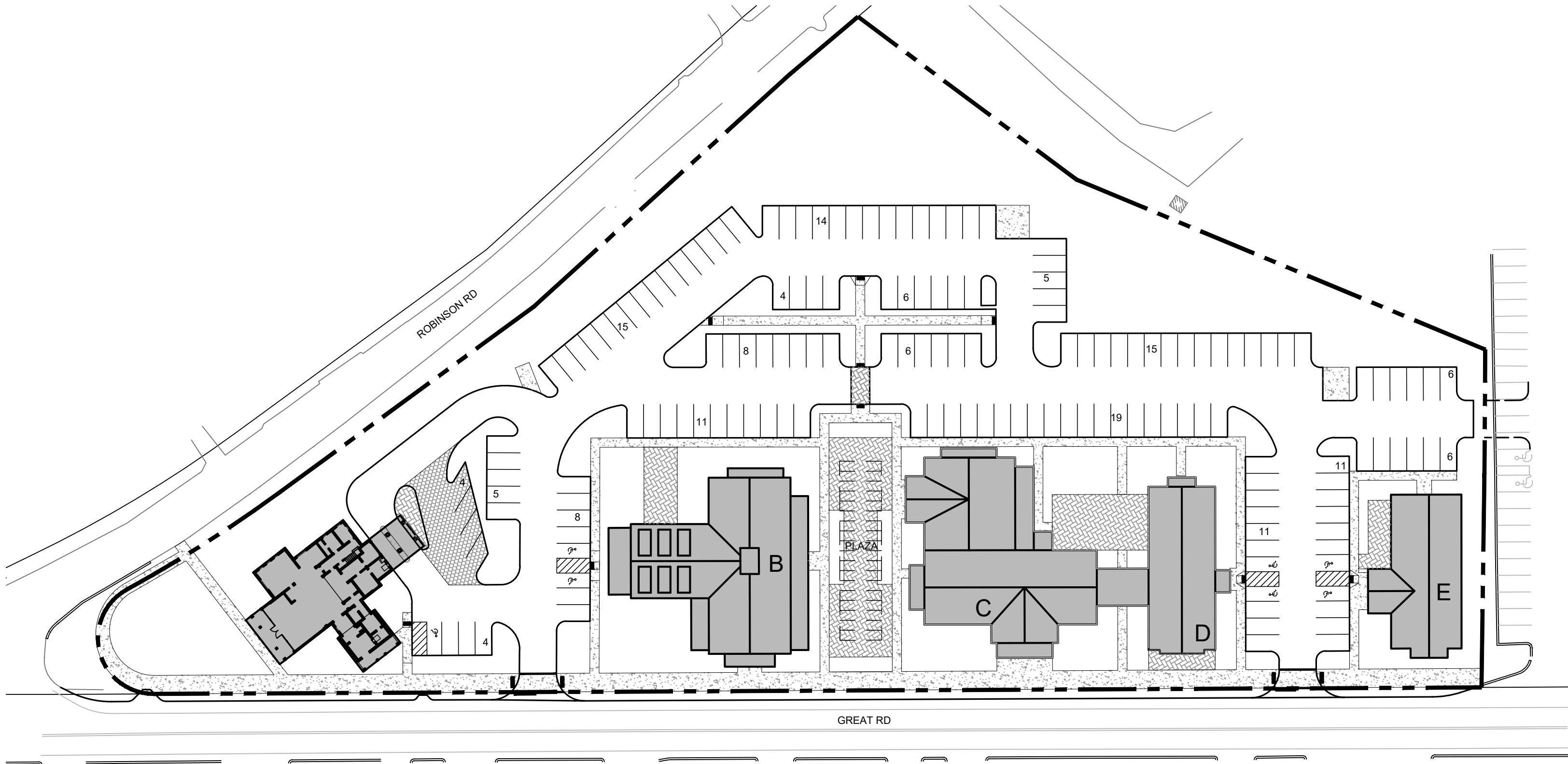


Northern Bank Town Common

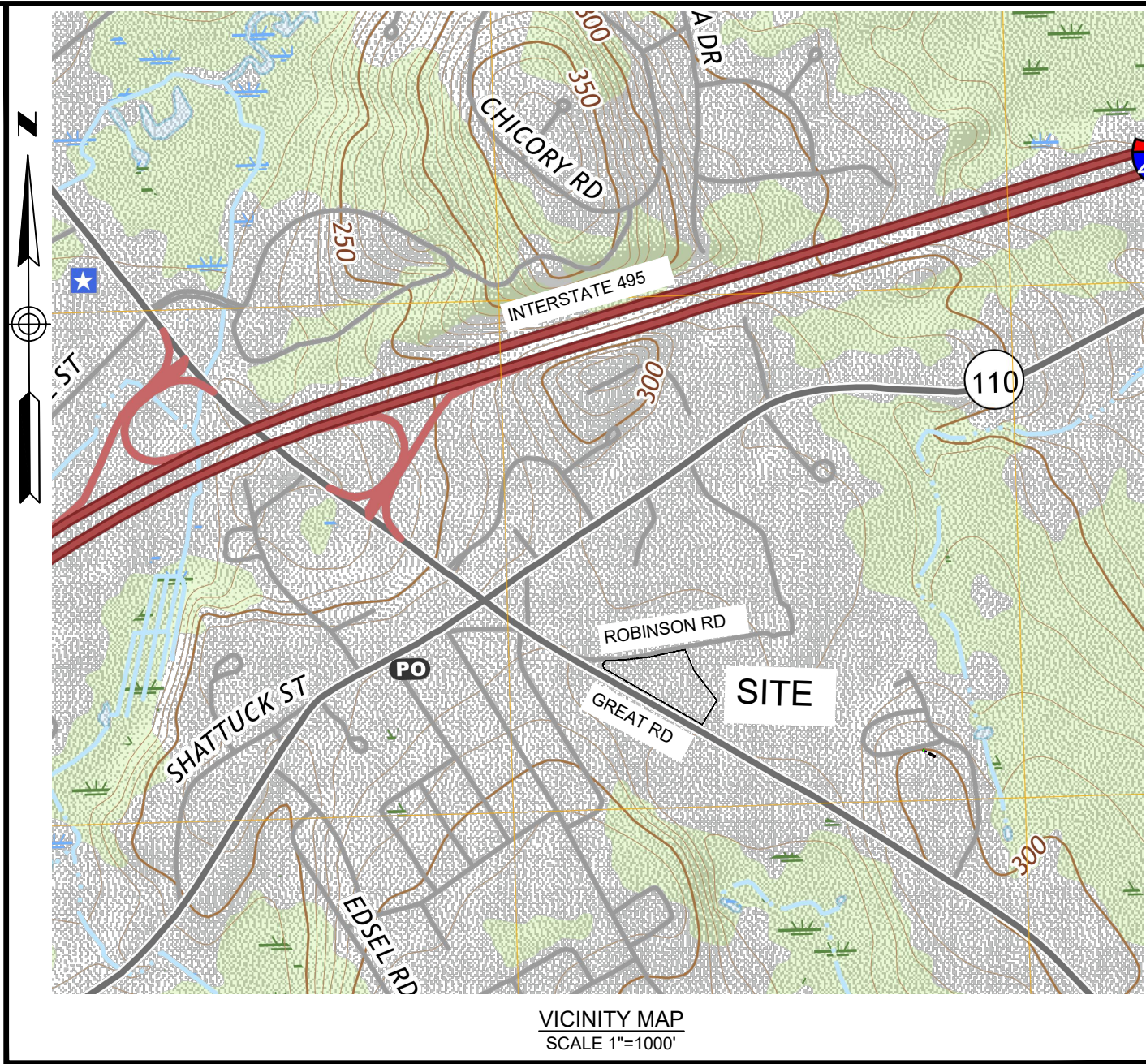
Great Road

in

Littleton, Massachusetts



PREPARED FOR
Northern Bank and Trust Company
275 Mishawum Road
Woburn, Massachusetts 01801



SHEET INDEX

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Landscape Plans by Allen & Major Associates, Inc

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Site:

**NORTHERN BANK
TOWN COMMON**

265-289 GREAT ROAD
LITTLETON, MASSACHUSETTS

Prepared for:

**NORTHERN BANK AND
TRUST COMPANY**

275 MISHAWUM ROAD
WOBURN, MASSACHUSETTS



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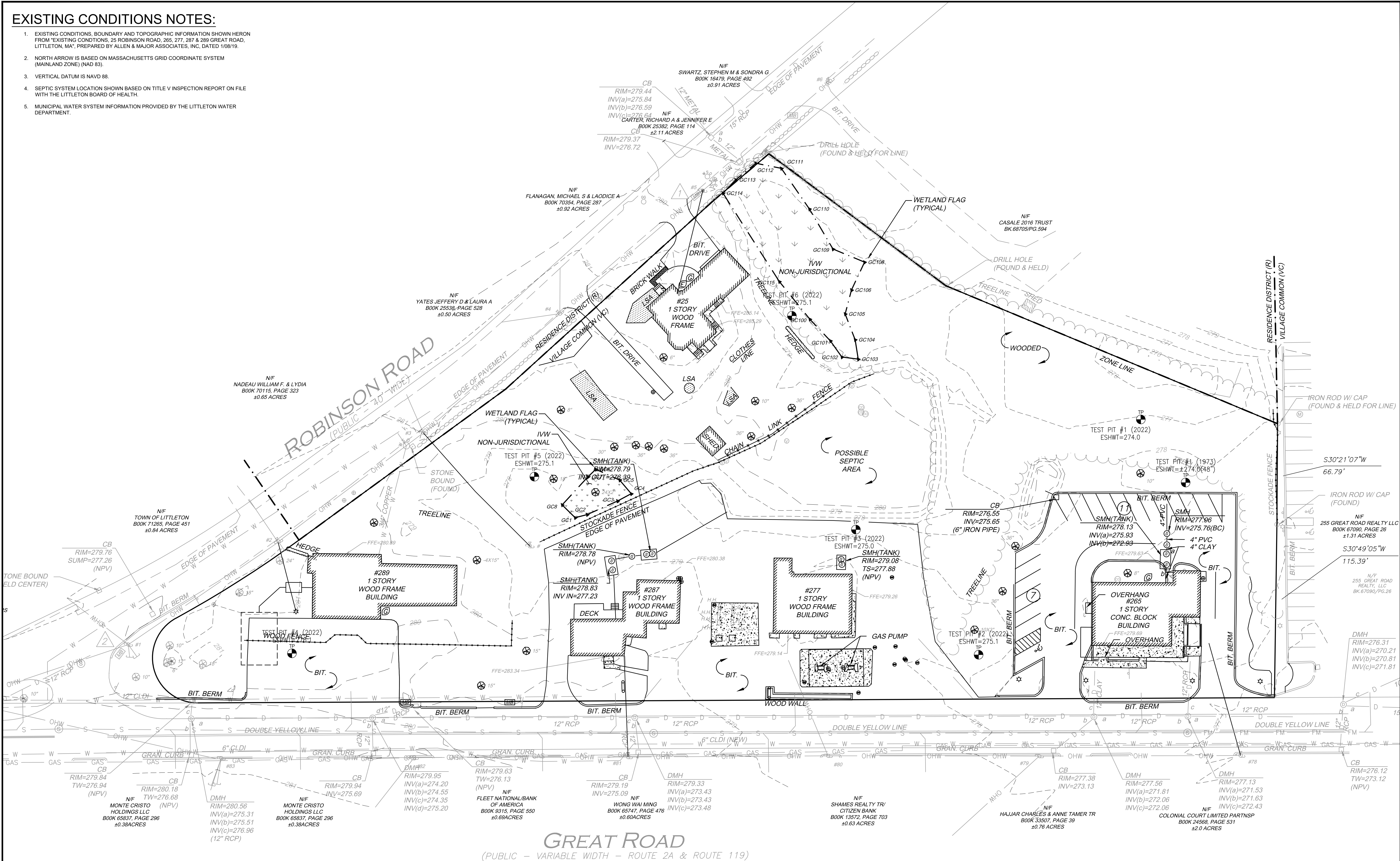
Oak Consulting Group
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Newburyport, MA 01950
Ph. 978.312.3120

TITLE SHEET

No.	Revision/Issue	Date
Design by:	SPM	Checked by: SPM
Drawn by:	SPM	Approved by: SPM
Project:	18017	Date: September 7, 2022
Sheet:	T-100	

EXISTING CONDITIONS NOTES:

- EXISTING CONDITIONS, BOUNDARY AND TOPOGRAPHIC INFORMATION SHOWN HERON FROM "EXISTING CONDITIONS, 25 ROBINSON ROAD, 265, 277, 287 & 289 GREAT ROAD, LITTLETON, MA", PREPARED BY ALLEN & MAJOR ASSOCIATES, INC, DATED 1/08/19.
- NORTH ARROW IS BASED ON MASSACHUSETTS GRID COORDINATE SYSTEM (MAINLAND ZONE) (NAD 83).
- VERTICAL DATUM IS NAVD 88.
- SEPTIC SYSTEM LOCATION SHOWN BASED ON TITLE V INSPECTION REPORT ON FILE WITH THE LITTLETON BOARD OF HEALTH.
- MUNICIPAL WATER SYSTEM INFORMATION PROVIDED BY THE LITTLETON WATER DEPARTMENT.



Site:
**NORTHERN BANK
TOWN COMMON**

265-289 GREAT ROAD
LITTLETON, MASSACHUSETTS

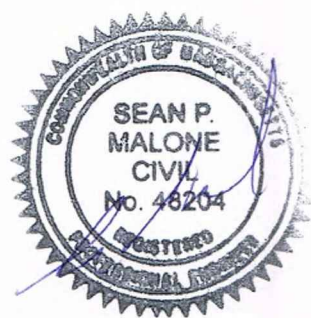
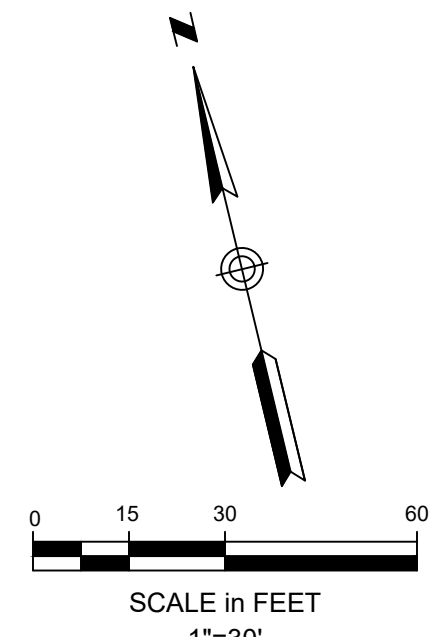
Prepared for:

**NORTHERN BANK AND
TRUST COMPANY**

275 MISHAWUM ROAD
WOBURN, MASSACHUSETTS

LEGEND

- PROPERTY LINE
- WATER PIPE
- DRAIN PIPE
- GAS PIPE
- SEWER PIPE
- OVERHEAD ELECTRIC
- CONTOUR
- FENCE
- CONTOUR SIGN
- DRAIN STRUCTURE
- UTILITY POLE
- SEWER MANHOLE
- TREE



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**EXISTING
CONDITIONS
PLAN**

No.	Revision/Issue	Date
Design by:	SPM	Checked by: SPM
Drawn by:	SPM	Approved by: SPM
Project:	18017	Date: September 7, 2022

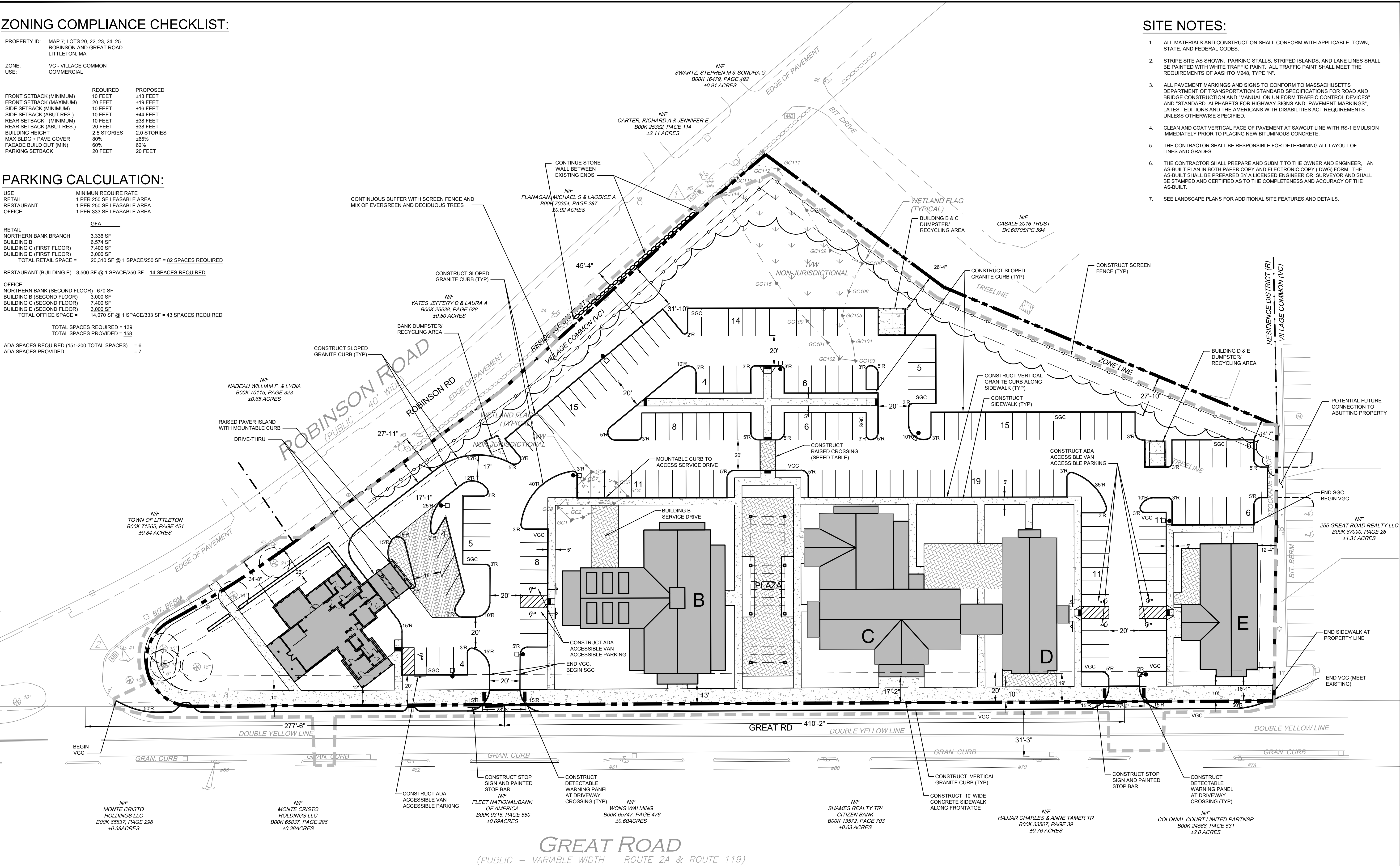
Sheet:
C-100

ZONING COMPLIANCE CHECKLIST:

PROPERTY ID:	MAP 7: LOTS 20, 22, 23, 24, 25 ROBINSON AND GREAT ROAD LITTLETON, MA		
ZONE:	VC - VILLAGE COMMON		
USE:	COMMERCIAL		
		REQUIRED	PROPOSED
FRONT SETBACK (MINIMUM)		10 FEET	±13 FEET
FRONT SETBACK (MAXIMUM)		20 FEET	±19 FEET
SIDE SETBACK (MINIMUM)		10 FEET	±16 FEET
SIDE SETBACK (ABUT RES.)		10 FEET	±44 FEET
REAR SETBACK (MINIMUM)		10 FEET	±38 FEET
REAR SETBACK (ABUT RES.)		20 FEET	±38 FEET
BUILDING HEIGHT		2.5 STORIES	2.0 STORIES
MAX BLDG + PAVE COVER		80%	±65%
FACADE BUILD OUT (MIN)		60%	62%
PARKING SETBACK		20 FEET	20 FEET

PARKING CALCULATION:

USE	MINIMUM REQUIRE RATE
RETAIL	1 PER 250 SF LEASABLE AREA
RESTAURANT	1 PER 250 SF LEASABLE AREA
OFFICE	1 PER 333 SF LEASABLE AREA
	GFA
RETAIL	
NORTHERN BANK BRANCH	3,336 SF
BUILDING B	6,574 SF
BUILDING C (FIRST FLOOR)	7,400 SF
BUILDING D (FIRST FLOOR)	3,000 SF
TOTAL RETAIL SPACE =	20,310 SF @ 1 SPACE/250 SF = 82 SPACES REQUIRED
RESTAURANT (BUILDING E)	3,500 SF @ 1 SPACE/250 SF = 14 SPACES REQUIRED
OFFICE	
NORTHERN BANK (SECOND FLOOR)	670 SF
BUILDING B (SECOND FLOOR)	3,000 SF
BUILDING C (SECOND FLOOR)	7,400 SF
BUILDING D (SECOND FLOOR)	3,000 SF
TOTAL OFFICE SPACE =	14,070 SF @ 1 SPACE/333 SF = 43 SPACES REQUIRED
TOTAL SPACES REQUIRED = 139	
TOTAL SPACES PROVIDED = 158	
ADA SPACES REQUIRED (151-200 TOTAL SPACES) = 6	
ADA SPACES PROVIDED = 7	



SITE NOTES:

- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM WITH APPLICABLE TOWN, STATE, AND FEDERAL CODES.
- STRIPE SITE AS SHOWN. PARKING STALLS, STRIPED ISLANDS, AND LANE LINES SHALL BE PAINTED WITH WHITE TRAFFIC PAINT. ALL TRAFFIC PAINT SHALL MEET THE REQUIREMENTS OF AASHTO M246, TYPE "N".
- ALL PAVEMENT MARKINGS AND SIGNS TO CONFORM TO MASSACHUSETTS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS", LATEST EDITIONS AND THE AMERICANS WITH DISABILITIES ACT REQUIREMENTS UNLESS OTHERWISE SPECIFIED.
- CLEAN AND COAT VERTICAL FACE OF PAVEMENT AT SAWCUT LINE WITH RS-1 EMULSION IMMEDIATELY PRIOR TO PLACING NEW BITUMINOUS CONCRETE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ALL LAYOUT OF LINES AND GRADES.
- THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE OWNER AND ENGINEER, AN AS-BUILT PLAN IN BOTH PAPER COPY AND ELECTRONIC COPY (DWG) FORM. THE AS-BUILT SHALL BE PREPARED BY A LICENSED ENGINEER OR SURVEYOR AND SHALL BE STAMPED AND CERTIFIED AS TO THE COMPLETENESS AND ACCURACY OF THE AS-BUILT.
- SEE LANDSCAPE PLANS FOR ADDITIONAL SITE FEATURES AND DETAILS.

Site:

**NORTHERN BANK
TOWN COMMON**

265-289 GREAT ROAD
LITTLETON, MASSACHUSETTS

Prepared for:

**NORTHERN BANK AND
TRUST COMPANY**

275 MISHAWUM ROAD
WOBURN, MASSACHUSETTS

LEGEND-PROPOSED

	CURB
	SIGN
	SITE LIGHTING
	SIDEWALK
	PERVIOUS PAVERS
	BITUMINOUS PAVEMENT
	FENCE
	APPROXIMATE LIMIT OF WORK

0 15 30 60
SCALE in FEET
1"=30'

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**SITE LAYOUT
PLAN**

No.	Revision/Issue	Date
Design by:	SPM	Checked by: SPM
Drawn by:	SPM	Approved by: SPM
Project:	18017	Date: September 7, 2022
Sheet:	C-200	

GRADING AND DRAINAGE NOTES:

- FOR ALL DISTURBED AREAS NOT OTHERWISE TREATED INSTALL 4" MIN SCREENED LOAM AND HYDROSEED.
- ALL STORM DRAIN PIPE SHALL BE HIGH DENSITY POLYETHYLENE UNLESS OTHERWISE NOTED (HANCOR "HIQ", ADS "N-12", OR APPROVED EQUAL).
- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM WITH APPLICABLE TOWN AND STATE CODES.
- ADJUST ALL MANHOLES, CATCHBASINS, CURB BOXES, ETC. WITHIN LIMITS OF WORK TO FINISH GRADE.
- CONTRACTOR SHALL PROVIDE A FINISH PAVEMENT SURFACE FREE OF LOW SPOTS AND PONDING AREAS. CRITICAL AREAS INCLUDE BUILDING ENTRANCE AND EXIT RAMPS AND LOADING AREAS ADJACENT TO THE BUILDING.
- ALL CATCHBASINS AND DRAIN LINES SHALL BE THOROUGHLY CLEANED OF ALL SEDIMENT AND DEBRIS AFTER THE UPSTREAM AREA IS STABILIZED.
- COORDINATE ALL GRADING AROUND BUILDING AND BUILDING DOOR ELEVATIONS WITH ARCHITECTURAL PLANS.
- THE PROPOSED CATCHBASINS AND STORMWATER TREATMENT UNITS MUST BE CLEANED OF ANY SEDIMENT AND/OR DEBRIS AFTER ALL UPSTREAM AREAS HAVE BEEN STABILIZED.

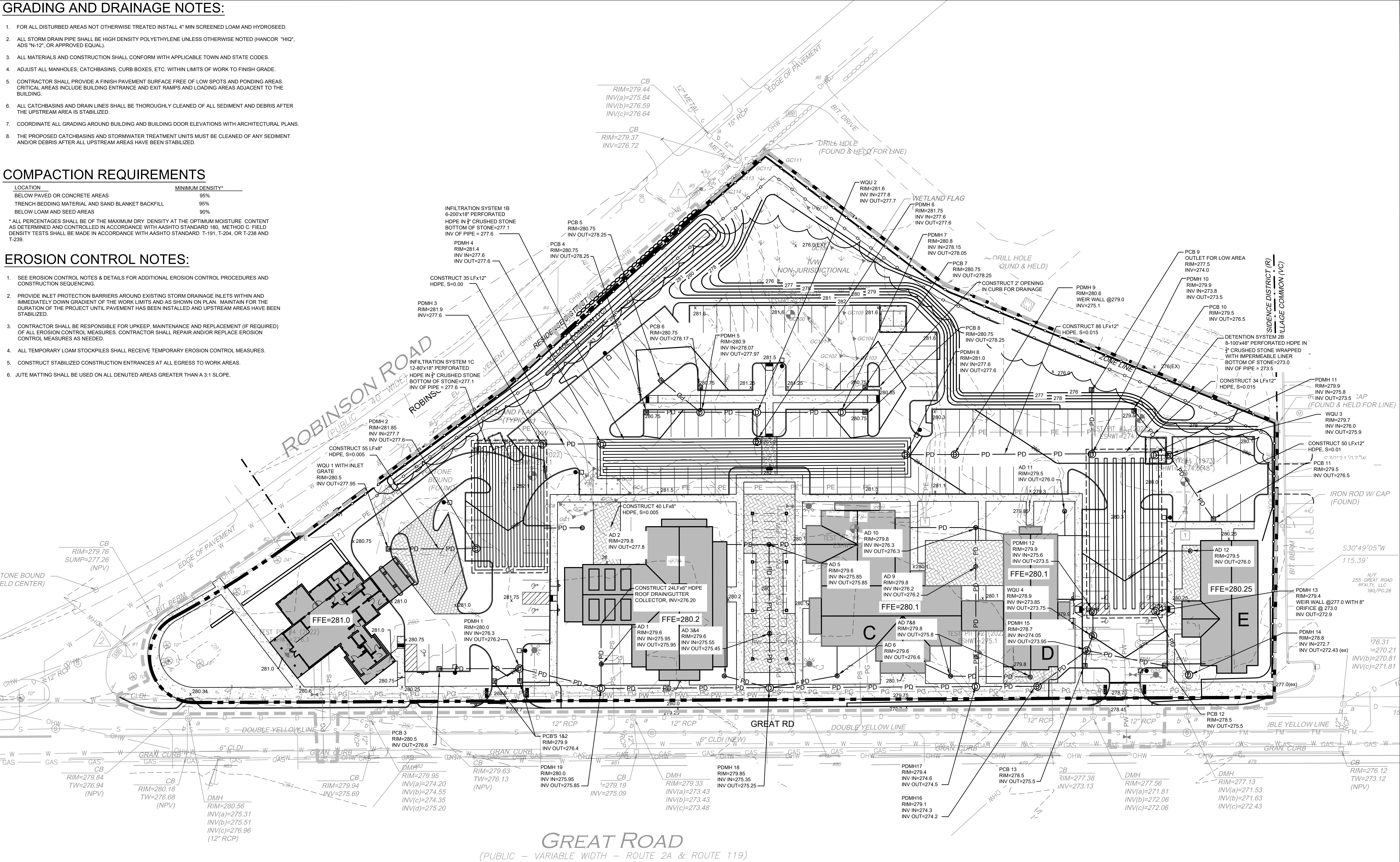
COMPACTION REQUIREMENTS

LOCATION	MINIMUM DENSITY*
BELOW PAVED OR CONCRETE AREAS	95%
TRENCH BEDDING MATERIAL AND SAND BLANKET BACKFILL	95%
BELOW LOAM AND SEED AREAS	90%

* ALL PERCENTAGES SHALL BE OF THE MAXIMUM DRY DENSITY AT THE OPTIMUM MOISTURE CONTENT AS DETERMINED AND CONTROLLED IN ACCORDANCE WITH AASHTO STANDARD 180, METHOD C. FIELD DENSITY TESTS SHALL BE MADE IN ACCORDANCE WITH AASHTO STANDARD T-191, T-204, OR T-236 AND T-239.

EROSION CONTROL NOTES:

- SEE EROSION CONTROL NOTES & DETAILS FOR ADDITIONAL EROSION CONTROL PROCEDURES AND CONSTRUCTION SEQUENCING.
- PROVIDE INLET PROTECTION BARRIERS AROUND EXISTING STORM DRAINAGE INLETS WITHIN AND IMMEDIATELY DOWN GRADIENT OF THE WORK LIMITS AND AS SHOWN ON PLAN. MAINTAIN FOR THE DURATION OF THE PROJECT UNTIL PAVEMENT HAS BEEN INSTALLED AND UPSTREAM AREAS HAVE BEEN STABILIZED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR UPKEEP, MAINTENANCE AND REPLACEMENT (IF REQUIRED) OF ALL EROSION CONTROL MEASURES. CONTRACTOR SHALL REPAIR AND/OR REPLACE EROSION CONTROL MEASURES AS NEEDED.
- ALL TEMPORARY LOAM STOCKPILES SHALL RECEIVE TEMPORARY EROSION CONTROL MEASURES.
- CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES AT ALL EGRESS TO WORK AREAS.
- JUTE MATTING SHALL BE USED ON ALL DENUDATED AREAS GREATER THAN A 3:1 SLOPE.



Site:

**NORTHERN BANK
TOWN COMMON**

265-289 GREAT ROAD
LITTLETON, MASSACHUSETTS

Prepared for:

**NORTHERN BANK AND
TRUST COMPANY**

275 MISHAWUM ROAD
WOBURN, MASSACHUSETTS

LEGEND - PROPOSED

- 53 CONTOUR
- SEDIMENTATION BARRIER
- SPOT GRADE
- DRAIN PIPE
- DRAIN MANHOLE
- AREA DRAIN
- CATCH BASIN
- PERVIOUS PAVERS
- APPROXIMATE LIMIT OF WORK

0 15 30 60

SCALE in FEET
1"=30'

SEAN P. MALONE
CIVIL
No. 46204
REGISTERED PROFESSIONAL ENGINEER

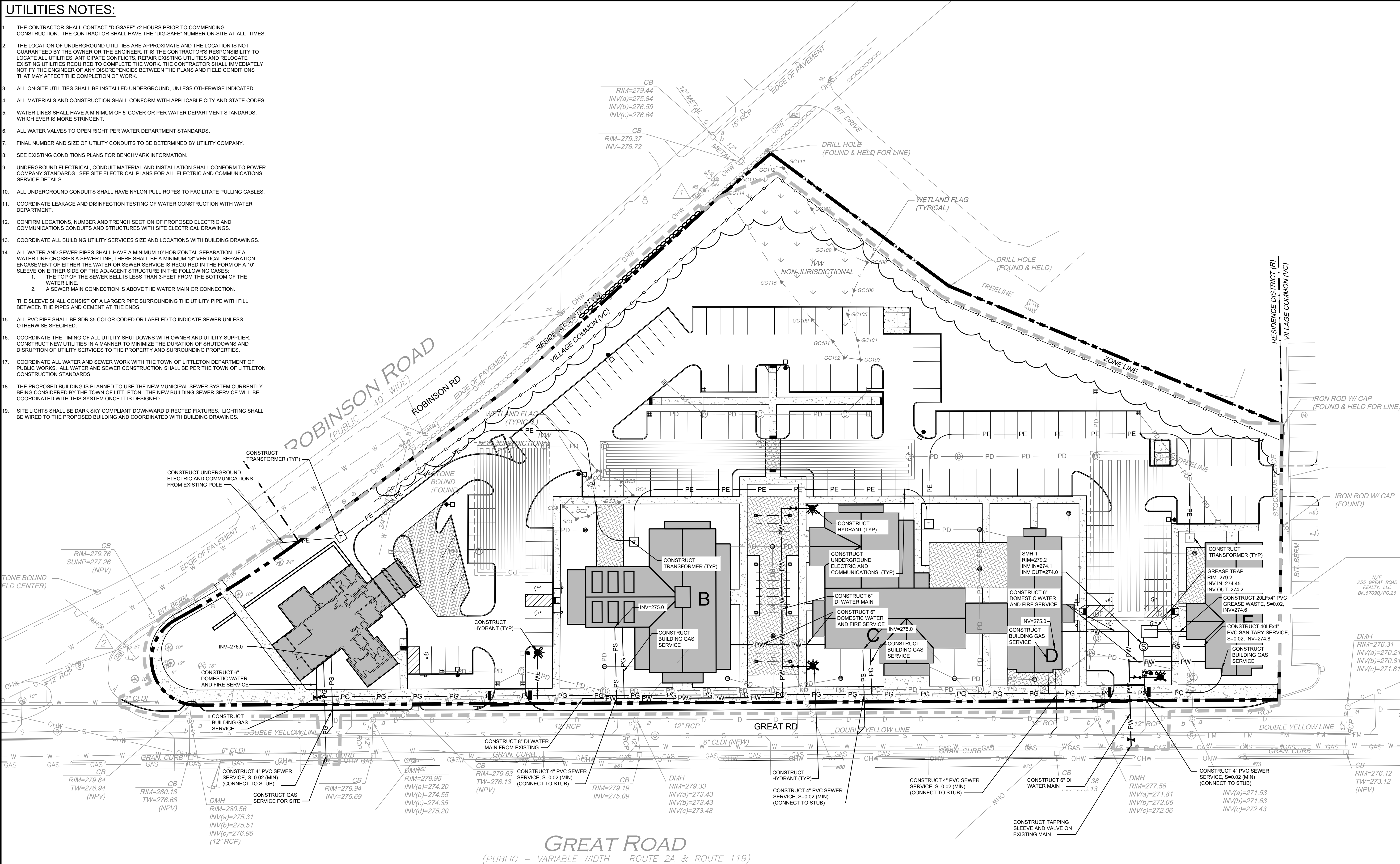
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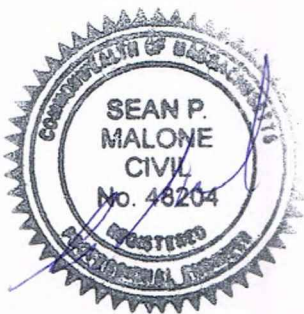
**GRADING, DRAINAGE
AND EROSION CONTROL
PLAN**

No.	Revision/Issue	Date
Design by:	SPM	Checked by: SPM
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Project:	18017	Date: September 7, 2022
Sheet:	C-300	

1. THE CONTRACTOR SHALL CONTACT "DIGSAFE" 72 HOURS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL HAVE THE "DIG-SAFE" NUMBER ON-SITE AT ALL TIMES.
2. THE LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE AND THE LOCATION IS NOT GUARANTEED BY THE OWNER OR THE ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITIES, ANTICIPATE CONFLICTS, REPAIR EXISTING UTILITIES AND RELOCATE EXISTING UTILITIES REQUIRED TO COMPLETE THE WORK. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS THAT MAY AFFECT THE COMPLETION OF WORK.
3. ALL ON-SITE UTILITIES SHALL BE INSTALLED UNDERGROUND, UNLESS OTHERWISE INDICATED.
4. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM WITH APPLICABLE CITY AND STATE CODES.
5. WATER LINES SHALL HAVE A MINIMUM OF 6" COVER OR PER WATER DEPARTMENT STANDARDS, WHICH EVER IS MORE STRINGENT.
6. ALL WATER VALVES TO OPEN RIGHT PER WATER DEPARTMENT STANDARDS.
7. FINAL NUMBER AND SIZE OF UTILITY CONDUITS TO BE DETERMINED BY UTILITY COMPANY.
8. SEE EXISTING CONDITIONS PLANS FOR BENCHMARK INFORMATION.
9. UNDERGROUND ELECTRICAL, CONDUIT MATERIAL AND INSTALLATION SHALL CONFORM TO POWER COMPANY STANDARDS. SEE SITE ELECTRICAL PLANS FOR ALL ELECTRIC AND COMMUNICATIONS SERVICE DETAILS.
10. ALL UNDERGROUND CONDUITS SHALL HAVE NYLON PULL ROPES TO FACILITATE PULLING CABLES.
11. COORDINATE LEAKAGE AND DISINFECTION TESTING OF WATER CONSTRUCTION WITH WATER DEPARTMENT.
12. CONFIRM LOCATIONS, NUMBER AND TRENCH SECTION OF PROPOSED ELECTRIC AND COMMUNICATIONS CONDUITS AND STRUCTURES WITH SITE ELECTRICAL DRAWINGS.
13. COORDINATE ALL BUILDING UTILITY SERVICES SIZE AND LOCATIONS WITH BUILDING DRAWINGS.
14. ALL WATER AND SEWER PIPES SHALL HAVE A MINIMUM 10' HORIZONTAL SEPARATION. IF A WATER LINE CROSSES A SEWER LINE, THERE SHALL BE A MINIMUM 18" VERTICAL SEPARATION. ENCASEMENT OF EITHER THE WATER OR SEWER SERVICE IS REQUIRED IN THE FORM OF A 10' SLEEVE OF EITHER THE MATERIAL OF THE ADJACENT STRUCTURE IN THE FOLLOWING CASES:
 1. THE TOP OF THE SEWER BELL IS LESS THAN 3-FEET FROM THE BOTTOM OF THE WATER LINE.
 2. A SEWER MAIN CONNECTION IS ABOVE THE WATER MAIN OR CONNECTION.
15. THE SLEEVE SHALL CONSIST OF A LARGER PIPE SURROUNDING THE UTILITY PIPE WITH FILL BETWEEN THE PIPES AND CEMENT AT THE ENDS.
16. ALL PVC PIPE SHALL BE SDR 35 COLOR CODED OR LABELED TO INDICATE SEWER UNLESS OTHERWISE SPECIFIED.
17. COORDINATE THE TIMING OF ALL UTILITY SHUTDOWNS WITH OWNER AND UTILITY SUPPLIER. CONSTRUCT NEW UTILITIES IN A MANNER TO MINIMIZE THE DURATION OF SHUTDOWNS AND DISRUPTION OF UTILITY SERVICES TO THE PROPERTY AND SURROUNDING PROPERTIES.
18. COORDINATE ALL WATER AND SEWER WORK WITH THE TOWN OF LITTLETON DEPARTMENT OF PUBLIC WORKS. ALL WATER AND SEWER CONSTRUCTION SHALL BE PER THE TOWN OF LITTLETON CONSTRUCTION STANDARDS.
19. THE PROPOSED BUILDING IS PLANNED TO USE THE NEW MUNICIPAL SEWER SYSTEM CURRENTLY BEING CONSIDERED BY THE TOWN OF LITTLETON. THE NEW BUILDING SEWER SERVICE WILL BE COORDINATED WITH THIS SYSTEM ONCE IT IS DESIGNED.
20. SITE LIGHTS SHALL BE DARK SKY COMPLIANT DOWNWARD DIRECTED FIXTURES. LIGHTING SHALL BE WIRED TO THE PROPOSED BUILDING AND COORDINATED WITH BUILDING DRAWINGS.



LEGEND-PROPOSED	
PS	SEWER LINE
PW	WATER PIPE
PG	GAS PIPE
PE	UNDERGROUND ELECTRIC & TEL/DATA WATER SHUTOFF
	SEWER MANHOLE
	HYDRANT
	APPROXIMATE LIMIT OF WORK



SITE UTILITIES PLAN

Sheet: **C-400**

C-400

PROJECT NAME AND LOCATION

NORTHERN BANK
GREAT ROAD
LITTLETON, MA

LAT: 42°32'43"N
LON: 71°28'11"W

DESCRIPTION

THE PROJECT CONSISTS OF CONSTRUCTING A NEW STAND ALONE BANK AND MIXED USE COMMERCIAL DEVELOPMENT WITH SUPPORTING INFRASTRUCTURE ON PREVIOUSLY DEVELOPED LAND.

SOIL CHARACTERISTICS

EXISTING SITE SOILS ARE GENERALLY COMPRISED PREVIOUSLY DISTURBED URBAN LAND

DISTURBED AREA

THE TOTAL AREA TO BE DISTURBED IS APPROXIMATELY 5.0 ACRES.

SEQUENCE OF MAJOR ACTIVITIES

1. INSTALL EROSION CONTROLS. CLEAR AND GRUB SITE.
2. STRIP AND STOCKPILE SOILS.
3. ROUGH GRADE SITE/CONSTRUCT BUILDING PAD.
4. CONSTRUCT UTILITIES AND DRAINAGE.
5. CONSTRUCT PAVEMENT AND FINAL STABILIZATION OF THE SITE.
6. CONSTRUCT LANDSCAPING AND SIGNAGE.
7. REMOVE EROSION CONTROLS.

EROSION AND SEDIMENT CONTROLS AND STABILIZATION PRACTICES

STABILIZATION: AN AREA SHALL BE CONSIDERED STABILIZED WHEN ONCE ONE OF THE FOLLOWING HAS OCCURRED:

1. A MINIMUM OF 85% VEGETATIVE GROWTH HAS BEEN ESTABLISHED;
2. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP-RAP HAS BEEN INSTALLED; OR
3. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

STABILIZATION SHALL BE INITIATED ON ALL LOAM STOCKPILES AND DISTURBED AREAS WHERE CONSTRUCTION ACTIVITY WILL NOT OCCUR FOR MORE THAN THIRTY (30) CALENDAR DAYS BY THE FOURTEENTH (14TH) DAY AFTER CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED IN THAT AREA. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 60 DAYS OF INITIAL DISTURBANCE. ALL CUT AND FILL SLOPES AND ROADWAYS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING GRADE. STABILIZATION MEASURES TO BE USED INCLUDE:

1. TEMPORARY SEEDING;
2. MULCHING;
3. STONE RIP-RAP; OR
4. JUTE MATTING.

DURING CONSTRUCTION, RUNOFF WILL BE DIVERTED AROUND THE SITE WITH EARTH DIKES, PIPING OR STABILIZED CHANNELS WHERE POSSIBLE. SHEET RUNOFF FROM THE SITE WILL BE FILTERED THROUGH HAY BALE BARRIERS AND/OR SILT FENCES. ALL STORM DRAIN INLETS SHALL BE PROVIDED WITH BARRIER FILTERS.

OFF-SITE VEHICLE TRACKING

STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT ALL EGRESSSES TO THE ACTIVE WORK AREAS ON THE SITE AND MAINTAINED FOR THE DURATION OF CONSTRUCTION.

TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES THE EROSION AND SEDIMENT BARRIERS SHALL BE INSTALLED PRIOR TO COMMENCING ANY CLEARING OR GRADING OF THE SITE. STRUCTURAL CONTROLS SHALL BE INSTALLED CONCURRENTLY WITH THE APPLICABLE ACTIVITY. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN THIRTY (30) DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND MULCH WITHIN FOURTEEN (14) DAYS OF THE LAST DISTURBANCE. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, SILT FENCES AND HAY BALE BARRIERS AND ANY EARTH/DIKES WILL BE REMOVED ONCE PERMANENT MEASURES ARE ESTABLISHED.

INSTALLATION, MAINTENANCE AND INSPECTION PROCEDURES OF EROSION AND SEDIMENT CONTROLS

A. GENERAL – THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING:

INSPECTION

1. ALL CONTROL MEASURES WILL BE INSPECTED DAILY;
2. A MAINTENANCE INSPECTION REPORT WILL BE MADE WEEKLY; AND
3. THE CONTRACTOR'S SITE SUPERINTENDENT WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.

MAINTENANCE

1. STABILIZATION OF ALL SWALES, DITCHES IS REQUIRED PRIOR TO DIRECTING FLOW TO THEM.
2. ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.
3. BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE OR HAY BALE BARRIERS WHEN IT HAS REACHED ONE THIRD THE HEIGHT OF THE FENCE OR BALE.
4. ALL DIVERSION DIKES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.
5. TEMPORARY SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND UNHEALTHY GROWTH.

B. SEDIMENTATION BARRIERS

1. PRODUCTS

SEDIMENTATION BARRIERS SHALL BE AS SPECIFIED ON THESE DRAWINGS AND PROJECT SPECIFICATIONS.

2. INSTALLATION

SEDIMENTATION BARRIERS SHALL BE INSTALLED PER MANUFACTURE'S SPECIFICATIONS AND RECOMMENDATIONS. SEDIMENTATION BARRIERS SHALL BE INSTALLED IN THE LOCATIONS SHOWN ON THE PLANS AND IN ALL OTHER LOCATIONS REQUIRED TO PREVENT THE MIGRATION OF SEDIMENT FROM THE ACTIVE CONSTRUCTION SITE.

3. SEQUENCE OF INSTALLATION

SEDIMENT BARRIERS SHALL BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF THE CONTRIBUTING DRAINAGE AREA ABOVE THEM.

4. MAINTENANCE

SEDIMENTATION BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. THEY SHALL BE REPAIRED IF THERE ARE ANY SIGNS OF EROSION OR SEDIMENTATION BELOW THEM. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. IF THERE ARE SIGNS OF UNDERCUTTING AT THE CENTER OR THE EDGES, OR IMPOUNDING OF LARGE VOLUMES OF WATER BEHIND THEM, SEDIMENT BARRIERS SHALL BE REPLACED WITH A TEMPORARY CHECK DAM.

SHOULD THE FABRIC ON A SEDIMENTATION BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY 1/3 THE HEIGHT OF THE BARRIER.

ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SEDIMENTATION BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

C. MULCHING

1. TIMING

IN ORDER FOR THE MULCH TO BE EFFECTIVE IT MUST BE IN PLACE PRIOR TO MAJOR STORM EVENTS. THERE ARE TWO TYPES OF STANDARDS WHICH SHALL BE USED:

APPLY MULCH PRIOR TO ANY STORM EVENT

THIS STANDARD IS APPLICABLE WHEN WORKING WITHIN 100 FEET OF WETLANDS. IT WILL BE NECESSARY TO CLOSELY MONITOR WEATHER PREDICTIONS, USUALLY BY CONTACTING THE NATIONAL WEATHER SERVICE TO HAVE ADEQUATE WARNING OF SIGNIFICANT STORMS.

REQUIRED MULCHING WITHIN A SPECIFIED TIME PERIOD

THE TIME PERIOD CAN RANGE FROM 14 TO 21 DAYS OF INACTIVITY ON AN AREA, THE LENGTH OF TIME VARYING WITH SITE CONDITIONS. PROFESSIONAL JUDGMENT SHALL BE USED TO EVALUATE THE INTERACTION OF SITE CONDITIONS (SOIL ERODIBILITY, SEASON OF YEAR, EXTENT OF DISTURBANCE, PROXIMITY TO SENSITIVE RESOURCES, ETC.) AND THE POTENTIAL IMPACT OF EROSION ON ADJACENT AREAS TO CHOOSE AN APPROPRIATE TIME RESTRICTION.

2. GUIDELINES FOR WINTER MULCH APPLICATION

WHEN MULCH IS APPLIED TO PROVIDE PROTECTION OVER THE WINTER (PAST THE GROWING SEASON) IT SHALL BE AT A RATE OF 6,000 POUNDS OF HAY OR STRAW PER ACRE. A TACKIFIER MAY BE ADDED TO THE MULCH.

3. MAINTENANCE

ALL MULCHES MUST BE INSPECTED PERIODICALLY, IN PARTICULAR AFTER RAIN STORMS, TO CHECK FOR RILL EROSION. IF LESS THAN 90% OF THE SOIL SURFACE IS COVERED BY MULCH, ADDITIONAL MULCH SHALL BE APPLIED.

A. VEGETATIVE PRACTICES

FOR PERMANENT MEASURES AND PLANTINGS FROM EARLY SPRING TO SEPTEMBER 30:

AFTER ROUGH GRADING OF THE SUBGRADE HAS BEEN COMPLETED AND APPROVED, THE SUBGRADE SURFACE SHALL BE SCARIFIED TO A DEPTH OF FOUR INCHES. THEN FURNISH AND INSTALL A LAYER OF LOAM PROVIDING A ROLLED FOUR INCH THICKNESS. ANY DEPRESSIONS WHICH MAY OCCUR DURING ROLLING SHALL BE FILLED WITH ADDITIONAL LOAM, REGRADED AND REROLLED UNTIL THE SURFACE IS TRUE TO THE FINISHED LINES AND GRADES. ALL LOAM NECESSARY TO COMPLETE THE WORK UNDER THIS SECTION SHALL BE SUPPLIED BY THE SITE SUBCONTRACTOR.

ALL LARGE STIFF CLOUDS, LUMPS, BRUSH, ROOTS, DEBRIS, GLASS, STUMPS, LITTER AND OTHER FOREIGN MATERIAL AS WELL AS STONES OVER ONE INCH IN DIAMETER SHALL BE REMOVE FROM THE LOAM AND DISPOSED OF OFF SITE, AND THE LOAM SHALL BE RAKED SMOOTH AND EVEN.

THE LOAM SHALL BE PREPARED TO RECEIVE SEED BY REMOVING STONES, FOREIGN OBJECTS AND GRADING TO ELIMINATE WATER POCKETS AND IRREGULARITIES PRIOR TO PLACING SEED. FINISH GRADING SHALL RESULT IN STRAIGHT UNIFORM GRADES AND SMOOTH, EVEN SURFACES WITHOUT IRREGULARITIES TO LOW POINTS.

SHAPE THE AREAS TO THE LINES AND GRADES REQUIRED. THE SITE SUBCONTRACTOR'S ATTENTION IS DIRECTED TO THE SCHEDULING OF LOAMING AND SEEDING OF GRADED AREAS TO PERMIT SUFFICIENT TIME FOR THE STABILIZATION OF THESE AREAS. IT SHALL BE THE SITE SUBCONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE AREAS DURING THE CONSTRUCTION PERIOD AND REGRADE, LOAM AND RESEED ANY DAMAGED AREAS.

ALL AREAS DISTURBED BY CONSTRUCTION WITHIN THE PROPERTY LINES AND NOT COVERED BY STRUCTURES, PAVEMENT, OR MULCH SHALL BE LOAMED AND SEEDED.

LIMESTONE SHALL BE THOROUGHLY INCORPORATED INTO THE LOAM LAYER AT A RATE OF 2 TONS PER ACRE IN ORDER TO PROVIDE A PH VALUE OF 5.5 TO 6.5.

IF REQUIRED, FERTILIZER SHALL BE SPREAD ON THE TOP LAYER OF LOAM AND WORKED INTO THE SURFACE. FERTILIZER APPLICATION RATE SHALL BE 500 POUNDS PER ACRE OF 10–20–20 FERTILIZER. USE OF FERTILIZER SHOULD BE AVOIDED IN INFILTRATION AREAS.

SOIL CONDITIONERS AND FERTILIZER SHALL BE APPLIED AT THE RECOMMENDED RATES AND SHALL BE THOROUGHLY WORKED INTO THE LOAM. LOAM SHALL BE RAKED UNTIL THE SURFACE IS FINELY PULVERIZED, SMOOTH AND EVEN, AND THEN COMPACTED TO AN EVEN SURFACE CONFORMING TO THE REQUIRED LINES AND GRADES WITH APPROVED ROLLERS WEIGHING BETWEEN 4 1/2 POUNDS AND 5 1/2 POUNDS PER INCH OF WIDTH.

SEED SHALL BE SOWN AT THE RATE SHOWN BELOW. SOWING SHALL BE DONE ON A CALM, DRY DAY, PREFERABLY BY MACHINE, BUT IF BY HAND, ONLY BY EXPERIENCED WORKMEN. IMMEDIATELY BEFORE SEEDING, THE SOIL SHALL BE LIGHTLY RAKED. ONE HALF THE SEED SHALL BE SOWN IN ONE DIRECTION AND THE OTHER HALF AT RIGHT ANGLES TO THE ORIGINAL DIRECTION. IT SHALL BE LIGHTLY RAKED INTO THE SOIL TO A DEPTH NOT OVER 1/4 INCH AND ROLLED WITH A HAND ROLLER WEIGHING NOT OVER 100 POUNDS PER LINEAR FOOT OF WIDTH.

HAY MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING AT A RATE OF 1.5 TO 2 TONS PER ACRE. MULCH THAT BLOWS OR WASHES AWAY SHALL BE REPLACED IMMEDIATELY AND ANCHORED USING APPROPRIATE TECHNIQUES FROM THE EROSION AND SEDIMENT CONTROL HANDBOOK.

THE SURFACE SHALL BE WATERED AND KEPT MOIST WITH A FINE SPRAY AS REQUIRED, WITHOUT WASHING AWAY THE SOIL, UNTIL THE GRASS IS WELL ESTABLISHED. ANY AREAS WHICH ARE NOT SATISFACTORILY COVERED WITH GRASS SHALL BE RESEDED, AND ALL NOXIOUS WEEDS REMOVED.

THE SITE SUBCONTRACTOR SHALL PROTECT AND MAINTAIN THE SEEDED AREAS UNTIL ACCEPTED, INCLUDING CUTTING, AS SPECIFIED HEREIN AFTER UNDER MAINTENANCE AND PROTECTION.

UNLESS OTHERWISE APPROVED, SEEDING SHALL BE DONE DURING THE APPROXIMATE PERIODS OF EARLY SPRING TO SEPTEMBER 30, WHEN SOIL CONDITIONS AND WEATHER ARE SUITABLE FOR SUCH

WORK. A GRASS SEED MIXTURE CONTAINING THE FOLLOWING SEED REQUIREMENTS SHALL BE:

	POUNDS/ACRE	MIN GERMINATION	MIN PURITY
GENERAL COVER			
CREeping RED FESCUE	50	85%	96%
KENTUCKY BLUE GRASS	50	85%	97%
	100		
SLOPE SEED (USED ON SLOPES GREATER THAN OR EQUAL TO 3:1			
CREeping RED FESCUE	20	85%	96%
TALL FESCUE	20	85%	97%
RED TOP	2	80%	95%
	42		

IN NO CASE SHALL THE WEED CONTENT EXCEED 1 PERCENT BY WEIGHT. ALL SEED SHALL COMPLY WITH STATE AND FEDERAL LAW.

FOR TEMPORARY PLANTINGS AFTER SEPTEMBER TO EARLY SPRING AND FOR TEMPORARY PROTECTION OF DISTURBED AREAS:

- FOLLOW ABOVE SLOPE, LOAM DEPTH AND GRADING REQUIREMENTS.
- FERTILIZER SHALL BE SPREAD AND WORKED INTO THE SURFACE AT A RATE OF 300 POUNDS PER ACRE.
- MULCHING AND SEEDING SHALL BE APPLIED AT THE FOLLOWING RATES:

WINTER RYE (FALL SEEDING)	2.5 LBS/1,000 SF
OATS (SPRING SEEDING)	2 LBS/1,000 SF
MULCH	1.5 TONS/ACRE

STABILIZED CONSTRUCTION ENTRANCE

A. SPECIFICATIONS

1. AGGREGATE SIZE: USE TWO (2) INCHES STONE OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT
2. AGGREGATE THICKNESS: NOT LESS THAN SIX (6) INCHES.
3. WIDTH: TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH OF THE POINTS WHERE INGRESS OR EGRESS OCCURS.
4. LENGTH: AS REQUIRED BUT NOT LESS THAN 50 FEET.

B. MAINTENANCE

THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH AGGREGATE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING STORM DRAINS, DITCHES, OR WATERWAYS.

WASTE DISPOSAL

A. WASTE MATERIALS

ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN SECURELY LIDDED RECEP TACLES. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN A DUMPSTER. NO CONSTRUCTION WASTE MATERIALS WILL BE BURIED ON SITE. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL BY THE SUPERINTENDENT.

B. HAZARDOUS WASTE

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES BY THE SUPERINTENDENT.

C. SANITARY WASTE

ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONCE PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR.

ADDITIONAL NOTES FOR WINTER CONSTRUCTION

- A. ALL PROPOSED POST-DEVELOPMENT LANDSCAPED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY NOVEMBER 15TH, OR WHICH ARE DISTURBED AFTER NOVEMBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 4:1 AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE PLACEMENT OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR FROZEN GROUND.
- B. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY NOVEMBER 15TH, OR WHICH ARE DISTURBED AFTER NOVEMBER 15TH, SHALL BE STABILIZED WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.
- C. AFTER NOVEMBER 15TH, ALL TRAVEL SURFACES SHALL BE PROTECTED WITH A MINIMUM OF 3-INCHES OF CRUSHED GRAVEL OR IF CONSTRUCTION IS TO CONTINUE THROUGH THE WINTER SEASON BE CLEARED OF ANY ACCUMULATED SNOWFALL AFTER EACH STORM EVENT

DUST CONTROL

THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL DUST THROUGHOUT THE CONSTRUCTION PERIOD. DUST CONTROL METHODS SHALL INCLUDE, BUT NOT LIMITED TO SPRINKLING WATER ON EXPOSED AREAS, COVERING LOADED DUMP TRUCKS LEAVING THE SITE, AND TEMPORARY MULCHING. DUST CONTROL MEASURES SHALL BE UTILIZED SO AS TO PREVENT THE MIGRATION OF DUST FROM THE ACTIVE SITE TO ABUTTING AREAS.

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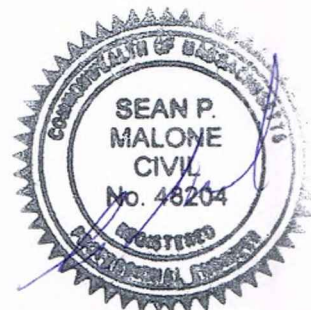
NORTHERN BANK
TOWN COMMON

265-289 GREAT ROAD
LITTLETON, MASSACHUSETTS

Prepared for:

NORTHERN BANK AND
TRUST COMPANY

275 MISHAWUM ROAD
WO BURN, MASSACHUSETTS



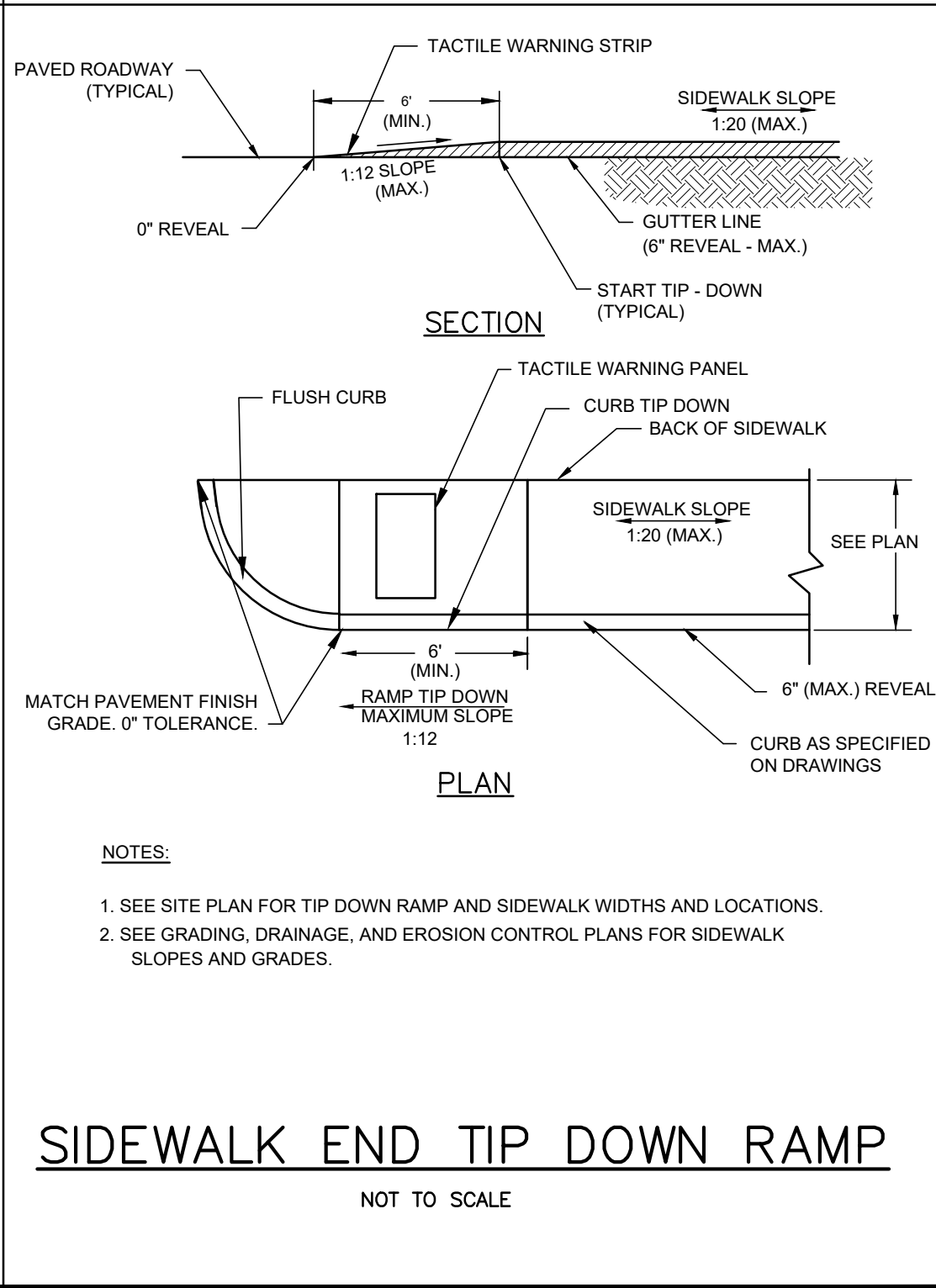
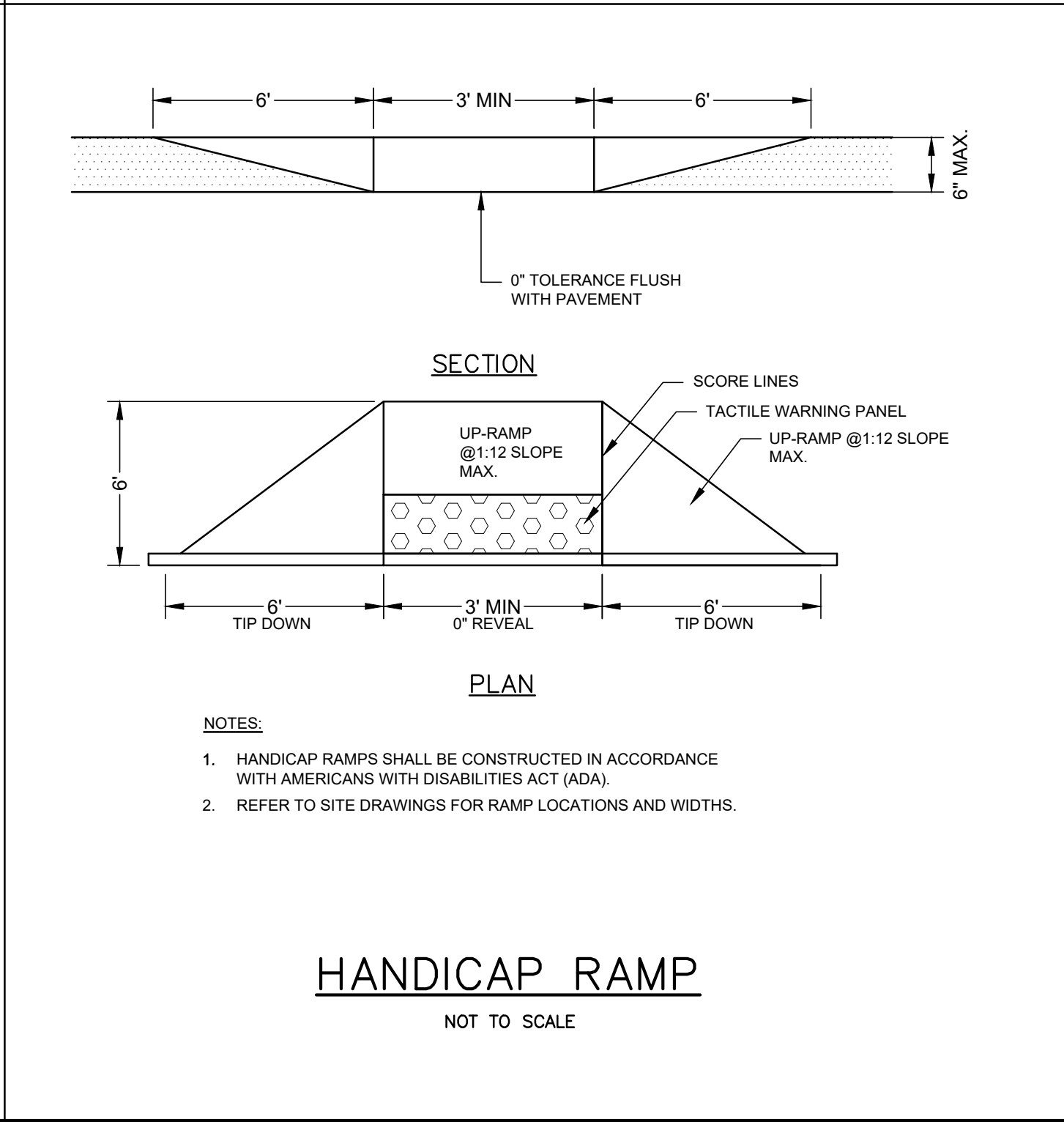
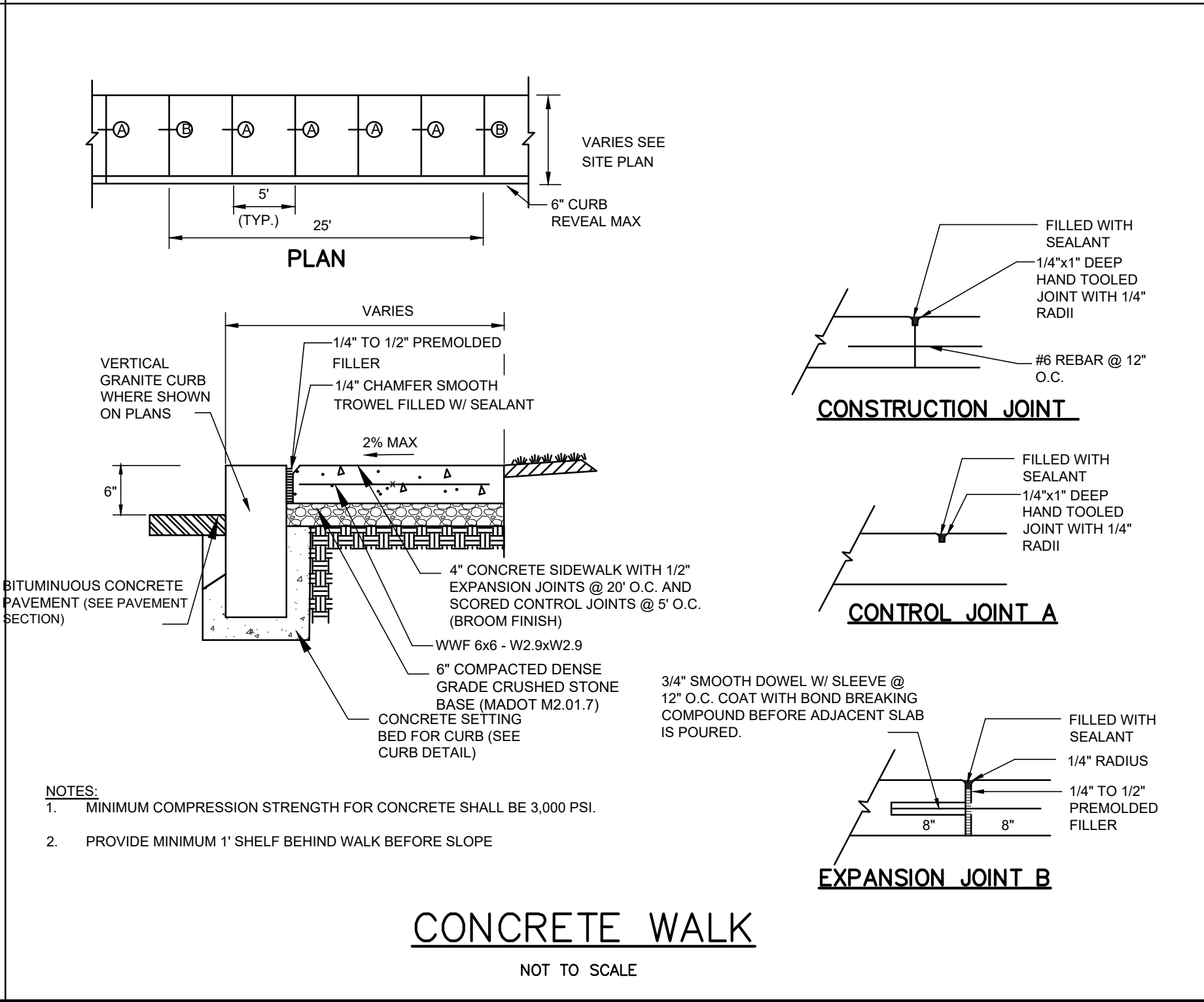
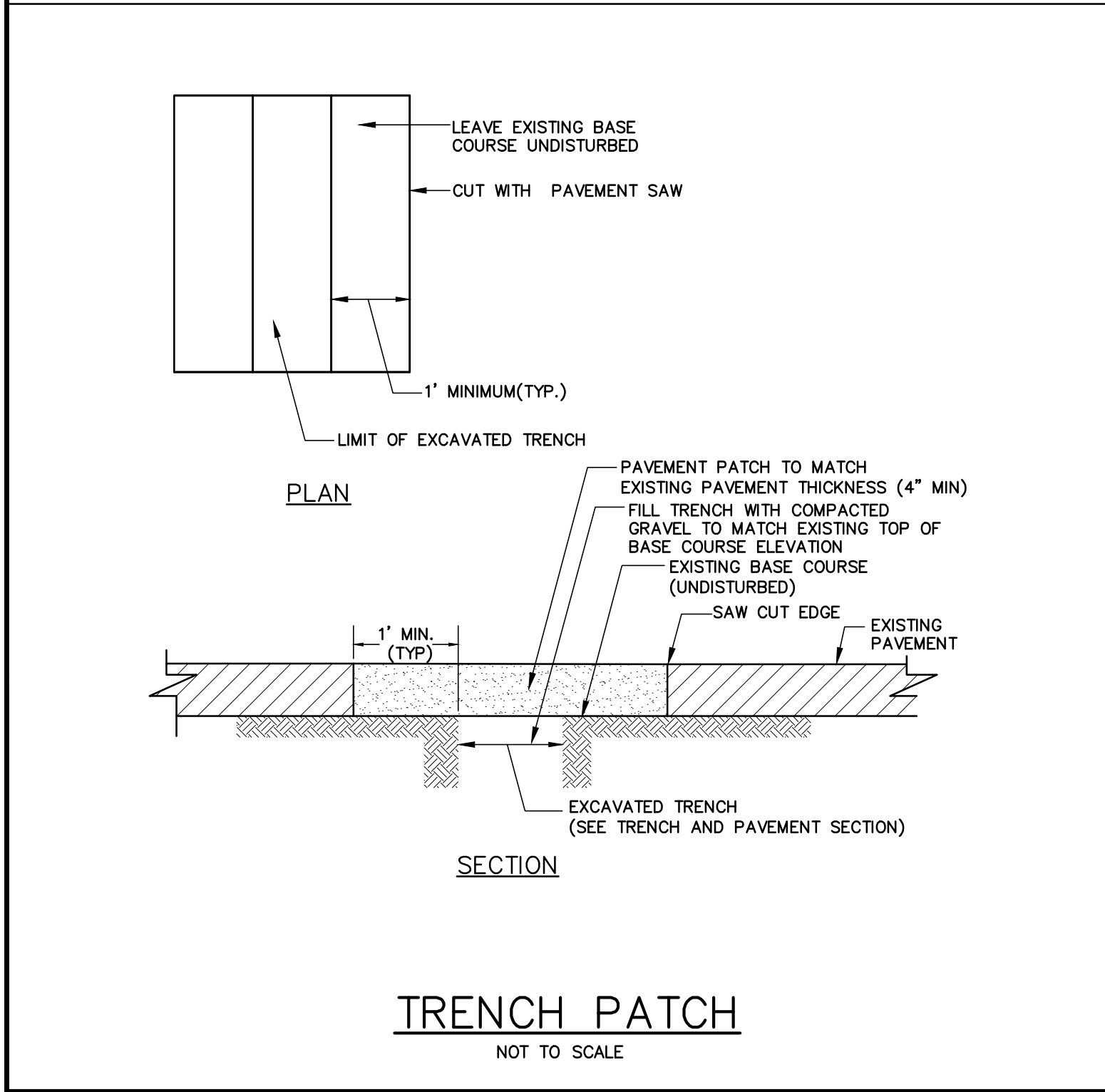
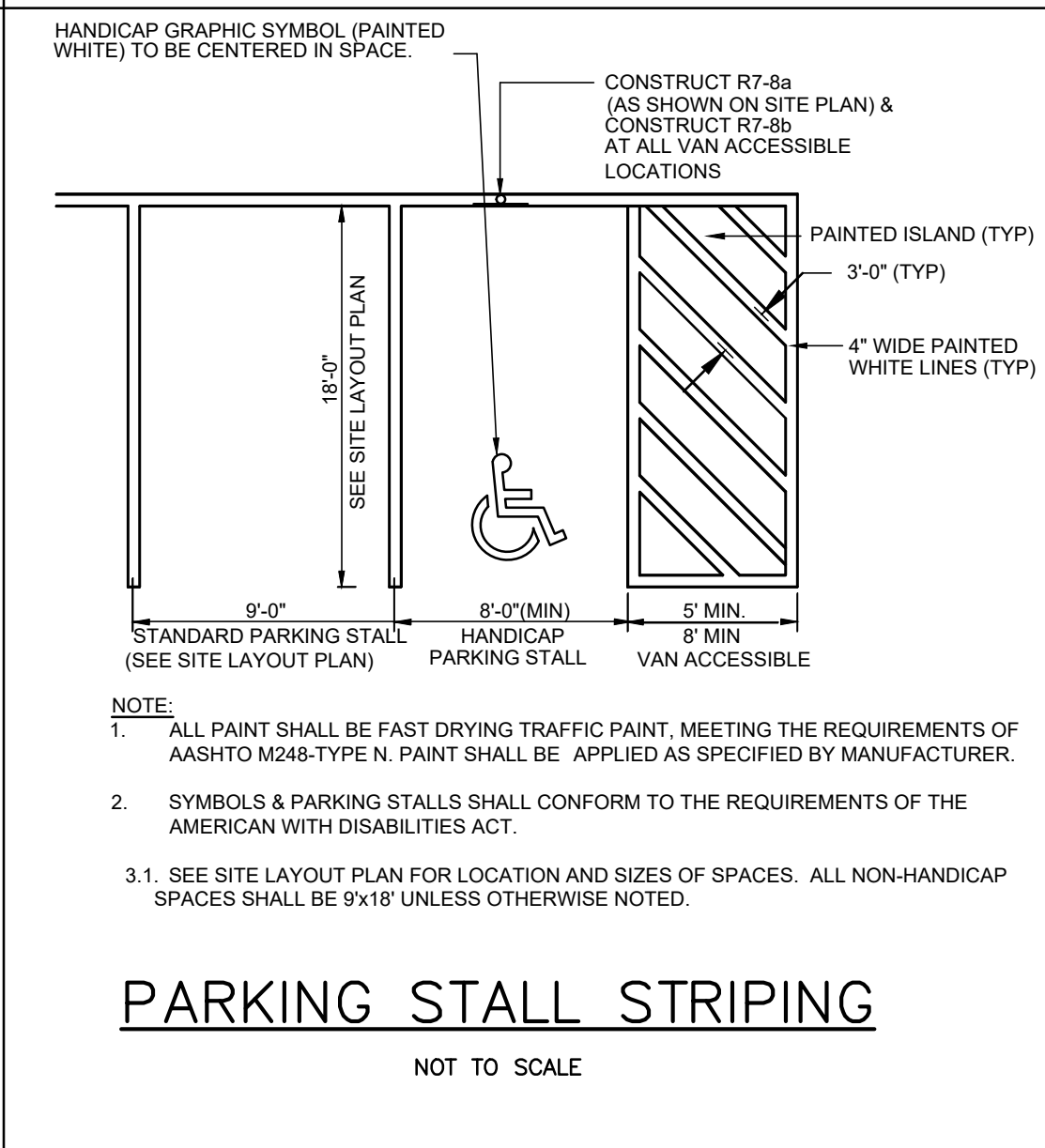
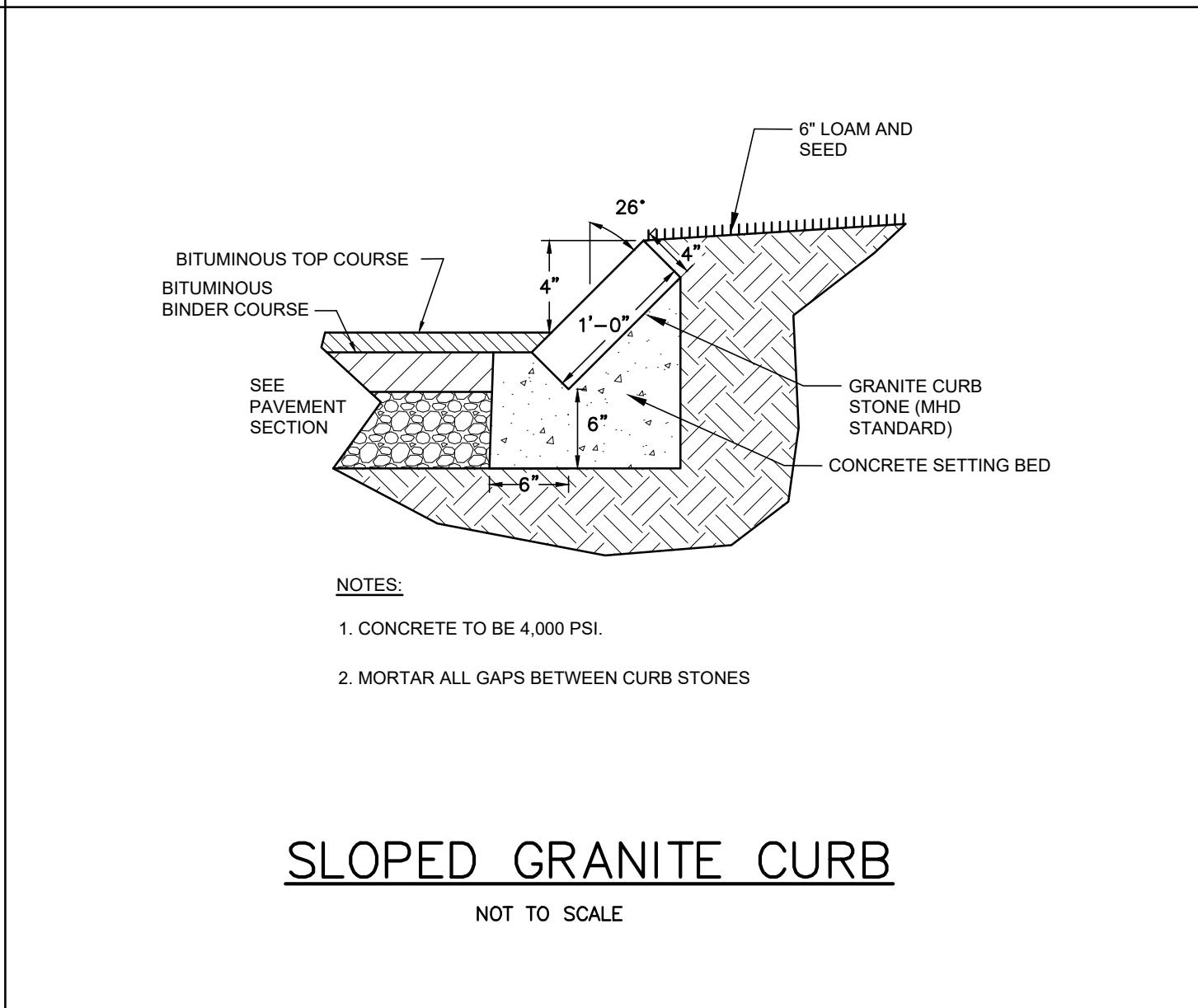
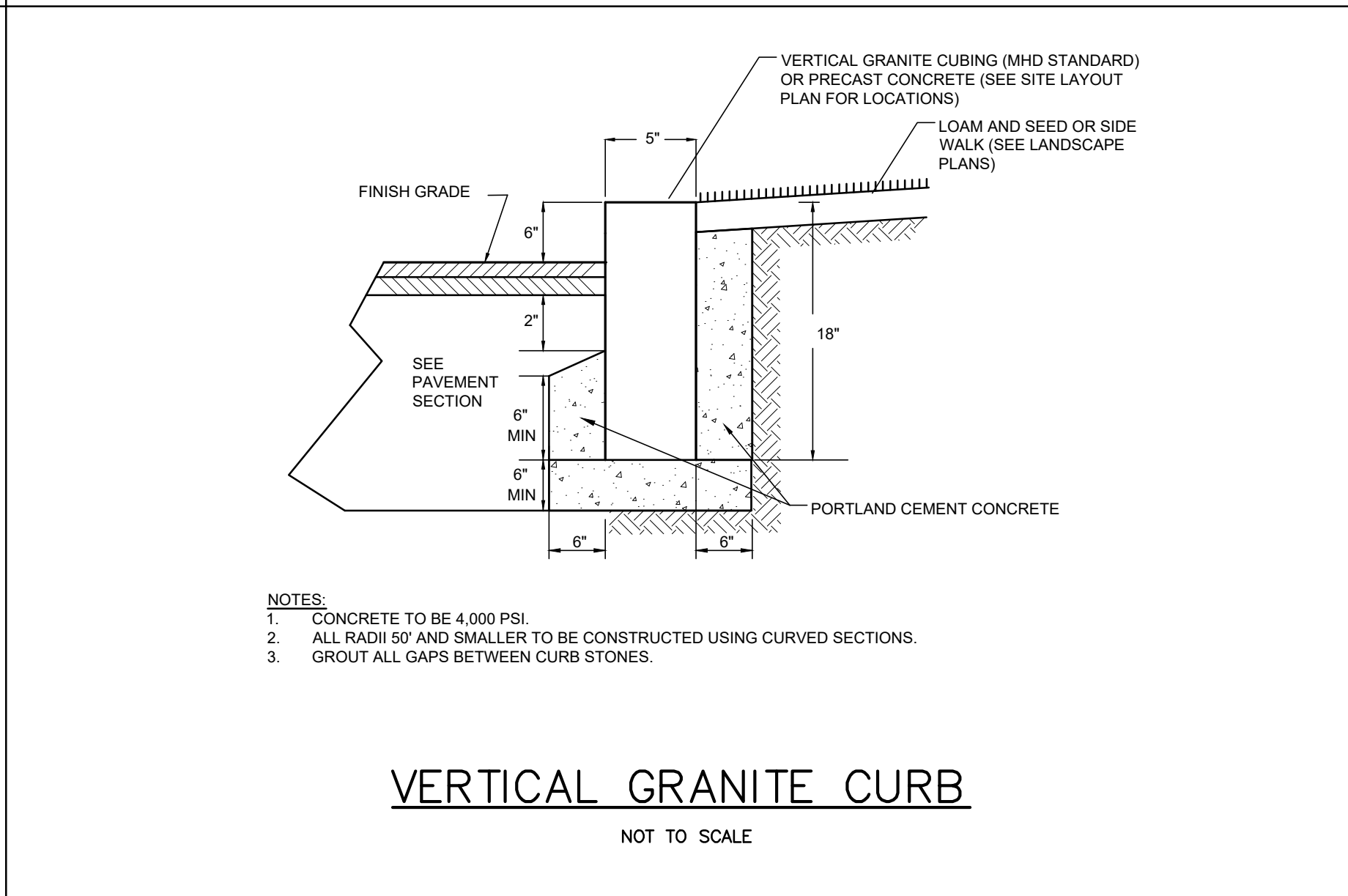
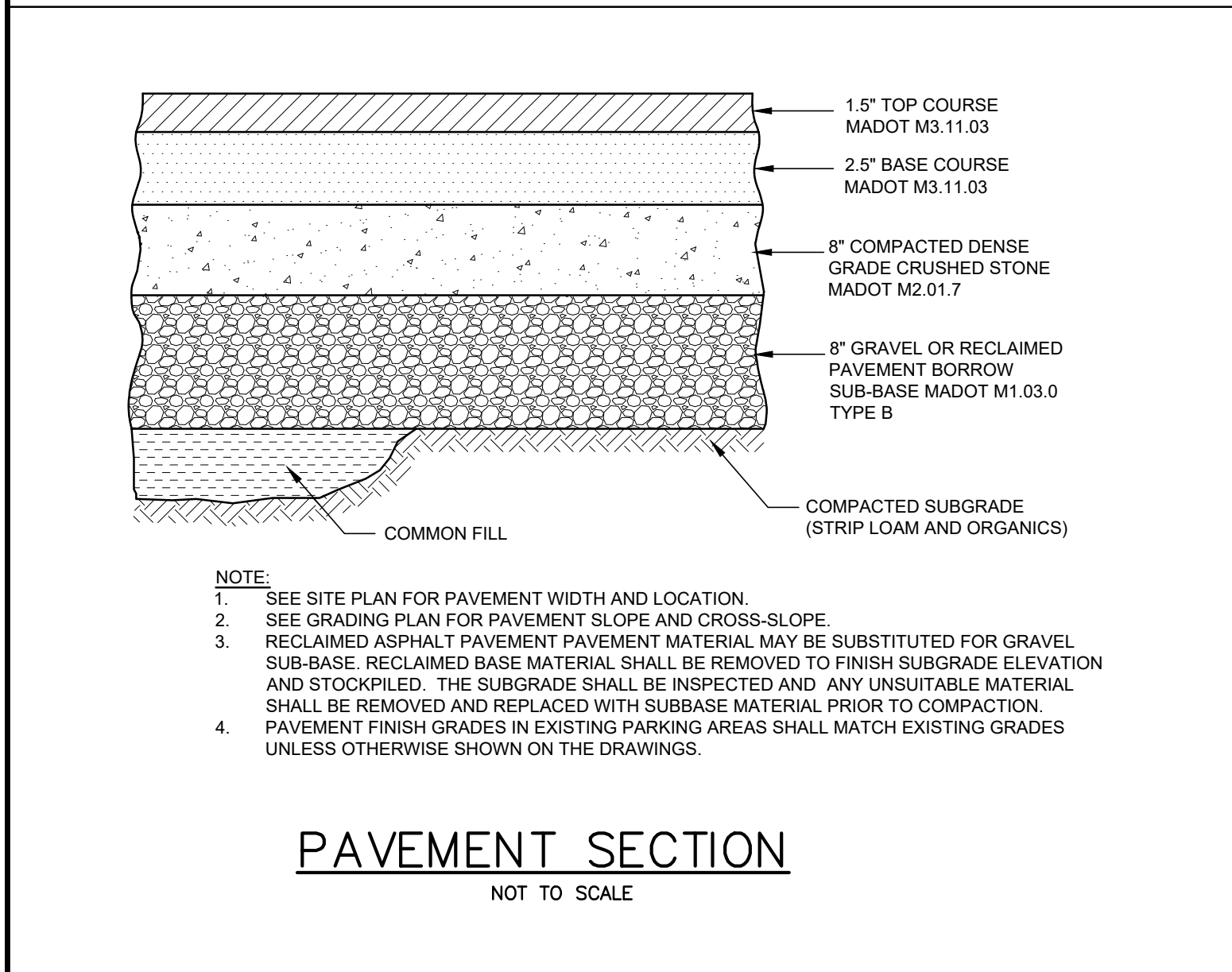
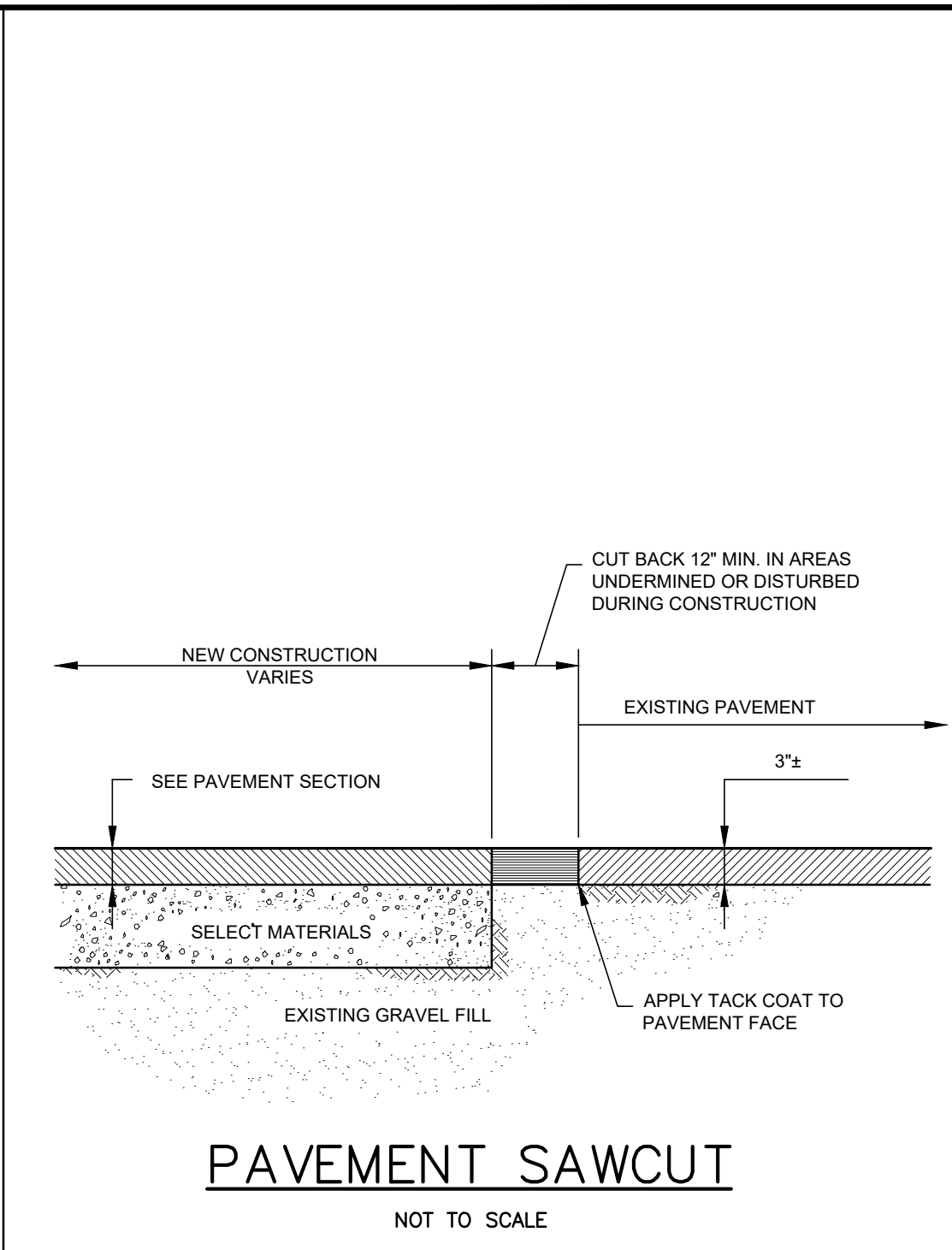
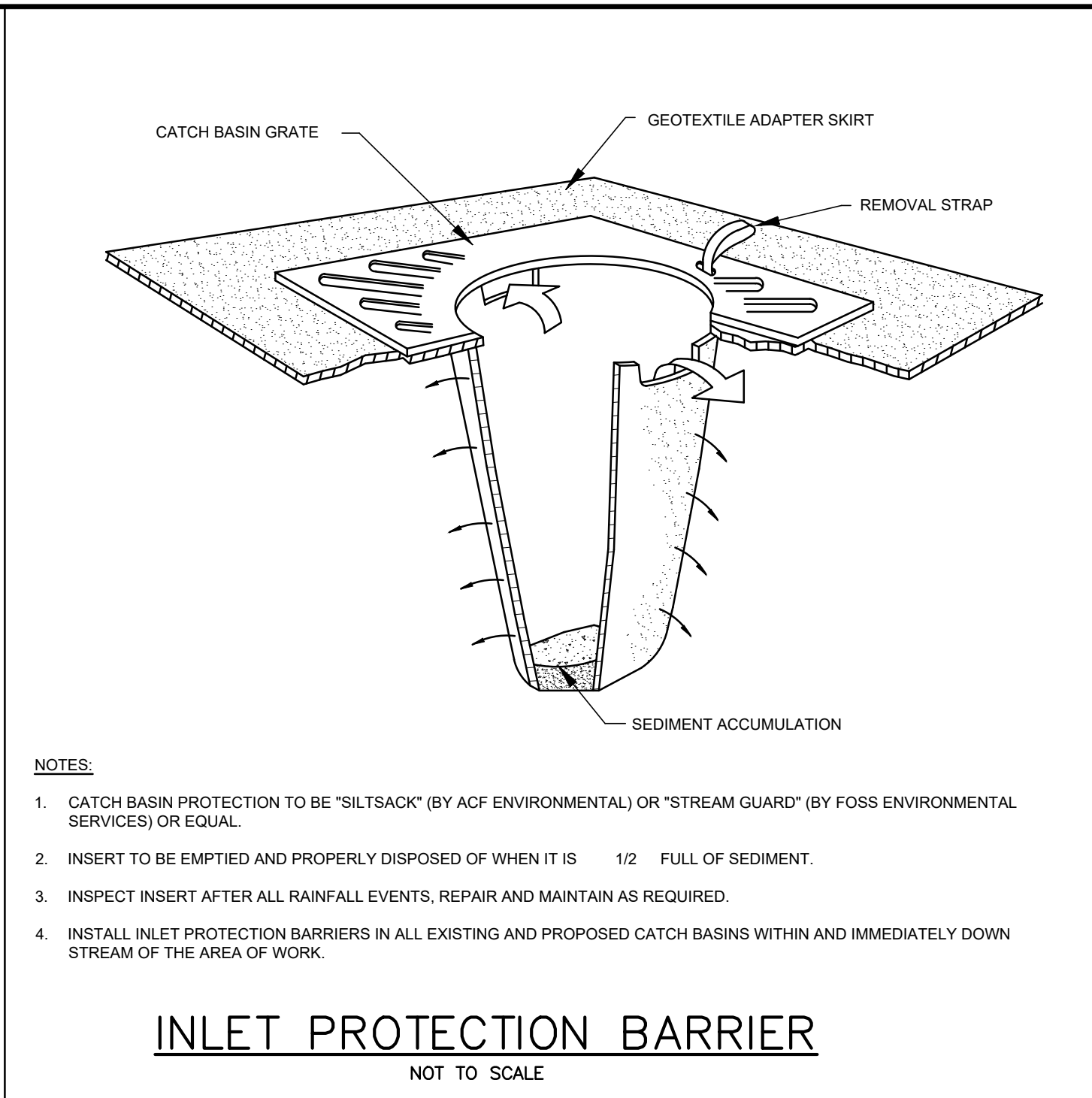
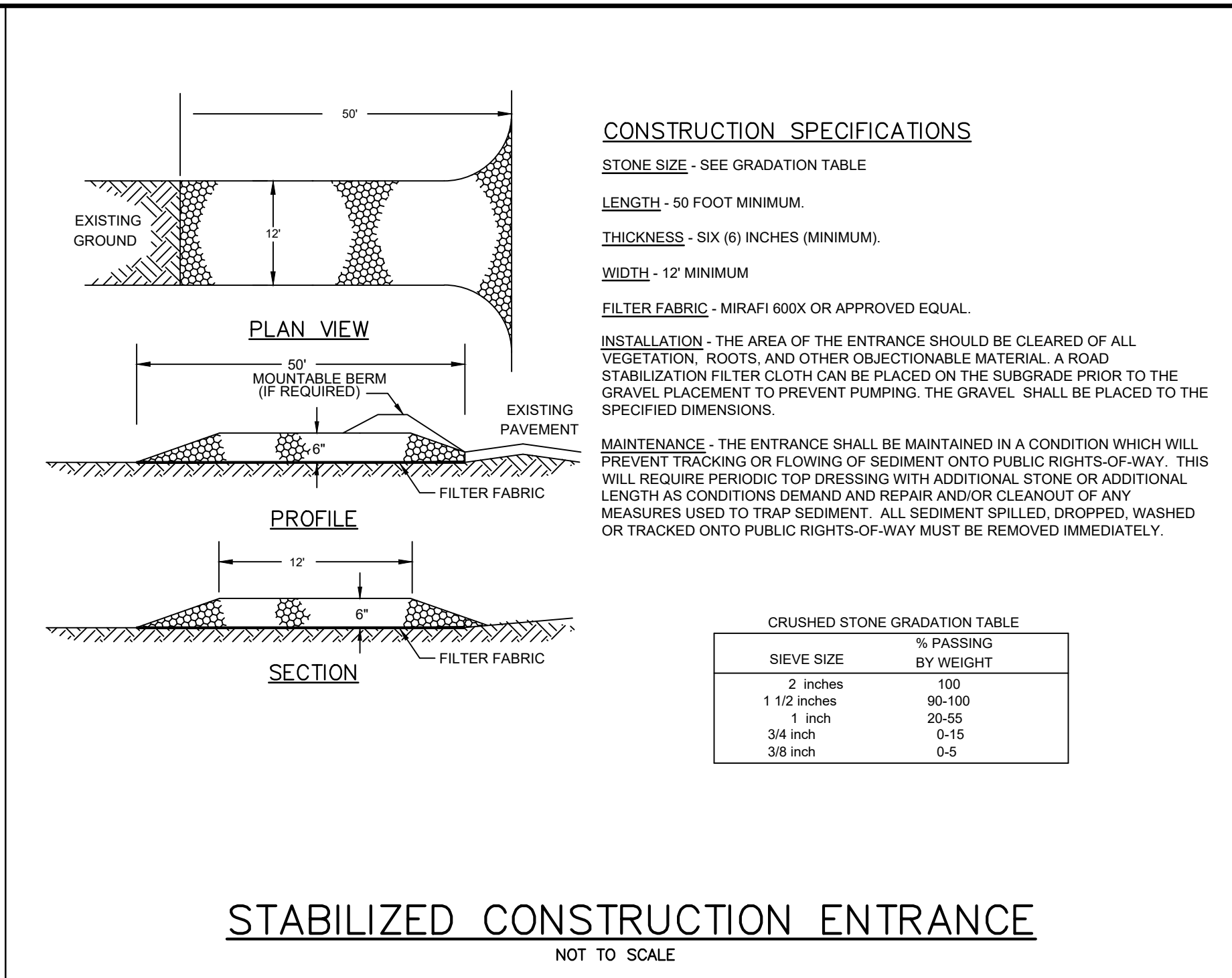
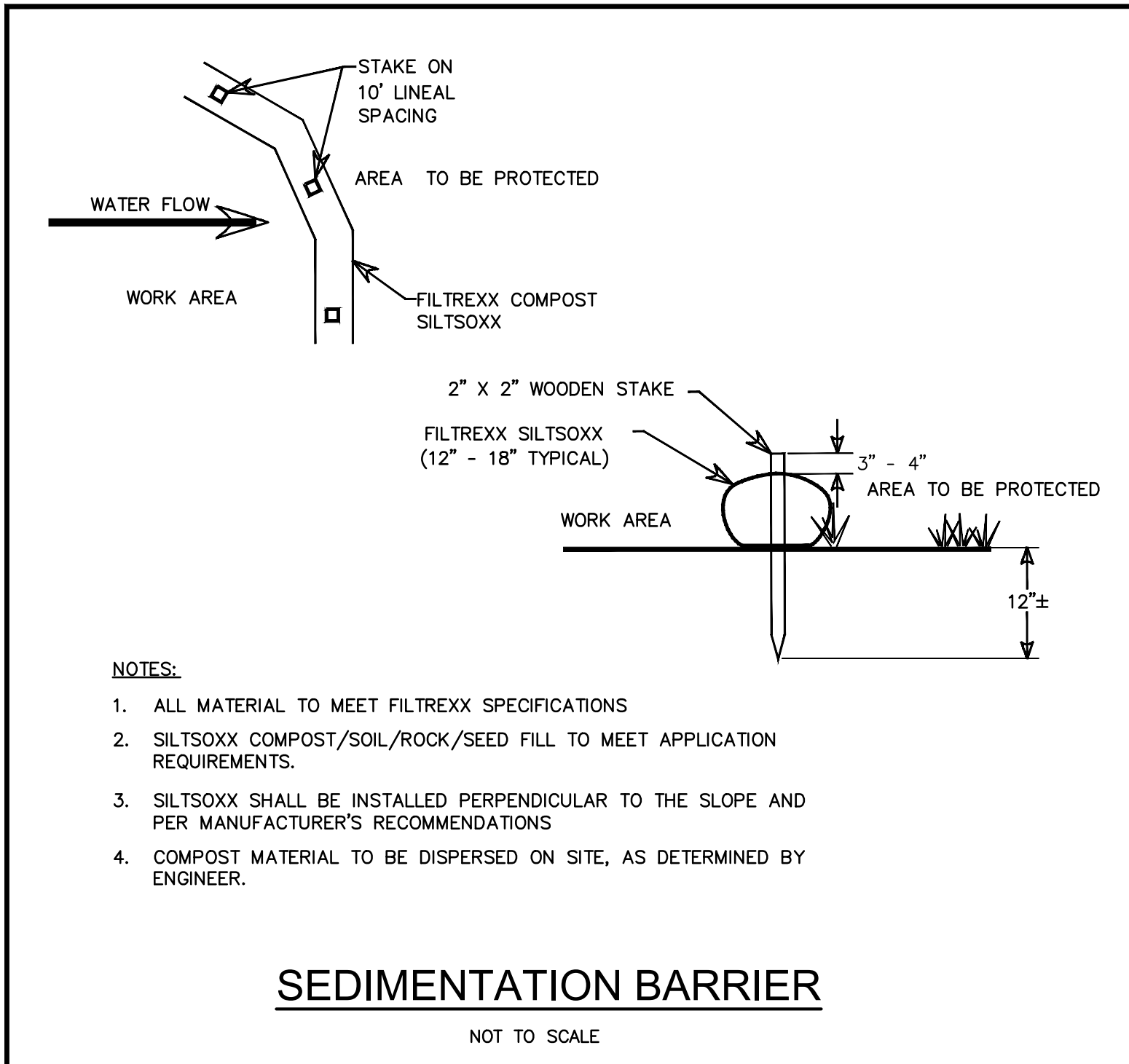
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EROSION CONTROL
NOTES

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SPM	SPM	
Drawn by:	Approved by:	
SPM	SPM	
Project:	Date:	
18017	September 7, 2022	
Sheet:		

C-500



Site: **NORTHERN BANK TOWN COMMON**
265-289 GREAT ROAD
LITTLETON, MASSACHUSETTS

Prepared for: **NORTHERN BANK AND TRUST COMPANY**
275 MISHAWUM ROAD
WOBURN, MASSACHUSETTS

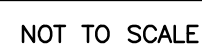
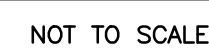
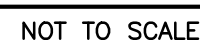
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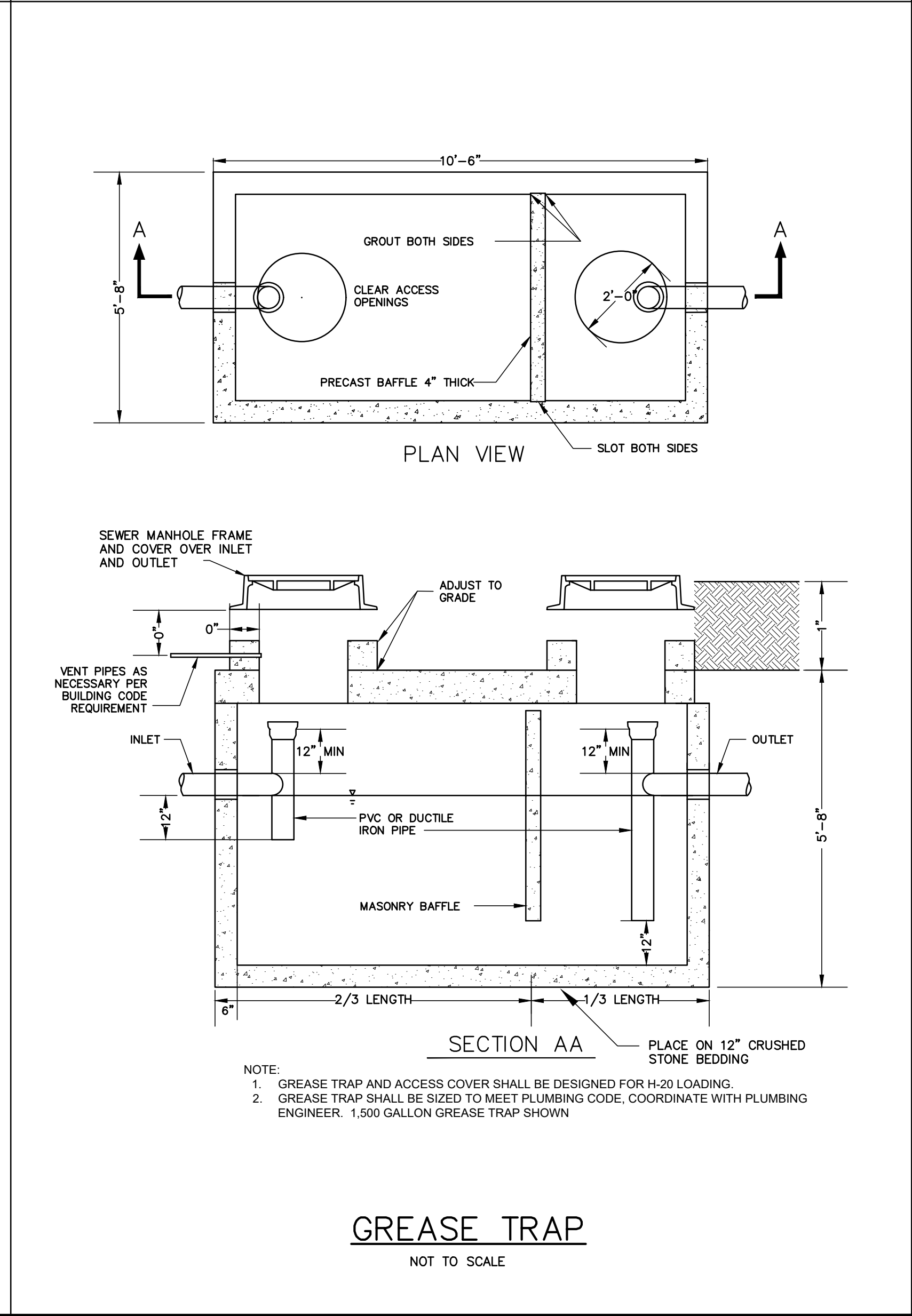
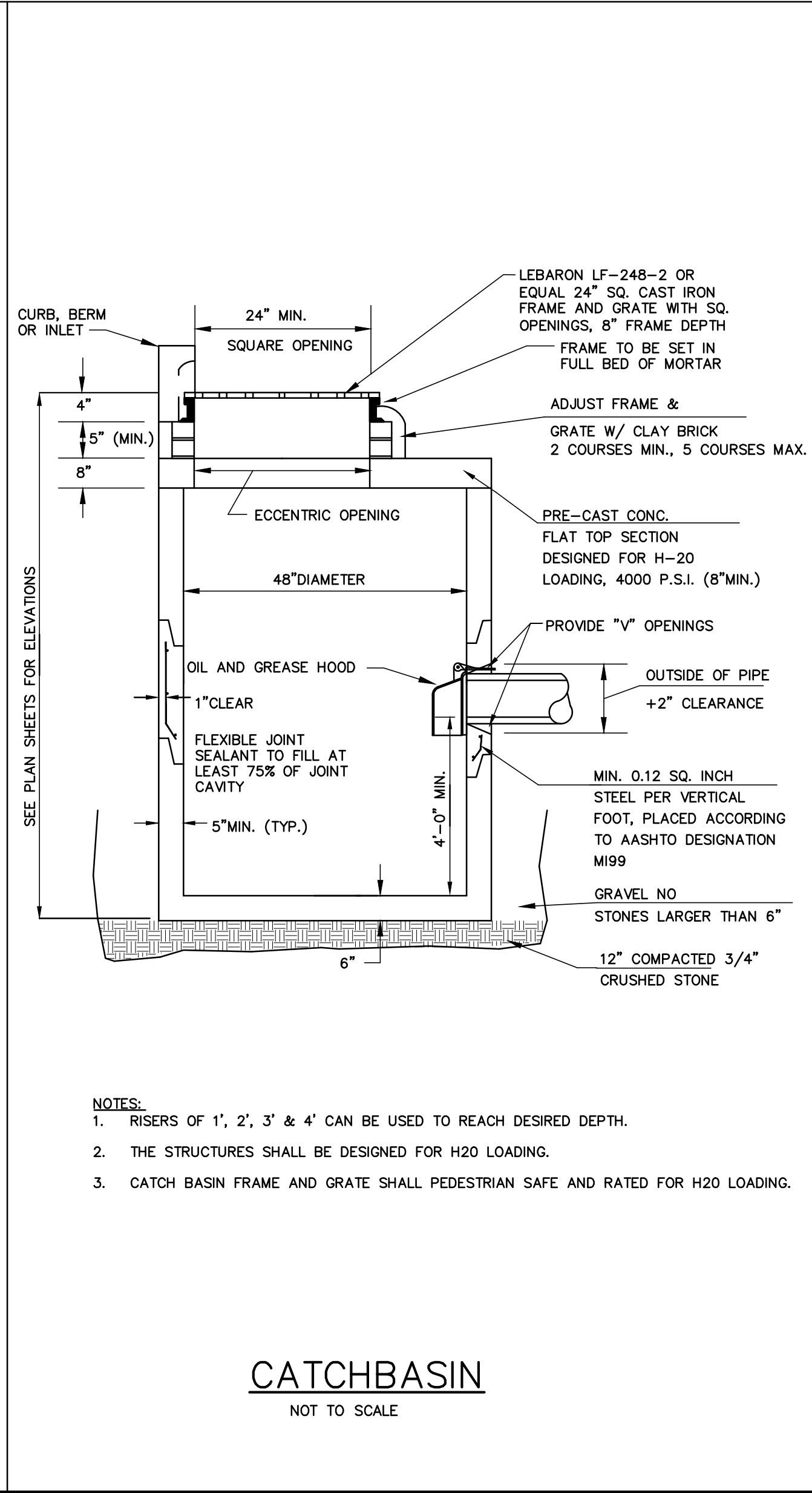
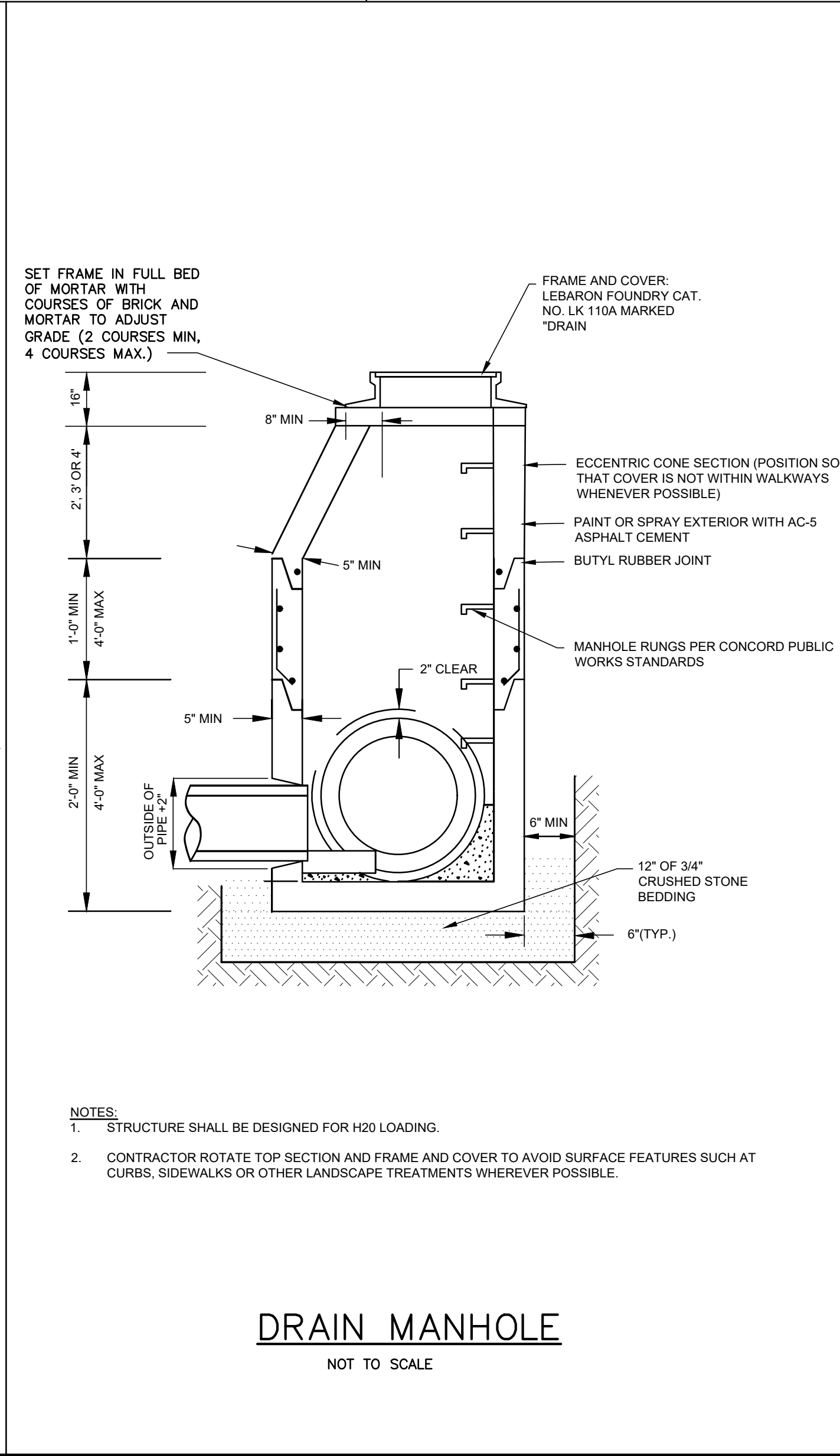
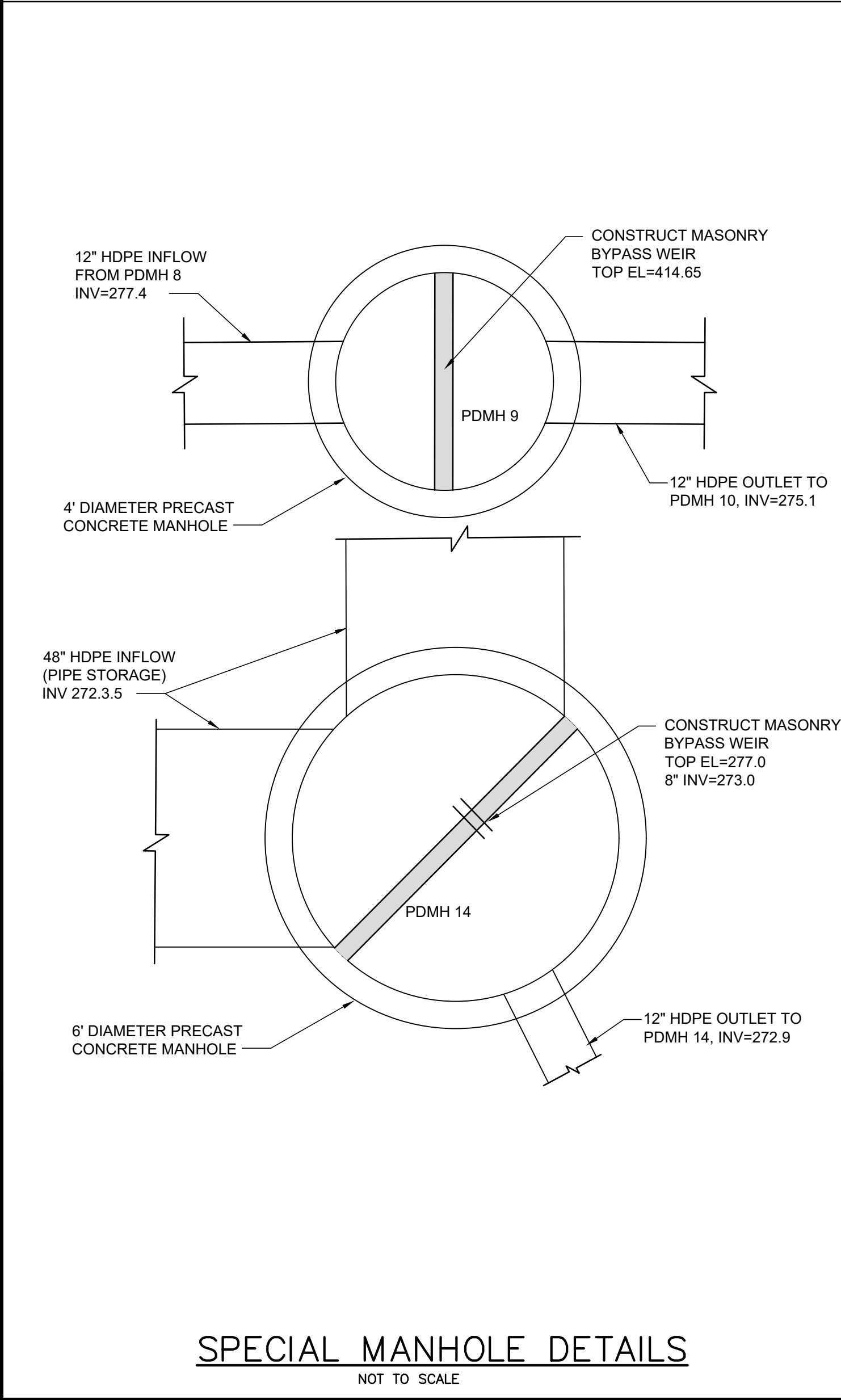
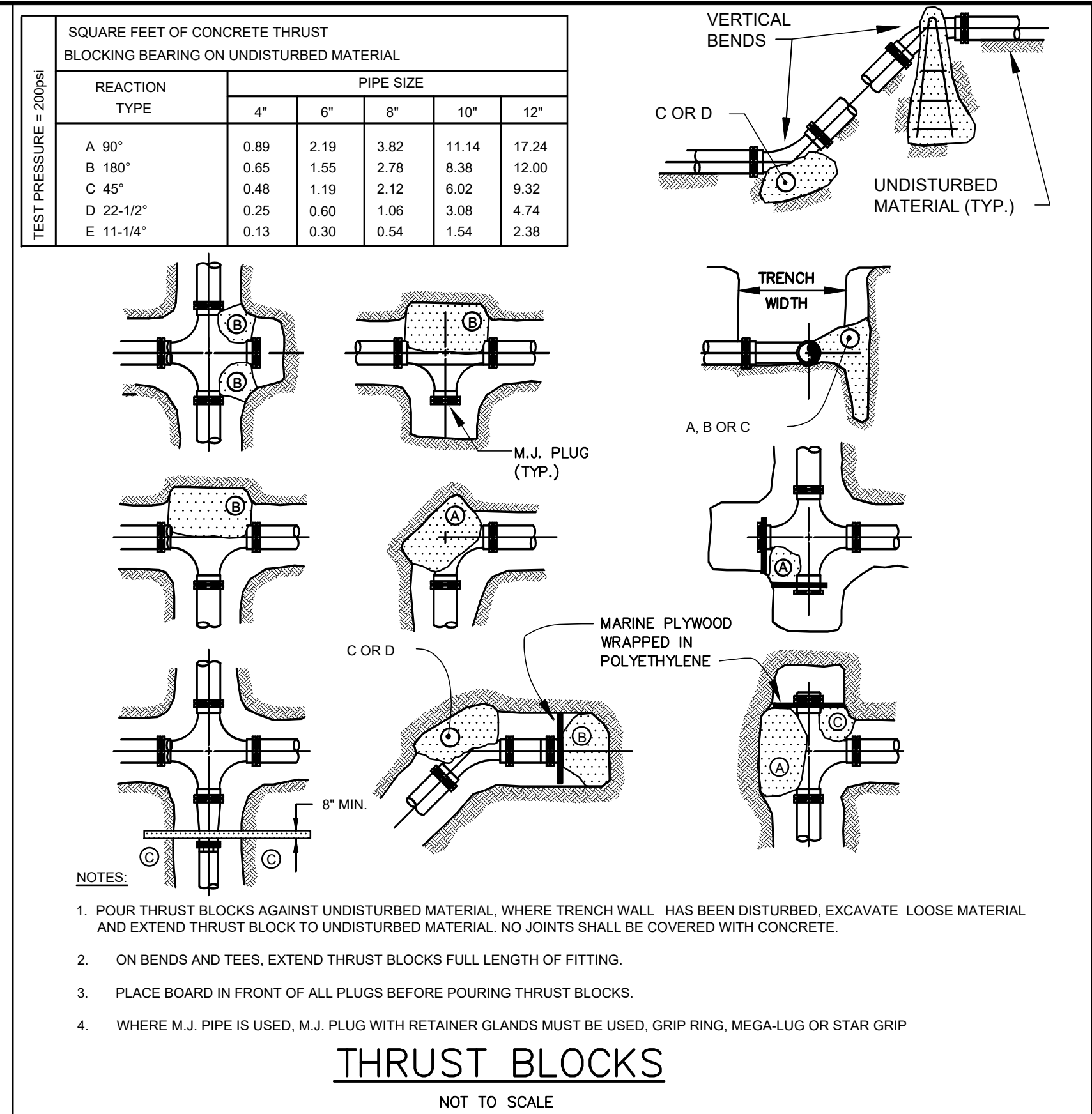
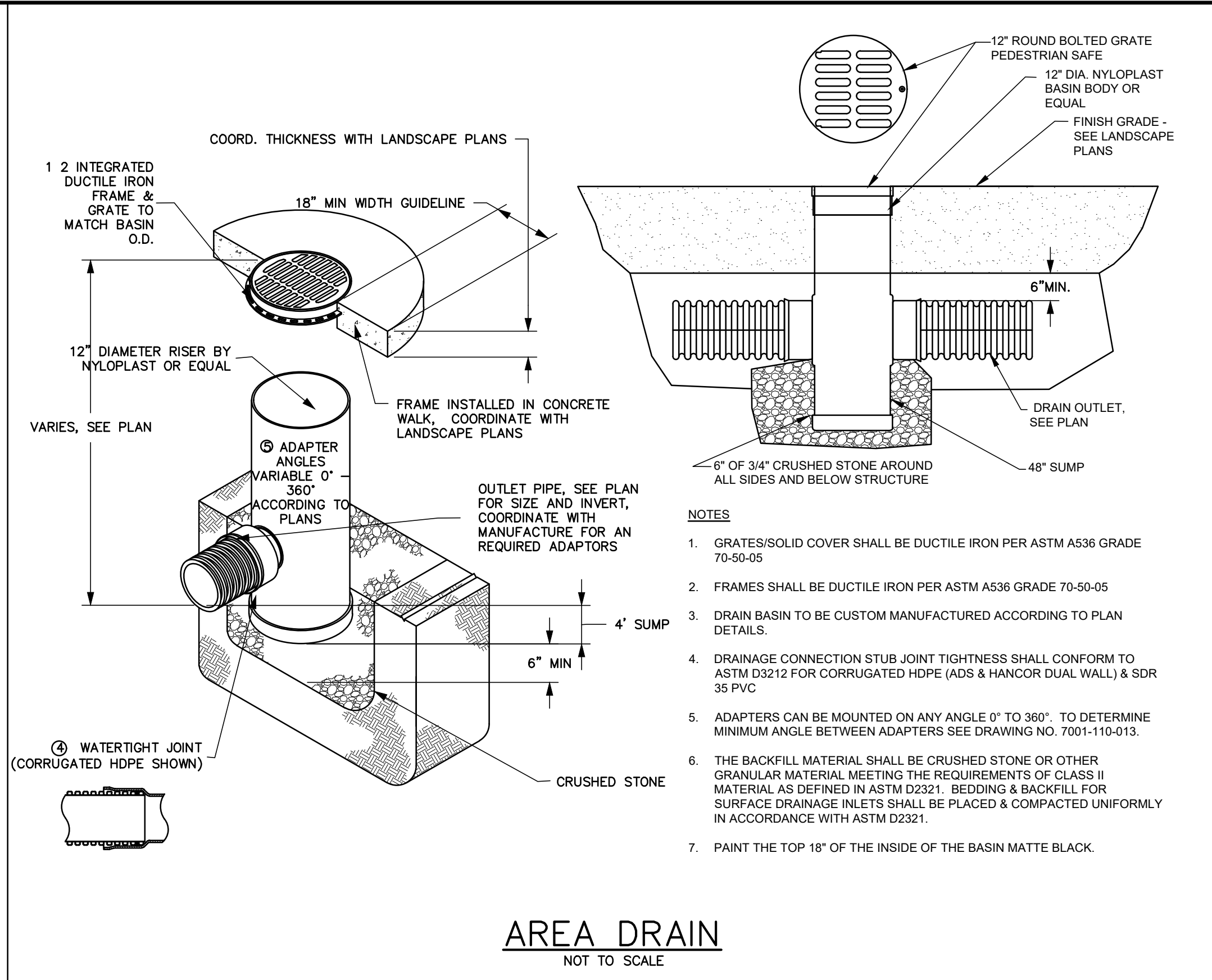
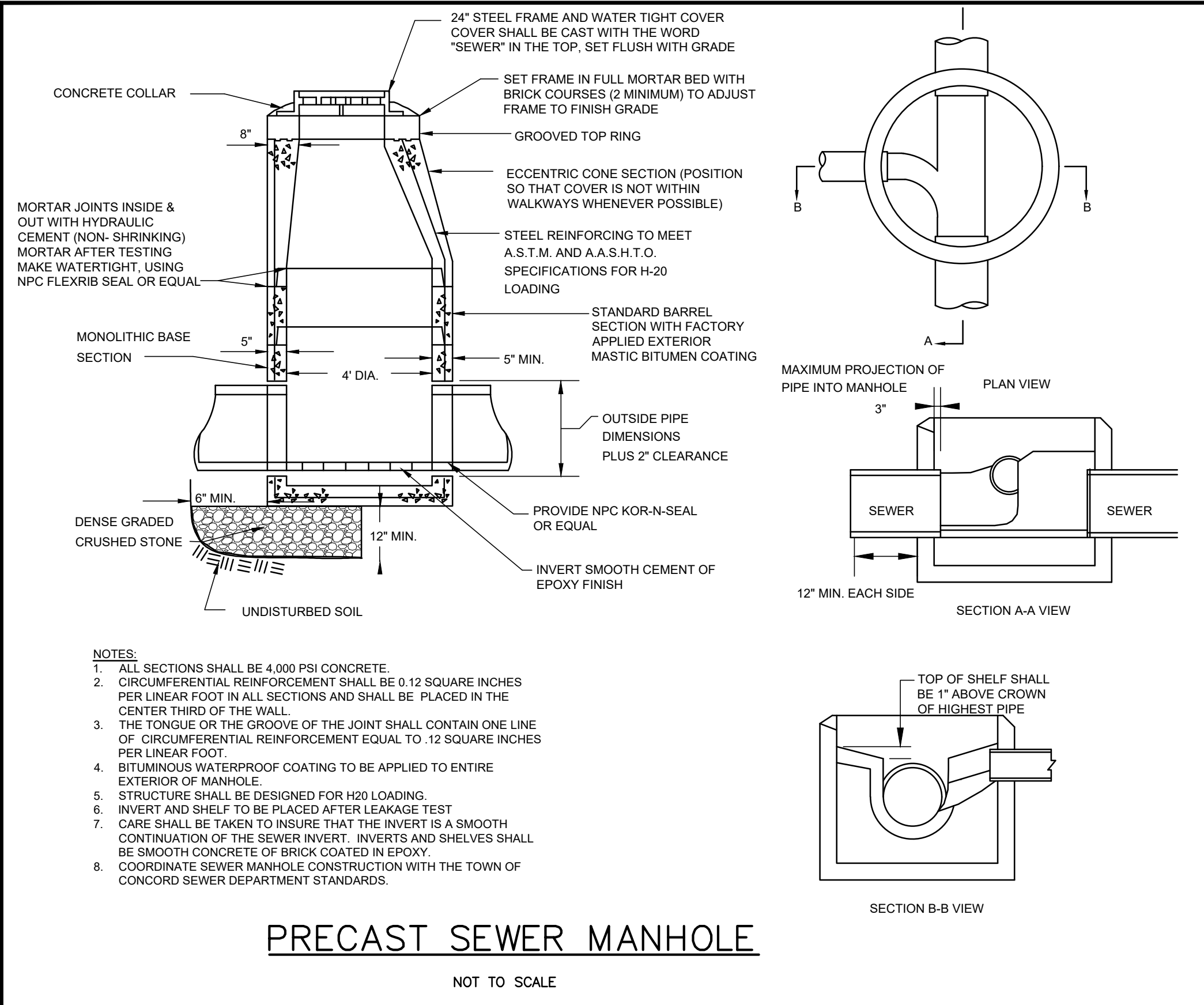
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SITE DETAILS PLAN

No.	Revision/Issue	Date

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Drawn by: SPM	Approved by: SPM
Project: 18017	Date: September 7, 2022
Sheet: C-501	





Site: **NORTHERN BANK TOWN COMMON**
265-289 GREAT ROAD
LITTLETON, MASSACHUSETTS

Prepared for: **NORTHERN BANK AND TRUST COMPANY**
275 MISHAWUM ROAD
WOBURN, MASSACHUSETTS

SEAN P. MALONE
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No. 46204
MASSACHUSETTS

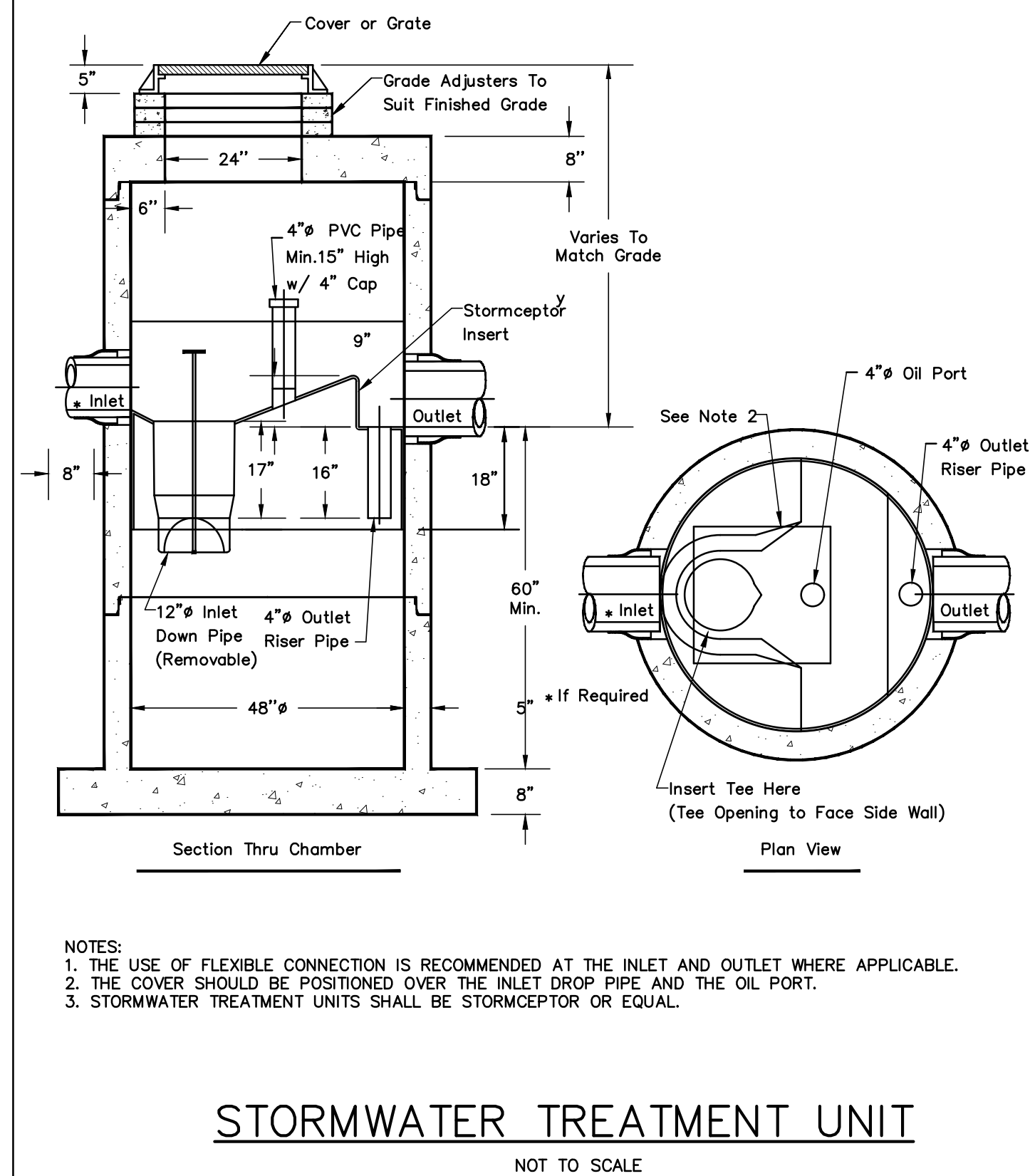
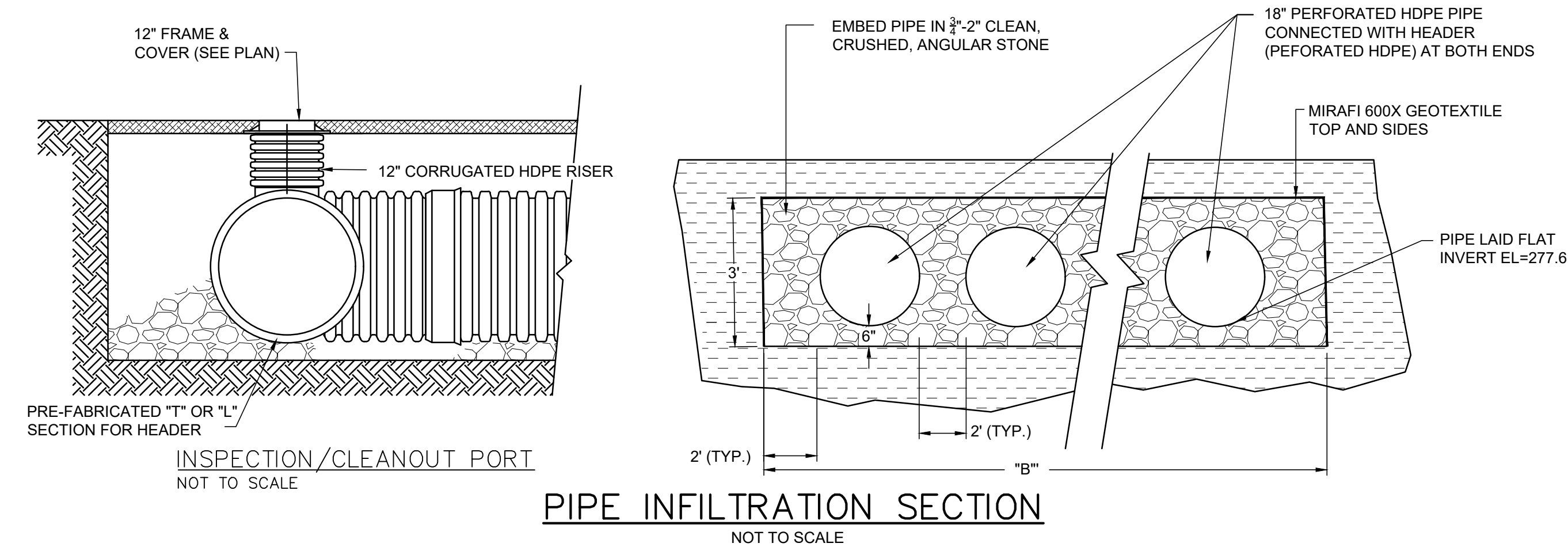
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SITE DETAILS PLAN

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Project: 18017		Date: September 7, 2022	

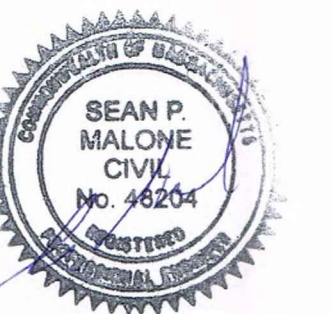
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prepared for:

**NORTHERN BANK AND
TRUST COMPANY**

275 MISHAWUM ROAD
WOBURN, MASSACHUSETTS



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SITE DETAILS PLAN

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Project:	18017	Date:
Sheet:		September 7, 2022

C-504

LITTLETON VILLAGE OVERLAY DISTRICT DESIGN STANDARDS			
LANDSCAPING AND PUBLIC REALM	REQUIRED	PROVIDE	NOTES
A MINIMUM OF 10% OF THE SITE SHALL REMAIN OPEN SPACE THAT IS DESIGNED AND INTENDED FOR PUBLIC USE, SUCH AS LANDSCAPED SITTING AREAS	AS NOTED	AS NOTED	
DEVELOPMENTS SHALL ENHANCE THE PEDESTRIAN ENVIRONMENT BY USE OF AMENITIES SUCH AS WIDE SIDEWALKS/PATHWAYS, OUTDOOR SEATING, PATIOS OR COURTYARDS, AND/OR APPROPRIATE LANDSCAPING	AS NOTED	AS NOTED	
ALL DEVELOPMENTS SHALL BE LANDSCAPED WITH APPROPRIATE LOW-WATER NATIVE VEGETATION	AS NOTED	AS NOTED	
SERVICE AND LOADING AREAS AND MECHANICAL EQUIPMENT AND UTILITIES SHALL BE UNOBTUSIVE OR SUFFICIENTLY SCREENED	AS NOTED	AS NOTED	
BICYCLE PARKING SHALL BE AT LEAST 50% SHELTERED FROM THE ELEMENTS. AT LEAST TWO BICYCLE PARKING OR STORAGE SPACES FOR EACH COMMERCIAL USE WITHIN THE SITE.	AS NOTED	AS NOTED	

LEGEND

DECIDUOUS TREE	
EVERGREEN TREE	
FLOWERING TREE	
SHRUBS	
MULCH BED	
PERENNIALS/GROUNDCOVER	
WILDFLOWER SEED MIX	
EROSION CONTROL SEED MIX	

- NOTES:**
- EXISTING CONDITIONS SHOWN HEREON ARE TAKEN FROM A PLAN ENTITLED "EXISTING CONDITIONS, 25 ROBINSON ROAD, 265, 277, 287 & 289 GREAT ROAD", DATED JANUARY 8, 2019, PREPARED BY ALLEN & MAJOR ASSOCIATES, INC.
 - THE PURPOSE OF THIS DRAWING IS TO SHOW THE OVERALL LANDSCAPE FEATURES FOR A COMMERCIAL DEVELOPMENT. SEE SHEETS L-102 AND L-103 FOR DETAILED LANDSCAPE PLANS AND SHEETS L-501 AND L-502 FOR LANDSCAPE DETAILS.
 - THE CONTRACTOR SHALL CONTACT DIGSAFE AT 811 PRIOR TO ANY EXCAVATION ACTIVITIES.
 - THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF ANY STRUCTURAL RETAINING WALLS (WALLS WITH AN EXPOSED FACE OF GREATER THAN 4'). DESIGN SHALL BE BY A REGISTERED STRUCTURAL ENGINEER AND SHALL BE STAMPED ACCORDINGLY.
 - THE INFORMATION SHOWN ON THIS PLAN IS THE SOLE PROPERTY OF ALLEN & MAJOR ASSOCIATES, INC. ITS INTENDED USE IS TO PROVIDE INFORMATION. ANY ALTERATION, MISUSE, OR RECALCULATION OF INFORMATION OR DATA WITHOUT THE EXPRESSED, WRITTEN CONSENT OF ALLEN & MAJOR ASSOCIATES, INC. IS STRICTLY PROHIBITED.

REGISTERED LANDSCAPE ARCHITECT FOR
ALLEN & MAJOR ASSOCIATES, INC.

REV	DATE	DESCRIPTION

APPLICANT/OWNER:
NBTC GREAT ROAD, LLC
275 MISHAWUM ROAD, 4TH FLOOR
WOBURN, MA 01801

PROJECT:
**25 ROBINSON ROAD,
265, 277, 287 & 289
GREAT ROAD
LITTLETON, MA 01460**

PROJECT NO.	2371-04	DATE:	09-07-2022
SCALE:	1" = 40'	DWG. NAME:	C2371-04.dwg
DESIGNED BY:	BCD	CHECKED BY:	BDJ

PREPARED BY:

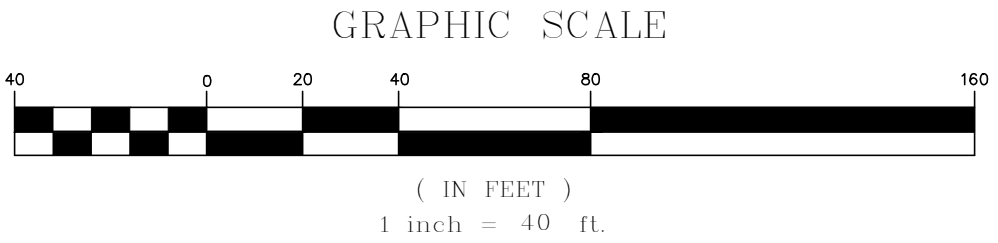
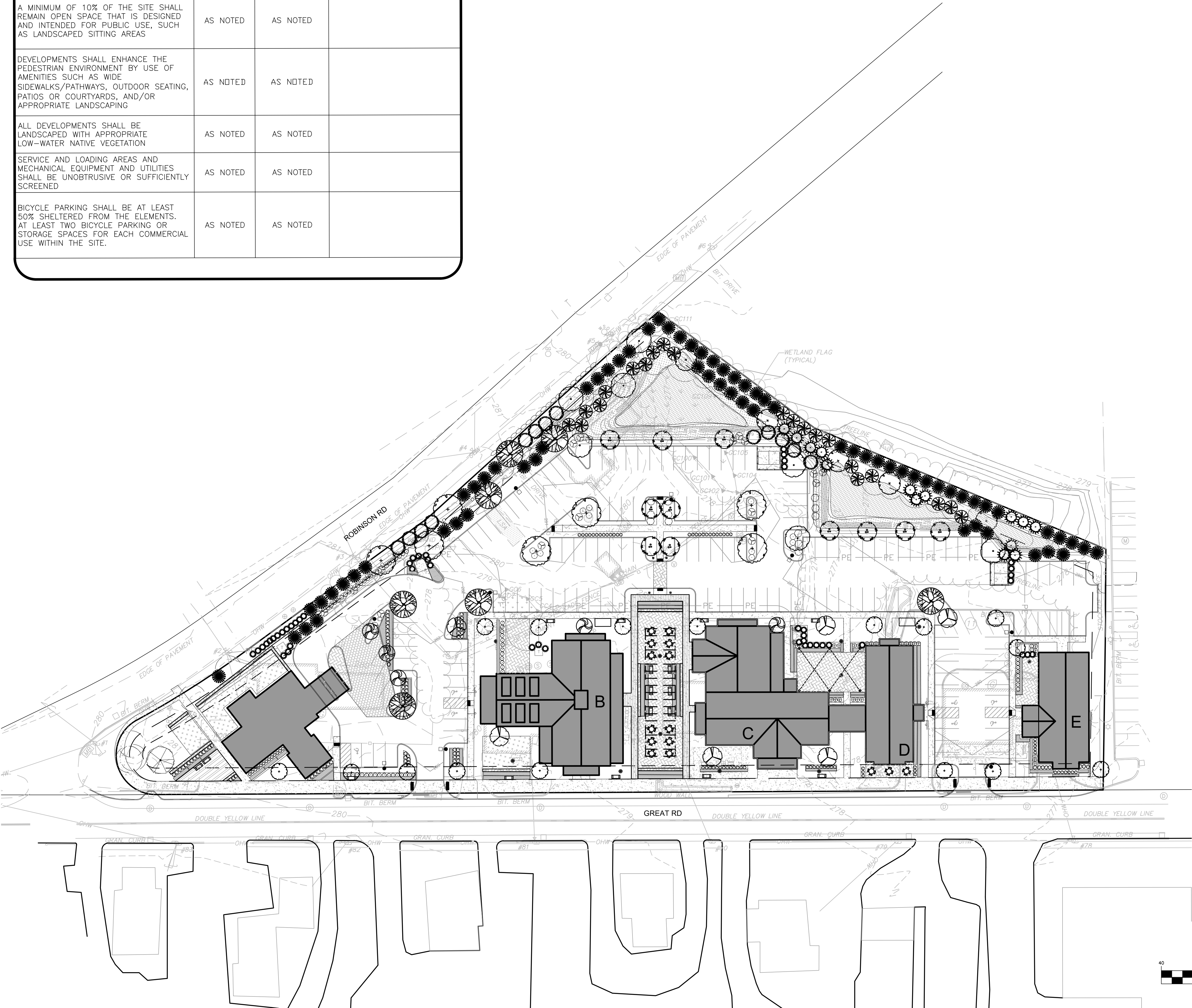
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DRAWING TITLE:	SHEET No.
OVERALL LANDSCAPE PLAN	L-101

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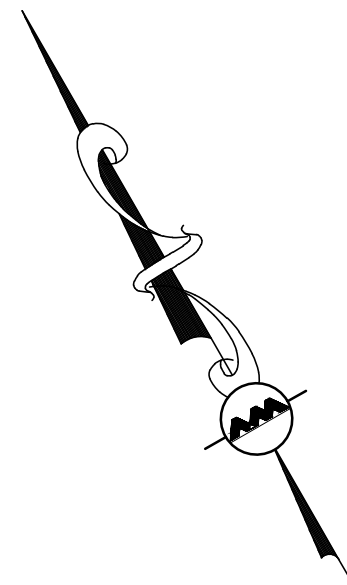
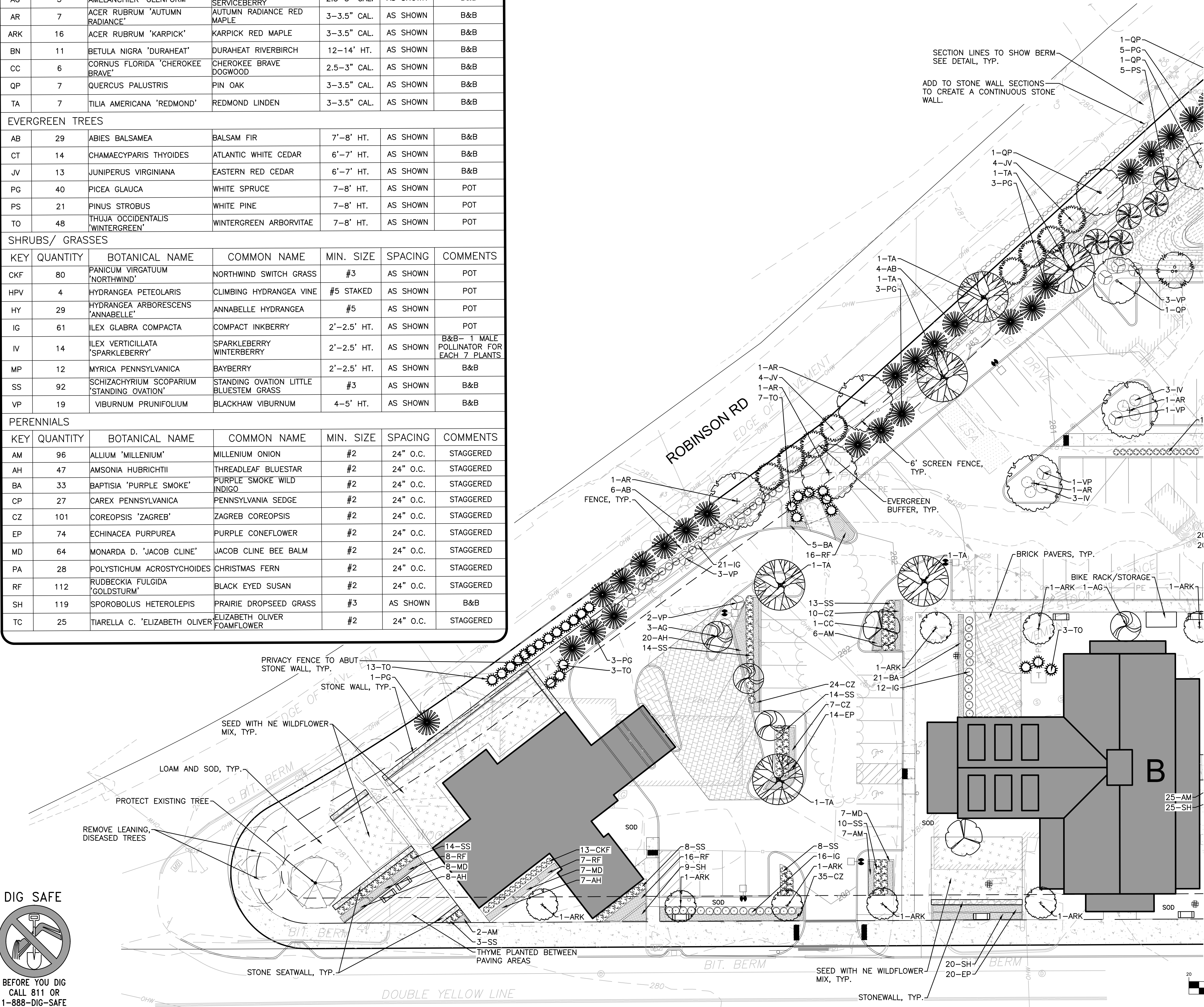
PLANTING PALETTE

KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	MIN. SIZE	SPACING	COMMENTS
DECIDUOUS SHADE TREES						
AG	5	AMELANCHIER 'GLENFORM'	RAINBOW PILLAR SERVICEBERRY	2.5-3" CAL.	AS SHOWN	B&B
AR	7	ACER RUBRUM 'AUTUMN RADIANCE'	AUTUMN RADIANCE RED MAPLE	3-3.5" CAL.	AS SHOWN	B&B
ARK	16	ACER RUBRUM 'KARPICK'	KARPICK RED MAPLE	3-3.5" CAL.	AS SHOWN	B&B
BN	11	BETULA NIGRA 'DURAHEAT'	DURAHEAT RIVERBIRCH	12-14' HT.	AS SHOWN	B&B
CC	6	CORNUS FLORIDA 'CHEROKEE BRAVE'	CHEROKEE BRAVE DOGWOOD	2.5-3" CAL.	AS SHOWN	B&B
QP	7	QUERCUS PALUSTRIS	PIN OAK	3-3.5" CAL.	AS SHOWN	B&B
TA	7	TILIA AMERICANA 'REDMOND'	REDMOND LINDEN	3-3.5" CAL.	AS SHOWN	B&B

EVERGREEN TREES						
AB	29	ABIES BALSAMEA	BALSAM FIR	7'-8' HT.	AS SHOWN	B&B
CT	14	CHAMAECYPARIS THYOIDES	ATLANTIC WHITE CEDAR	6'-7' HT.	AS SHOWN	B&B
JV	13	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	6'-7' HT.	AS SHOWN	B&B
PG	40	PICEA GLAUCA	WHITE SPRUCE	7-8' HT.	AS SHOWN	POT
PS	21	PINUS STROBUS	WHITE PINE	7-8' HT.	AS SHOWN	POT
TO	48	THUJA OCCIDENTALIS 'WINTERGREEN'	WINTERGREEN ARBORVITAE	7-8' HT.	AS SHOWN	POT

SHRUBS/ GRASSES							
KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	MIN. SIZE	SPACING	COMMENTS	
CKF	80	PANICUM VIRGATUUM "NORTHWIND"	NORTHWIND SWITCH GRASS	#3	AS SHOWN	POT	
HPV	4	HYDRANGEA PETEOLARIS	CLIMBING HYDRANGEA VINE	#5 STAKED	AS SHOWN	POT	
HY	29	HYDRANGEA ARBORESCENS "ANNABELLE"	ANNABELLE HYDRANGEA	#5	AS SHOWN	POT	
IG	61	ILEX GLABRA COMPACTA	COMPACT INKBERRY	2'-2.5' HT.	AS SHOWN	POT	
IV	14	ILEX VERTICILLATA "SPARKLEBERRY"	SPARKLEBERRY WINTERBERRY	2'-2.5' HT.	AS SHOWN	B&B - 1 MALE POLLINATOR FOR EACH 7 PLANTS	
MP	12	MYRICA PENNSYLVANICA	BAYBERRY	2'-2.5' HT.	AS SHOWN	B&B	
SS	92	SCHIZACHYRIUM SCOPARIUM "STANDING OVATION"	STANDING OVATION LITTLE BLUESTEM GRASS	#3	AS SHOWN	B&B	
VP	19	VIBURNUM PRUNIFOLIUM	BLACKHAW VIBURNUM	4-5' HT.	AS SHOWN	B&B	

PERENNIALS						
KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	MIN. SIZE	SPACING	COMMENTS
AM	96	ALLIUM 'MILLENUM'	MILLENUM ONION	#2	24" O.C.	STAGGERED
AH	47	AMSONIA HUBRICHTII	THREADEAF BLUESTAR	#2	24" O.C.	STAGGERED
BA	33	BAPTISIA 'PURPLE SMOKE'	PURPLE SMOKE WILD INDIGO	#2	24" O.C.	STAGGERED
CP	27	CAREX PENNSYLVANICA	PENNSYLVANIA SEDGE	#2	24" O.C.	STAGGERED
CZ	101	COREOPSIS 'ZAGREB'	ZAGREB COREOPSIS	#2	24" O.C.	STAGGERED
EP	74	ECHINACEA PURPUREA	PURPLE CONEFLOWER	#2	24" O.C.	STAGGERED
MD	64	MONARDA D. 'JACOB CLINE'	JACOB CLINE BEE BALM	#2	24" O.C.	STAGGERED
PA	28	POLYSTICHUM ACROSTYCHOIDES	CHRISTMAS FERN	#2	24" O.C.	STAGGERED
RF	112	RUDBECKIA FULGIDA 'GOLDSTURM'	BLACK EYED SUSAN	#2	24" O.C.	STAGGERED
SH	119	SPOROBOLUS HETEROLEPIS	PRAIRIE DROPSEED GRASS	#3	AS SHOWN	B&B
TC	25	TIARELLA C. 'ELIZABETH OLIVER'	ELIZABETH OLIVER FOAMFLOWER	#2	24" O.C.	STAGGERED

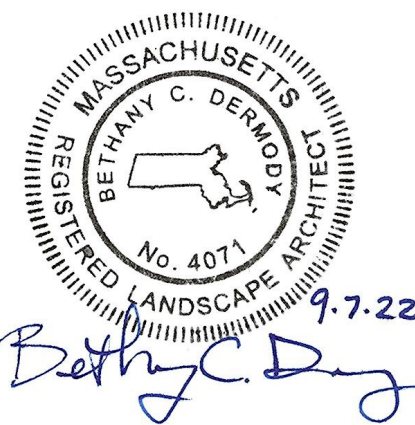


LEGEND

- | | |
|--------------------------|--|
| DECIDUOUS TREE | |
| EVERGREEN TREE | |
| FLOWERING TREE | |
| SHRUBS | |
| MULCH BED | |
| PERENNIALS/GROUNDCOVER | |
| WILDFLOWER SEED MIX | |
| EROSION CONTROL SEED MIX | |

NOTES:

1. EXISTING CONDITIONS SHOWN HEREON ARE TAKEN FROM A PLAN ENTITLED "EXISTING CONDITIONS, 25 ROBINSON ROAD, 265, 277, 287 & 289 GREAT ROAD", DATED JANUARY 8, 2019, PREPARED BY ALLEN & MAJOR ASSOCIATES, INC.
2. THE CONTRACTOR SHALL CONTACT DIGSAFE AT 811 PRIOR TO ANY EXCAVATION ACTIVITIES.
3. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF ANY STRUCTURAL RETAINING WALLS (WALLS WITH AN EXPOSED FACE OF GREATER THAN 4"). DESIGN SHALL BE BY A REGISTERED STRUCTURAL ENGINEER AND SHALL BE STAMPED ACCORDINGLY.
4. THE INFORMATION SHOWN ON THIS PLAN IS THE SOLE PROPERTY OF ALLEN & MAJOR ASSOCIATES, INC. ITS INTENDED USE IS TO PROVIDE INFORMATION; ANY ALTERATION, MISUSE, OR RECALCULATION OF INFORMATION OR DATA WITHOUT THE EXPRESSED, WRITTEN CONSENT OF ALLEN & MAJOR ASSOCIATES, INC. IS STRICTLY PROHIBITED.



REGISTERED LANDSCAPE ARCHITECT FOR
ALLEN & MAJOR ASSOCIATES, INC.

REV	DATE	DESCRIPTION

APPLICANT\OWNER:

NBTC GREAT ROAD, LLC
275 MISHAWUM ROAD, 4TH FLOOR
WOBBURN, MA 01801

PROJECT:

25 ROBINSON ROAD,
265, 277, 287 & 289
GREAT ROAD
LITTLETON, MA 01460

PROJECT NO.	2371-04	DATE:	09-07-2022
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SCALE: 1" = 20' **DWG. NAME:** C-2371-04.dwg

DESIGNED BY: BCD | CHECKED BY: BDJ

PREPARED BY:



ALLEN & MAJOR
ASSOCIATES, INC.

civil engineering ♦ land surveying
environmental consulting ♦ landscape architecture
www.allenmajor.com
100 COMMERCE WAY, SUITE 5
WOBURN MA 01801
TEL: (781) 935-6889
FAX: (781) 935-2896

WOBURN, MA ♦ LAKEVILLE, MA ♦ MANCHESTER, NH

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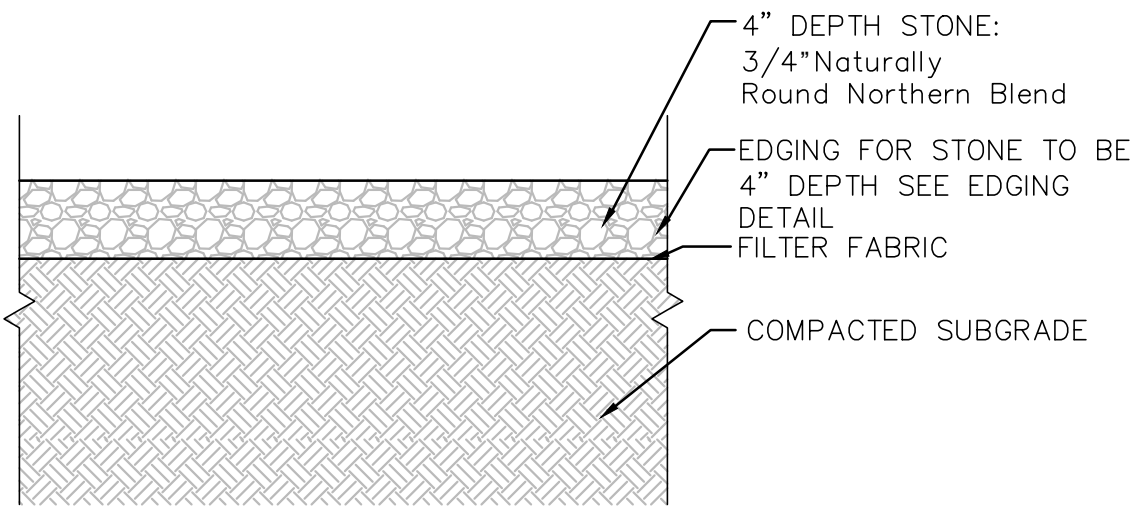
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LANDSCAPE PLAN

SHEET No.

I-102

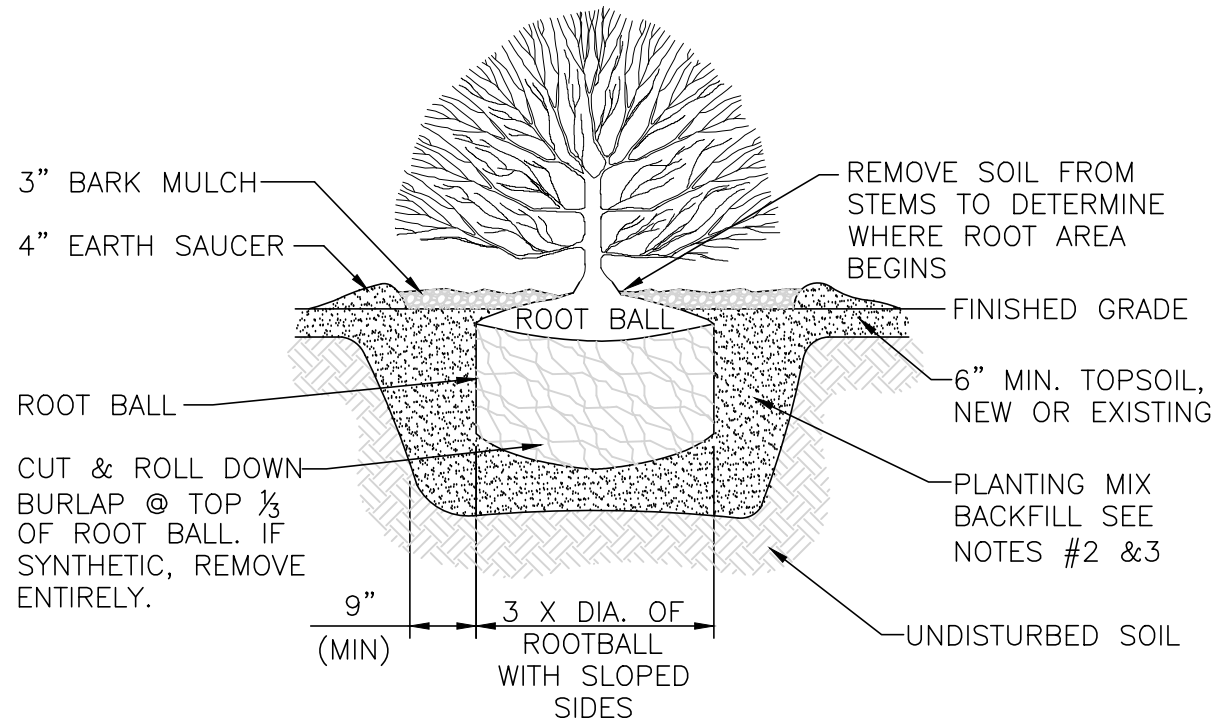
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LANDSCAPE STONE AROUND BUILDING DETAIL
NOT TO SCALE

1

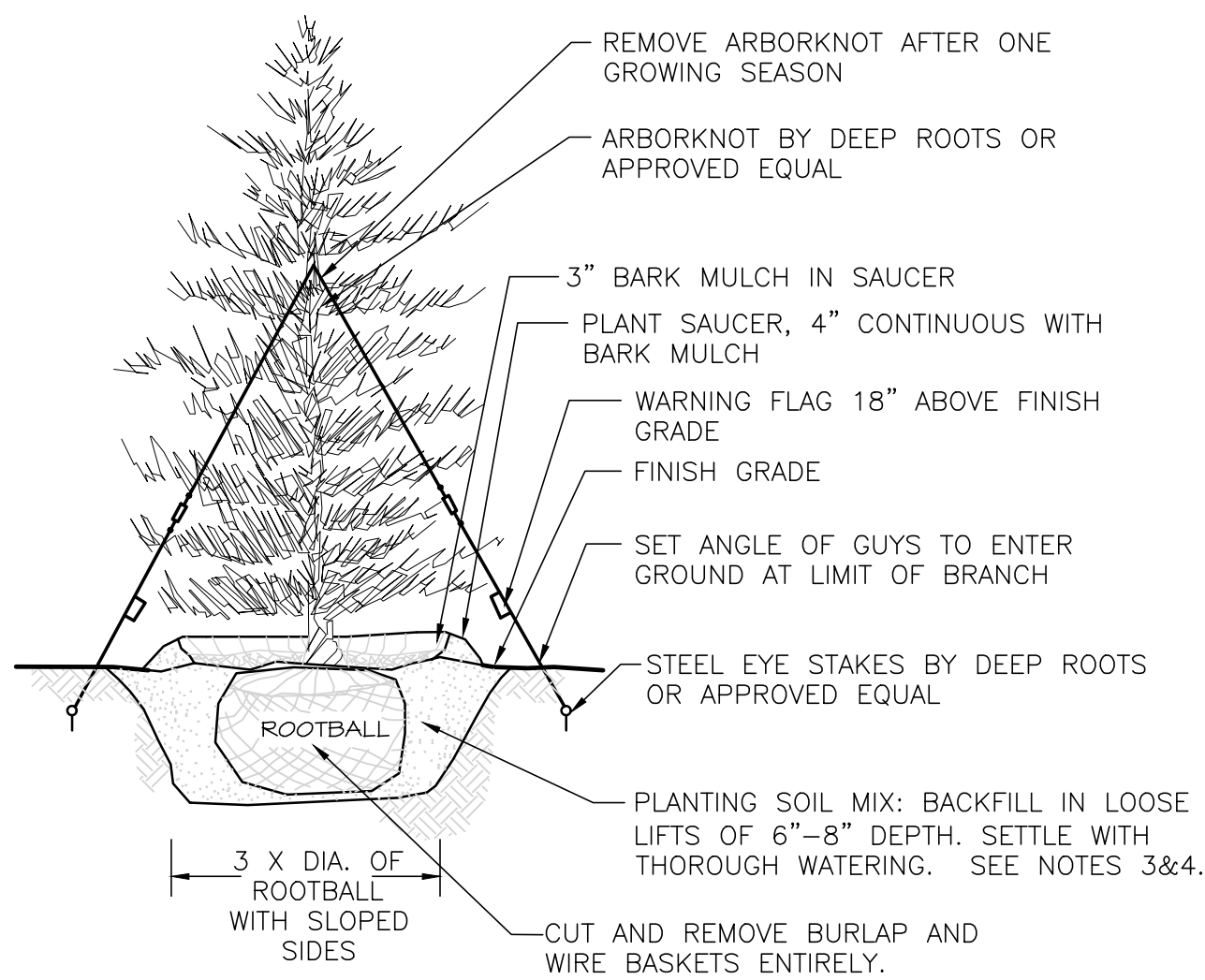
- NOTES:
1. ALL SHRUBS SHALL HAVE THE SAME RELATIONSHIP TO FINISH GRADE AFTER PLANTING AS THEY HAD AT THE ORIGINAL NURSERY SETTING. SET SHRUB 1"-2" ABOVE FINISH GRADE.
 2. BACKFILL WITH PLANTING MIX. PLANT MIX TO BE: 50% NATIVE TOPSOIL, 20% COMPOST (LEAVES & ORGANIC MATERIAL, NO ASH) 20% PEAT MOSS, 10% SAND.
 3. ADD MYCORRHIZA SOIL ADDITIVES AND SLOW RELEASE FERTILIZER WHEN PLANT HOLES ARE 50% FILLED AND WATER THOROUGHLY AT COMPLETION.
 4. SHRUB BEDS TO HAVE 24" MIN. OF CONTINUOUS PLANTING SOIL.



SHRUB PLANTING DETAIL

2

NOT TO SCALE



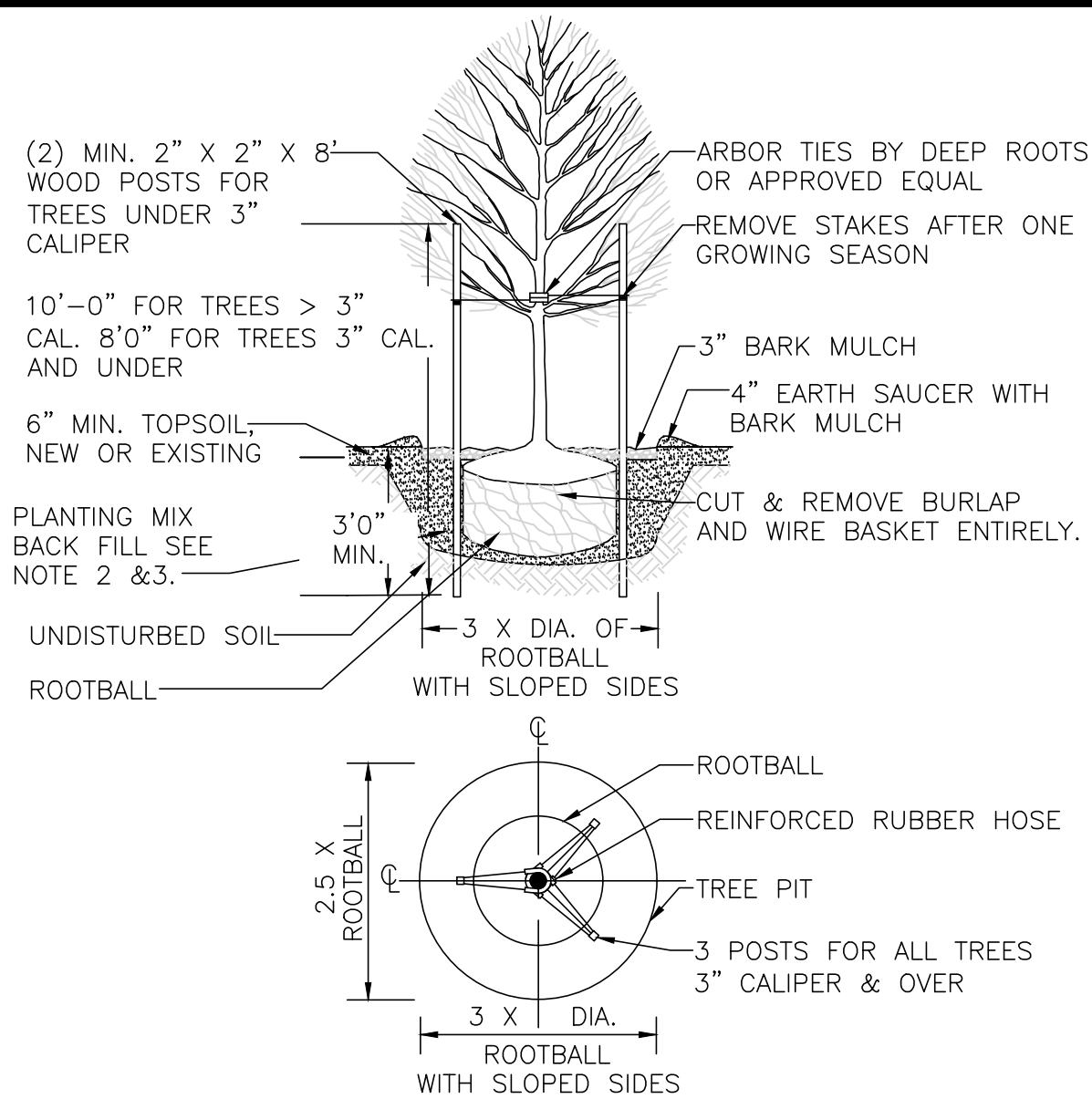
EVERGREEN TREE DETAIL

3

NOT TO SCALE

NOTES:

1. TREES SHALL BEAR SAME RELATIONSHIP TO FINISH GRADE AS IT BORE TO NURSERY OR FIELD GRADE. ROOT FLARE SHALL BE 2" ABOVE FINISH GRADE. REMOVE SOIL FROM TRUNK FLARE OF TREE TO DETERMINE ACTUAL TOP OF ROOTBALL AREA.
2. INSTALL THREE GUYS PER TREE; EQUALLY SPACED AROUND BALL.
3. ATTACH GUYS AT 2/3 HEIGHT OF TREE.
4. BACKFILL WITH PLANTING MIX. PLANT MIX TO BE: 50% NATIVE TOPSOIL, 20% COMPOST (LEAVES & ORGANIC MATERIAL, NO ASH) 20% PEAT MOSS, 10% SAND.
5. ADD MYCORRHIZA SOIL ADDITIVES AND SLOW RELEASE FERTILIZER WHEN PLANT HOLES ARE 50% FILLED AND WATER THOROUGHLY AT COMPLETION.



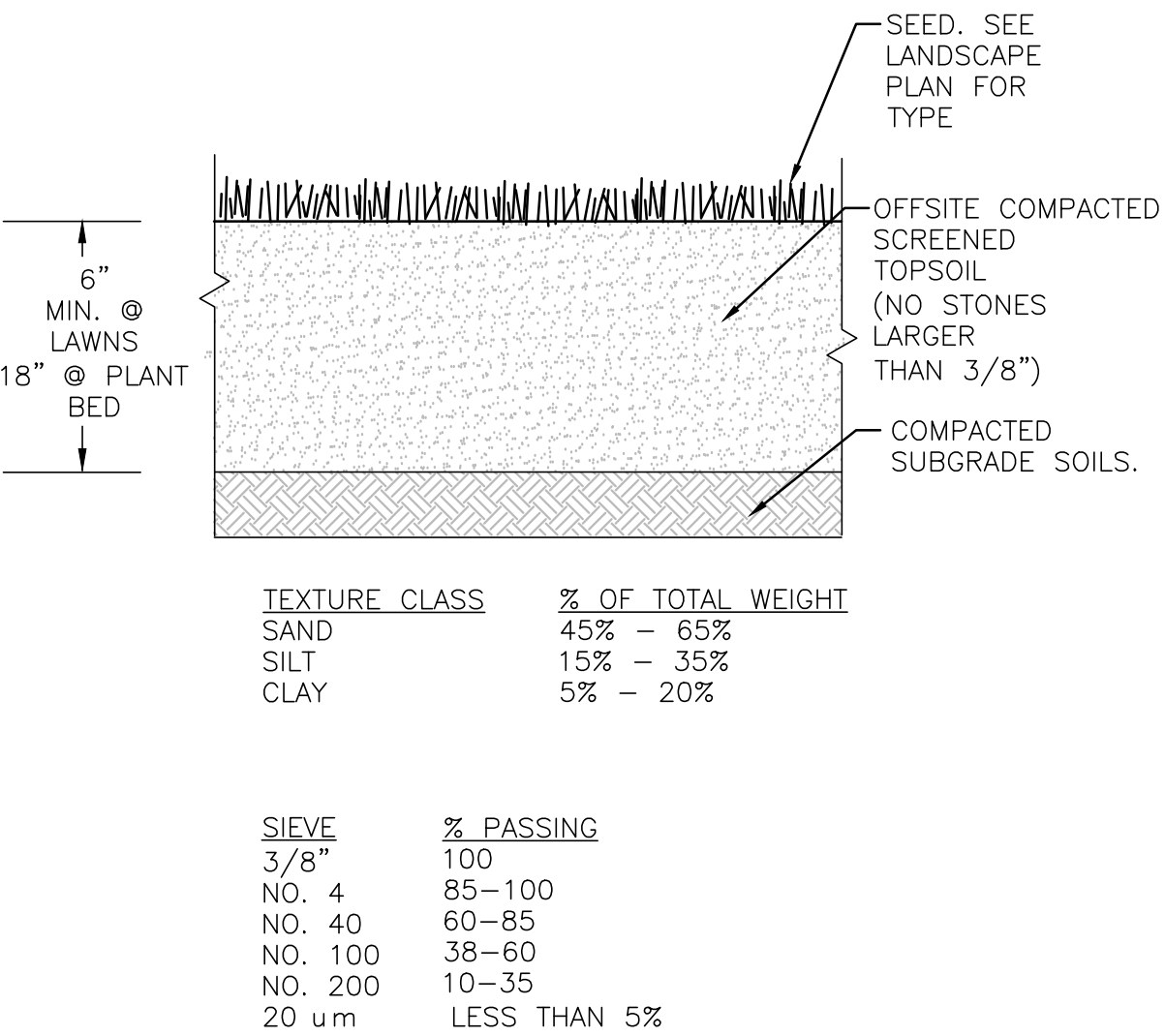
DECIDUOUS TREE DETAIL

4

NOT TO SCALE

NOTES:

1. ALL TREES SHALL HAVE THE SAME RELATIONSHIP TO FINISH GRADE AFTER PLANTING AS THEY HAD AT THE ORIGINAL NURSERY SETTING. ROOT FLARE SHALL BE 2" ABOVE FINISH GRADE. REMOVE SOIL FROM TRUNK FLARE OF TREE TO DETERMINE ACTUAL ROOTBALL AREA.
2. BACKFILL WITH PLANTING MIX. PLANT MIX TO BE: 50% NATIVE TOPSOIL, 20% COMPOST (LEAVES & ORGANIC MATERIAL, NO ASH) 20% PEAT MOSS, 10% SAND.
3. ADD MYCORRHIZA SOIL ADDITIVES AND SLOW RELEASE FERTILIZER WHEN PLANT HOLES ARE 50% FILLED AND WATER THOROUGHLY AT COMPLETION.



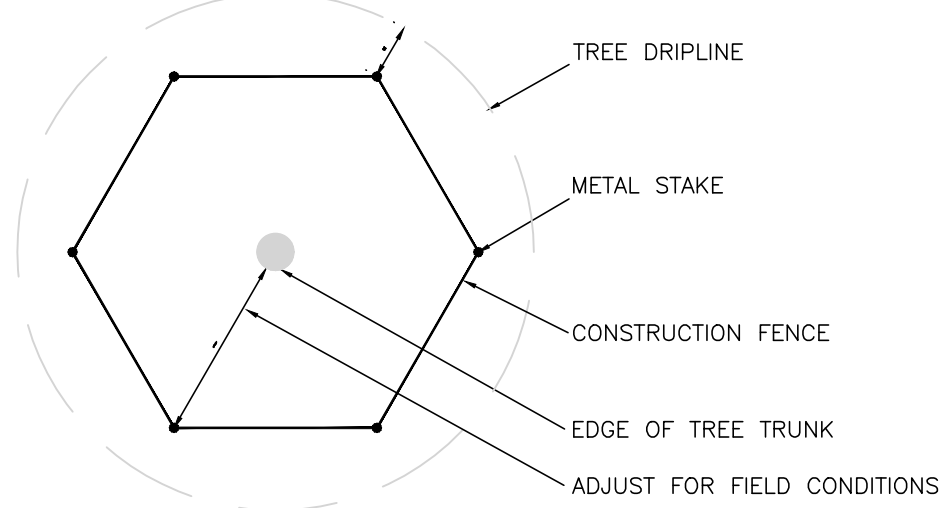
TOPSOIL FOR LAWN, TREES, SHRUBS, & PERENNIALS

5

NOT TO SCALE

NOTES:

1. TOP OF LOAM (TOPSOIL) IS FINISH GRADE.
2. ALL TOPSOIL (BOTH ONSITE AND OFFSITE SOURCES) SHALL BE COMPOSED OF A NATURAL, FERTILE, FRIABLE SOIL TYPICAL OF CULTIVATED TOPSOILS OF THE LOCALITY. OFFSITE SOIL SHALL BE SUITABLE FOR THE GERMINATION OF SEEDS AND SUPPORT OF VEGETATIVE GROWTH, WITH ADDITIVES, IF REQUIRED, TO ACHIEVE PARTICLE DISTRIBUTION AND ORGANIC CONTENT BELOW. TOPSOIL SHALL BE TAKEN FROM A WELL-DRAINED, ARIABLE SITE, FREE OF SUBSOIL, LARGE STONES, EARTH CLODS, STICKS, STUMPS, CLAY LUMPS, ROOTS, OTHER OBJECTIONABLE, EXTRANEOUS MATTER OR DEBRIS NOR CONTAIN TOXIC SUBSTANCES.
3. THE CONTRACTOR SHALL PROVIDE THE OWNER / LANDSCAPE ARCHITECT WITH TOPSOIL TEST RESULTS (RECOMMEND UMASS AMHERST SOIL TESTING LAB) FOR APPROVAL PRIOR TO OBTAINING AND PLACING THE SOIL. IF ANY TOPSOIL IS PURCHASED OR PLACED PRIOR TO APPROVAL BY OWNER / LANDSCAPE ARCHITECT, IT IS AT CONTRACTORS RISK, AND IT CAN BE REMOVED AT NO ADDITIONAL COST TO THE OWNER. IF THE PLANTING SOIL (BOTH ONSITE AND OFFSITE SOURCES) DOES NOT FALL WITHIN THE REQUIRED SIEVE ANALYSIS, TEXTURAL CLASS, ORGANIC CONTENT, OR PH RANGE, IT SHALL BE ADJUSTED TO MEET THE SPECIFICATIONS THROUGH THE ADDITION OF SAND, COMPOST, LIMESTONE, OR ALUMINUM SULFATE TO BRING IT WITHIN THE SPECIFIED LIMITS AT NO ADDITIONAL COST TO THE OWNER.
4. TOPSOIL SHALL HAVE A PH VALUE BETWEEN 5.5 AND 6.5. TOPSOIL SHALL CONTAIN 8% ORGANIC MATTER OF TOTAL DRY WEIGHT AND SHALL CONFORM TO THE FOLLOWING GRADATION AND TEXTURE CLASS ABOVE.



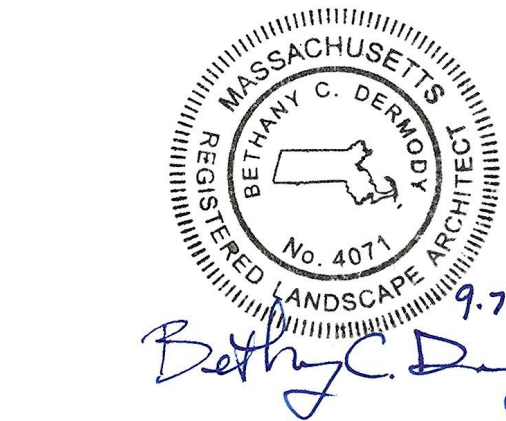
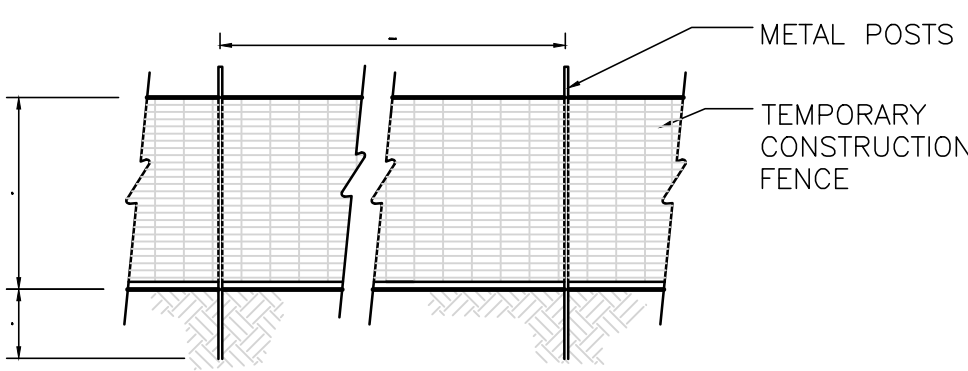
TEMP. CONST. FENCE / TREE PROTECTION

6

NOT TO SCALE

NOTE:

1. CONSTRUCTION FENCE TO BE "VISUAL BARRIER FENCE" AS MANUFACTURED BY EXXON CHEMICAL COMPANY ATLANTA, GA; "KONTROL SAFETY FENCE" AS MANUFACTURED BY MIRAFI, CHARLOTTE, N.C. OR APPROVED EQUAL.
2. IF GROUPS OF TREES ARE TO BE PROTECTED, EXTEND FENCE AROUND PERIMETER TO CONFORM TO MINIMUM DIMENSIONS FOR TREE TRUNKS AND DRIPLINE.



REGISTERED LANDSCAPE ARCHITECT FOR
ALLEN & MAJOR ASSOCIATES, INC.

REV DATE DESCRIPTION

APPLICANT/OWNER:

NBTC GREAT ROAD, LLC
275 MISHAWUM ROAD, 4TH FLOOR
WOBURN, MA 01801

PROJECT:

25 ROBINSON ROAD,
265, 277, 287 & 289
GREAT ROAD
LITTLETON, MA 01460

PROJECT NO. 2371-04 DATE: 09-07-2022

SCALE: AS SHOWN DWG. NAME: C2371-04.dwg

DESIGNED BY: BCD CHECKED BY: BDI

PREPARED BY:

ALLEN & MAJOR ASSOCIATES, INC.
civil engineering • land surveying
environmental consulting • landscape architecture
www.allenmajor.com
100 COMMERCE WAY, SUITE 5
WOBURN MA 01801
TEL: (781) 935-6889
FAX: (781) 935-2896

WOBURN, MA • LAKEVILLE, MA • MANCHESTER, NH

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DRAWING TITLE:

LANDSCAPE DETAILS

SHEET No.

L-501

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ADDITIONAL SEED MIX SPECIFICATIONS FOR
DETENTION BASINS, AND ALL SLOPE AREAS: (AS NOTED ON THE PLAN)

SEED MIXES:

NEW ENGLAND WETLAND PLANTS
820 WEST STREET, AMHERST, MA 01002
PHONE: 413-548-8000 FAX 413-549-4000
EMAIL: INFO@NEWP.COM WEB ADDRESS: WWW.NEWP.COM
NEW ENGLAND CONSERVATION/WILDLIFE MIX

BOTANICAL NAME	COMMON NAME	WETLAND INDICATOR
ELYMUS VIRGINICUS	VIRGINIA WILD RYE	FACW
SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	FACU
ANDROPOGON GERARDII	BIG BLUESTEM	FAC
FESTUCA RUBRA	RED FESCUE	FACU
SORGHASTRUM NUTANS	INDIAN GRASS	UPL
PANICUM VIRGATUM	SWITCH GRASS	FAC
CHAMAECRISTA FASCICULATA	PARTRIDGE PEA	FACU
DESMODIUM PANICULATUM	PANICLEDLEAF TICK TREFOIL	
VERBENA HASTATA	BLUE VERVAIN	FACW
ASCLEPIAS TUBEROSA	BUTTERFLY MILKWEED	NI
RUDBECKIA HIRTA	BLACK EYED SUSAN	FACU
HELENIUM AUTUMNALE	COMMON SNEEZEWEED	FACW+
ASTER PILOSUS (SYMPHYOTRICHUM PILOSUM) HEATH ASTER		UPL
SOLIDAGO JUNCEA	EARLY GOLDENROD	
AGROSTIS PERENNANS	UPLAND BENTGRASS	FACU

THE NEW ENGLAND CONSERVATION/WILDLIFE MIX PROVIDES A PERMANENT COVER OF GRASSES, WILDFLOWERS, AND LEGUMES FOR BOTH GOOD EROSION CONTROL AND WILDLIFE HABITAT VALUE. THE MIX IS DESIGNED TO BE A NO MAINTENANCE SEEDING, AND IS APPROPRIATE FOR CUT AND FILL SLOPES, DETENTION BASIN SIDE SLOPES, AND DISTURBED AREAS ADJACENT TO COMMERCIAL AND RESIDENTIAL PROJECTS.

PRICE PER LB \$36.50 MIN. QUANTITY 2 LBS. TOTAL: \$73.00
APPLY: 25 LBS/ACRE :1750 SQ FT/LB
EROSION CONTROL BLANKET FOR SLOPES SEE LANDSCAPE NOTES

SEED MIXES:

NEW ENGLAND WETLAND PLANTS
820 WEST STREET, AMHERST, MA 01002
PHONE: 413-548-8000 FAX 413-549-4000
EMAIL: INFO@NEWP.COM WEB ADDRESS: WWW.NEWP.COM

NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION
BASINS AND MOIST SITES

BOTANICAL NAME	COMMON NAME	INDICATOR
ELYMUS RIPARIUS	RIVERBANK WILD RYE	FACW
FESTUCA RUBRA	RED FESCUE	FACU
SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	FACU
PANICUM VIRGATUM	SWITCH GRASS	FAC
ANDROPOGON GERARDII	BIG BLUESTEM	FAC
VERBENA HASTATA	BLUE VERVAIN	FACW
AGROSTIS PERENNANS	UPLAND BENTGRASS	FACU
BIDENS CERNUA	NODDING BUR MARIGOLD	DBL
EUPATORIUM FISTULOSUM	HOLLOW-STEM JOE PYE WEED	FACW
EUPATORIUM PERFOLIATUM	BONESET	FACW
ASTER NOVAE-ANGLAE	NEW ENGLAND ASTER	FACW
SCIRPUS CYPERINUS	WOOL GRASS	FACW
JUNCUS EFFUSUS	SOFT RUSH	FACW+

THE NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES CONTAINS A SELECTION OF NATIVE GRASSES AND WILDFLOWERS DESIGNED TO COLONIZE GENERALLY MOIST, RECENTLY DISTURBED SITES WHERE QUICK GROWTH OF VEGETATION IS DESIRED TO STABILIZE THE SOIL SURFACE. IT IS AN APPROPRIATE SEED MIX FOR ECOLOGICALLY SENSITIVE RESTORATIONS THAT REQUIRE STABILIZATION AS WELL AS LONG-TERM ESTABLISHMENT OF NATIVE VEGETATION. THIS MIX IS PARTICULARLY APPROPRIATE FOR DETENTION BASINS THAT DO NOT HOLD STANDING WATER. MANY OF THE PLANTS IN THIS MIX CAN TOLERATE INFREQUENT INUNDATION, BUT NOT CONSTANT FLOODING. THE MIX MAY BE APPLIED BY HAND, BY MECHANICAL SPREADER, OR BY HYDROSEEDER. AFTER SOWING, LIGHTLY RAKE, ROLL, OR CULTPACK TO INSURE GOOD SEED-TO-SOIL CONTACT. BEST RESULTS ARE OBTAINED WITH A SPRING OR LATE SUMMER SEEDING. LATE FALL AND WINTER DORMANT SEEDING REQUIRES AN INCREASE IN THE APPLICATION RATE. A LIGHT MULCHING OF CLEAN, WEED-FREE STRAW IS RECOMMENDED
PRICE PER LB \$34.00 MIN. QUANTITY 3 LBS. TOTAL: \$102.00 APPLY: 35 LBS/ACRE :1250 SQ FT/LB

EROSION CONTROL BLANKET FOR SLOPES SEE LANDSCAPE NOTES

SEED MIXES:

NEW ENGLAND WETLAND PLANTS
820 WEST STREET, AMHERST, MA 01002
PHONE: 413-548-8000 FAX 413-549-4000
EMAIL: INFO@NEWP.COM WEB ADDRESS: WWW.NEWP.COM
SHOWY NEW ENGLAND WILDFLOWER MIX

SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	FACU
CHAMAECRISTA FASCICULATA	PARTRIDGE PEA	FACU
SORGHASTRUM NUTANS	INDIAN GRASS	UPL
FESTUCA RUBRA	RED FESCUE	FACU
ELYMUS CANADENSIS	CANADA WILD RYE	FACU+
ELYMUS RIPARIUS	RIVERBANK WILD RYE	FACW
HELIOPSIS HELIANTHOIDES	OX EYE SUNFLOWER	UPL
COREOPSIS LANCEOLATA	LANCE LEAVED COREOPSIS	FACU
RUDBECKIA HIRTA	BLACK EYED SUSAN	FACU
LIATRIS SPICATA SPIKED GAYFEATHER/MARSH BLAZING STAR		FAC+
ASCLEPIAS SYRIACA	COMMON MILKWEED	FACU
VERNONIA NOVEBORACENSIS	NEW YORK IRONWEED	FACW+
ASTER NOVAE-ANGLAE (SYMPHYOTRICHUM NOVAE-ANGLIA NEW ENGLAND ASTER		FACW
EUPATORIUM PURPUREUM (EUTROCHIUM MACULATUM) PURPLE JOE PYE WEED		FAC
ASCLEPIAS TUBEROSA	BUTTERFLY MILKWEED	NI
SOLIDAGO JUNCEA	EARLY GOLDENROD	
EUPATORIUM PERFOLIATUM	BONESET	FACW

THE NEW ENGLAND SHOWY WILDFLOWER MIX INCLUDES A SELECTION OF NATIVE WILDFLOWERS AND GRASSES THAT WILL MATURE INTO A COLORFUL AND VIBRANT NATIVE MEADOW. IT IS APPROPRIATE SEED MIX FOR ROADSIDES, COMMERCIAL LANDSCAPING, PARKS, GOLF COURSES, AND INDUSTRIAL SITES. ALWAYS APPLY ON CLEAN BARE SOIL. THE MIX MAY BE APPLIED BY MECHANICAL SPREADER, OR ON SMALL SITES IT CAN BE SPREAD BY HAND. LIGHTLY RAKE, OR ROLL, TO ENSURE PROPER SEED TO SOIL CONTACT. BEST RESULTS ARE OBTAINED WITH A SPRING OR LATE FALL DORMANT SEEDING. LATE SPRING AND EARLY SUMMER SEEDING WILL BENEFIT WITH A LIGHT MULCHING OF WEED-FREE STRAW TO CONSERVE MOISTURE. IF CONDITIONS ARE DRIER THAN USUAL, WATERING MAY BE REQUIRED. LATE FALL AND WINTER DORMANT SEEDING REQUIRES AN INCREASE IN THE SEEDING RATE. FERTILIZATION IS NOT REQUIRED UNLESS THE SOILS ARE PARTICULARLY INFERTILE. PREPARATION OF A CLEAN WEED FREE SEED BED IS NECESSARY FOR OPTIMAL RESULTS.
PRICE PER LB. \$86.00 MIN. QUANTITY 1 LBS. TOTAL: \$86.00 APPLY: 23 LBS/ACRE :1900 SQ FT/LB

LANDSCAPE NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF LITTLETON, MA.
- PLANTING PLAN IS DIAGRAMMATIC IN NATURE. FINAL PLACEMENT OF PLANTS TO BE APPROVED BY THE LANDSCAPE ARCHITECT IN THE FIELD.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES, ANY PERMITTING AGENCIES, AND "DIG-SAFE" (1-888-344-7233) AT LEAST 72 HOURS IN ADVANCE OF ANY WORK THAT WILL REQUIRE EXCAVATION. CONTRACTOR SHALL NOTIFY THE OWNERS REPRESENTATIVE OF NAY CONFLICTS IN WRITING.
- NO PLANT MATERIAL SHALL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA, ANY TREES NOTED AS "SEAL OR SELECTED SPECIMEN" SHALL BE TAGGED AND SEALED BY THE LANDSCAPE ARCHITECT.
- ALL TREES SHALL BE BALLED AND BURLAPPED (B&B) UNLESS OTHERWISE NOTED OR APPROVED BY THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT.
- CONTRACTOR SHALL VERIFY QUANTITIES SHOWN ON PLANT LIST. QUANTITIES SHOWN ON PLANS SHALL GOVERN OVER PLANT LIST.
- ANY PROPOSED PLANT SUBSTITUTIONS MUST BE APPROVED IN WRITING BY OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT.
- ALL PLANT MATERIALS INSTALLED SHALL MEET THE GUIDELINES ESTABLISHED BY THE STANDARDS FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
- ALL PLANT MATERIALS SHALL BE GUARANTEED FOR ONE YEAR FOLLOWING DATE OF ACCEPTANCE. ANY PLANT MATERIALS WHICH DIE WITHIN THE ONE YEAR PLANT GUARANTEE PERIOD WILL BE REPLACED BY THE LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNERS. OWNERS TO COORDINATE DIRECTLY WITH THE LANDSCAPE CONTRACTOR FOR REPLACEMENT PLANTINGS.
- ALL DISTURBED AREAS NOT OTHERWISE NOTED SHALL RECEIVE 6" OF SUITABLE LOAM & SEED.
- LAWNS OR SEED MIX WITH 3:1 OR STEEPER (GREATER) SLOPES SHALL BE PROTECTED WITH JUTE EROSION CONTROL NETTING.
- ANY FALL TRANSPLANTING HAZARD PLANTS SHALL BE DUG IN THE SPRING AND STORED FOR FALL PLANTING.
- TREES SHALL HAVE A MINIMUM CALIPER AS INDICATED ON THE PLANTING SCHEDULE TAKEN ONE FOOT ABOVE THE ROOT CROWN.
- ALL PLANT BEDS AND TREE SAUCERS TO RECEIVE 3" OF PINE BARK MULCH. GROUND COVER AREAS SHALL RECEIVE 1" OF PINE BARK MULCH
- ALL DECIDUOUS TREES ADJACENT TO WALKWAYS AND ROADWAYS SHALL HAVE A BRANCHING PATTERN TO ALLOW FOR A MINIMUM OF 7' OF CLEARANCE BETWEEN THE GROUND AND THE LOWEST BRANCH.
- ALL TREE STAKES SHALL BE STAINED DARK BROWN.
- CONTRACTOR RESPONSIBLE FOR WATERING, MAINTENANCE, FERTILIZING, AND RESEEDING OF LAWN BARE SPOTS UNTIL A UNIFORM STAND OF VEGETATION IS ESTABLISHED AND ACCEPTED.
- ALL PARKING ISLANDS PLANTED WITH SHRUBS OR PERENNIALS SHALL HAVE 24" OF TOPSOIL. FINISH GRADE SHALL BE EQUAL TO THE TOP OF CURB.
- SOIL SAMPLES, TESTS, AND SHOP DRAWINGS SHALL BE PROVIDED TO THE LANDSCAPE ARCHITECT OR THE OWNER FOR APPROVAL PRIOR TO CONSTRUCTION.
- A MINIMUM 18" WIDE BARRIER OF 1" GRAY OR TAN PEASTONE SHALL BE INSTALLED IN ALL PLANT BEDS WHICH ABUT THE BUILDINGS. NO MULCH IS ALLOWED WITHIN 18" OF ALL BUILDINGS PER THE EXECUTIVE OFFICE OF PUBLIC SAFETY AND SECURITY DEPARTMENT OF FIRE SERVICES REGULATION (527 CMR 17.00). INSTALL 4" DEEP OF PEASTONE WITH MIRAFI WEED FABRIC BENEATH AND STEEL EDGING BETWEEN THE PEASTONE AND ADJACENT MULCH BED. PROVIDE SHOP DRAWINGS TO O&M FOR APPROVAL PRIOR TO PURCHASE OF PEASTONE, MIRAFI WEED FABIRC & STEEL EDGING.
- ALL PROPOSED LANDSCAPE AREAS INCLUDING MOWED LAWNS, TREES, SHRUB BEDS, PERENNIALS, AND ANNUALS SHALL BE PROVIDED WITH WATER EFFICIENT UNDERGROUND IRRIGATION. DESIGN AND INSTALLATION OF IRRIGATION SYSTEM TO BE PERFORMED BY AN APPROVED IRRIGATION DESIGN BUILD CONTRACTOR OR BY AN APPROVED EQUAL, TO BE DETERMINED BY THE OWNERS REPRESENTATIVE AND LANDSCAPE ARCHITECT. IRRIGATION SYSTEM IS TO BE DESIGNED FOR EFFICIENT WATER USAGE INCLUDING: USE OF DRIP IRRIGATION FOR TREES, SHRUBS AND PERENNIALS. IRRIGATION SYSTEM WITH HEAD-TO-HEAD COVERAGE, A CENTRAL SHUT-OFF VALVE, SEPARATE ZONES FOR EACH TYPE OF BEDDING AREA BASED ON WATERING NEEDS, AND A RAIN SENSOR TO SHUT OFF IRRIGATION DURING RAIN EVENTS.
- PRIOR TO LAYING TOPSOIL, ALL SUBSOIL (BELOW PROPOSED TOPSOIL) TO BE TILLED TO A DEPTH OF AT LEAST 18" TO REMOVE CONSTRUCTION COMPACTION AND ALLOW FOR PROPER DRAINAGE OF TOPSOILS.
- SEEDING OF DETENTION AREAS & OTHER SLOPE AREAS SHALL OCCUR IN THE DRY & AFTER SLOPES ARE COMPACTED. IT IS IMPORTANT, THAT THE DETENTION BASIN BE SEEDED AT THE BEGINNING OF THE PROJECT & PRIOR TO ANY DRAINAGE BEING DIRECTED TOWARDS THE BASIN. THE SEED AT DETENTION AREAS & OTHER SLOPED ARES WILL NEED A MIN. OF 6 MONTHS TO INITIALLY ESTABLISH PRIOR TO THE DETENTION BASIN BEING UTILIZED SO THAT THERE IS NOT EROSION & SLOPE FAILURE. SEED MIXES AVAILABLE FROM NEW ENGLAND WETLAND PLANTS, 820 WEST ST., AMHERST, MA, 413-548-8000. LIGHTLY RAKE SOIL TO ENSURE GOOD SEED-TO-SOIL CONTACT. SEE SEED MIX DETAIL NOTES.

ALL SEEDING TO BE COMPLETED "IN SEASON" BETWEEN APRIL 1 TO JUNE 15 OR AUGUST 15 TO OCTOBER 1, EXCEPT FOR RE-SEEDING OF BARE SPOTS. AT ALL SLOPED AREAS CONTRACTOR TO INSTALL COCONUT FIBER JUTE MESH NETTING ON ALL SLOPES 3:1 AND OVER. HYDROSEED ALL EXPOSED AREAS, ADD SOIL STABILIZER "FLUX TERRA HP-FGM SOIL STABILIZER" AS MANUFACTURED BY "PROFILE" TO HYDROSEED (AT RATE OF 3,000 LBS PER ACRE), AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR TO ALSO BE RESPONSIBLE FOR RE-GRADING AND RE-SEEDING ALL DISTURBED, ERODED, OR BARE SPOTS AT NO ADDITIONAL COST TO OWNER & UNTIL SLOPES ARE FULLY STABLE. CONTRACTOR RESPONSIBLE FOR ALL MAINTENANCE UNTIL FINAL ACCEPTANCE OF LAWN AREAS INCLUDING: WATERING, ADDING FERTILIZERS AND LIME AND MOWING AT NO ADDITIONAL COST TO OWNER.

AFTER SEEDING, ALL AREAS TO BE LIGHTLY MULCHED WITH WEED FREE STRAW & CONTINUALLY WATERED EVERY DAY UNTIL SEED IS ESTABLISHED & APPROVED BY A&M LANDSCAPE ARCHITECT (USE NO HAY) SO THAT SEED IS KEPT MOIST. FOR SPREADING OF THE SEED WITH DRY DETENTION BASINS, WATER LEVELS MAY BE LOWERED IN THE DETENTION AREAS BY RELYING ON DRY SEASON AND OR DRY SPELLS; OR MAY BE ACCOMPLISHED THROUGH THE USE OF DEWATERING METHODS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ANY DEWATERING METHODS FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. WATER FROM ANY DEWATERING OPERATION SHALL BE TREATED TO REDUCE TOTAL SUSPENDED SOLIDS AND BE IN COMPLIANCE WITH STATE AND FEDERAL STANDARDS.

SPREAD THE NEW ENGLAND SEED MIXES AT AREAS SHOWN ON THE PLAN. SEE SEED MIX DETAIL NOTES. SEED MIXES AVAILABLE FROM NEW ENGLAND WETLAND PLANTS, 820 WEST ST., AMHERST, MA, 413-548-8000. LIGHTLY RAKE SOIL TO ENSURE GOOD SEED-TO-SOIL CONTACT.

LOAM AND SEEDING NOTES:

CONTRACTOR SHALL SEED ALL DISTURBED AREAS NOT NOTED TO RECEIVE OTHER MATERIALS, AND AT AREAS SHOWN ON THE PLAN PER SPECIFICATIONS BELOW

SCIENTIFIC NAME	COMMON NAME	PROPORTION	PERCENT	PERCENT
		BY WEIGHT	PURITY	GERMINATION
FESTUCA RUBRA "RUBRA"	CREeping RED FESCUE	37%	95%	90%
PAO PRAENTENSIS "BARON"	BARON KENTUCKY BLUEGRASS	40%	85%	90%
LOLIUM PERENNE "PALMER"	PALMER PERENNIAL RYEGRASS	15%	95%	90%
FESTUCA RUBRA COMMUTATA WILMA	WILMA CHEWINGS	8%	95%	80%

- SEED TO BE SPREAD AT MINIMUM RATE OF 5 LBS. PER 1000 SQ. FT.
- SEEDING TO BE COMPLETED "IN SEASON" BETWEEN APRIL 1 TO JUNE 15 OR AUGUST 15 TO OCTOBER 1, EXCEPT FOR RESEEDING OF BARE SPOTS. IF UNABLE TO SEED WITHIN THESE TIMEFRAMES, CONTRACTOR TO INSTALL EROSION CONTROL MATS ON ALL SLOPES 3:1 AND OVER, HYDROSEED ALL EXPOSED AREAS, ADD SOIL STABILIZER "FLUX TERRA HP-FGM SOIL STABILIZER" AS MANUFACTURED BY "PROFILE" TO HYDROSEED (AT RATE OF 3,000 LBS PER ACRE), AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR TO COMPLETE ALL ABOVE "OUT OF SEASON" REQUIREMENTS AND THEN ALSO BE RESPONSIBLE FOR RE-GRADING AND RE-SEEDING ALL DISTURBED, ERODED, OR BARE SPOTS WITHIN NEXT CLOSEST PLANTING SEASON IN FALL OR SPRING AT NO ADDITIONAL COST TO OWNER. CONTRACTOR RESPONSIBLE FOR ALL MAINTENANCE UNTIL FINAL ACCEPTANCE OF LAWN AREAS INCLUDING: WATERING, ADDING FERTILIZERS AND LIME AND MOWING AT NO ADDITIONAL COST TO OWNER
- COMMERCIAL FERTILIZER SHALL BE APPLIED AT THE RATE OF 25 POUNDS PER 1000 SQ. FT. OR AS RECOMMENDED BY THE TESTING AGENCY. LIME TO BE SPREAD AT THE RATE OF 100 POUNDS PER 1000 SQ. FT OR AS RECOMMENDED BY THE TESTING AGENCY. COMMERCIAL FERTILIZER SHALL BE A COMPLETE FERTILIZER CONTAINING AT LEAST 50% OF THE NITROGEN OF WHICH IS DERIVED FROM NATURAL ORGANIZE SOURCES OF UREAFORM. IT SHALL CONTAIN THE FOLLOWING PERCENTAGES BY WEIGHT: NITROGEN (N) 10%, PHOSPHORUS (P) 6%, POTASH (K) 4%. LIME SHALL BE AN APPROVED AGRICULTURAL LIMESTONE CONTAINING NOT LESS THAN 85% OF TOTAL CARBONATES. LIMESTONE SHALL BE GROUND TO SUCH FINENESS THAT 50% WILL PASS A 100 MESH SIEVE AND 90% WILL PASS THROUGH A 20 MESH SIEVE.
- LAWN AREAS TO BE SEEDED BY SOWING EVENLY WITH AN APPROVED MECHANICAL SEEDER AT THE RATE OF TEN POUNDS PER 1000 SQUARE FEET.
- CONTRACTOR RESPONSIBLE FOR WATERING, MOWING, AND RESEEDING OF LAWN BARE SPOTS UNTIL A UNIFORM, HEALTHY STAND OF GRASS IS ESTABLISHED AND ACCEPTED.

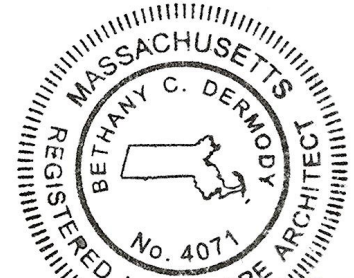
LOAM AND SODDING:

CONTRACTOR SHALL SOD AREAS NOTED ON THE PLANS OR AT ANY AREA DISTURBED BY CONSTRUCTION NOT NOTED TO BE ANOTHER MATERIAL.

SOD IS TO BE A BLEND OF FOUR TO FIVE CURRENT AND IMPROVED HYBRID BLUEGRASS AND FESCUE MIXES APPROPRIATE FOR BOTH SEMI-SHADED AND AREAS OF SUN.

HYBRIDS MAY INCLUDE: BLACKSTONE KENTUCKY BLUEGRASS, AWARD KENTUCKY BLUEGRASS, CHALLENGER KENTUCKY BLUEGRASS, BLACKBURG II KENTUCKY BLUEGRASS OR COMPARABLE AND EQUAL BLUEGRASS HYBRIDS.

- PROVIDE A&M A SHOP DRAWING FOR APPROVAL PRIOR TO ORDERING OF SOD.
- SOD SHALL BE HIGH QUALITY, NURSERY GROWN ON CULTIVATED MINERAL AGRICULTURAL SOILS. SOD SHALL BE MOIST, AND MACHINE CUT AT A UNIFORM SOIL THICKNESS OF AT LEAST 5/8" AT TIME OF CUTTING. MEASUREMENT FOR THICKNESS SHALL INCLUDE TOP GROWTH AND THATCH. SOD SHALL BE FREE OF DISEASES, WEEDS, BARE SPOTS, OR INSECTS.
- SODDING TO BE COMPLETED "IN SEASON" BETWEEN APRIL 1 TO JUNE 15 OR AUGUST 15 TO OCTOBER 1, EXCEPT FOR RE-SODDING OF BARE SPOTS. IF UNABLE TO SOD WITHIN THESE TIMEFRAMES, CONTRACTOR TO INSTALL EROSION CONTROL MATS ON ALL SLOPES 3:1 AND OVER, HYDROSEED ALL EXPOSED AREAS, ADD SOIL STABILIZER "FLUX TERRA HP-FGM SOIL STABILIZER" AS MANUFACTURED BY "PROFILE" TO HYDROSEED (AT RATE OF 3,000 LBS PER ACRE), AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR TO COMPLETE ALL ABOVE "OUT OF SEASON" REQUIREMENTS AND THEN ALSO BE RESPONSIBLE FOR RE-GRADING AND RE-SODDING ALL DISTURBED, ERODED, OR BARE SPOTS WITHIN NEXT CLOSEST PLANTING SEASON IN FALL OR SPRING AT NO ADDITIONAL COST TO OWNER. CONTRACTOR RESPONSIBLE FOR ALL MAINTENANCE UNTIL FINAL ACCEPTANCE OF LAWN AREAS INCLUDING: WATERING, ADDING FERTILIZERS AND LIME AND MOWING AT NO ADDITIONAL COST TO OWNER.
- COMMERCIAL FERTILIZER SHALL BE APPLIED AT THE RATE OF 25 POUNDS PER 1000 SQ. FT. OR AS RECOMMENDED BY THE TESTING AGENCY. LIME TO BE SPREAD AT THE RATE OF 100 POUNDS PER 1000 SQ. FT OR AS RECOMMENDED BY THE TESTING AGENCY. COMMERCIAL FERTILIZER SHALL BE A COMPLETE FERTILIZER CONTAINING AT LEAST 50% OF THE NITROGEN OF WHICH IS DERIVED FROM NATURAL ORGANIZE SOURCES OF UREAFORM. IT SHALL CONTAIN THE FOLLOWING PERCENTAGES BY WEIGHT: NITROGEN (N) 10%, PHOSPHORUS (P) 6%, POTASH (K) 4%. LIME SHALL BE AN APPROVED AGRICULTURAL LIMESTONE CONTAINING NOT LESS THAN 85% OF TOTAL CARBONATES. LIMESTONE SHALL BE GROUND TO SUCH FINENESS THAT 50% WILL PASS A 100 MESH SIEVE AND 90% WILL PASS THROUGH A 20 MESH SIEVE.
- CONTRACTOR RESPONSIBLE FOR WATERING, MOWING, AND RE-SODDING OF LAWN BARE SPOTS UNTIL A UNIFORM, HEALTHY STAND OF GRASS IS ESTABLISHED AND ACCEPTED. IF PROPOSED IRRIGATION SYSTEM IS NOT OPERATIONAL, LANDSCAPE CONTRACTOR RESPONSIBLE TO WATER WITH TEMPORARY IRRIGATION OR WATER TRUCKS UNTIL IRRIGATION SYSTEM IS OPERATIONAL AT NO ADDITIONAL COST.



Bethany C. Demott

REGISTERED LANDSCAPE ARCHITECT FOR
ALLEN & MAJOR ASSOCIATES, INC.

REV	DATE	DESCRIPTION
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APPLICANT/OWNER:

NBTC GREAT ROAD, LLC
275 MISHAWUM ROAD, 4TH FLOOR
WOBURN, MA 01801

PROJECT:

25 ROBINSON ROAD,
265, 277, 287 & 289
GREAT ROAD
LITTLETON, MA 01460

PROJECT NO.	2371-04	DATE:	09-07-2022
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SCALE:	AS SHOWN	DWG. NAME:	C2371-04.dwg
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DESIGNED BY:	BCD	CHECKED BY:	BDJ
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PREPARED BY:

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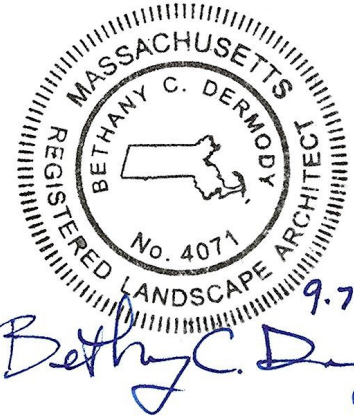
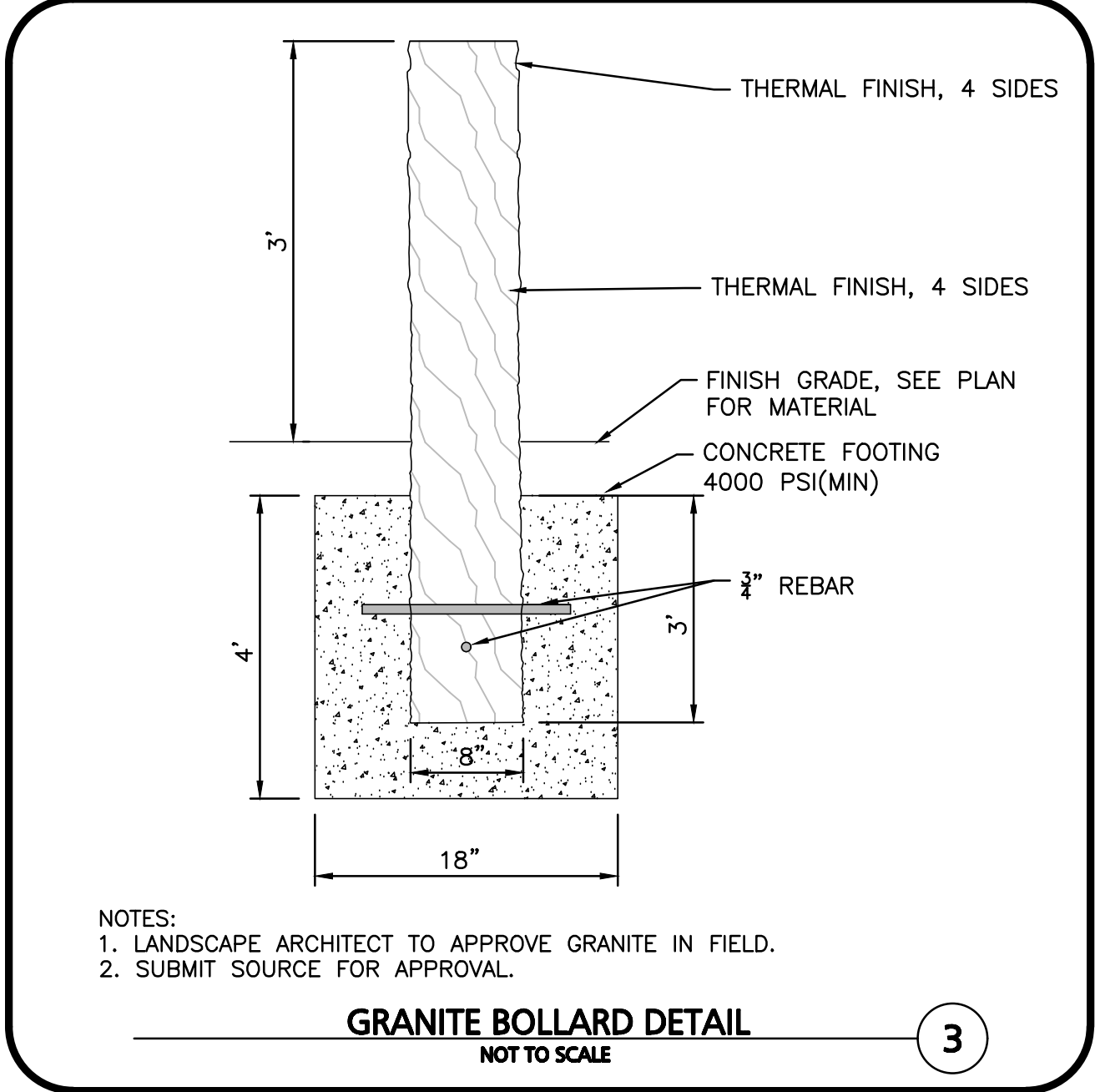
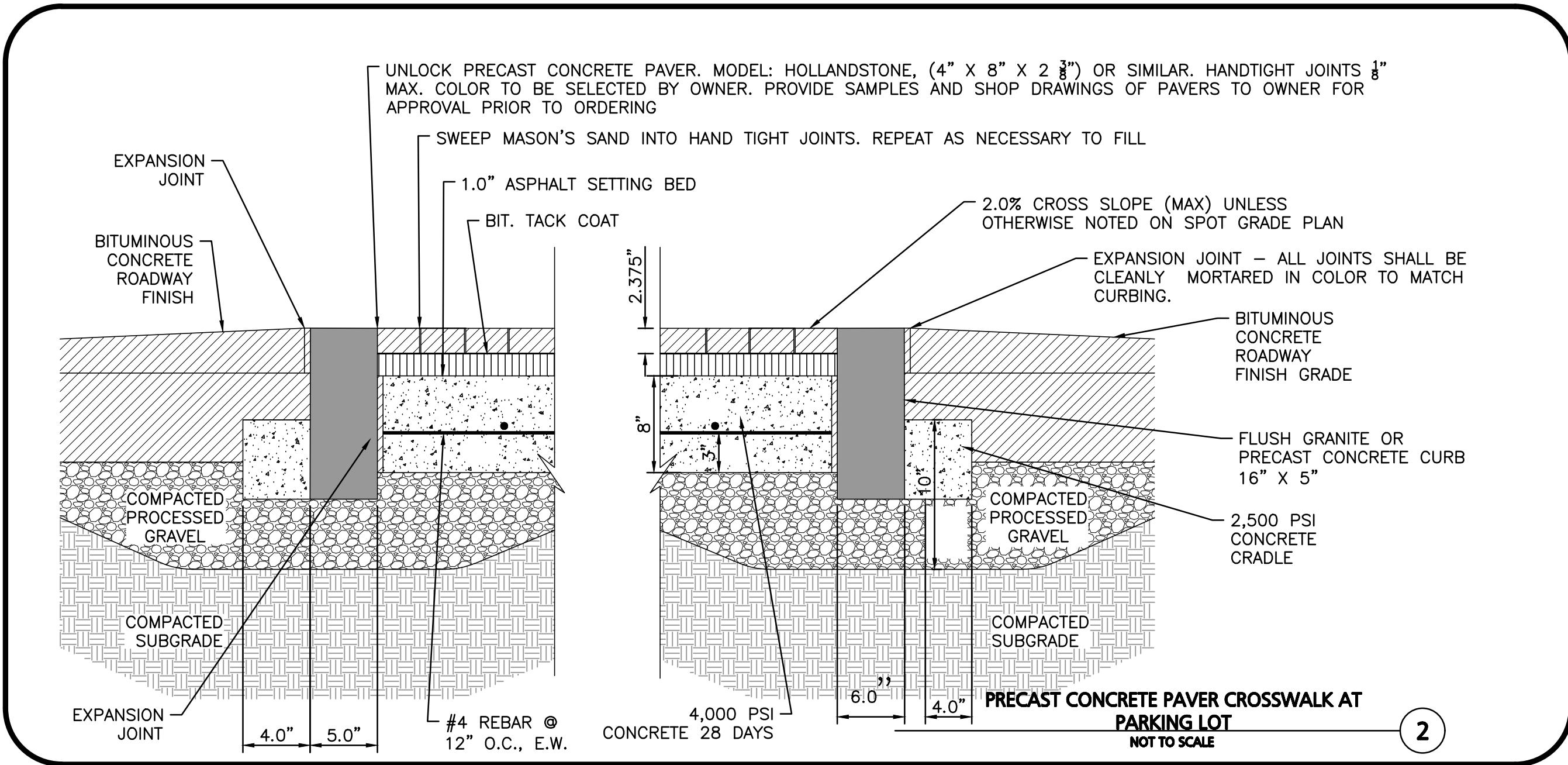
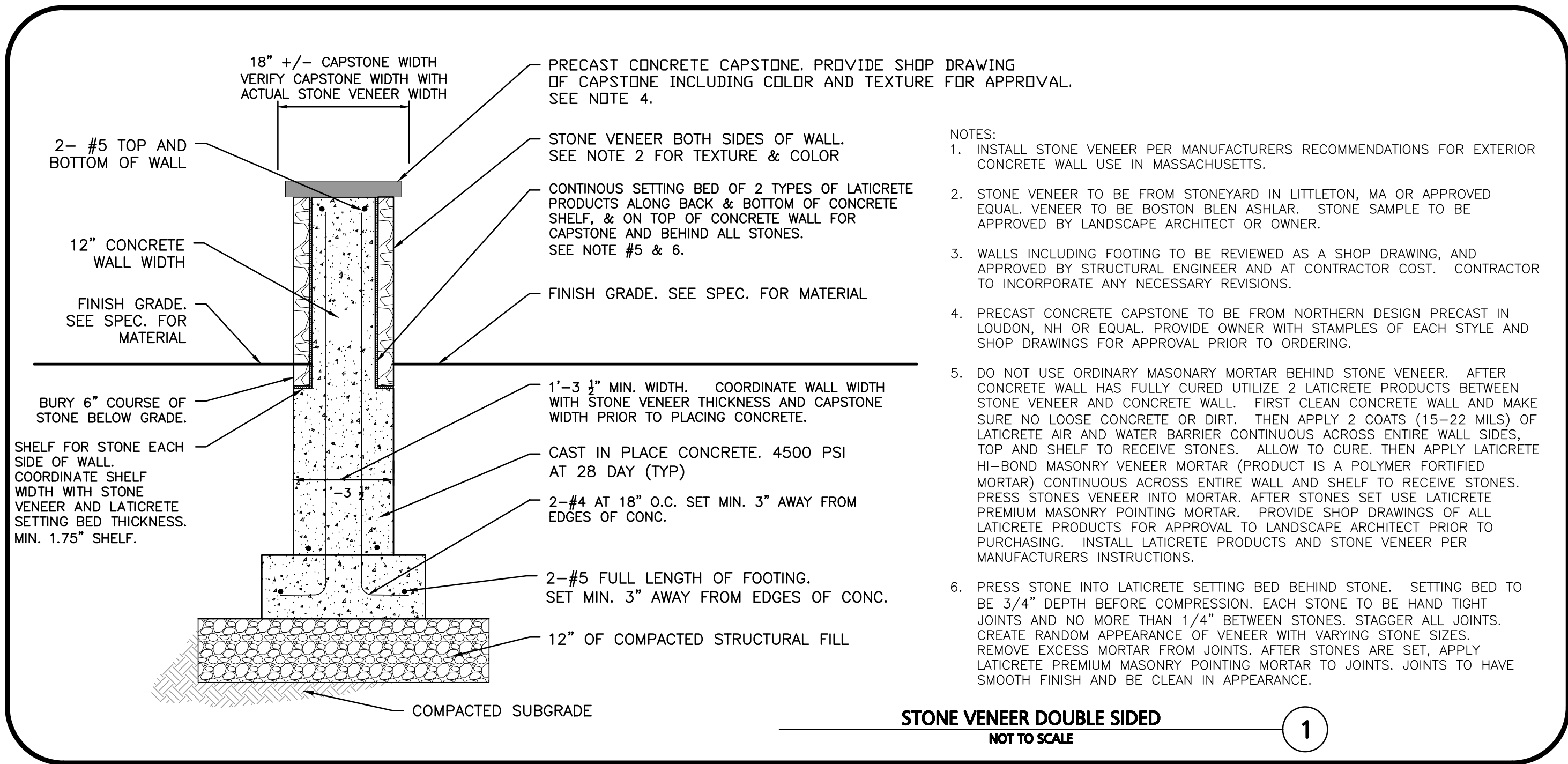
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LANDSCAPE NOTES	L-502

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REGISTERED LANDSCAPE ARCHITECT FOR
ALLEN & MAJOR ASSOCIATES, INC.

APPLICANT/OWNER:
NBTC GREAT ROAD, LLC
275 MISHAWUM ROAD, 4TH FLOOR
WOBURN, MA 01801

PROJECT:
25 ROBINSON ROAD,
265, 277, 287 & 289
GREAT ROAD
LITTLETON, MA 01460

PROJECT NO. 2371-04 DATE: 09-07-2022

SCALE: AS SHOWN DWG. NAME: C2371-04.dwg

DESIGNED BY: BCD CHECKED BY: BDI

PREPARED BY:

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