

GENERAL NOTES:

CONTRACTOR SHALL COORDINATE WITH THE READING PLANNING BOARD ON ALL REQUIREMENTS FOR SITE INSPECTIONS, AS-BUILT DRAWINGS, AND FEE PAYMENT PRIOR TO CONSTRUCTION.

CONTRACTOR SHALL MAINTAIN EROSION CONTROLS THROUGHOUT CONSTRUCTION AND REPAIR OR REPLACE EROSION CONTROLS AS MAY BE REQUIRED BY THE INSPECTION ENGINEER, READING PLANNING BOARD, OR READING D.P.W.

CONTRACTOR SHALL COORDINATE WITH THE RESPECTIVE UTILITY PROVIDERS REGARDING INSTALLATION REQUIREMENTS FOR GAS, WATER, ELECTRIC, AND TELEPHONE.

REFERENCES

OWNER OF RECORD

PETER SEIBOLD
437 SUMMER AVENUE, READING, MA
DEED BOOK 30698 PAGE 582 M.S.R.D.

ZONING DISTRICT

TAX MAP 38 PARCEL 139
S-20 DISTRICT

PLAN REFERENCES

PLAN NO. 1478 OF 1985
PLAN NO. 640 OF 1967

NOTES:

1. THE SUBJECT PROPERTY IS LOCATED IN ZONING DISTRICT S20.
2. THIS PLAN DOES NOT SHOW ANY UNWRITTEN OR UNRECORDED EASEMENTS WHICH MAY EXIST. A REASONABLE AND DILIGENT ATTEMPT HAS BEEN MADE TO OBSERVE ANY APPARENT, VISIBLE USES OF THE LAND; HOWEVER, THIS DOES NOT CONSTITUTE A GUARANTEE THAT NO SUCH EASEMENTS EXIST.
3. ABUTTERS REFERENCES WERE COMPILED FROM AVAILABLE TOWN RECORDS AND DO NOT INDICATE AN OPINION OF TITLE OR OWNERSHIP.

ABBREVIATED SCHEDULE OF ZONING REQUIREMENTS

ASSESSOR'S MAP 38 PARCEL 139
- ZONING DISTRICT: S20
- REQUIRED LOT FRONTAGE = 120'
- REQUIRED SETBACKS
FRONT= 20' SIDE= 15' REAR= 20'

INDEX OF SHEETS

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SHEET C-501	DETAILS
SHEET C-502	DETAILS
SHEET C-503	DETAILS

DEFINITIVE SUBDIVISION

ANNETTE LANE READING, MASSACHUSETTS

PREPARED FOR:

PETER SEIBOLD

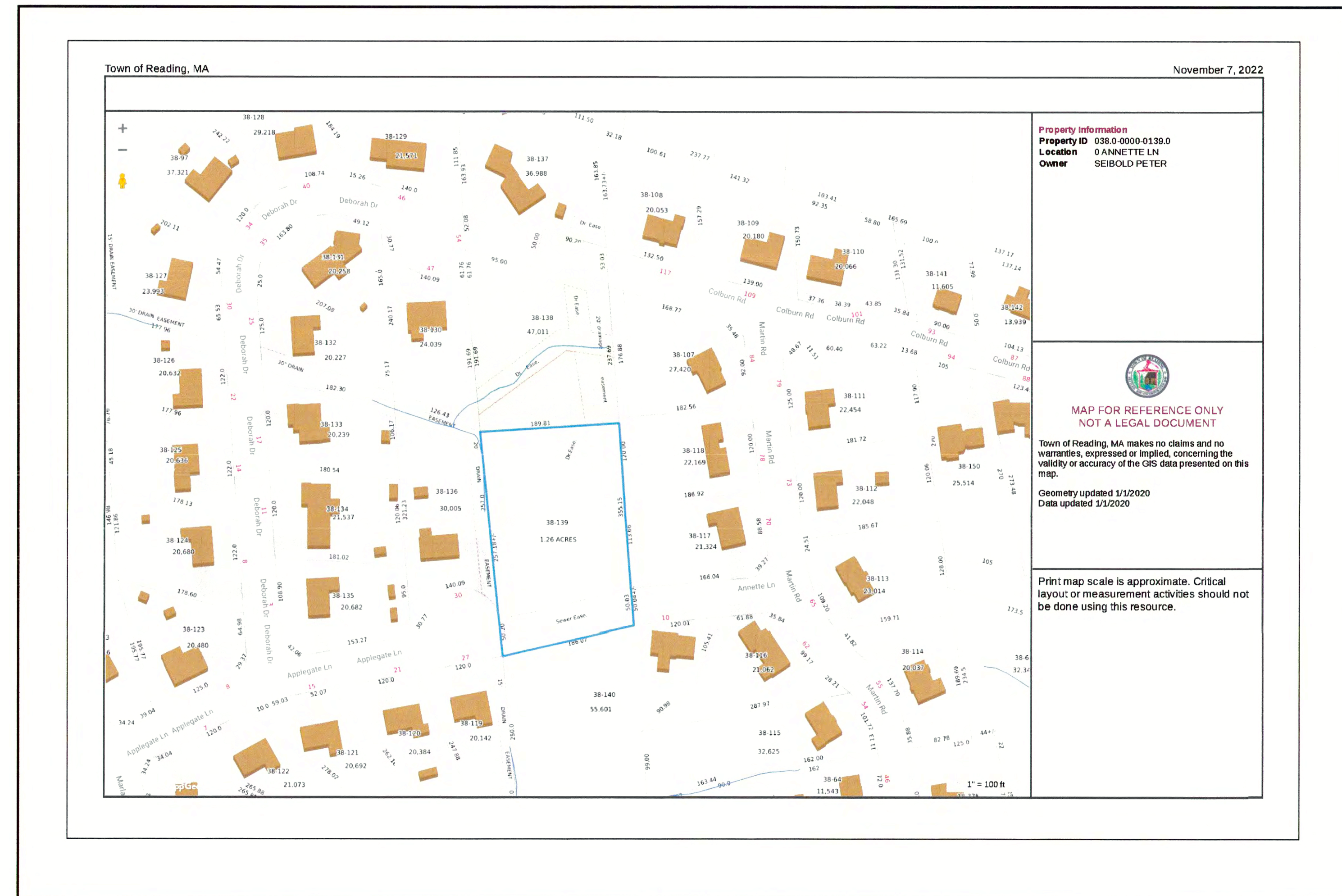
PREPARED BY:

Vineyard Engineering & Environmental Services Inc.

Land Survey, Civil Engineering & Environmental Services
17 SALEM STREET, MEDFORD MA 02155
Tel. 781.933.3330 Fax: 781.933.3334

Vineyardeng.com

I HEREBY CERTIFY THAT THIS PLAN IS BASED ON AN ACTUAL FIELD SURVEY. THIS PLAN HAS BEEN PREPARED IN CONFORMITY WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS OF THE COMMONWEALTH OF MASSACHUSETTS.



LOCATION PLAN

SCALE: 1"=100'



JAMES J. ABELY

08/16/2023
DATE

TOWN OF READING COMMUNITY PLANNING AND DEVELOPMENT COMMISSION

DATE

NOTE

EXISTING UTILITIES SHOWN ON THESE PLANS ARE COMPILED FROM RECORD INFORMATION AND APPROXIMATE FIELD LOCATION AND THEREFORE, ARE NOT CERTIFIED FOR CONSTRUCTION. PRIOR TO EXCAVATION OR CONSTRUCTION, THE CONTRACTOR MUST NOTIFY "DIGSAFE" (1-888-344-7233) SEVENTY-TWO HOURS BEFORE COMMENCING WORK.

DATE: 8/14/2023

SHEET 1



LEGEND:

- ▲ WETLAND FLAG (BY LEC ENVIRONMENTAL)
- EOR EDGE OF ROAD
- BSW BACK OF SIDEWALK
- CONIFEROUS TREE (>6" DIA.)
- DECIDUOUS TREE (>6" DIA.)
- ⊗ WATER GATE
- 100 EXISTING CONTOUR
- ⊙ DRAIN MANHOLE
- ⊙ SEWER MANHOLE
- ▭ CATCH BASIN
- ⊙ STONE BOUND DRILL HOLE
- ⊙ SBDH (FND)



ZONING TABLE		
S-20 DISTRICT	REQUIRED	EXISTING
LOT SIZE	20,000 SQ. FT.	54,942 ± SQ. FT.
FRONTAGE	120.00'	50.03'
MINIMUM LOT WIDTH	80.00'	186.06'
MINIMUM FRONT SETBACK	20.0'	---
MINIMUM SIDE SETBACK	15.0'	---
MINIMUM REAR SETBACK	20.0'	---
MAX. LOT COVERAGE	25%	---
HEIGHT	35'	---
WETLAND AREA		17,357± SQ. FT.
UPLAND AREA		37,585± SQ. FT.

TOWN OF READING COMMUNITY PLANNING AND DEVELOPMENT COMMISSION

DATE

OWNER OF RECORD
 PETER SEIBOLD
 437 SUMMER AVE., READING, MA
 DEED BOOK 30698 PAGE 582

ZONING DISTRICT

TAX MAP 38 PARCEL 139
 S-20 DISTRICT

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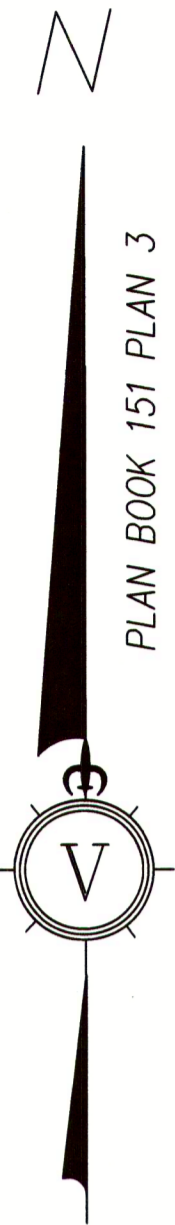
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PLAN OF LAND
 EXISTING CONDITIONS
 ANNETTE LANE
 READING, MA
 SCALE 1" = 30' AUGUST 14, 2023
 PREPARED BY

VINEYARD ENGINEERING
 & ENVIRONMENTAL SERVICES INC.
 LAND SURVEY, CIVIL ENGINEERING
 & ENVIRONMENTAL SERVICES
 17 SALEM STREET
 MEDFORD MA 02155
 TEL. 781-933-3330 FAX. 781-933-3334
 Vineyardeng.com





PLAN BOOK 151 PLAN 3

LEGEND:

- ▲ WETLAND FLAG (BY LEC ENVIRONMENTAL)
- EOR EDGE OF ROAD
- BSW BACK OF SIDEWALK
- CONIFEROUS TREE (>6" DIA.)
- DECIDUOUS TREE (>6" DIA.)
- ⊗ WATER GATE
- 100 EXISTING CONTOUR
- ⊙ DRAIN MANHOLE
- ⊙ SEWER MANHOLE
- ▭ CATCH BASIN
- ⊠ STONE BOUND DRILL HOLE
- SBDH (FND)
- ⊠ TP-1 TEST PIT
- ◇ 25' PERMANENT WETLAND MARKER

NOTES:

PERMANENT MARKERS SHALL BE INSTALLED AND MAINTAINED IN CONVENIENT LOCATIONS ALONG THE LIMITS OF THE ZVW SUCH AS AT ANY CORNERS OR ALONG A RADIUS, NO MORE THAN FIFTY FEET APART. MARKERS MAY BE STONE OR CONCRETE BOUNDS, METAL PIPES OR RODS, TREES, SHRUBS, OR OTHER STRUCTURES AS APPROVED.



FOR REGISTRY USE ONLY

ZONING TABLE

S-20 DISTRICT	REQUIRED	EXISTING	PROPOSED LOT B-1	PROPOSED ROW EXTENSION
LOT SIZE	20,000 SQ. FT.	54,942 ± SQ. FT.	43,740 ± SQ. FT.	11,201 ± SQ. FT.
FRONTAGE	120.00'	50.03'	186.06'	---
MINIMUM LOT WIDTH	80.00'	186.06'	186.06'	---
MINIMUM FRONT SETBACK	20.0'	---	94.8'	---
MINIMUM SIDE SETBACK	15.0'	---	54.4'	---
MINIMUM REAR SETBACK	20.0'	---	106.3'	---
MAX. LOT COVERAGE	25%	---	3.8%	---
HEIGHT	35'	---	LESS THAN 35'	---
WETLAND AREA		17,357 ± SQ. FT.	7,084 ± SQ. FT.	5,634 ± SQ. FT.
UPLAND AREA		37,585 ± SQ. FT.	36,656 ± SQ. FT.	5,567 ± SQ. FT.

TOTAL IMPERVIOUS AREA LOT B-1
4,131 SF/10.6%

OWNER OF RECORD

PETER SEIBOLD
437 SUMMER AVE., READING, MA
DEED BOOK 30698 PAGE 582

ZONING DISTRICT

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James J. Abely
JAMES J. ABELY
PROFESSIONAL LAND SURVEYOR
NO. 28960
DATE 11/27/2023

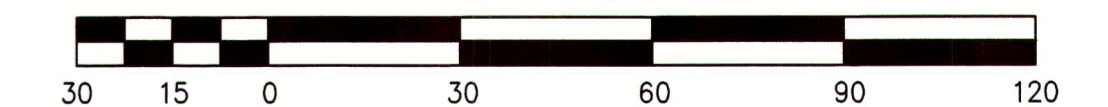
PROPOSED SITE PLAN

ANNETTE LANE
READING, MA

SCALE 1" = 30' NOVEMBER 27, 2023

PREPARED BY

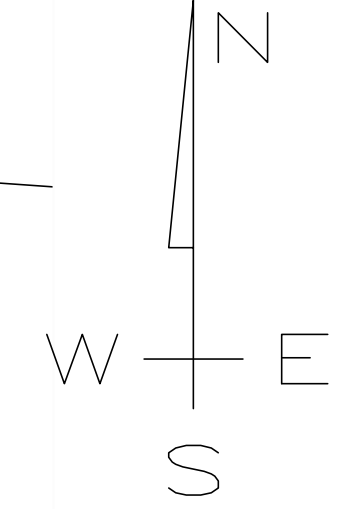
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C:\USERS\COMUN\DESKTOP\PROJECT INFO\202304-01\CIVIL\DRAWINGS\202304-01 - ROADWAY IMPROVEMENT PLAN.DWG

PLAN NOTES:

1. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR IT'S REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
2. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING STRUCTURES INCLUDING REMOVAL OF ANY EXISTING UTILITIES SERVING THE STRUCTURE. UTILITY CONNECTIONS SHOULD BE COORDINATED WITH THE MEP PRIOR TO CONSTRUCTION.
3. EXISTING DRAINAGE STRUCTURES TO REMAIN ARE TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
4. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
5. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ENSURE A SMOOTH FIT AND CONTINUOUS GRADE.
6. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
7. THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT FOR THE FINAL LOCATIONS OF PROPOSED ROOF DRAINS. LOCATIONS ARE SHOWN HEREON FOR COORDINATION PURPOSES ONLY.
8. WRITTEN DIMENSIONS ON THIS PLAN TAKE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL USE CAUTION WHEN SCALING REPRODUCED PLANS. IN THE EVENT OF A CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWINGS AND/OR SPECIFICATIONS OR CONDITIONS, THE ENGINEER SHALL BE NOTIFIED BY THE CONTRACTOR.
9. ANY DAMAGE TO PRIVATE OR PUBLIC PROPERTIES DUE TO THE CONTRACTOR'S ACTIVITIES SHALL BE REPAIRED AND RESTORED BY THE CONTRACTOR AT THEIR OWN EXPENSE.
10. ALL PROPERTY MARKERS AND STREET LINE MONUMENTS SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION. ANY DAMAGE TO THESE ITEMS SHALL BE REPAIRED AND RESTORED BY A LAND SURVEYOR LICENSED IN THE COMMONWEALTH OF MASSACHUSETTS AT THE CONTRACTOR'S EXPENSE.
11. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ADDITIONAL BENCHMARK INFORMATION IF REQUIRED. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING BENCHMARKS. IF IT IS NECESSARY TO RELOCATE A BENCHMARK, IT SHALL BE RELOCATED BY A MASSACHUSETTS LAND SURVEYOR AND DONE SO AT THE CONTRACTOR'S EXPENSE.
12. ALL PERMITS AND APPROVALS NECESSARY FROM AGENCIES GOVERNING THE WORK SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK.
13. CONSTRUCTION DURING WET WEATHER OR WINTER CONDITIONS IS TO BE ANTICIPATED AND PROVISIONS TO ADEQUATELY ADDRESS THESE CONDITIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
14. ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE REGULATIONS AND STANDARDS INCLUDING THE TOWN, MADOT, MADEP, MWRA, MUTCD, AND AASHTO.
15. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR CONDITIONS AT THE SITE. THESE PLANS, PREPARED BY ALLEN & MAJOR ASSOCIATES DO NOT EXTEND TO OR INCLUDE SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR THEIR EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK, OR THE OWNER'S EMPLOYEES, CUSTOMERS, OR THE GENERAL PUBLIC. THE SEAL OF THE ENGINEER AS INCLUDED IN THE PLAN SET DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED INTO THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PROVIDE THE APPROPRIATE SAFETY SYSTEMS WHICH MAY BE REQUIRED BY THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), STATE, AND LOCAL REGULATIONS.
16. THE CONTRACTOR SHALL CONTACT "DIGSAFE" AND THE TOWN OF READING DEPARTMENT OF PUBLIC WORKS AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST THE LOCATION OF THE EXISTING UTILITIES.
DIGSAFE: 1-800-344-7233
READING DEPT. OF PUBLIC WORKS: 1-781-942-9077
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19. THE PARCELS OF LAND ARE NOT LOCATED WITHIN A FLOOD ZONE AS DEPICTED ON THE LATEST FLOOD INSURANCE RATE MAP.
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PROFESSIONAL ENGINEER FOR
SOMERVILLE ENGINEERING, LLC

REVISIONS

OWNER:

PETER SEIBOLD
437 SUMMER AVENUE
READING, MA 01867

PROJECT:

**DEFINITIVE
SUBDIVISION**
ANNETTE LANE
READING, MA

**SE | SOMERVILLE
ENGINEERING**

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(617)356-8185

WWW.SOMERVILLEENGINEERING.COM

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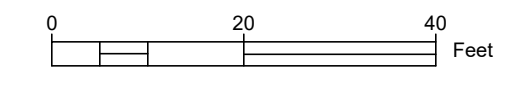
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DATE:	8/14/2023
SCALE:	1"=20'
PROJECT #:	202304-01
DRAWN BY:	CMQ

TITLE:	SHEET:
ROADWAY IMPROVEMENT PLAN	C-101

LEGEND:

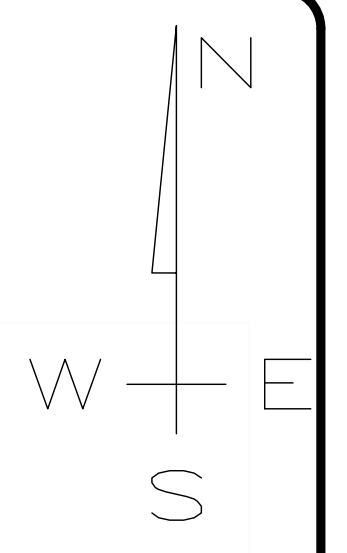
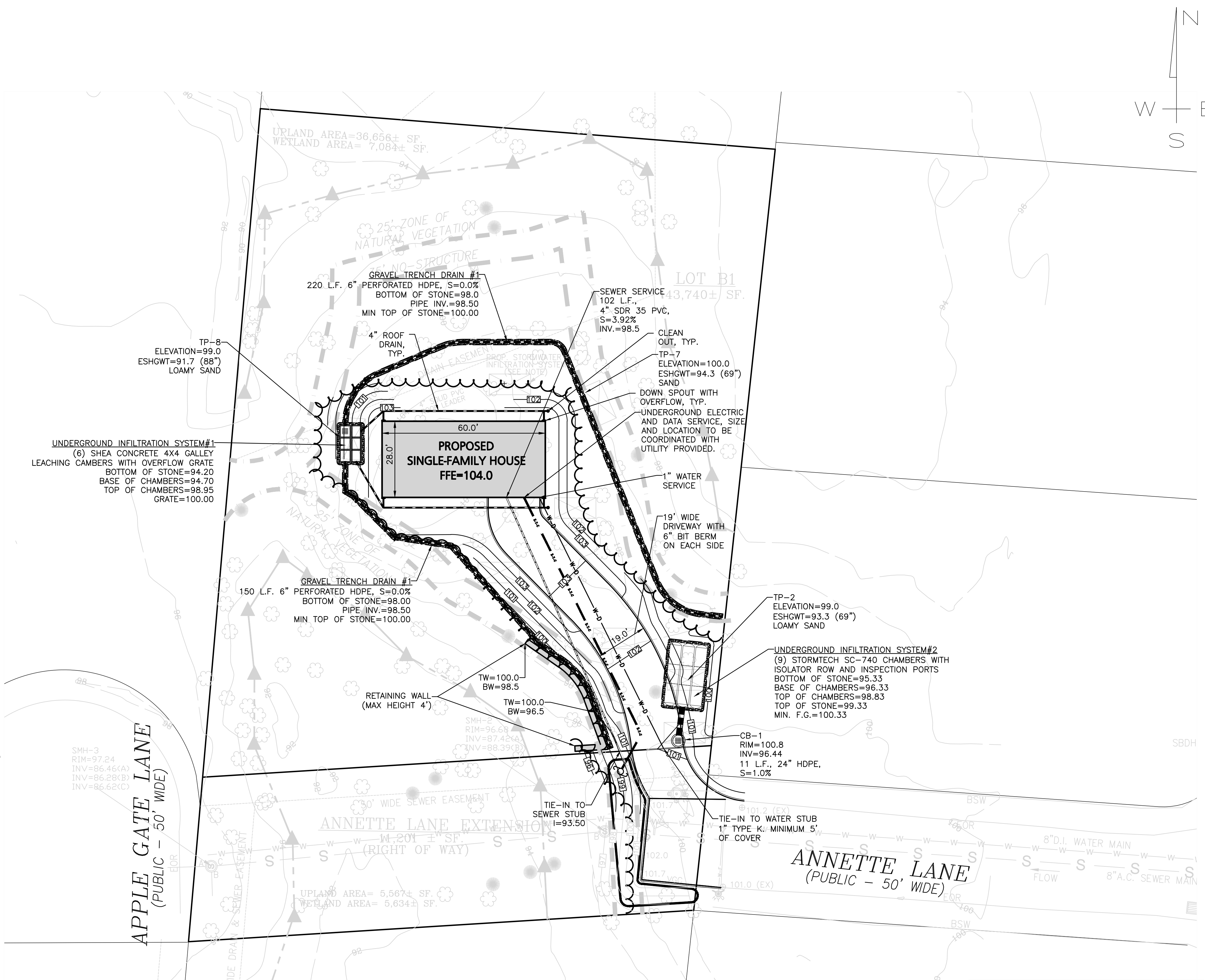
SILT FENCE	—SF—
STRAW WADDLE	— . . . —
SNOW STORAGE	— [] —
WETLAND BUFFER 25'	— [] —
WETLAND BUFFER 50'	— [] —
SEWER LINE	— [] —
WATER (FIRE SERVICE)	—W-F—
WATER (DOMESTIC SERVICE)	—W-D—
WATER SHUT OFF	— [] —
WATER (FIRE SERVICE)	— [] —
UTILITY POLE	— [] —
CONTOUR	— [] —
VERTICAL GRANITE CURB (VGC)	— [] —
SPOT GRADE	⊙ 101.2 (EX)



C:\USERS\COUINN\DESKTOP\PROJECT INFO\202304-01\CIVIL\DRAWINGS\202304-01 - SITE IMPROVEMENT PLAN.DWG

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SOMERVILLE ENGINEERING, LLC

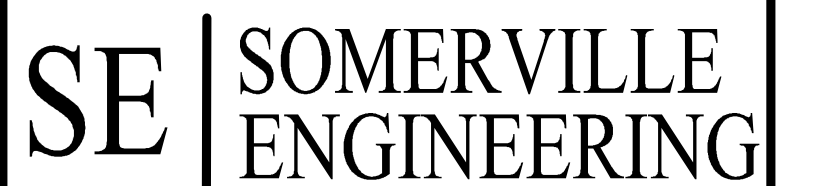
REVISIONS

OWNER:

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PROJECT:

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SUBDIVISION**
ANNETTE LANE
READING, MA



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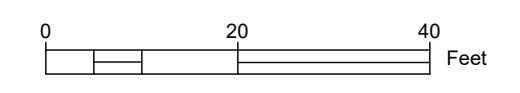
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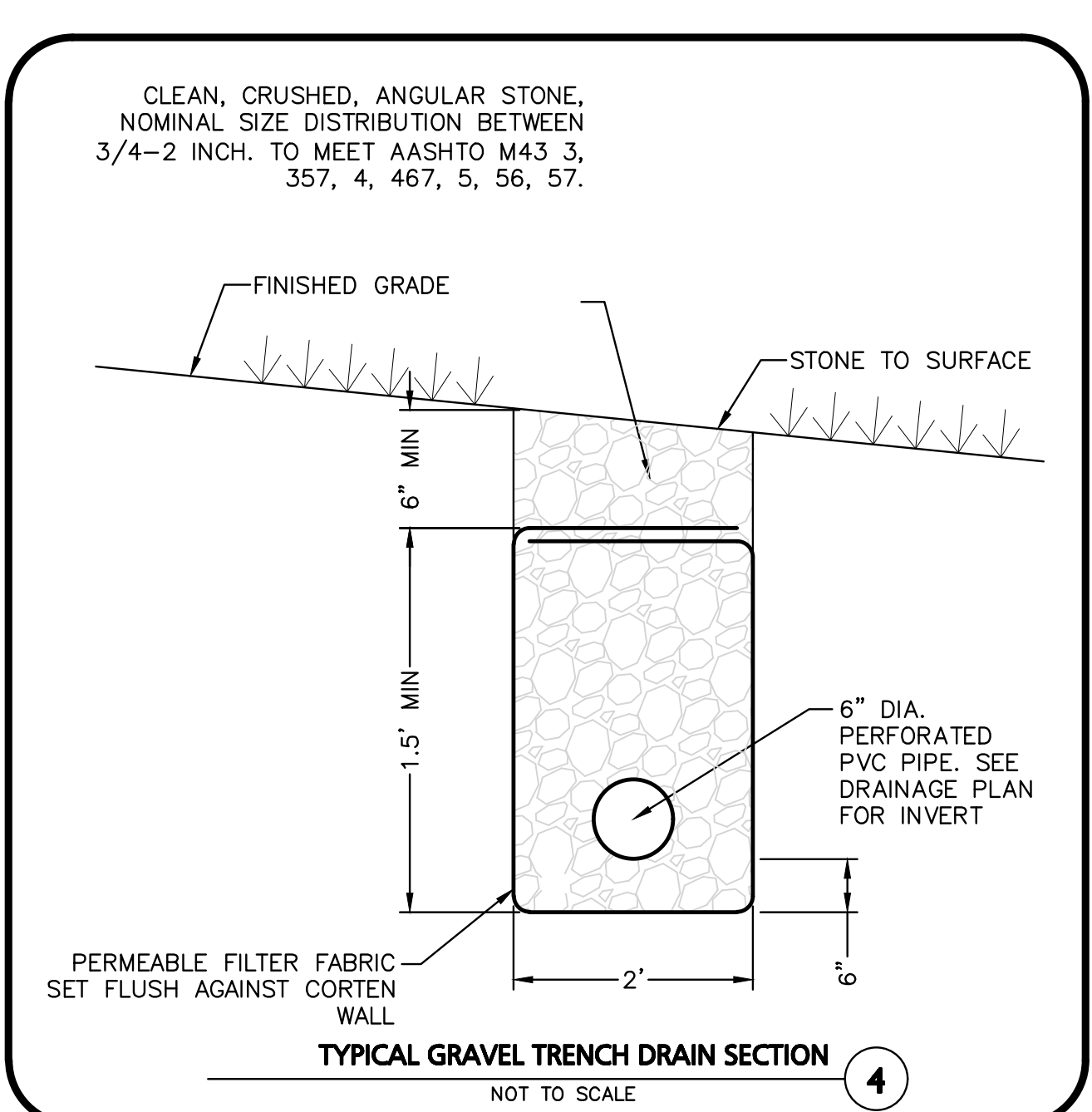
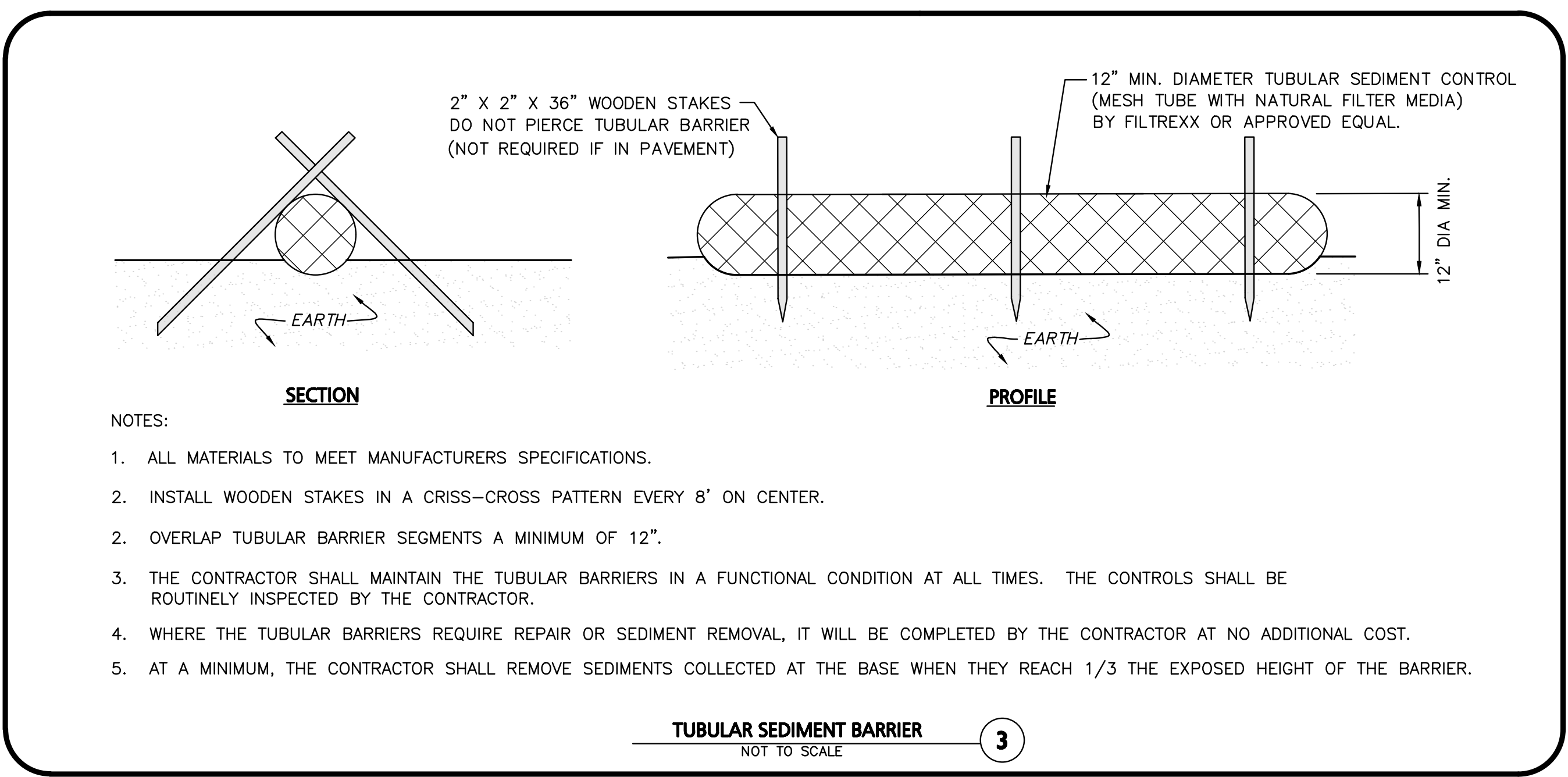
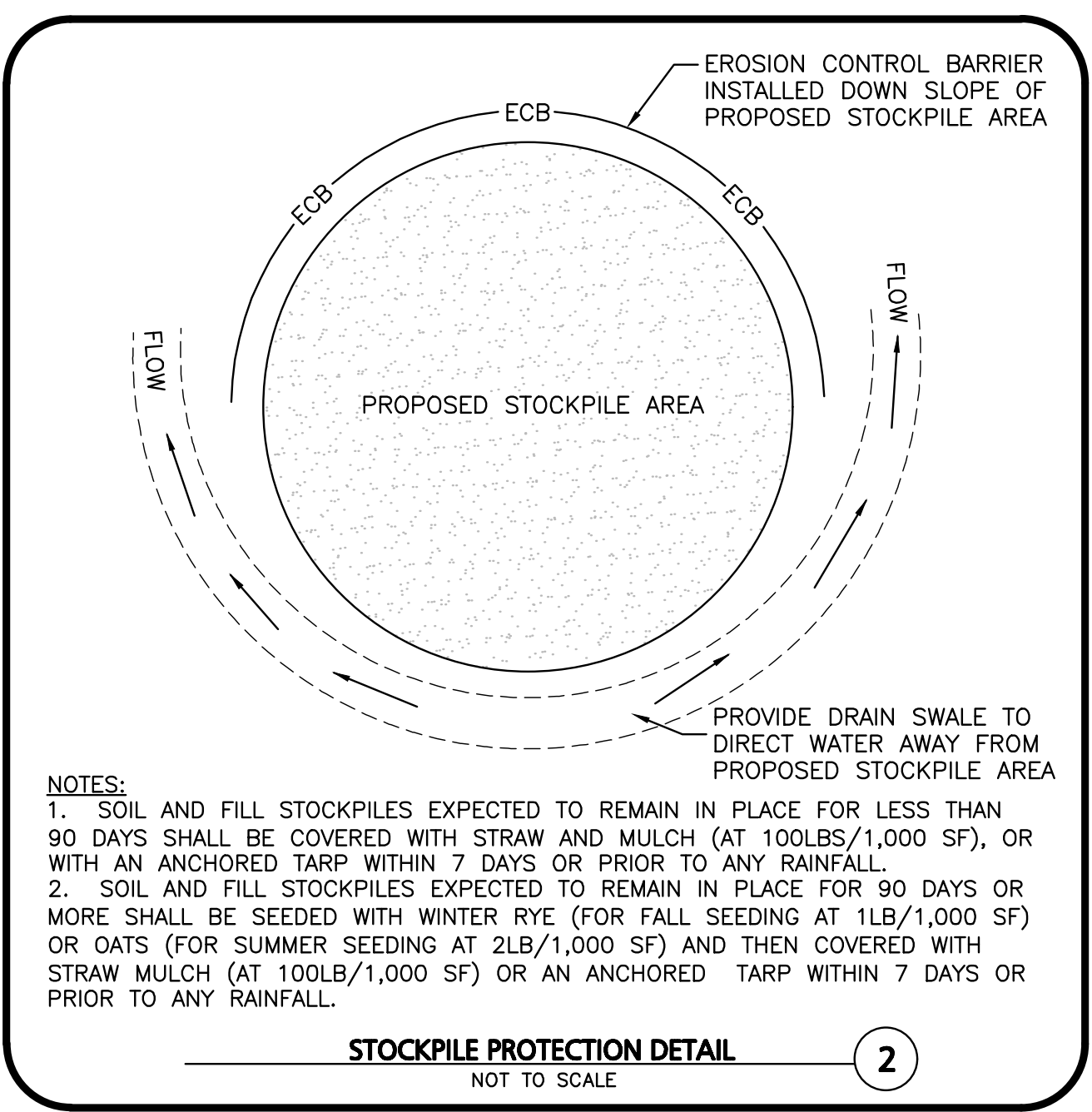
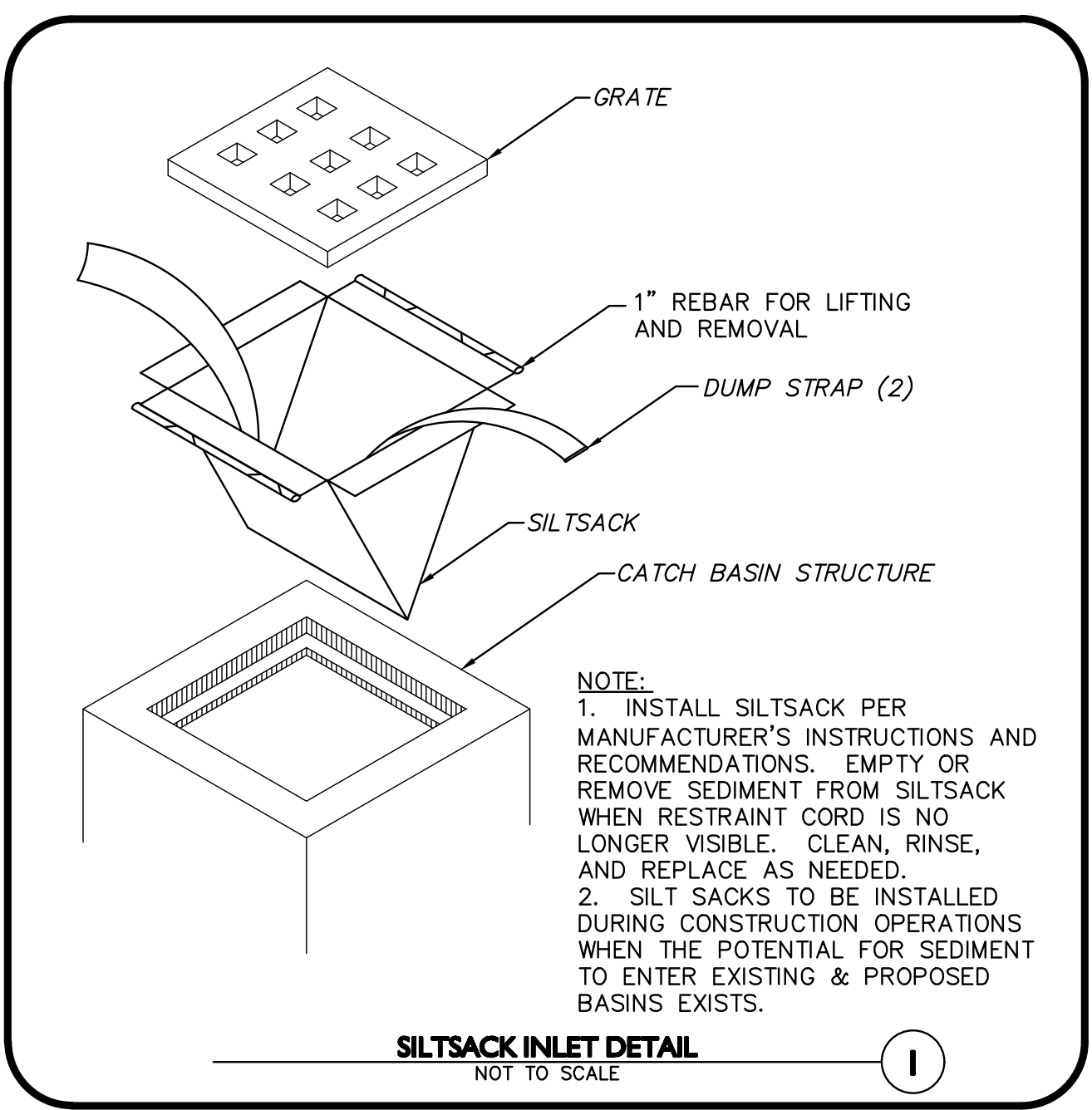
DATE:	8/14/2023
SCALE:	1"=20'
PROJECT #:	202304-01
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TITLE:	SHEET:
SITE IMPROVEMENT PLAN	C-102

LEGEND:

SILT FENCE	—SF—
STRAW WADDLE	—SW—
SNOW STORAGE	—SS—
WETLAND BUFFER 25'	—WB25—
WETLAND BUFFER 50'	—WB50—
SEWER LINE	—S—
WATER (FIRE SERVICE)	—W-F—
WATER (DOMESTIC SERVICE)	—W-D—
WATER SHUT OFF	—WS—
WATER (FIRE SERVICE)	—WF—
UTILITY POLE	—UP—
CONTOUR	—C—

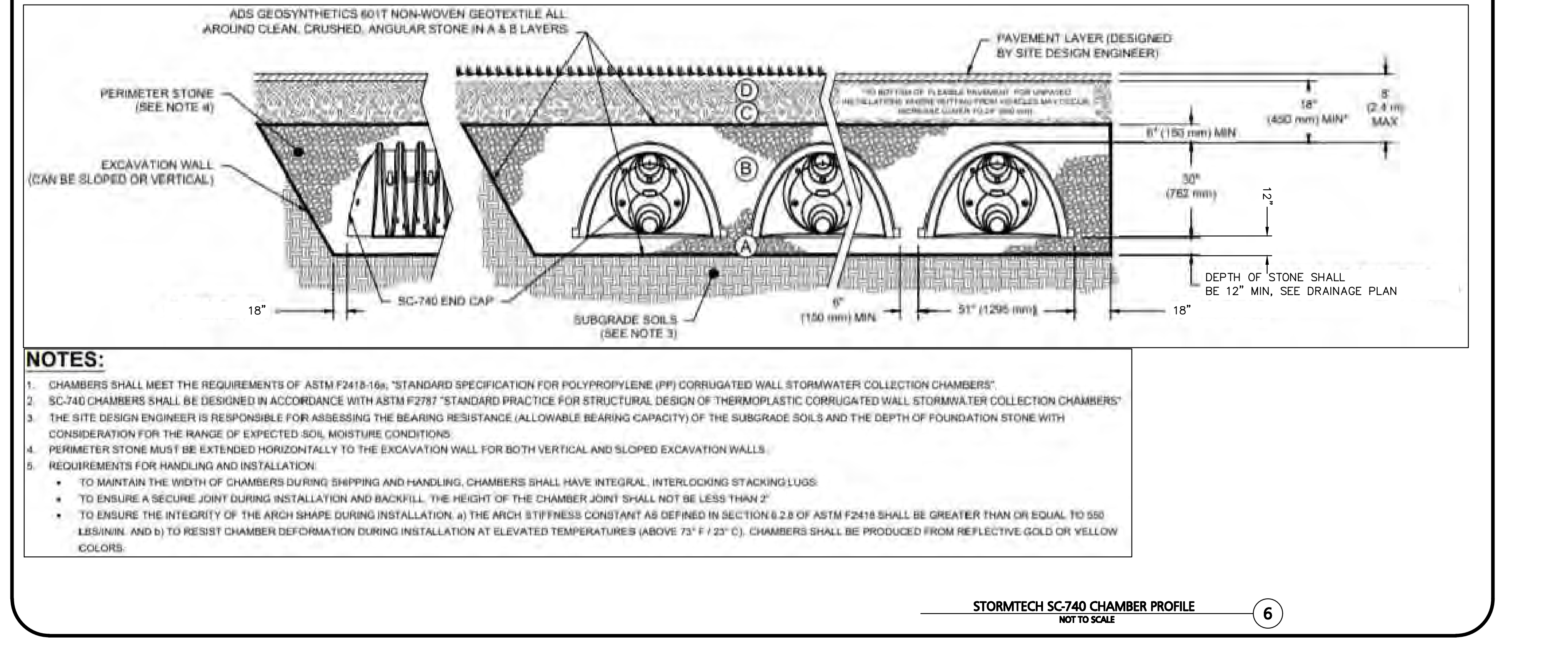
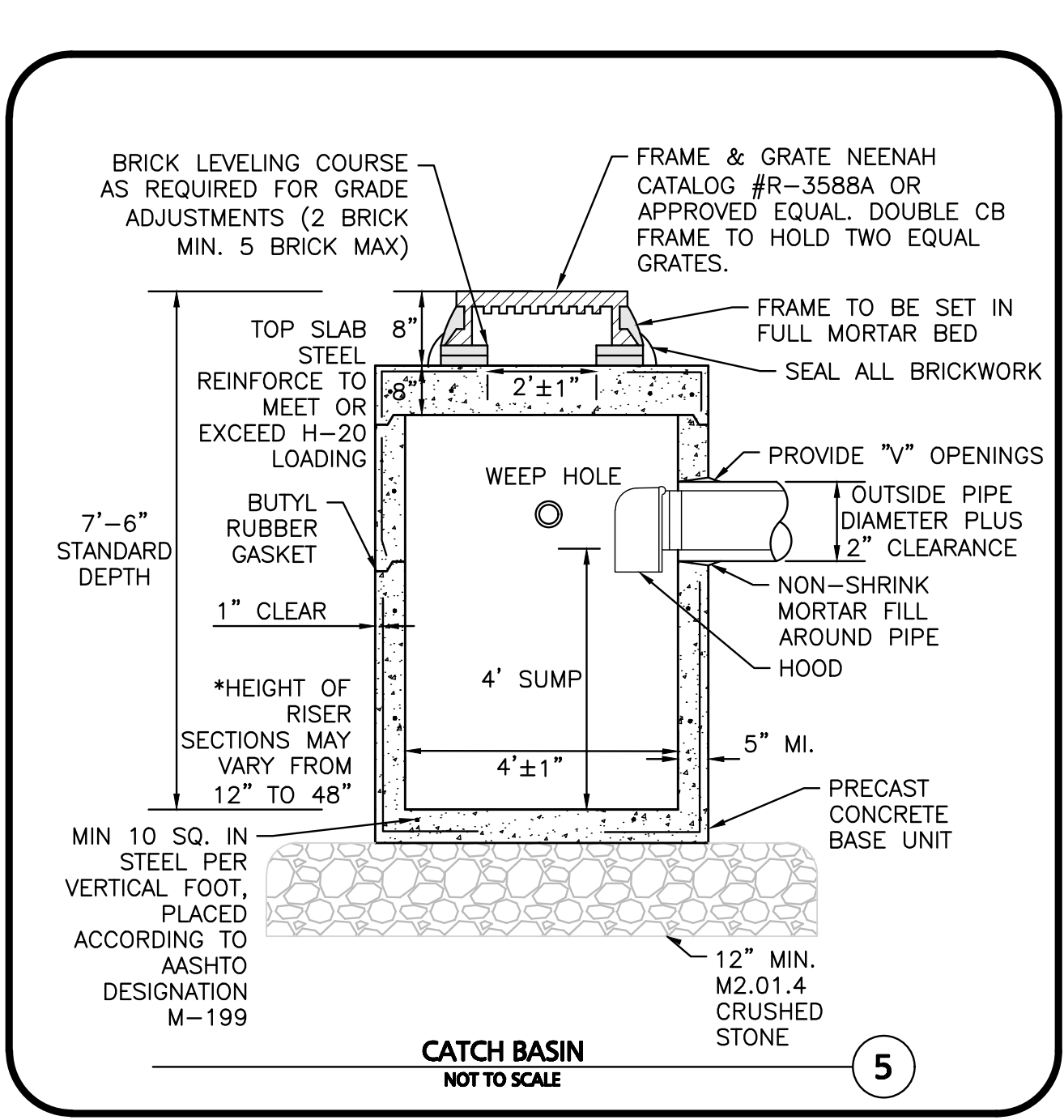




ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	AASHTO M145 A-1, A-2.4, A-3 OR AASHTO M43* 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 8" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43* 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M31* 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE**

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR M4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) MAX LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



8/14/23
COMMONWEALTH OF MASSACHUSETTS
CARLTON M. QUINN
CIVIL
No. 49923
REGISTERED
PROFESSIONAL ENGINEER
Carlton M. Quinn
PROFESSIONAL ENGINEER FOR
SOMERVILLE ENGINEERING, LLC

REVISIONS

OWNER:

PETER SEIBOLD
437 SUMMER AVENUE
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PROJECT:

**DEFINITIVE
SUBDIVISION**
ANNETTE LANE
READING, MA

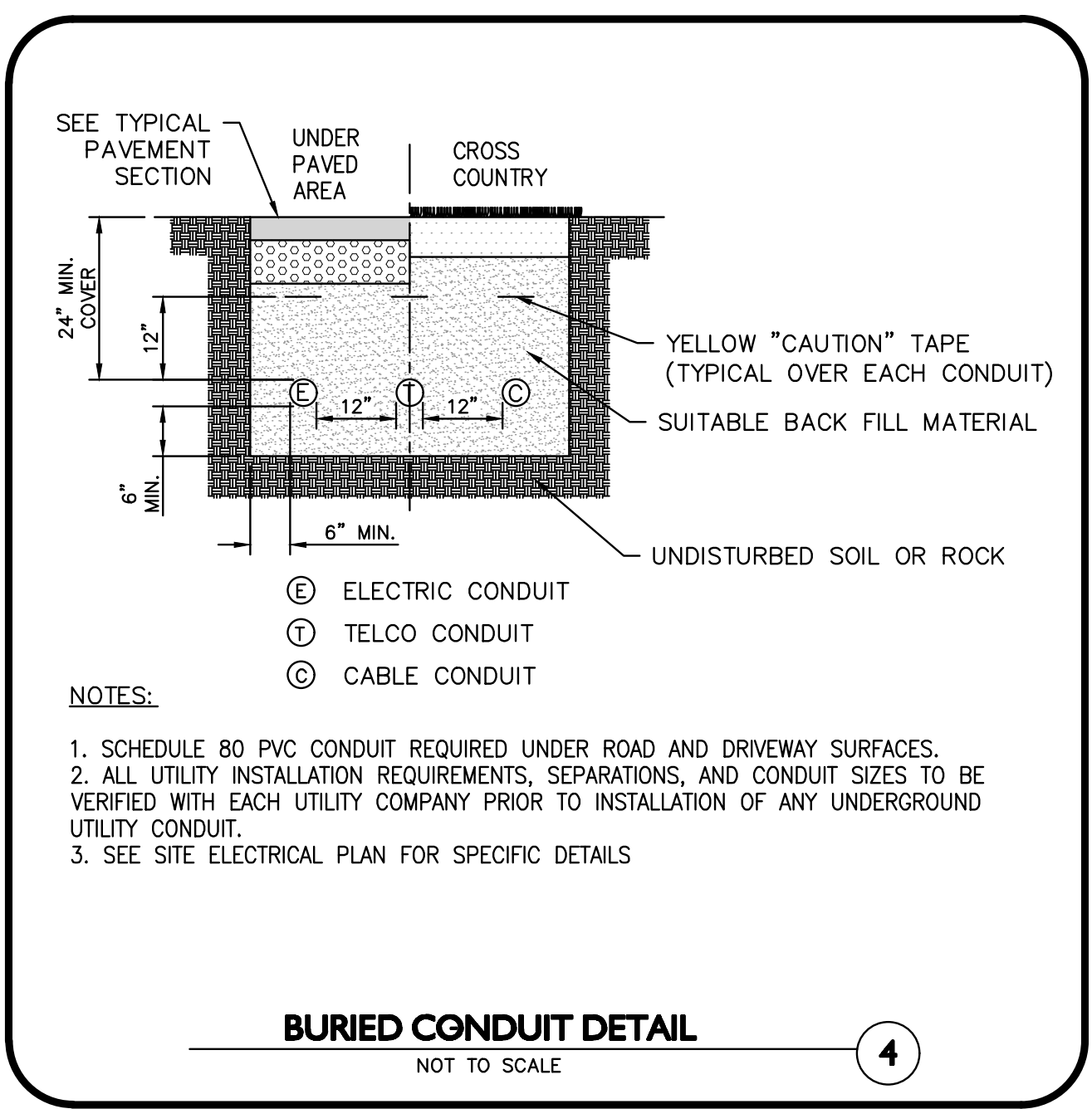
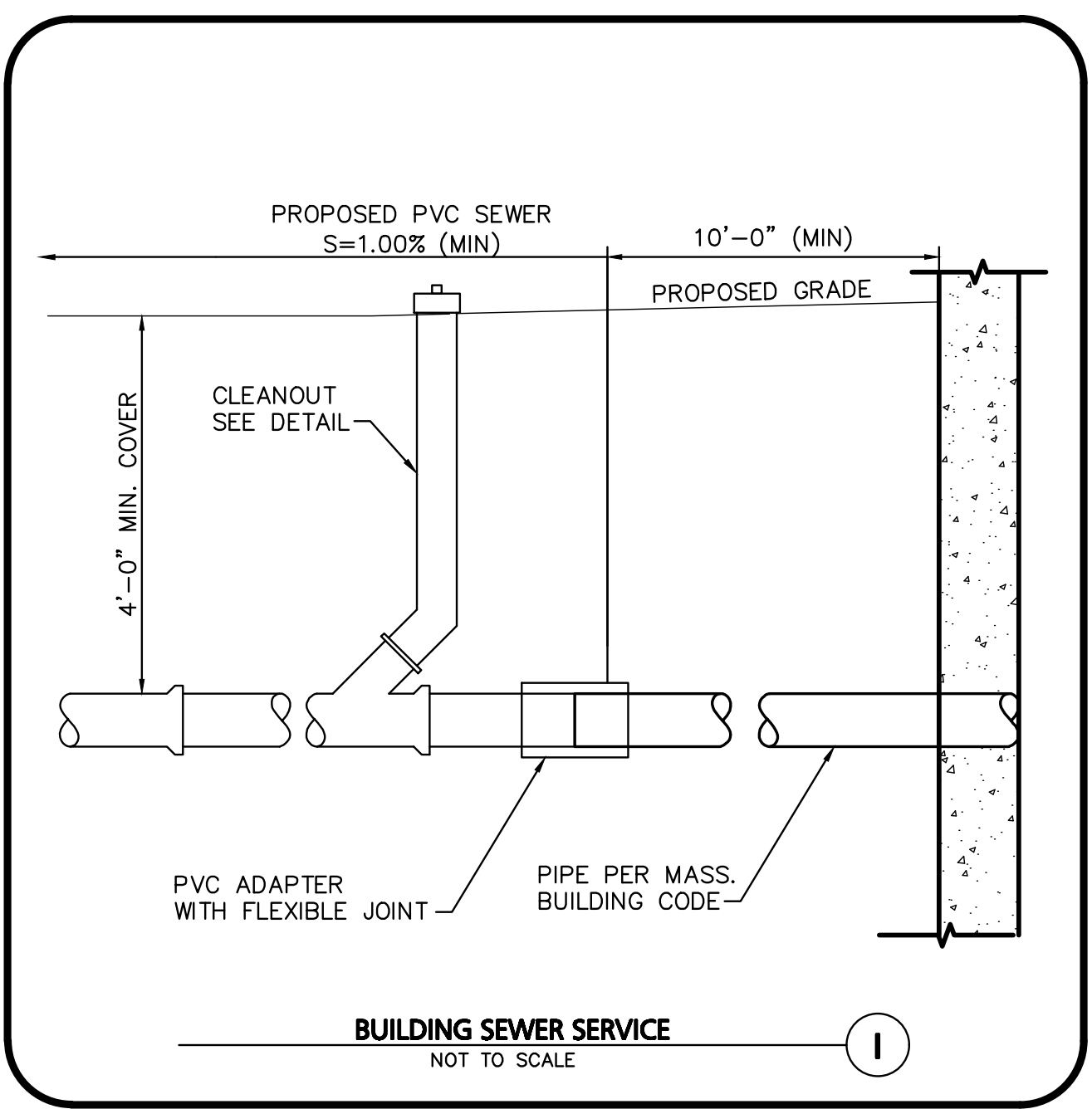
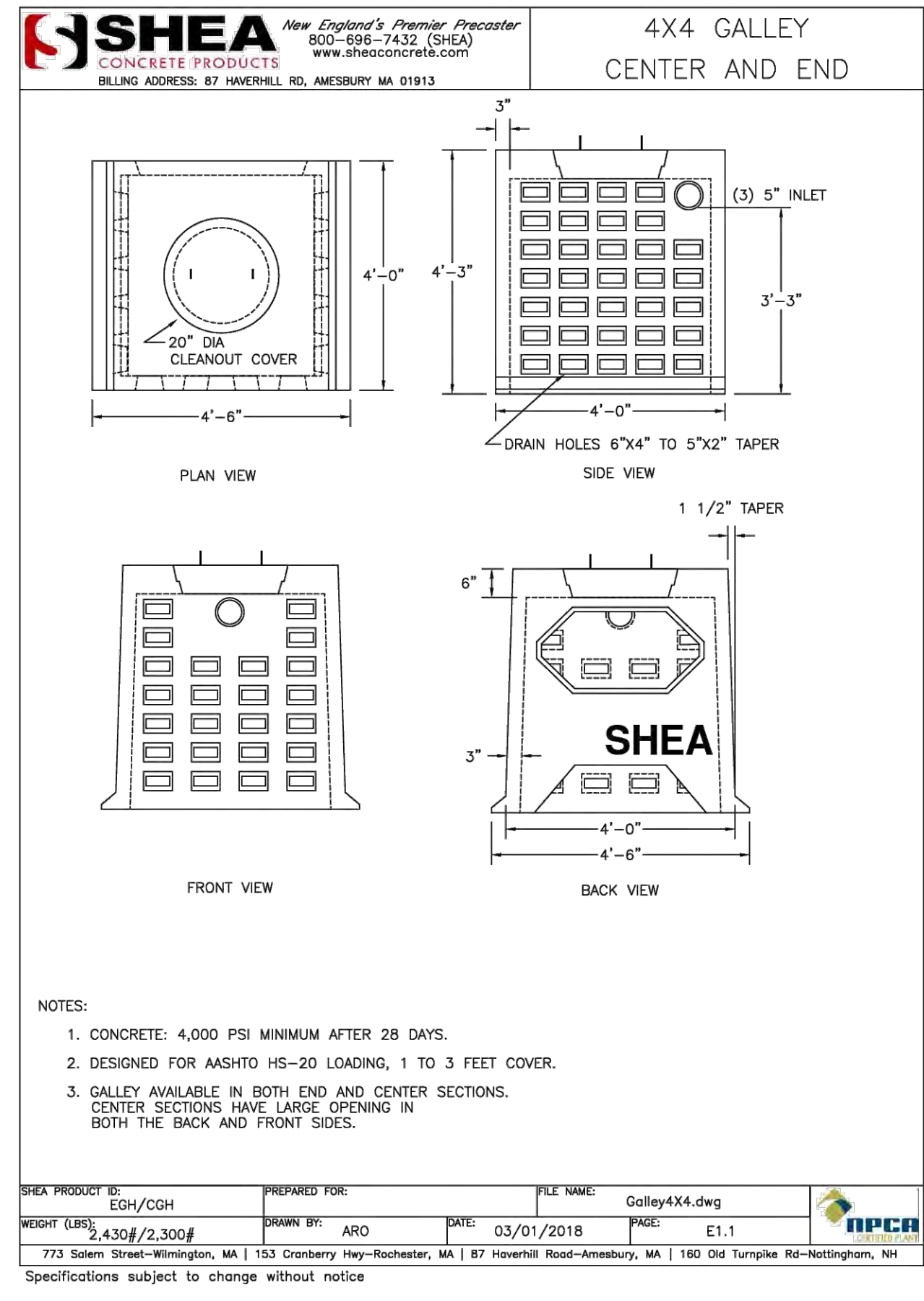
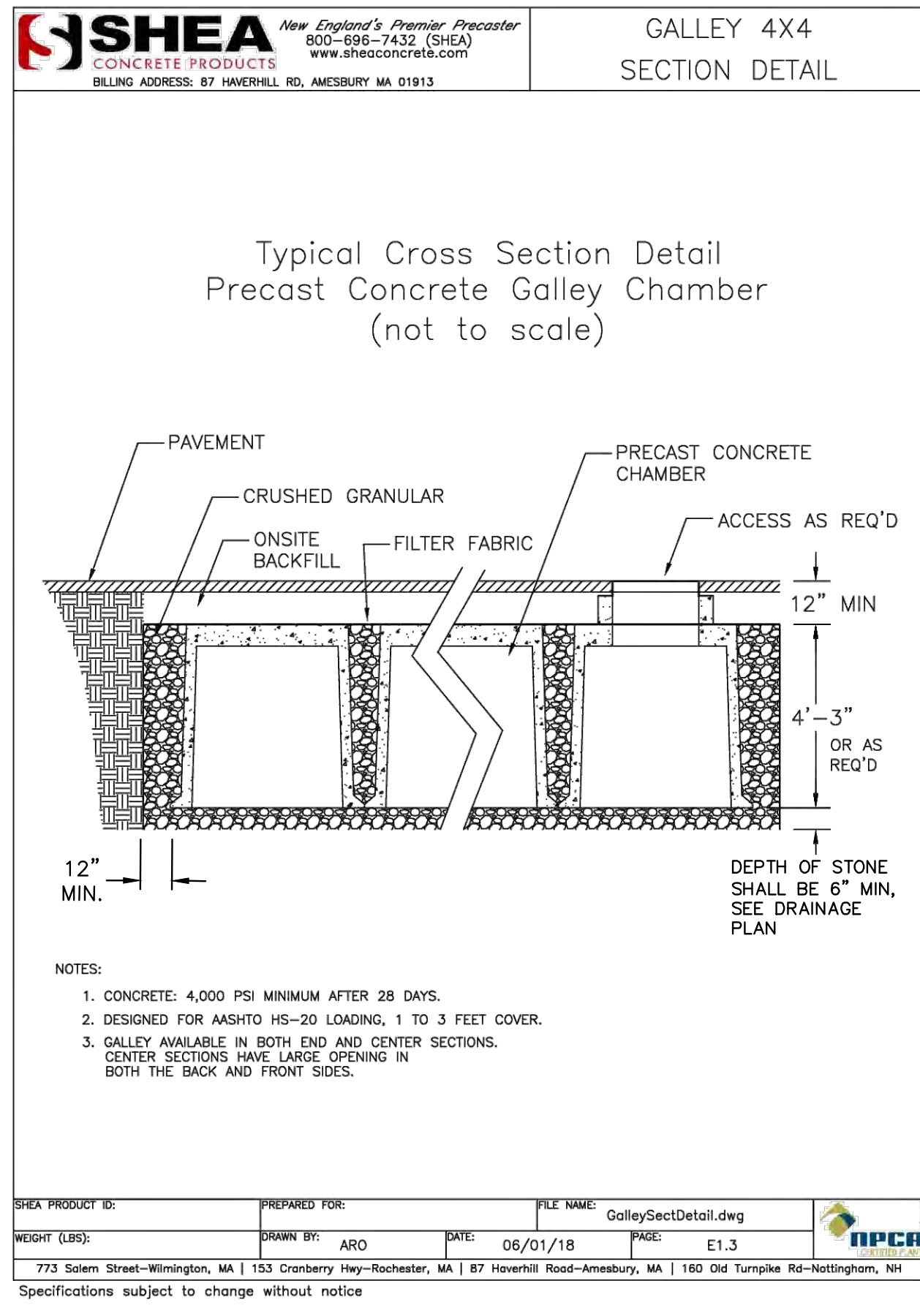
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SHEET:	C-501



8/14/23
 COMMONWEALTH OF MASSACHUSETTS
 CARLTON M. QUINN
 CIVIL
 No. 49923
 REGISTERED PROFESSIONAL ENGINEER
 PROFESSIONAL ENGINEER FOR SOMERVILLE ENGINEERING, LLC

REVISIONS

NO.	DESCRIPTION

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PROJECT:

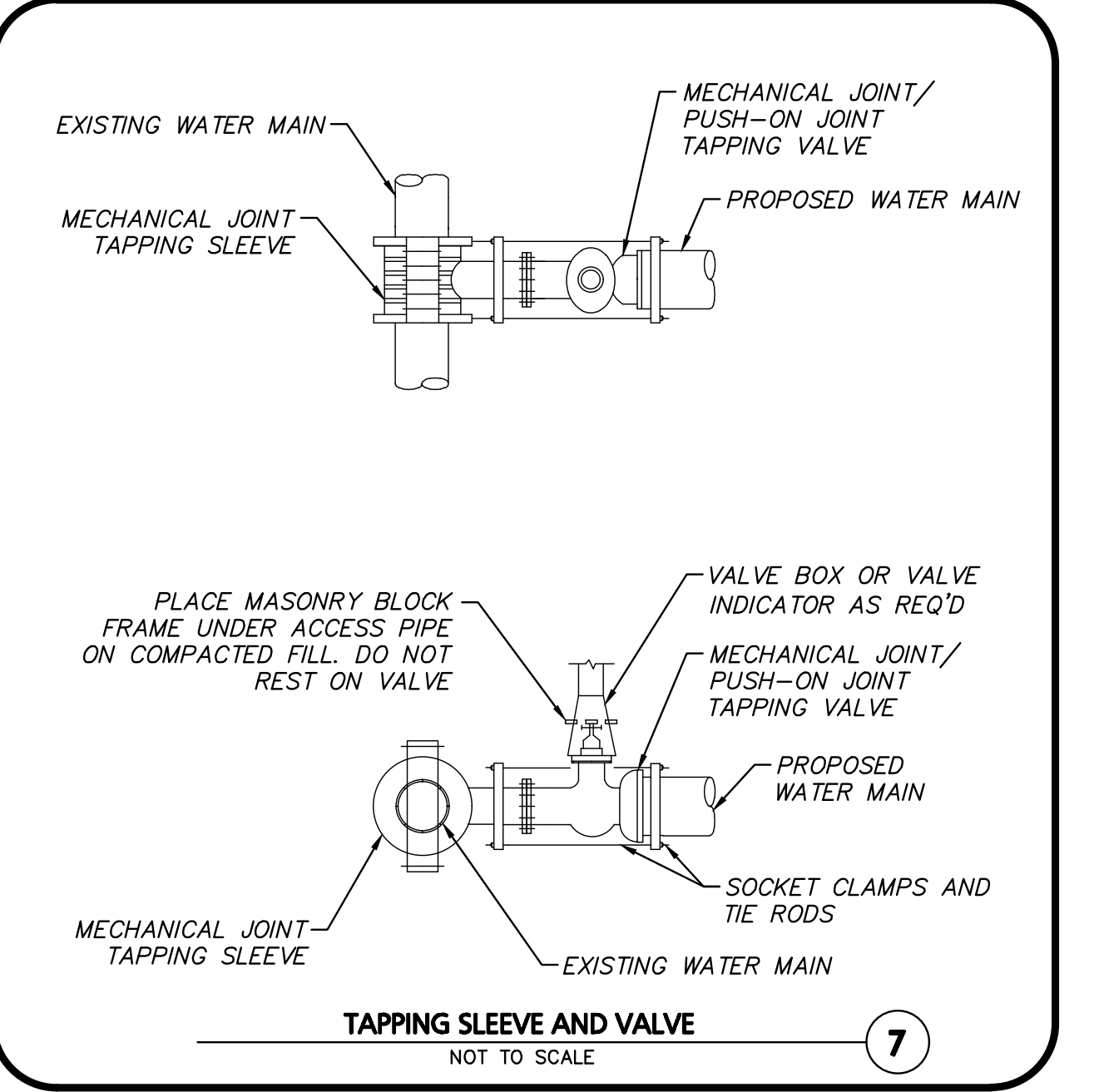
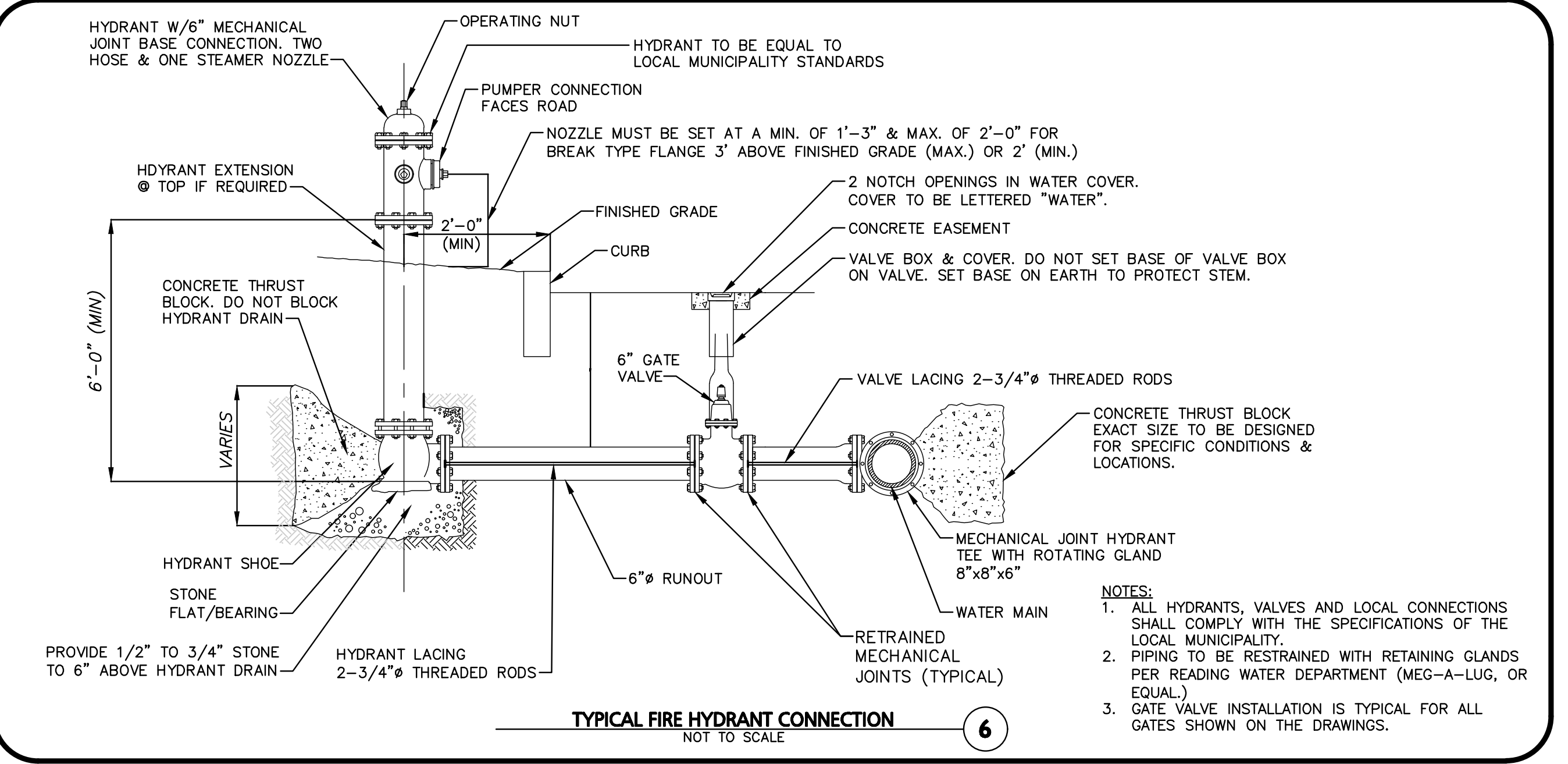
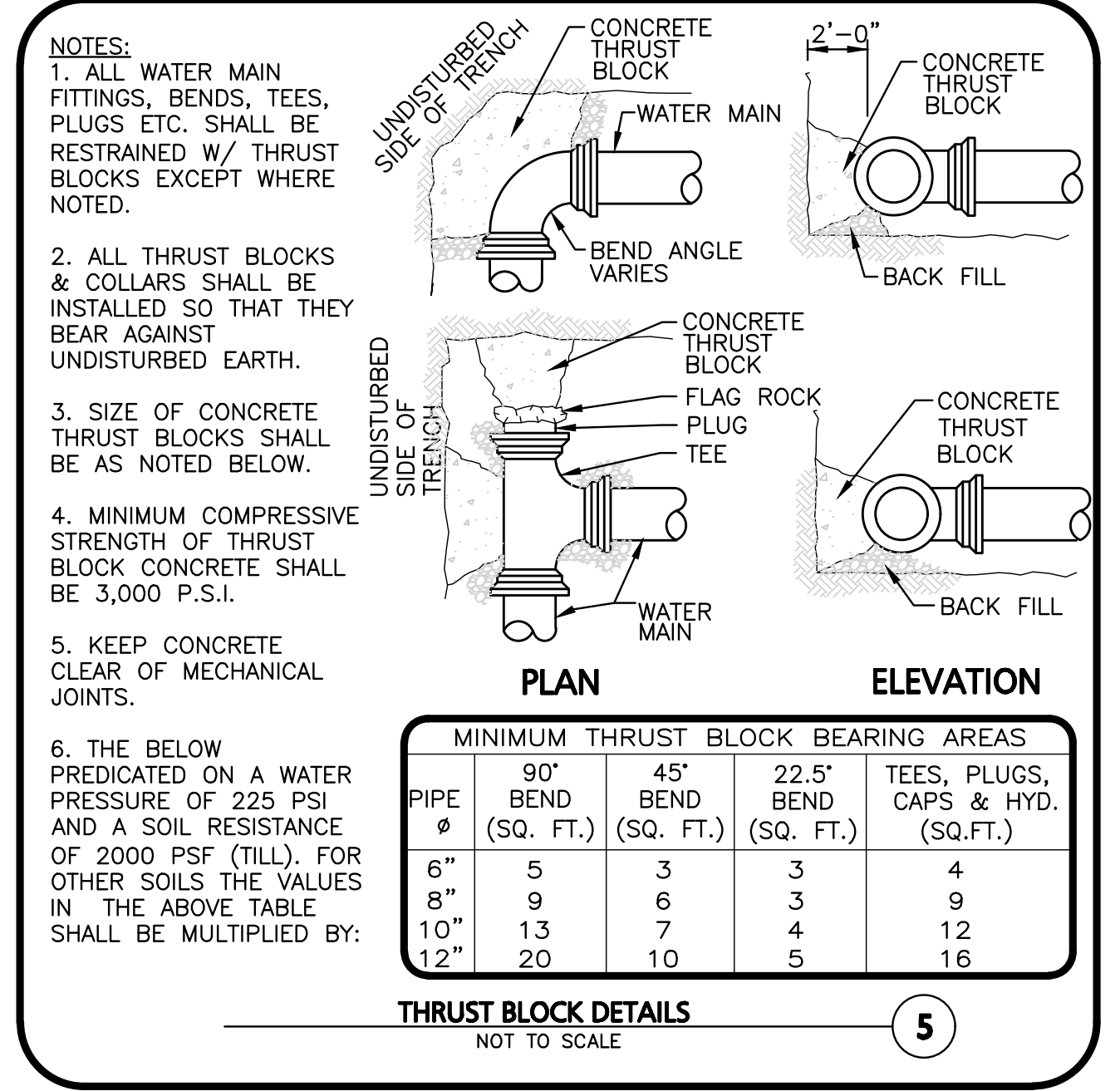
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 READING, MA

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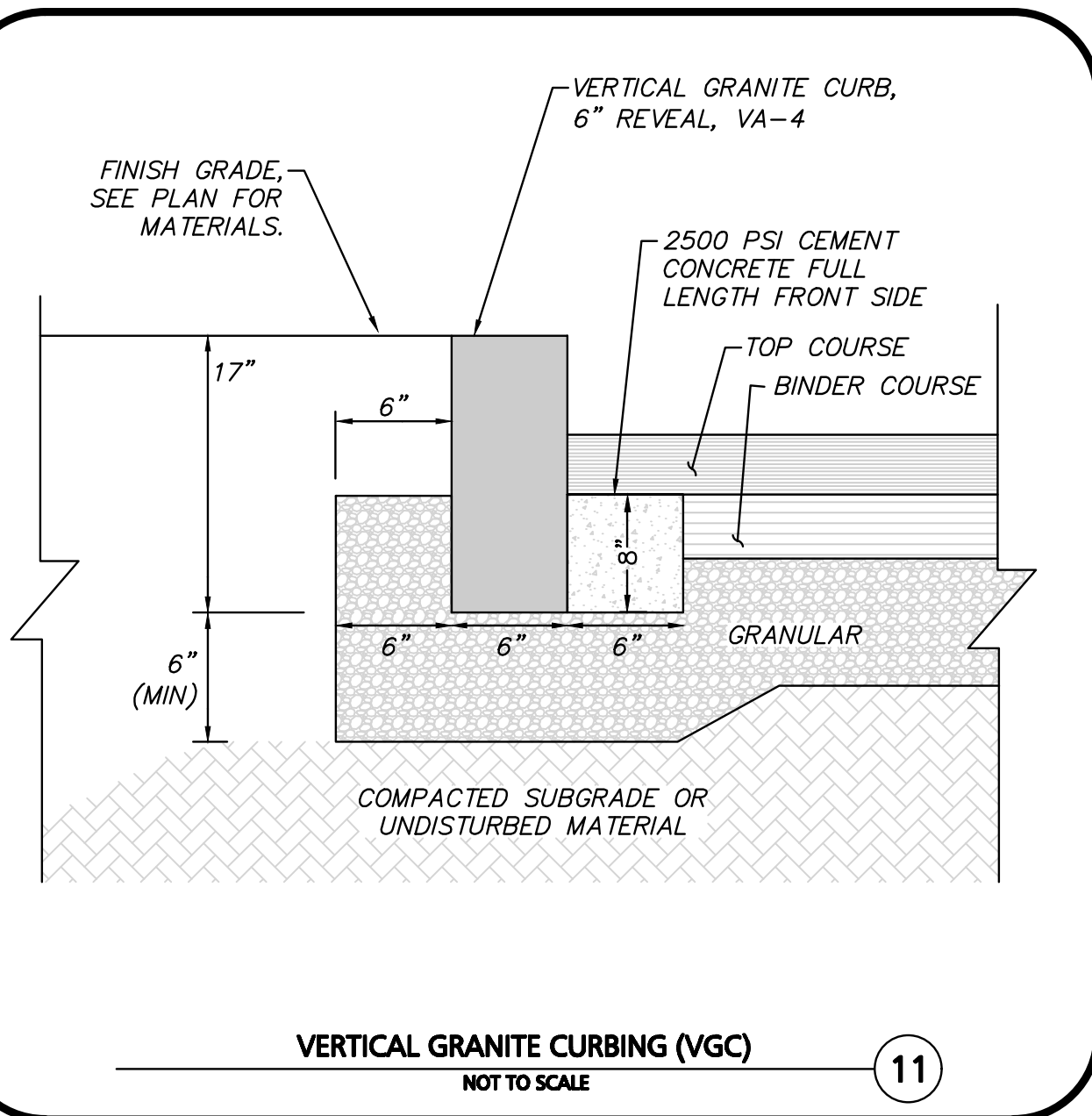
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SHEET:	C-502

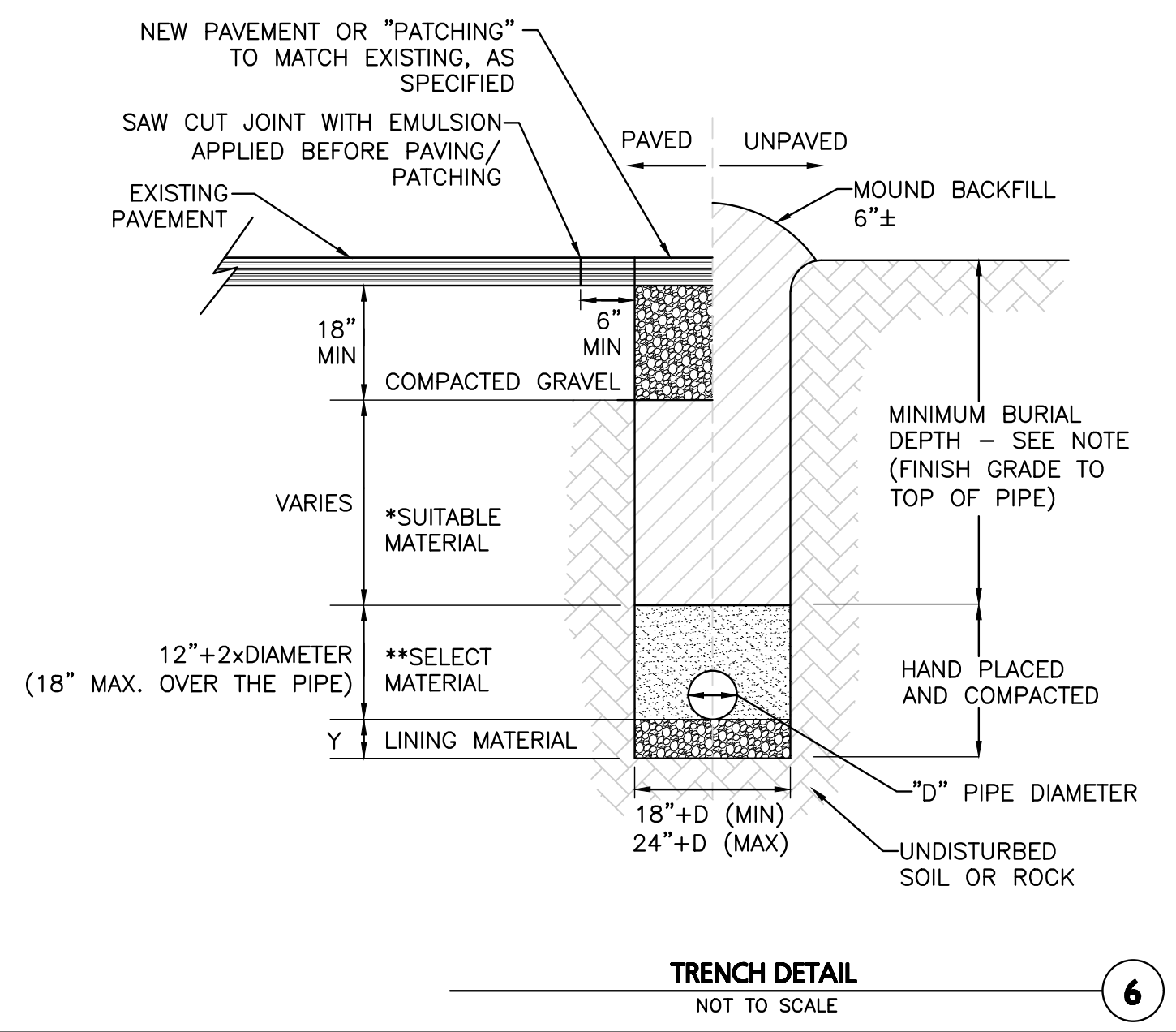


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VERTICAL GRANITE CURBING (VGC)
NOT TO SCALE **11**

- NOTES:**
1. MINIMUM BURIAL DEPTH (FINISH GRADE TO TOP OF PIPE)
GRAVITY PIPE - SEE PLAN OR PROFILE
PRESSURE PIPE UNDER PAVING - 4'
PRESSURE PIPE BENEATH UNPAVED - 3'
 2. WHERE BACKFILL IS DESIGNATED AS COMPACTED, THIS MEANS 90 TO 95% STANDARD PROCTOR - AASHTO T-99. ALL FILL PLACED BELOW PIPES AND STRUCTURES MUST MEET THIS REQUIREMENT.
 3. FOR ALL TRENCHES WITH A GRADE GREATER THAN 4% AND/OR WHERE GROUNDWATER IS APPARENT, INSTALL CLAY DAMS AROUND THE PIPE AT 100' INTERVALS.



TRENCH DETAIL
NOT TO SCALE **6**

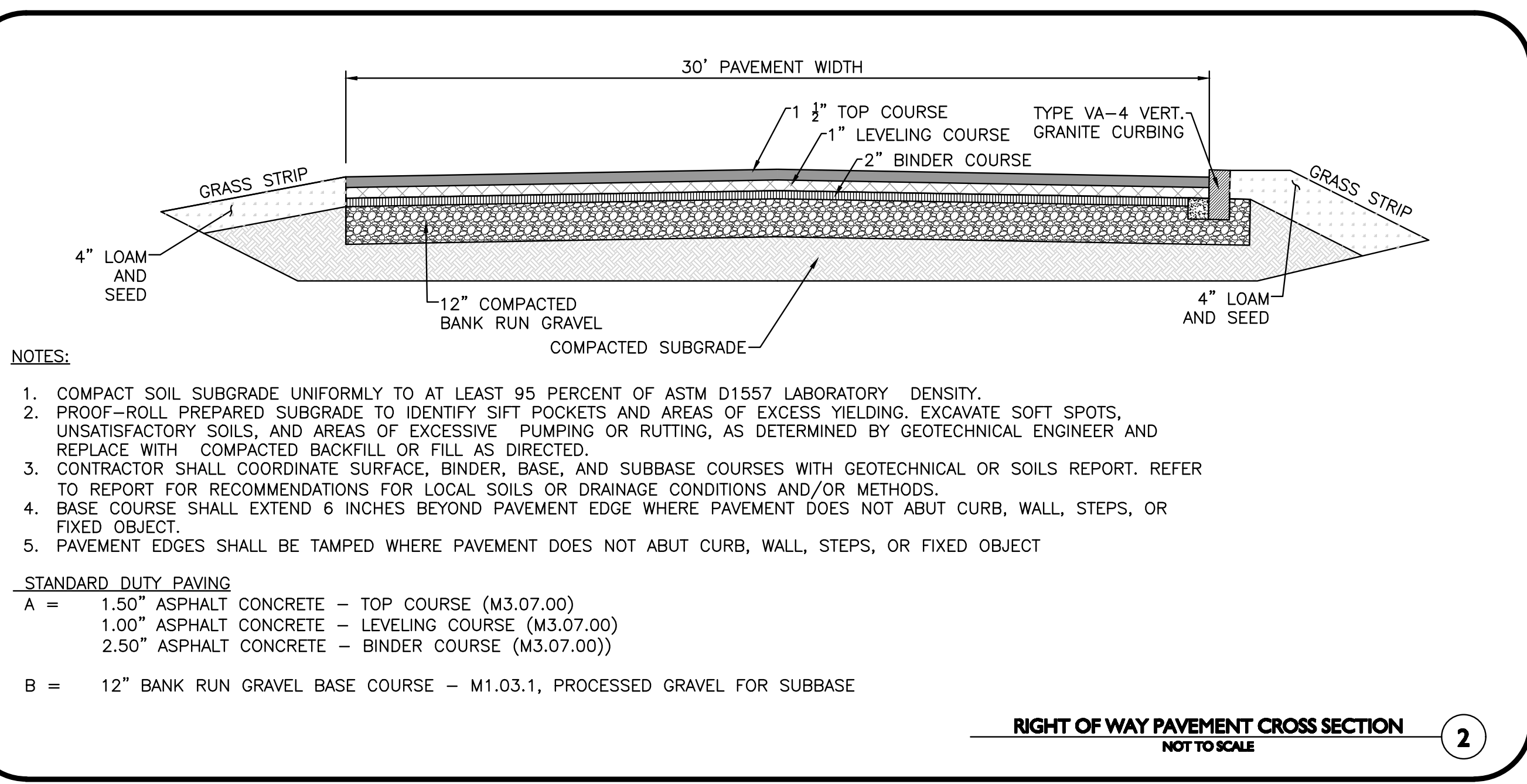
CONDITION & PIPE	**SELECT MATERIAL	LINING MATERIAL	Y-DIMENSION
DUCTILE IRON "ORDINARY SOIL"	TYPE I, II, OR III	SAND OR TYPE III	3"
RCP "ORDINARY SOIL"	TYPE II OR III	SAND OR TYPE III	3"
ALL PIPE OVER BEDROCK OR LEDGE	TYPE II OR III	SAND OR TYPE III	8"
DUCTILE IRON IN CLAY OR MUCK	TYPE II OR III	SAND	4"
RCP IN CLAY	TYPE II OR III	SAND	8"
ALL PLASTICS	TYPE III	SAND OR TYPE III	6"

* SUITABLE MATERIAL SHALL CONTAIN NO STONE GREATER THAN 4" IN DIAMETER, NO FROZEN LUMPS, AND ONLY MINOR AMOUNTS OF CLAY OR ORGANIC MATERIAL. ALL MATERIAL TO BE PLACED IN MAX 12" LIFTS AND COMPACTED BEFORE PLACING NEXT LIFT.

**TYPE I MATERIAL SHALL BE EITHER GRAVEL OR EXCAVATED MATERIAL CONTAINING NO STONES GREATER THAN 1.5" DIAMETER, NO FROZEN LUMPS, CLAY OR ORGANIC MATERIAL.

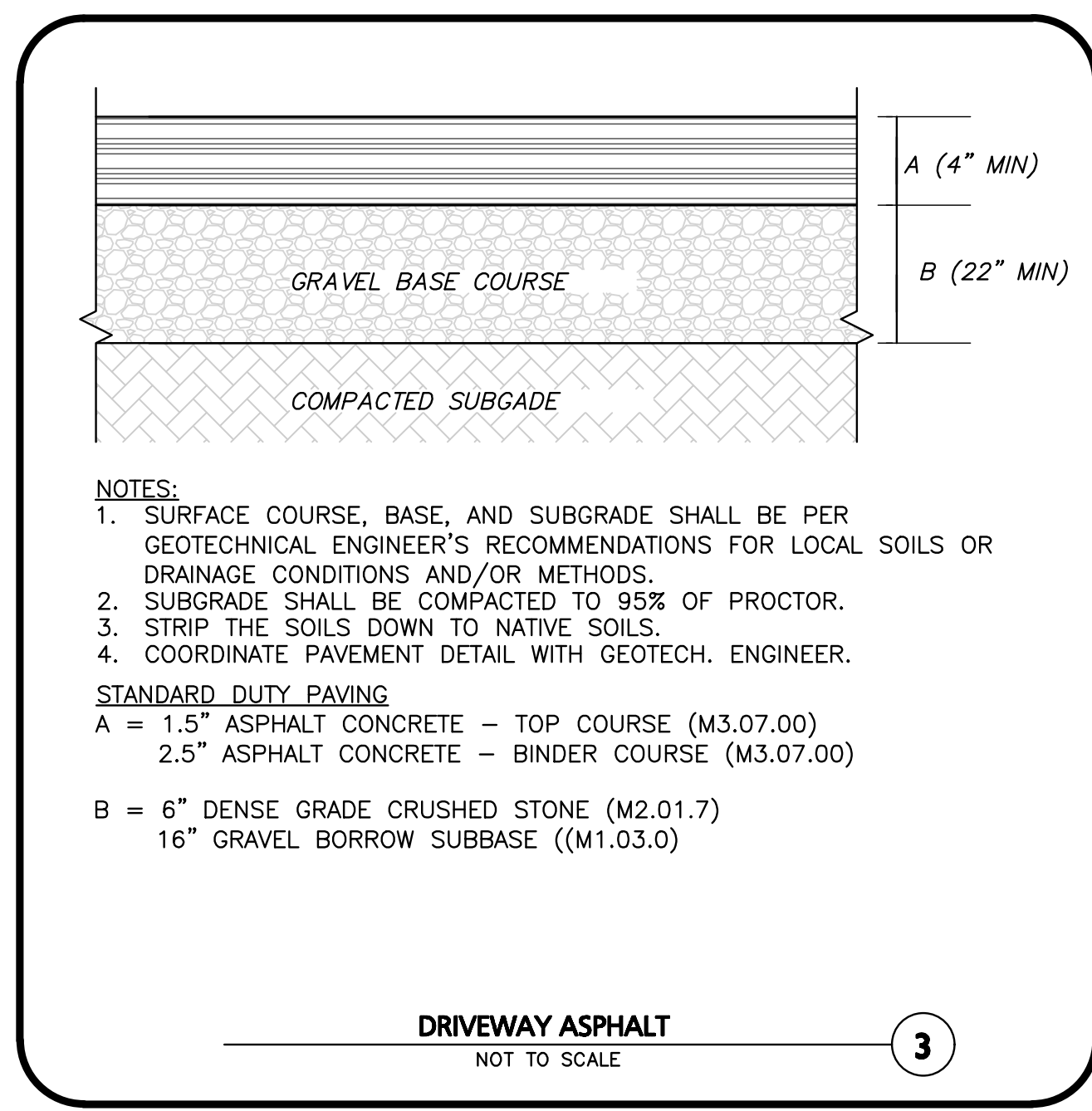
**TYPE II MATERIAL SHALL BE CLEAN, HARD, CRUSHED OR NATURAL STONE WITH A GRADATION BY WEIGHT OF 100% PASSING A 1.5" SQUARE OPENING, NOT MORE THAN 25% PASSING A 3/4" OPENING, AND NOT MORE THAN 5% PASSING A 1/2" SQUARE OPENING.

**TYPE III MATERIAL SHALL BE CLEAN, HARD, CRUSHED STONE FREE FROM COATINGS AND THOROUGHLY WASHED WITH A GRADATION BY WEIGHT OF 100% PASSING A 1" SQUARE OPENING, AND 0 TO 5% PASSING A 3/4" SQUARE OPENING.



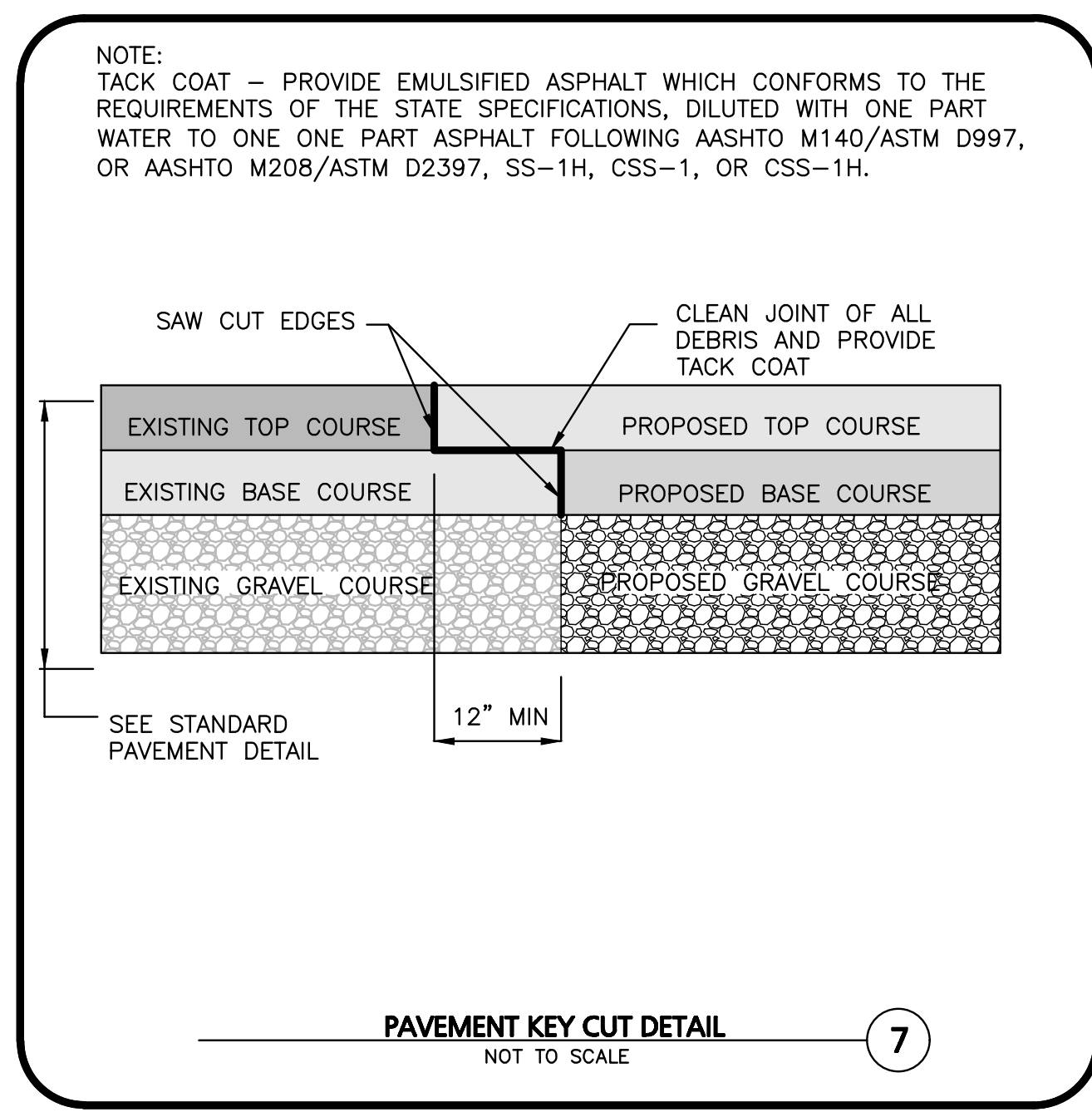
- NOTES:**
1. COMPACT SOIL SUBGRADE UNIFORMLY TO AT LEAST 95 PERCENT OF ASTM D1557 LABORATORY DENSITY.
 2. PROOF-ROLL PREPARED SUBGRADE TO IDENTIFY SIFT POCKETS AND AREAS OF EXCESS YIELDING. EXCAVATE SOFT SPOTS, UNSATISFACTORY SOILS, AND AREAS OF EXCESSIVE PUMPING OR RUTTING, AS DETERMINED BY GEOTECHNICAL ENGINEER AND REPLACE WITH COMPACTED BACKFILL OR FILL AS DIRECTED.
 3. CONTRACTOR SHALL COORDINATE SURFACE, BINDER, BASE, AND SUBBASE COURSES WITH GEOTECHNICAL OR SOILS REPORT. REFER TO REPORT FOR RECOMMENDATIONS FOR LOCAL SOILS OR DRAINAGE CONDITIONS AND/OR METHODS.
 4. BASE COURSE SHALL EXTEND 6 INCHES BEYOND PAVEMENT EDGE WHERE PAVEMENT DOES NOT ABUT CURB, WALL, STEPS, OR FIXED OBJECT.
 5. PAVEMENT EDGES SHALL BE TAMPED WHERE PAVEMENT DOES NOT ABUT CURB, WALL, STEPS, OR FIXED OBJECT
- STANDARD DUTY PAVING**
- A = 1.50" ASPHALT CONCRETE - TOP COURSE (M3.07.00)
1.00" ASPHALT CONCRETE - LEVELING COURSE (M3.07.00)
2.50" ASPHALT CONCRETE - BINDER COURSE (M3.07.00))
- B = 12" BANK RUN GRAVEL BASE COURSE - M1.03.1, PROCESSED GRAVEL FOR SUBBASE

RIGHT OF WAY PAVEMENT CROSS SECTION
NOT TO SCALE **2**



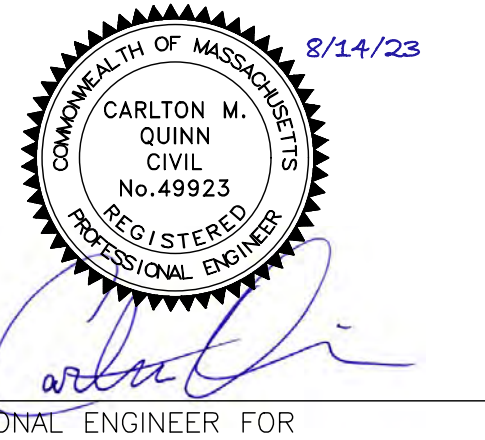
- NOTES:**
1. SURFACE COURSE, BASE, AND SUBGRADE SHALL BE PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS FOR LOCAL SOILS OR DRAINAGE CONDITIONS AND/OR METHODS.
 2. SUBGRADE SHALL BE COMPACTED TO 95% OF PROCTOR.
 3. STRIP THE SOILS DOWN TO NATIVE SOILS.
 4. COORDINATE PAVEMENT DETAIL WITH GEOTECH. ENGINEER.
- STANDARD DUTY PAVING**
- A = 1.5" ASPHALT CONCRETE - TOP COURSE (M3.07.00)
2.5" ASPHALT CONCRETE - BINDER COURSE (M3.07.00)
- B = 6" DENSE GRADE CRUSHED STONE (M2.01.7)
16" GRAVEL BORROW SUBBASE ((M1.03.0)

DRIVEWAY ASPHALT
NOT TO SCALE **3**



NOTE:
TACK COAT - PROVIDE EMULSIFIED ASPHALT WHICH CONFORMS TO THE REQUIREMENTS OF THE STATE SPECIFICATIONS, DILUTED WITH ONE PART WATER TO ONE PART ASPHALT FOLLOWING AASHTO M140/ASTM D997, OR AASHTO M208/ASTM D2397, SS-1H, CSS-1, OR CSS-1H.

PAVEMENT KEY CUT DETAIL
NOT TO SCALE **7**



PROFESSIONAL ENGINEER FOR
SOMERVILLE ENGINEERING, LLC

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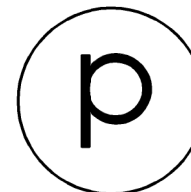
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TITLE:	SHEET:
DETAILS	C-503



phoenix
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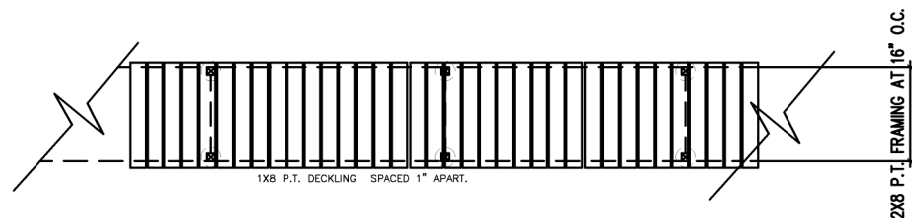
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CONTRACTOR TO REPORT
CHANGES AND OMISSIONS TO
ARCHITECT.

SEIBOLD WALKWAY

ANNETTE LANE
READING, MA



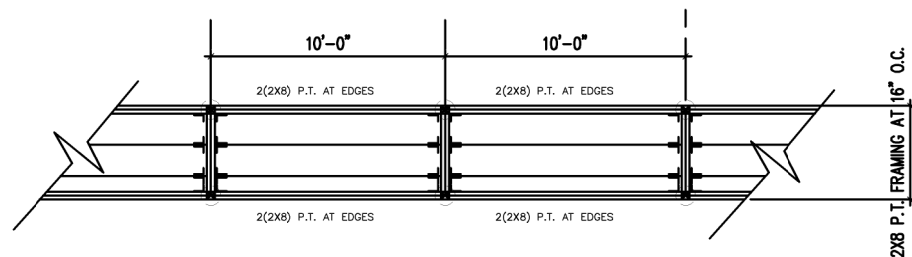
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FORMS SUPPORT RAILS



PROPOSED PLAN
SCALE: 1/4" = 1'-0"

BASED ON 20'-0" SECTION OF 142' WALKWAY

NOTE: PILES ARE SPACE AT 10' INCREMENTS 2(2X8) PT FRAMING ABOVE
FORMS SUPPORT RAILS

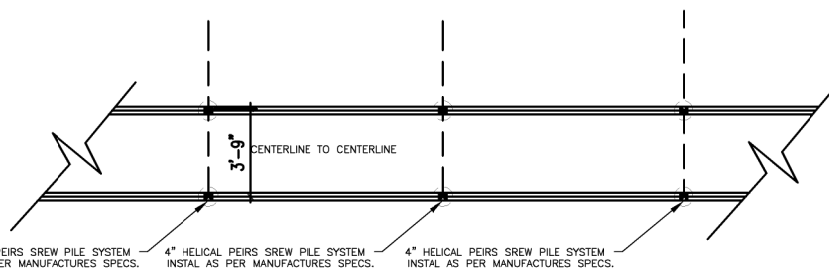


PROPOSED FRAMING PLAN
SCALE: 1/4" = 1'-0"

BASED ON 20'-0" SECTION OF 142' WALKWAY

PROPOSED FRAMING PLAN
SCALE: 1/4" = 1'-0"

NOTE: PILES ARE SPACE AT 10' INCREMENTS 2(2X8) PT FRAMING ABOVE
FORMS SUPPORT RAILS



4" HELICAL PEIRS SREW PILE SYSTEM
INSTAL AS PER MANUFACTURES SPECS.

PROPOSED FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

BASED ON 20'-0" SECTION OF 142' WALKWAY



PROPOSED HELICAL PILE
SCALE: NTS

4		
3		
2		
1		
No.	Revision/Issue	Date

1/4"=1'-0"

10.13.23