAVEMENT/CONCRETE CUTS SHALL BE SAW CUT OR GROUND TO RESULT IN CLEAN EDGES. A TACK COAT SHALL BE APPLIED ALONG THE PAVEMENT CUT EDGES AND THE NEW PAVEMENT BUTTED TO IT, UNLESS OTHERWISE DIRECTED BY THE OWNER OR OWNERS REPRESENTATIVE.
  - ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO NEW HAMPSHIRE DOT STANDARD DETAILS AND SPECIFICATIONS.
  - CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS SHOWN ON THE DRAWINGS. IF ANY DISCREPANCIES ARE FOUND, THE OWNER OR OWNERS REPRESENTATIVE SHALL BE NOTIFIED IMMEDIATELY.

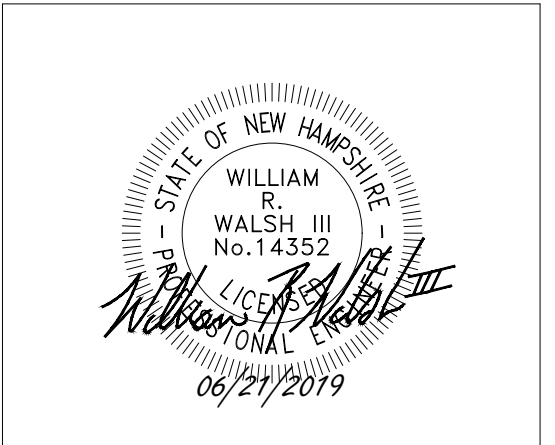
**ZONING INFORMATION:**

1. REFERENCE:	TAX MAP 105, LOT 38
2. TOTAL PARCEL AREA:	2.74 AC. (119,354 S.F.) (PER TAX MAP)
3. OWNER OF RECORD:	CASELLA WASTE MANAGEMENT, INC. C/O HARDING & CARBONE 3903 BELLAIRE BLVD. HOUSTON, TX 77025 M.C.R.D. BOOK 2197, PAGE 368
4. ZONE: COMMERCIAL/LIGHT INDUSTRIAL	
<b>DIMENSIONAL REQUIREMENTS:</b>	
MIN. LOT AREA	REQUIRED: N/A EXISTING: N/A
MIN. FRONTAGE	REQUIRED: 75' EXISTING: 156'
MIN. FRONT SETBACK	REQUIRED: 20' EXISTING: 169'
MIN. SIDE SETBACK	REQUIRED: 15' EXISTING: 29'
MIN. REAR SETBACK	REQUIRED: 40' EXISTING: 74'
WETLANDS SETBACK	REQUIRED: 50' EXISTING: 0'

**WALSH**  
ENGINEERING ASSOCIATES, INC.

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**Allenstown Transfer Station Stormwater Improvements**  
 104 River Road  
 Allenstown, NH 03275  
 Tax Map: 105-38  
**Casella Waste Management of Massachusetts, Inc.**  
 55 Pelham Road  
 Salem, New Hampshire, 03079

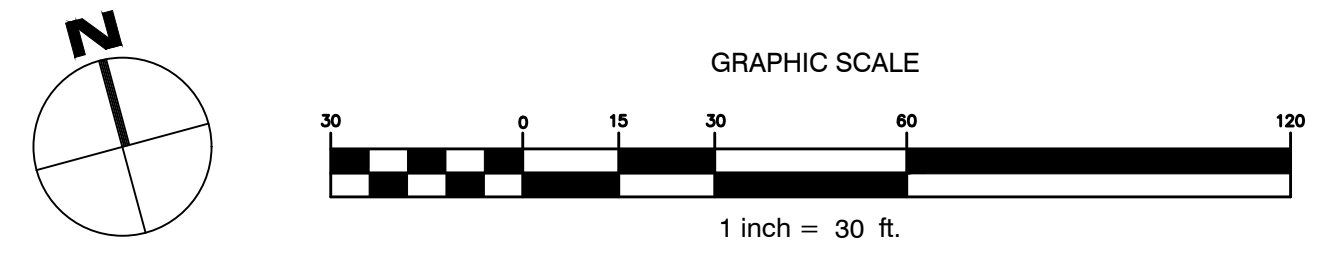
**ISSUED FOR PERMITTING - NOT FOR CONSTRUCTION**

Rev.	Date	Description	Drawn	Check

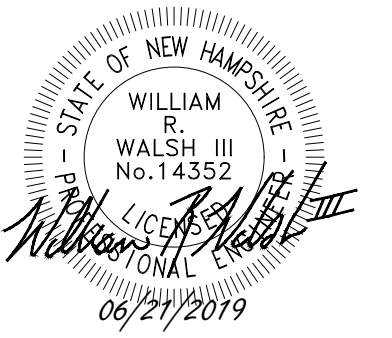
Sheet Title:  
**Existing Conditions and Removals Site Plan**

Job No.: 226D      Sheet No.:  
 Date: 06/21/2019  
 Scale: 1" = 30'  
 Drawn: ALJ/JWG  
 Checked: SWC

C1.0



P:\2020 - Client Matters - Stormwater Improvements - CAD\2020 - PHASE 1 - BAE - Job File - 07/19/2019.rvt

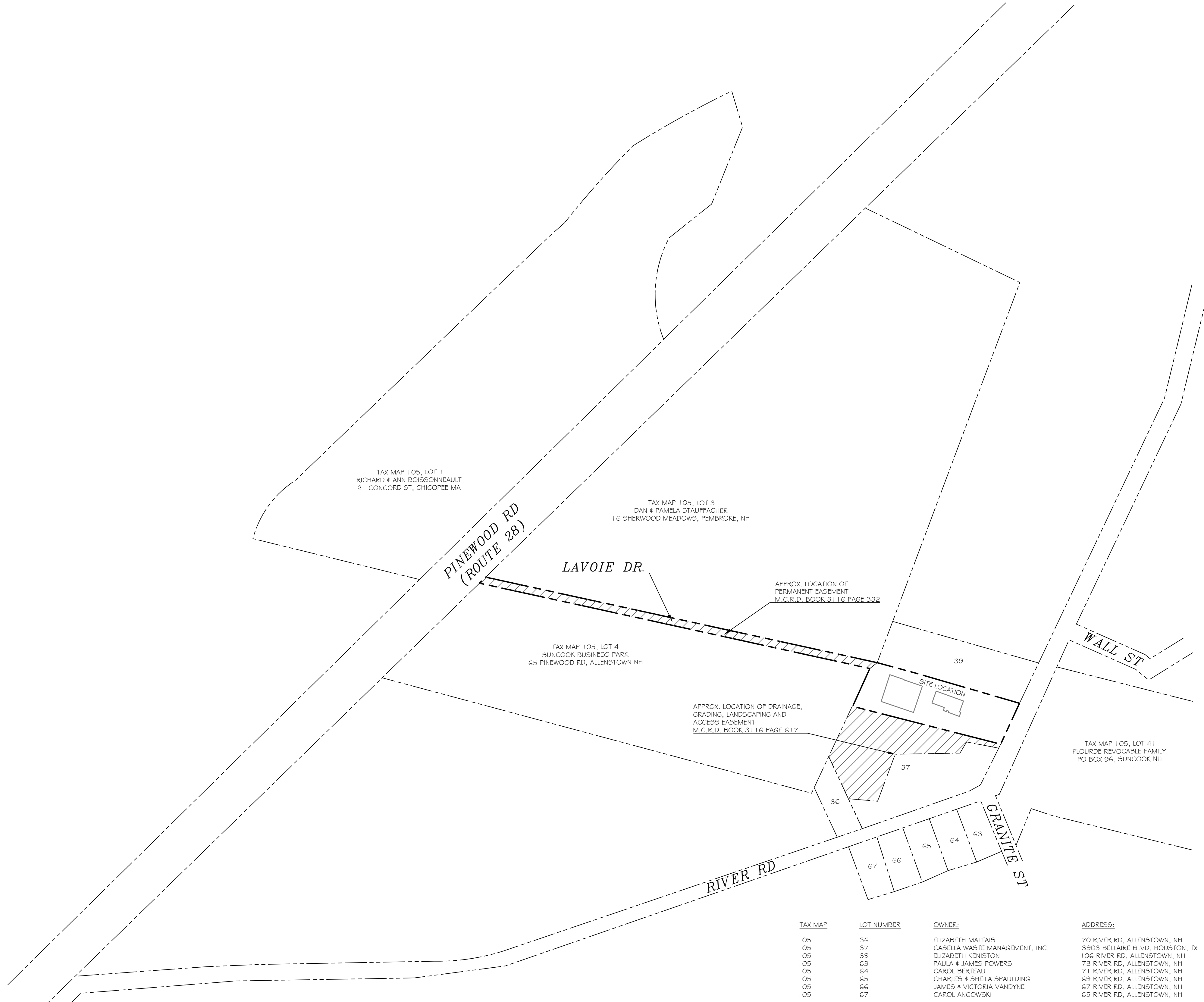


**PLAN REFERENCES:**

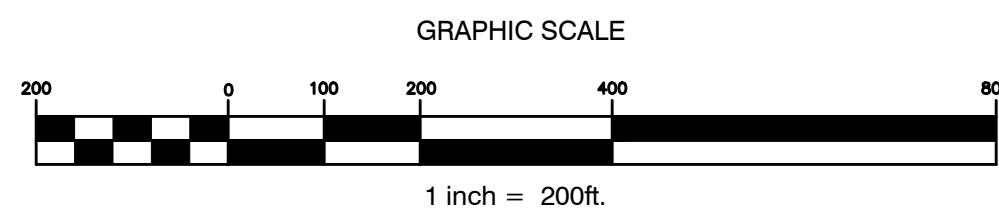
1. PROPERTY BOUNDARY INFORMATION TAKEN FROM A COMPILATION OF THE FOLLOWING:
  - 1.1. A SET OF SITE PLANS TITLED "TRANSFER STATION ALLENSTOWN, NEW HAMPSHIRE" PREPARED BY GEINSIGHT, INC. OF 186 GRANITE ST., 3RD FLOOR, SUITE A, MANCHESTER, NH DATED JANUARY 19, 2007 AND PLAN 19205 RECORDED MARCH 16, 2009
  - 1.2. A PLAN TITLED "TOPOGRAPHIC AND BOUNDARY LINE VERIFICATION PLAN FOR WALSH ENGINEERING ASSOCIATES" PREPARED BY DOUCET SURVEY, INC. OF 104 RIVER ROAD, ALLENSTOWN, NH AND DATED AUGUST 2016.
  - 1.3. TOWN OF ALLENSTOWN ELECTRONIC TAX MAP INFORMATION AT WWW.AXISGIS.COM/ALLENSTOWNNH
2. DRAINAGE, GRADING, LANDSCAPE AND ACCESS EASEMENT SHOWN IS APPROXIMATE BASED ON PLAN REFERENCES 1.1 AND 1.2 ABOVE AND DEED RECORDED IN M.C.R.D. BOOK 3116, PAGE 617.
3. PERMANENT EASEMENT SHOWN IS APPROXIMATE BASED ON PLAN REFERENCES 1.1 AND 1.2 ABOVE AND DEED RECORDED IN M.C.R.D. BOOK 3116, PAGE 332

**LEGEND**

EXISTING	
	PROPERTY LINE
	ABUTTER LINE
	EASEMENT



TAX MAP	LOT NUMBER	OWNER:	ADDRESS:
105	36	ELIZABETH MALTAIS	70 RIVER RD, ALLENSTOWN, NH
105	37	CASELLA WASTE MANAGEMENT, INC.	3803 BELLAIRE BLVD, HOUSTON, TX
105	39	ELIZABETH KENISTON	106 RIVER RD, ALLENSTOWN, NH
105	63	FAJULA & JAMES POWERS	73 RIVER RD, ALLENSTOWN, NH
105	64	CAROL BERTEAU	71 RIVER RD, ALLENSTOWN, NH
105	65	CHARLES & SHEILA SPAULDING	69 RIVER RD, ALLENSTOWN, NH
105	66	JAMES & VICTORIA VANDYNE	67 RIVER RD, ALLENSTOWN, NH
105	67	CAROL ANGOWSKI	65 RIVER RD, ALLENSTOWN, NH



**ISSUED FOR PERMITTING - NOT FOR CONSTRUCTION**

**Allenstown Transfer Station Stormwater Improvements**

104 River Road  
Allenstown, NH 03275  
Tax Map: 105-38

**Casella Waste Management of Massachusetts, Inc.**

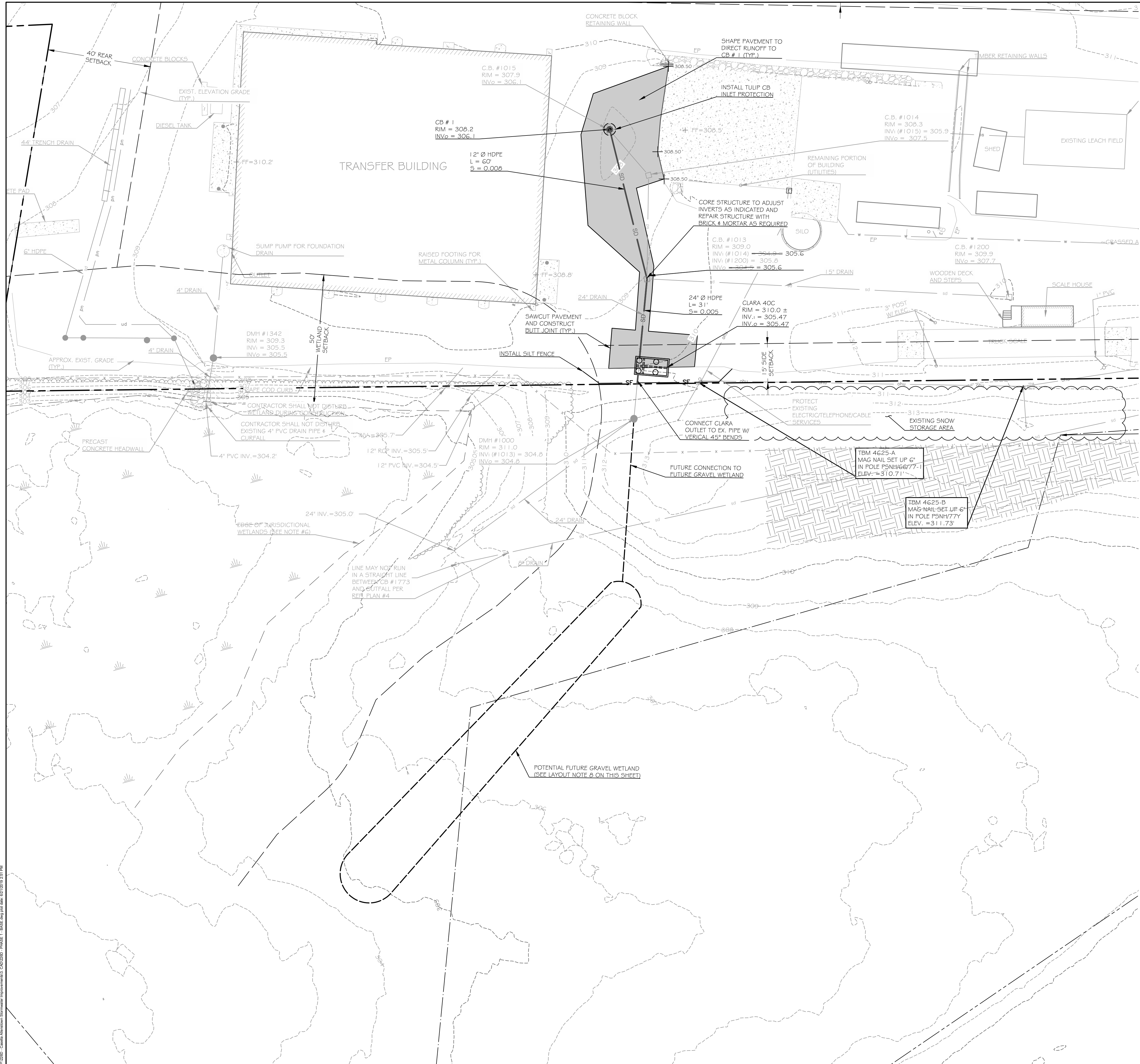
53 Pelham Road  
Salem, New Hampshire, 03079

Rev.	Date	Description	Drawn	Check

Sheet Title:  
**Easement and Abutter Plan**

Job No.: 226D  
Date: 06/21/2019  
Scale: 1" = 200'  
Drawn: AJK/JWG  
Checked: SWC

Sheet No.:  
**C1.1**



**LEGEND**

EXISTING	PROPOSED
⊙	STORM DRAIN MANHOLE
■	STORM DRAIN CATCH BASIN
—SD—	STORM DRAIN LINE
⊙	SANITARY SEWER MANHOLE
—SS—	SANITARY SEWER LINE
—sfm—	SANITARY FORCE MAIN
●	BOLLARD
▭	BUILDING
—X—X—	FENCE METAL
—R—R—	RIPRAP
—E—E—	EDGE OF PAVEMENT
—C—C—	EDGE OF CONCRETE
—C—C—	CURB
—T—T—	TREELINE
—101—	INTERMEDIATE CONTOUR
—100—	INDEX CONTOUR
—CL—	CL OR THREAD OF STREAM OR BROOK
WETLANDS	WETLANDS
WETLAND BUFFER	WETLAND BUFFER
SILT FENCE	SILT FENCE
EROSION CONTROL BERM	EROSION CONTROL BERM
SPOT GRADE	SPOT GRADE
CATCH BASIN INLET PROTECTION	CATCH BASIN INLET PROTECTION

**LAYOUT, MATERIALS, AND UTILITY NOTES:**

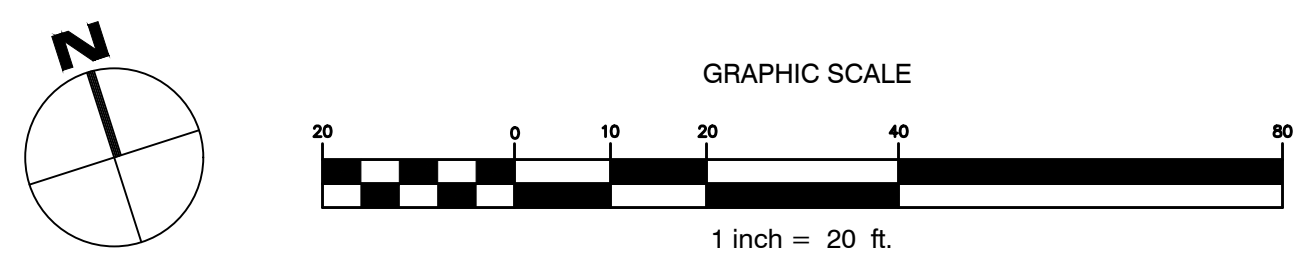
- ALL DIMENSIONS, LOCATIONS AND CONTROLS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION ACTIVITIES. ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE OWNER OR OWNER'S REPRESENTATIVE.
- DO NOT SCALE THE DRAWINGS FOR REQUIRED DIMENSIONS. ANY DISCREPANCIES IN DIMENSIONING SHALL BE REPORTED IMMEDIATELY TO THE OWNER'S REPRESENTATIVE.
- ALL ANGLES ARE 90 DEGREES UNLESS OTHERWISE SHOWN.
- ALL LIMITS OF WORK SHALL BE MARKED OUT BY THE CONTRACTOR AND REVIEWED BY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
- THE LONGITUDINAL SLOPE AND CROSS SLOPE OF THE TRENCH DRAIN SHALL MATCH EXISTING PAVEMENT GRADE IN BOTH DIRECTIONS IN ORDER TO MINIMIZE ROCKING OF TRUCKS WHEN THEY DRIVE ACROSS IT.
- PROVIDE A SMOOTH TRANSITION WHERE NEW WORK MEETS EXISTING.
- ALL DISTURBED AREAS NOT OTHERWISE TREATED SHALL BE LOAMED AND SEEDED.
- FUTURE GRAVEL WETLAND IS NOT INCLUDED WITH THIS SITE PLAN APPLICATION. A SEPARATE APPLICATION WILL BE FILED FOR THE CONSTRUCTION OF THE GRAVEL WETLAND.

**GRADING, DRAINAGE AND UTILITIES NOTES:**

- PRIOR TO ANY CONSTRUCTION ACTIVITIES, CONTRACTOR SHALL VERIFY ALL AFFECTED GRADES. ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE OWNER OR OWNER'S REPRESENTATIVE.
- ALL AREAS NOT REQUIRING GRADING SHALL BE LEFT UNDISTURBED. CONTRACTOR SHALL NOT DISTURB THESE AREAS AND PRESERVE EXISTING VEGETATION.
- OWNER AND PROJECT ENGINEER WILL BE CLOSELY MONITORING FINISH GRADING IN THE FIELD. CONTRACTOR SHALL PERFORM FINISH WORK AS DIRECTED BY THE OWNER OR PROJECT ENGINEER TO ACHIEVE THE FINISH GRADE CONDITIONS SHOWN ON THE PLANS.
- ALL EXCAVATED MATERIALS NOT TO BE USED ON SITE SHALL BE DISPOSED OF PROPERLY.
- ALL DRAINAGE PIPES SHALL BE ADS N-12 SMOOTH BORE DOUBLE WALL HDPE OR APPROVED EQUAL.

**EROSION CONTROL NOTES:**

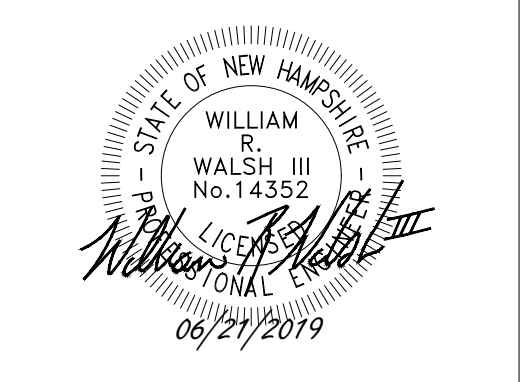
- THE CONTRACTOR SHALL INSTALL ALL EROSION AND SEDIMENTATION CONTROL MEASURES PRIOR TO CONSTRUCTION. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE DRAWINGS, SPECIFICATIONS.
- THE CONTRACTOR SHALL COMPLY WITH THE NEW HAMPSHIRE STORMWATER MANUAL VOLUME 3, EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION AS PUBLISHED BY THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES BUREAU OF RESOURCE PROTECTION, DECEMBER 2008 OR LATEST EDITION.
- ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY SITE EXCAVATION OR REGRADING. ALL DISTURBED AREAS ON SITE NOT COVERED BY BUILDINGS OR PAVED AREAS SHALL BE STABILIZED WITH LOAM AND SEED, OR BY OTHER METHODS AS REQUIRED BY THE WRITTEN EROSION CONTROL PLAN.
- DISTURBED AREAS SHALL BE LIMITED TO ONLY THOSE AREAS UNDER ACTIVE CONSTRUCTION. FOR DISTURBED AREAS THAT ARE NOT UNDER ACTIVE CONSTRUCTION AND THAT CAN NOT YET UNDERGO FINAL GRADING, INSTALL TEMPORARY SEEDING AND MULCHING.
- PERMANENT SEEDING OR STABILIZATION SHALL BE CARRIED OUT IMMEDIATELY AFTER FINAL GRADING IS COMPLETED, OR TEMPORARY MEASURES SHALL BE APPLIED SUCH AS MULCHING OR SEEDING UNTIL PERMANENT STABILIZATION MEASURES ARE IN PLACE.
- ALL EROSION CONTROL MEASURES SHALL BE ROUTINELY INSPECTED AND REPAIRED FOR THE DURATION OF THE PROJECT UNTIL ALL AREAS ARE STABILIZED. REMOVE ACCUMULATED SILT AND SEDIMENT AS NEEDED AND MAINTAIN BMPs IN GOOD, OPERABLE CONDITION.



**WALSH**  
ENGINEERING ASSOCIATES, INC.

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**Allenstown Transfer Station Stormwater Improvements**

104 River Road  
Allenstown, NH 03275  
Tax Map: 105-38

**Casella Waste Management of Massachusetts, Inc.**  
63 Pelham Road  
Salem, New Hampshire, 03079

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Rev.	Date	Description	Drawn	Check

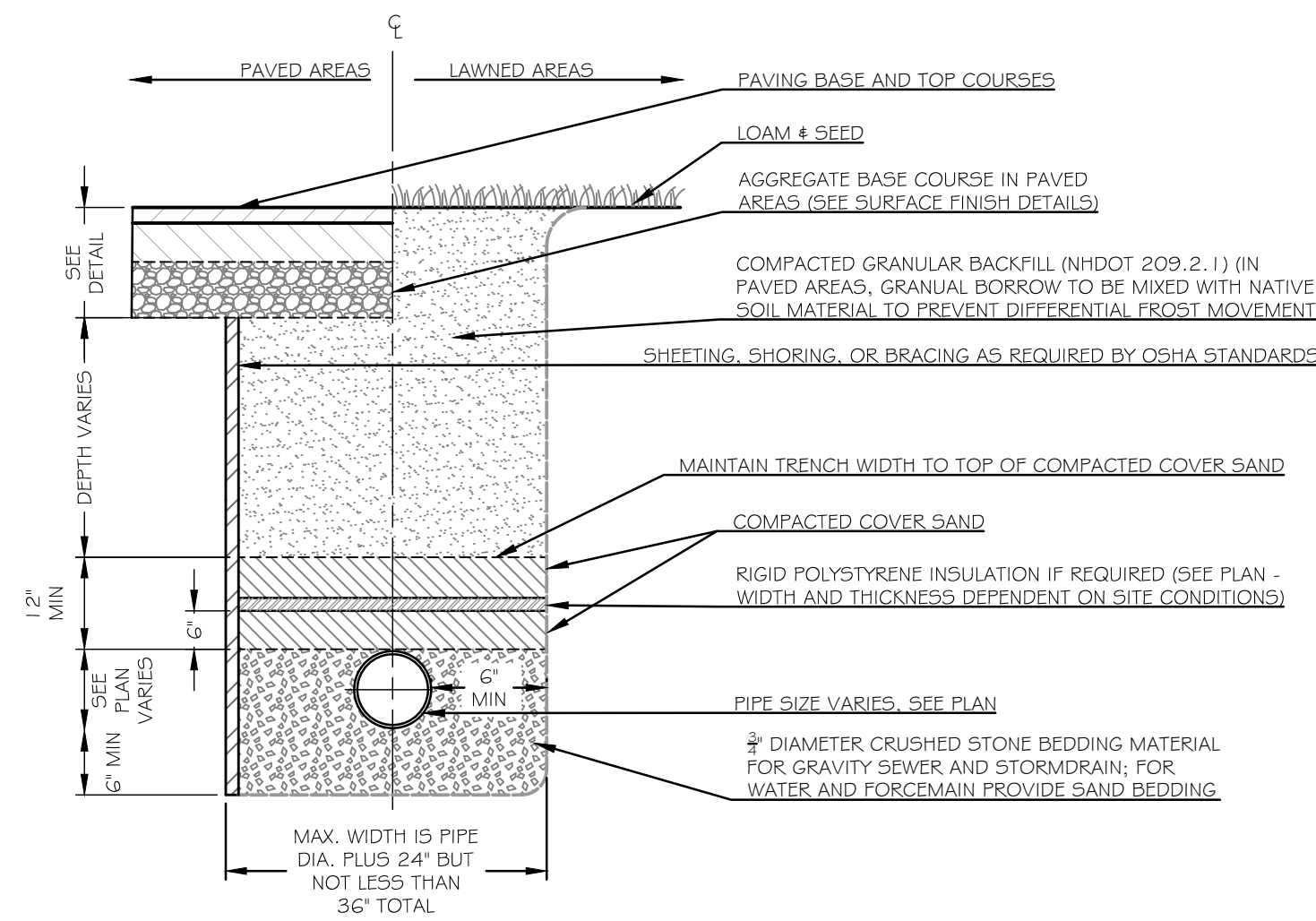
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Job No.: 226D      Sheet No.:  
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Scale: 1" = 20'  
Drawn: AJK/JWG  
Checked: SWC

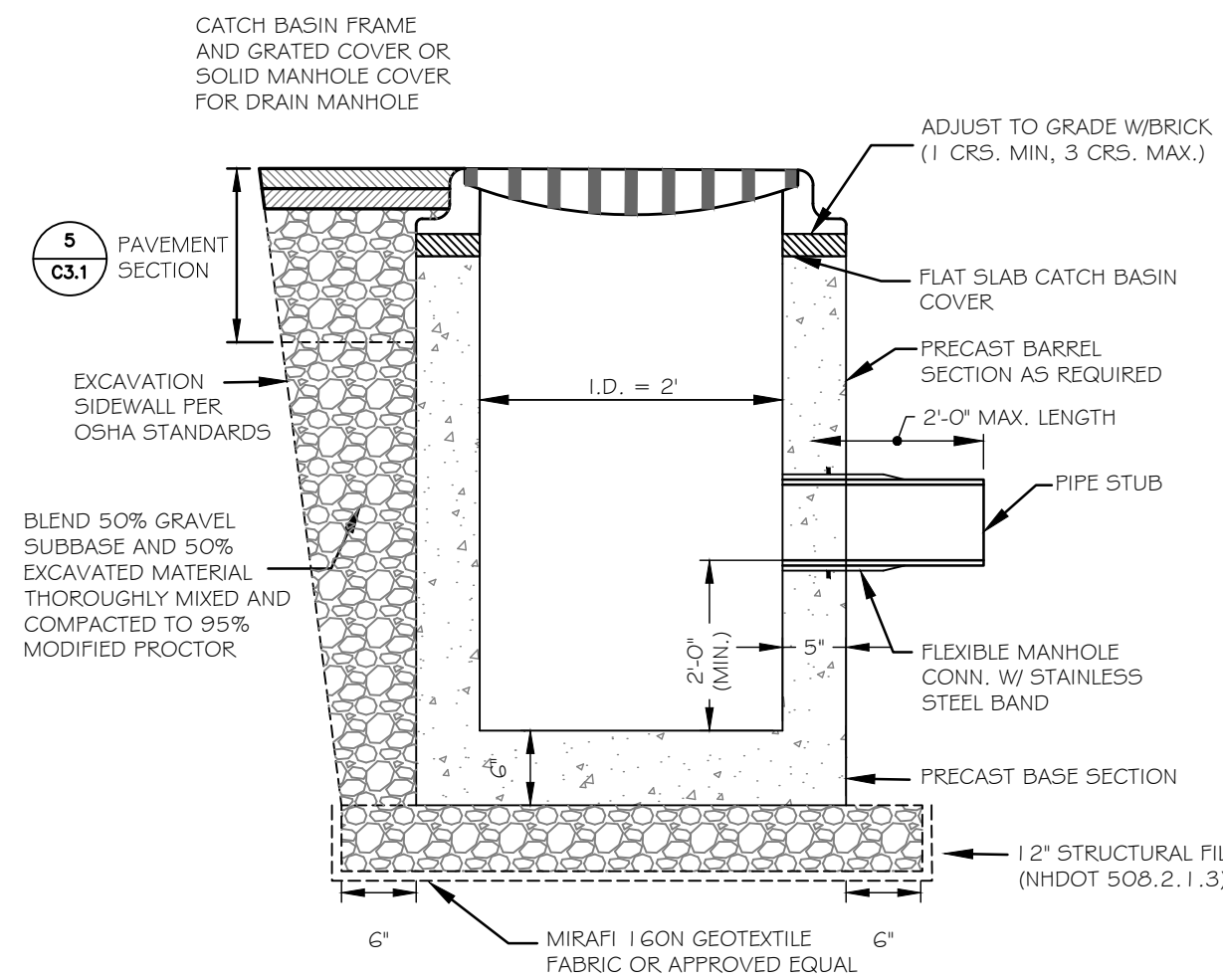
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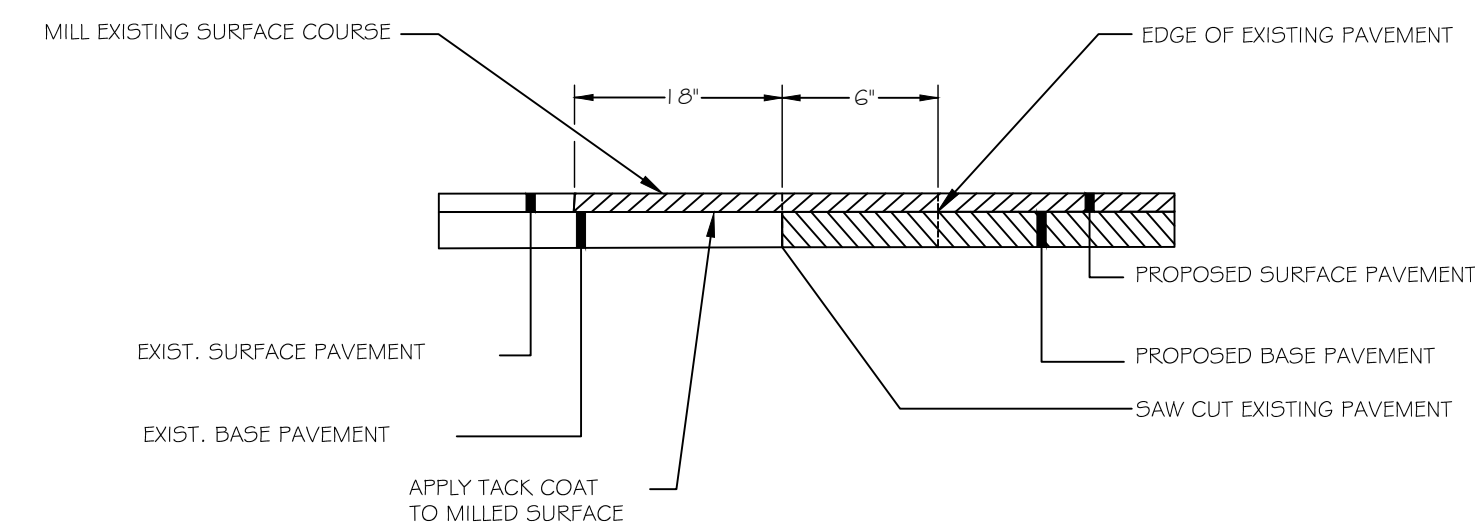




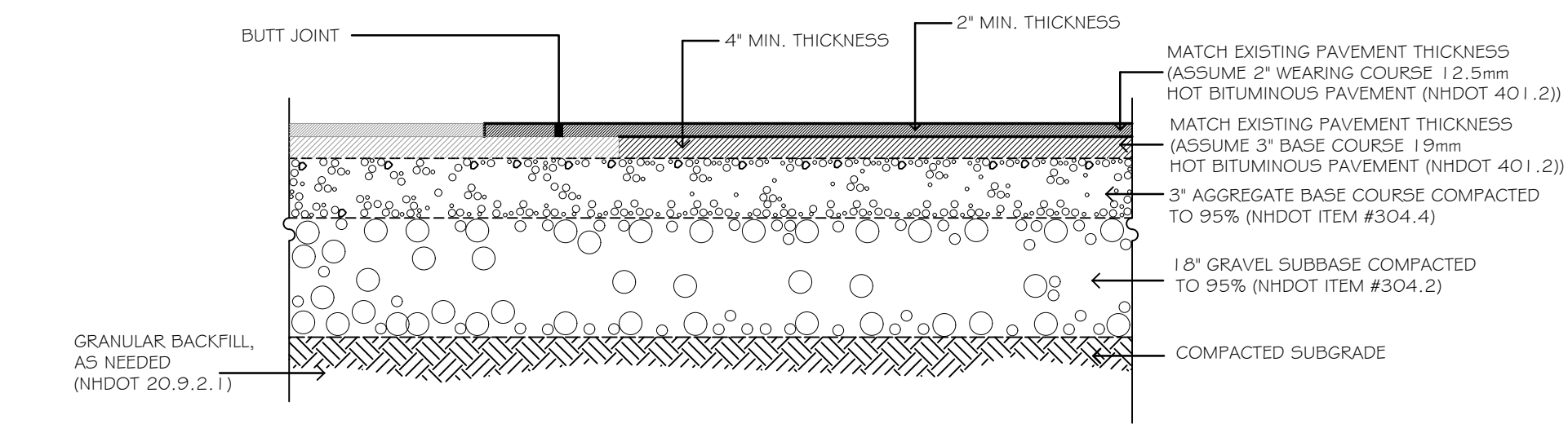
**1**  
C3.1 **TYPICAL PIPE TRENCHING DETAIL**  
NOT TO SCALE



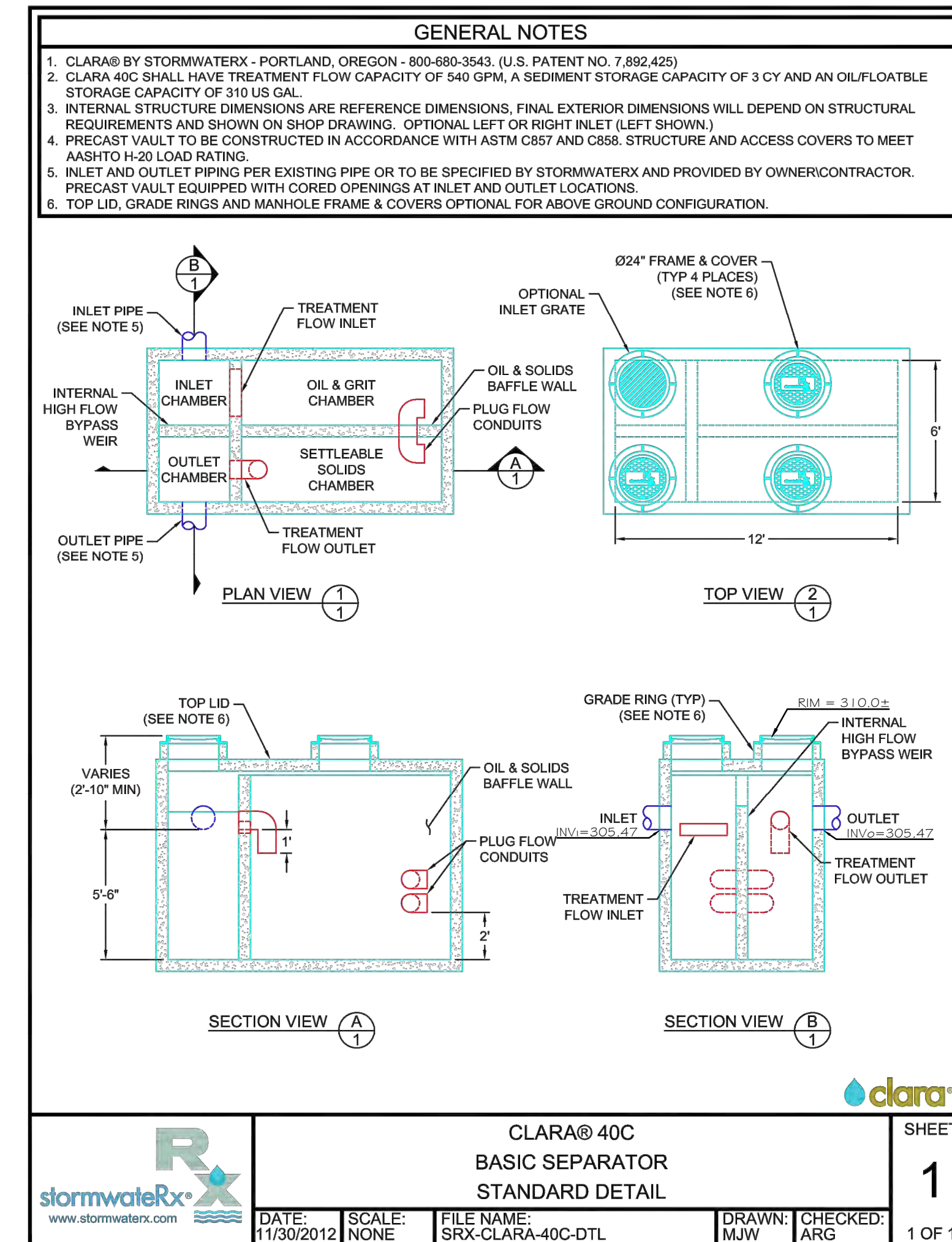
**2**  
C3.1 **PRECAST CONCRETE 2' DIAMETER CATCH BASIN**  
NOT TO SCALE



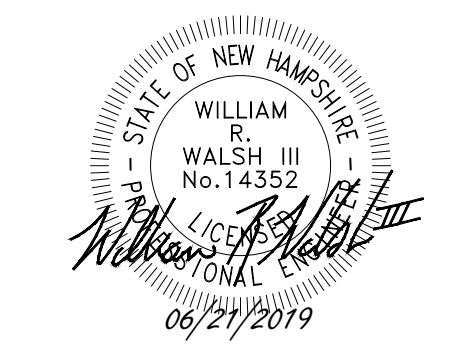
**3**  
C3.1 **PAVEMENT BUTT JOINT**  
NOT TO SCALE



**4**  
C3.1 **REPLACEMENT PAVEMENT SECTION**  
NOT TO SCALE



**5**  
C3.1 **STORMWATERX - CLARA 40C DETAIL**  
NOT TO SCALE



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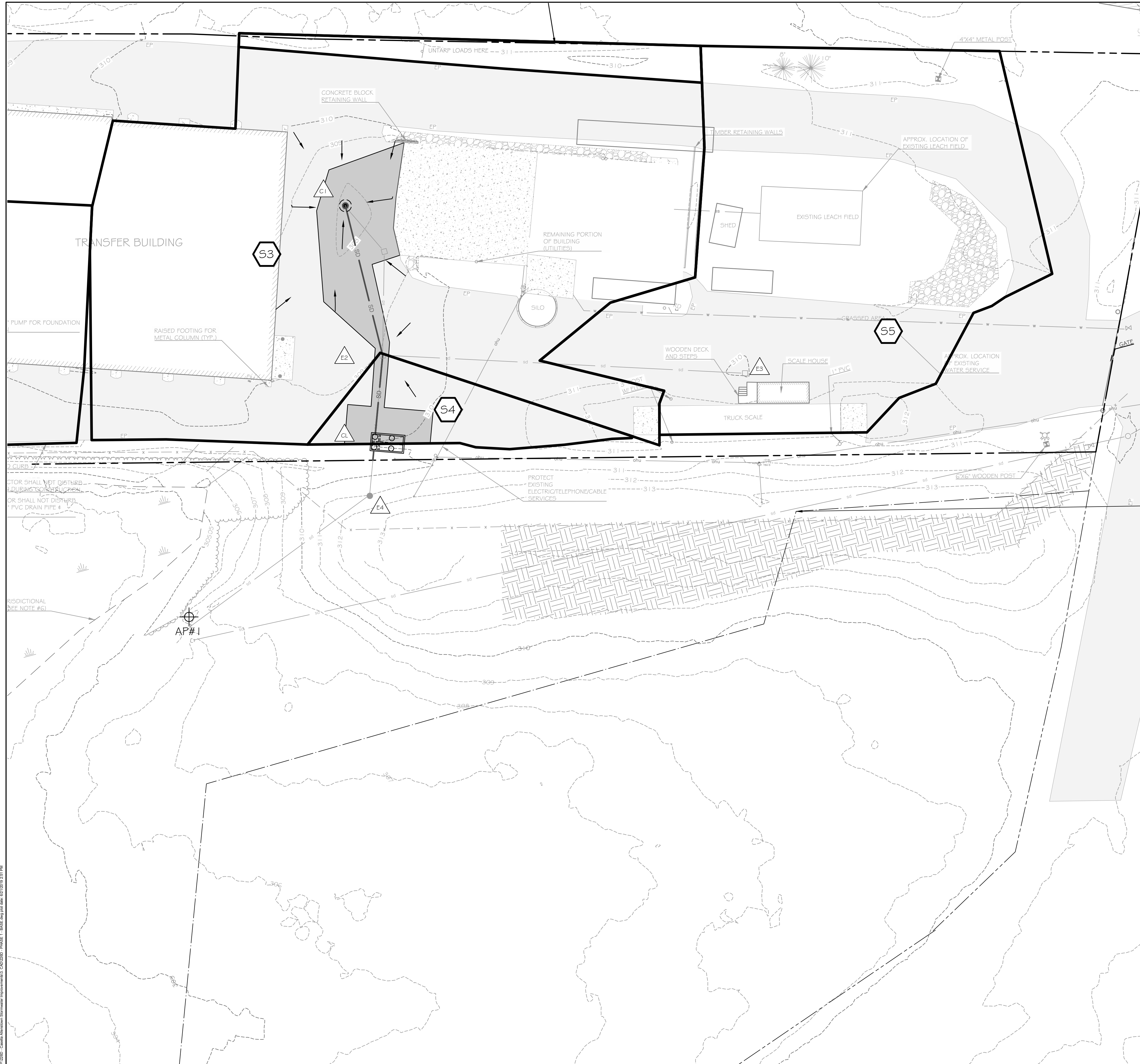
ISSUED FOR PERMITTING - NOT FOR CONSTRUCTION

Rev.	Date	Description	Drawn	Check

Sheet Title:  
**Details**

Job No.:	226D	Sheet No.:	
Date:	06/21/2019	Scale:	N.T.S.
Drawn:	AJK/JWG	Checked:	SWC

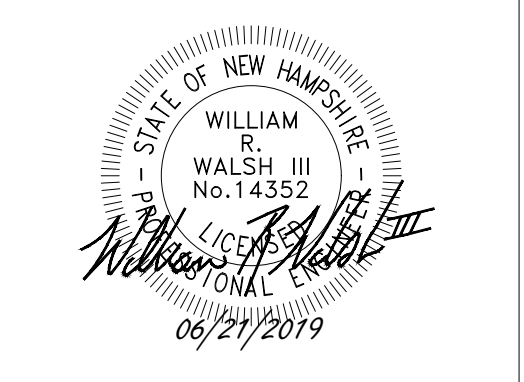
**C3.1**



EXISTING	PROPOSED
○	STORM DRAIN MANHOLE
■	STORM DRAIN CATCH BASIN
— SD —	STORM DRAIN LINE
○	SANITARY SEWER MANHOLE
— SS —	SANITARY SEWER LINE
— ssm —	SANITARY FORCE MAIN
●	BOLLARD
[Hatched]	BUILDING
[Hatched]	FENCE METAL
[Hatched]	RIPRAP
[Hatched]	EDGE OF PAVEMENT
[Hatched]	EDGE OF CONCRETE
[Hatched]	CURB
[Hatched]	TREELINE
- - - 101 - - -	INTERMEDIATE CONTOUR
- - - 100 - - -	INDEX CONTOUR
- - -	CL OR THREAD OF STREAM OR BROOK
[Wavy]	WETLANDS
[Wavy]	WETLAND BUFFER
+ 80.00	SPOT GRADE
+ 80.00	

DRAINAGE LEGEND	
[Thick Line]	SUBCATCHMENT BOUNDARY
[Thin Line]	SUBCATCHMENT DESIGNATION
⊕	ANALYSIS POINT
△	POND TEXT

**WALSH**  
ENGINEERING ASSOCIATES, INC.  
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Rev.	Date	Description	Drawn	Check

Sheet Title:  
**Drainage Plan**

Job No.: 226D      Sheet No.:  
Date: 06/21/2019  
Scale: 1" = 10'  
Drawn: AJK/JWG      **D1.0**  
Checked: SWC

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