

# SITE PLAN FOR SHELDON MEADOW 20 HANCOCK STREET WRENTHAM, MA 02093

TOWN OF WRENTHAM – PLANNING BOARD	
SIGNATURE	DATE

**HOWARD STEIN HUDSON**  
114 Turnpike Road, Suite 2C  
Chelmsford, MA 01824  
www.hshassoc.com

PREPARED FOR:  
SHELDON MEADOW, LLC.  
480 TURNPIKE STREET  
SOUTH EASTON, MA 02375

**SHELDON MEADOW  
20 HANCOCK STREET  
WRENTHAM, MA 02093  
NORFOLK COUNTY**

**GENERAL NOTES:**

- EXISTING PROPERTY LINE AND UTILITY INFORMATION SHOWN IS BASED ON AN EXISTING SURVEY CONDUCTED BY WSP, USA DATED FEBRUARY 14, 2020, AND REVISED APRIL 20, 2021.
- WETLAND FLAGS SHOWN HEREON WERE DELINEATED BY WILLIAMS & SPARAGES ON JANUARY 8, 2020, AND REVISED ON MARCH 24, 2021. WETLAND FLAGS FIELD LOCATED BY WSP, USA ON MARCH 29, 2021.
- THE ACCURACY AND COMPLETENESS OF THE UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION, SIZE, TYPE, ETC. OF ALL UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY THE WORK. AT LEAST 72 HOURS BEFORE EXCAVATION, THE CONTRACTOR SHALL BE REQUIRED TO CONTACT DIGSAFE AT 1-888-344-7233.
- THE CONTRACTOR SHALL FIELD VERIFY CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
- WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE APPROPRIATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION.
- ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE NOTIFIED, INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN, PRIOR TO EXCAVATING, BLASTING, INSTALLING, BACKFILLING, GRADING, PAVEMENT RESTORATION OR REPAVING.
- THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES EXCEPT THOSE NOTED TO BE ABANDONED, REMOVED, OR DISPOSED.
- THE CONTRACTOR SHALL DISPOSE OF ALL WASTE MATERIAL IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS AT HIS/HER OWN EXPENSE, OUTSIDE OF THE PROJECT LIMITS.

**OWNER**  
JOHN HASENJAEGER  
23 PINNACLE DRIVE  
EAST WALPOLE, MA 02032

**APPLICANT**  
SHELDON MEADOW, LLC  
480 TURNPIKE STREET  
SOUTH EASTON, MA 02375

**ASSESSORS INFORMATION**  
ASSESSORS MAP G-03 BLOCK 1 LOT 19

**REFERENCES**

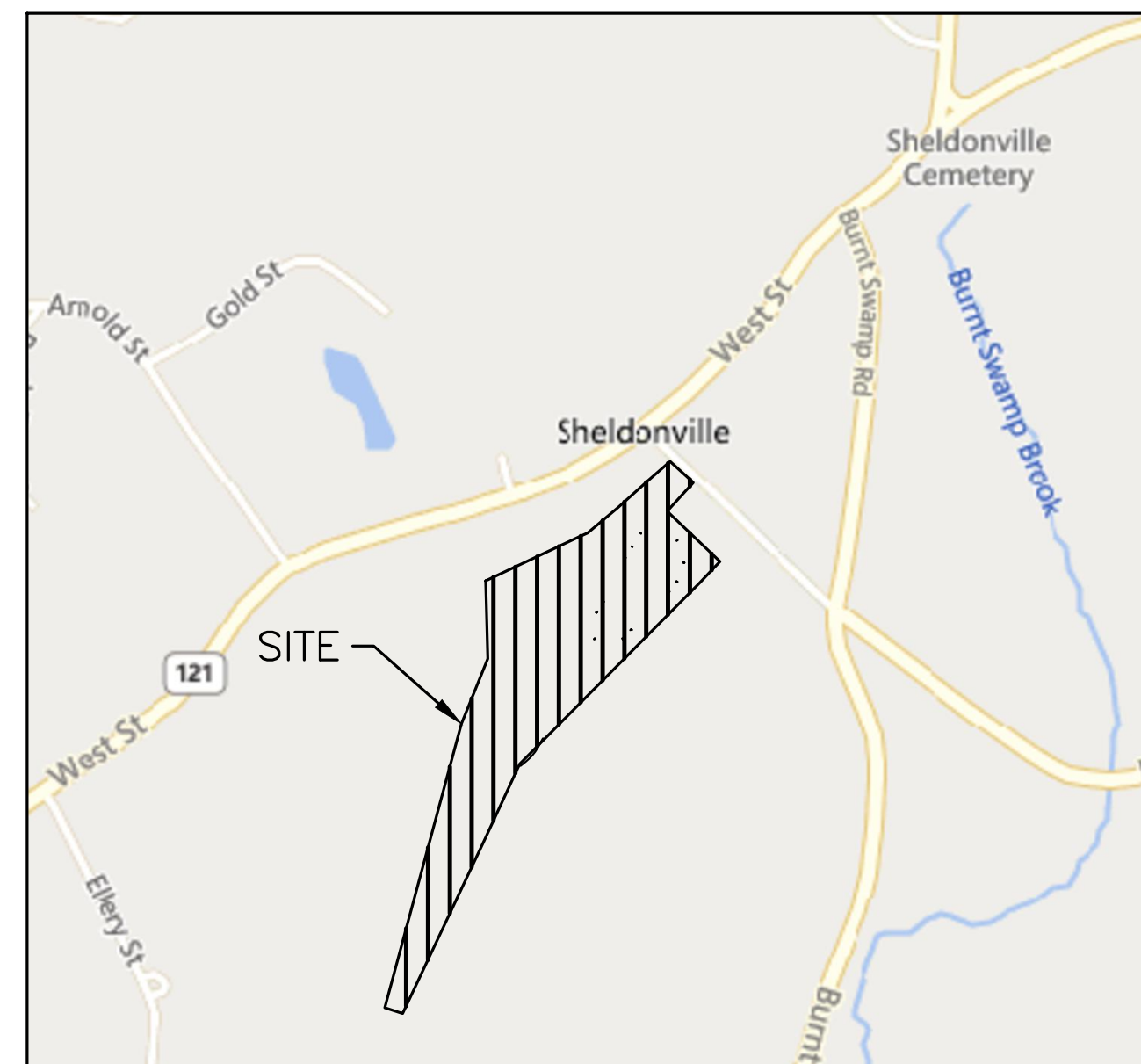
- EXISTING CONDITIONS SURVEY BY WSP DATED 4-20-2021 REVISED THROUGH 10-06-2022.
- WRENTHAM, MA GIS SERVICE
- WRENTHAM, MA AQUIFER PROTECTION DISTRICT MAP DATED NOVEMBER 2006
- ZONING MAP OF WRENTHAM MASSACHUSETTS DATED 10-4-2019

**SHEET INDEX**

SHEET C1.1	COVER SHEET
SHEET C1.2	NOTES AND REFERENCES
SHEET C1.2	LEGEND
SHEET C1.4	LOCUS MAP 1
SHEET C1.5	ZONING MAP
SHEET C1.6	OPEN SPACE PLAN
SHEET C2.1-2.6	EXISTING CONDITIONS PLAN
SHEET C3.1-3.2	DEMOLITION AND EROSION CONTROL PLAN
SHEET C4.1-4.2	LAYOUT AND MATERIALS PLAN
SHEET C5.1-5.2	GRADING AND DRAINAGE PLAN
SHEET C6.1-6.2	UTILITY PLAN
SHEET C7.1-7.4	PLAN AND PROFILE
SHEET C8.1-8.2	LANDSCAPE PLAN
SHEET C9.1-9.2	LIGHTING PLAN
SHEET C10.1-10.12	DETAIL SHEETS 1-12

**SITE PLAN AND SPECIAL PERMITS REQUIRED**

- ARTICLE 13.5 – SENIOR LIVING COMMUNITY
- ARTICLE 14 – EARTH REMOVAL
- ARTICLE 5 – WATERSHED PROTECTION DISTRICT



**LOCUS MAP**  
1"=800'

**PROJECT TEAM**

**APPLICANT**  
SHELDON MEADOW, LLC  
480 TURNPIKE STREET  
SOUTH EASTON, MA 02375

**CIVIL ENGINEER**  
HOWARD STEIN HUDSON  
114 TURNPIKE RD, SUITE 2C  
CHELMSFORD, MA 01824

**SURVEYOR**  
WSP, USA, LLC  
9 EXECUTIVE PARK DRIVE  
SUITE 101  
MERRIMACK, NH 03054

**WETLAND SCIENTIST**  
GREGORY HOCHMUTH  
WILLIAMS & SPARAGES  
189 NORTH MAIN STREET  
MIDDLETON, MA 01949

**ARCHITECT**  
LAGRASSE YANOWITZ & FEYL ARCHITECTS  
1 ELM SQUARE  
ANDOVER, MA 01810

**LANDSCAPE ARCHITECT**  
JAMES K. EMMANUEL ASSOCIATES  
22 CARLTON ROAD  
MARBLEHEAD MA 01945

**LIGHTING CONSULTANT**  
REFLEX LIGHTING  
7 TIDE STREET  
BOSTON, MA 02210

**ZONING REQUIREMENTS**

ZONING DISTRICT: R-87 (AGRICULTURAL AND RESIDENTIAL)  
OVERLAY DISTRICT: WATERSHED PROTECTION DISTRICT  
OVERLAY DISTRICT: AQUIFER PROTECTION DISTRICT  
SPECIAL REQUIREMENTS: SENIOR LIVING COMMUNITY (SLC)  
DIMENSIONAL REQUIREMENTS:

	REQUIREMENT	PROPOSED
TOTAL LAND AREA (SLC)	871,200 (20 AC)	878,327 SF (20.4 AC)
DEVELOPABLE SITE AREA	-	277,307 SF (6.40 AC)
CONTINUOUS LOT FRONTAGE (SLC)	100 FT	135± FT
MINIMUM FRONT YARD (SLC)	30 FT	239± FT
MINIMUM SIDE YARD (SLC)	30 FT	60± FT
MINIMUM REAR YARD (SLC)	30 FT	1,806± FT
SITE COVERAGE OF BUILDINGS	<35%	4%±
USABLE OPEN SPACE*	>30%	36%±
IMPERVIOUS AREA	-	112,231 SF
IMPERVIOUS AREA/TOTAL LAND AREA	-	12.7%
MAXIMUM STORIES (SLC)	2	2
MAXIMUM BUILDING HEIGHT (SLC)	28 FT	23'-8"
MAXIMUM DENSITY	4 UNITS/ACRE	0.78 UNITS/ACRE
AVG DISTANCE BETWEEN UNITS	15 FT	18.7 FT

\*NO MORE THAN 25% OF THE MINIMUM REQUIRED COMMON OPEN SPACE SHALL BE WETLANDS

TOTAL SITE AREA	= 878,327 S.F.
TOTAL WETLANDS ON SITE	= 445,672 S.F.
TOTAL NON-OPEN SPACE**	= 186,319 S.F.
REQUIRED OPEN SPACE	= 878,327 * 30%
	= 263,498 S.F.
REQUIRED UPLAND	= 263,498 * 75%
	= 197,624 S.F.
ALLOWABLE WETLANDS	= 263,498 * 25%
	= 65,875 S.F.
OPEN SPACE	= 878,327 - (445,672 + 186,319)
	= 246,336 S.F.
TOTAL OPEN SPACE	= 246,336 + 65,875
	= 312,211 S.F.
	= 353,145 / 878,327
	= 100 * 0.36
	= 36%

\*\* TOTAL OF BUILDING, PAVEMENT, SWALE, AND INFILTRATION BASIN.

**CONSERVATION ALTERATIONS**

ALTERATIONS WITHIN:	LENGTH OF EXTERIOR EROSION CONTROL BARRIER (SILT FENCE & COMPOST SOCK) = 2,350± LF
100' WETLAND BUFFER AREA: 34,620± SF	
50' WETLAND BUFFER AREA: 0 SF	
200' RIPARIAN AREA: 0 SF	
100' RIPARIAN AREA: 0 SF	
	DISTANCE BETWEEN WORK NEAREST THE: WETLAND: 51' RIVER: 200'

**PARKING REQUIREMENTS**

SINGLE FAMILY OR COTTAGE STYLE DWELLING: TWO (2) SPACES PER UNIT  
GUEST PARKING: ONE (1) SPACE PER TWO (2) UNITS OR THREE (3) BEDS  
REQUIRED PARKING SPACES:  
16 UNITS x 2 SPACES/UNIT = 32 SPACES  
16 UNITS x 1 SPACE PER 2 UNITS = 8 SPACES  
TOTAL PARKING SPACES REQUIRED: 32 SPACES + 8 SPACES  
= 40 PARKING SPACES REQUIRED  
PARKING SPACES PROVIDED: (SEE TABLE BELOW)  
= 88 PARKING SPACES PROVIDED

TYPE	REQ.	PROP.
UNIT GAR. SPACES	32	32
UNIT EXTERIOR SPACES	32	34
SHARED/GUEST PARKING	8	22
TOTAL PARKING	40	88

**REVISIONS:**

NO	BY	DATE	DESCRIPTION
1	KL	9/13/22	PEER REVIEW
2	KL	11/11/22	TOWN/PEER REVIEW
3	KL	12/8/22	TOWN REVIEW



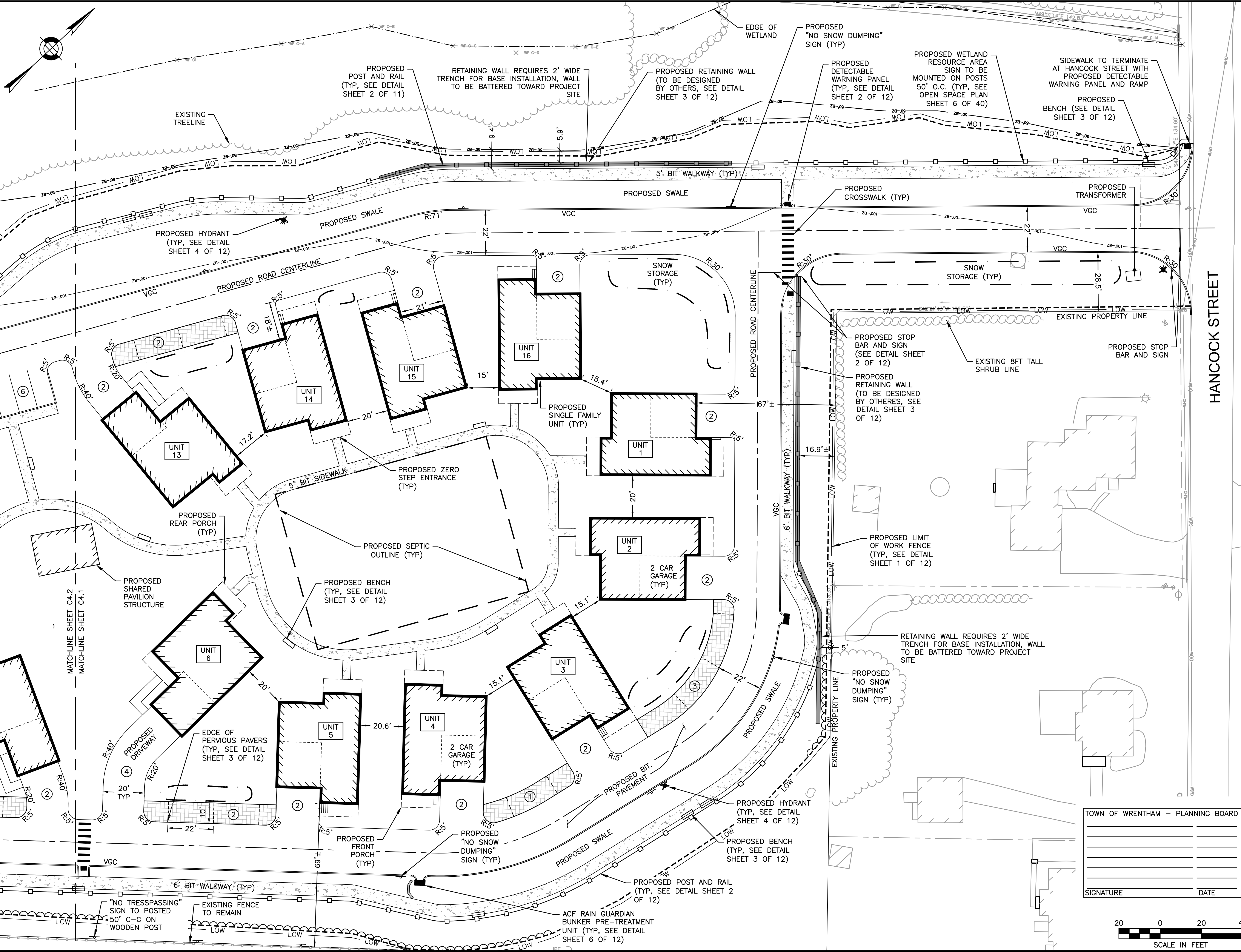
SITE PLAN

COVER SHEET

DATE:	APRIL 11, 2022
PROJECT NUMBER:	19227.01
DESIGNED BY:	KL/MB
DRAWN BY:	KL/MB/NC
CHECKED BY:	KE

C1.1

SHEET 1 OF 40



PREPARED FOR:  
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 480 TURNPIKE STREET  
 SOUTH EASTON, MA 02375

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HANCOCK STREET

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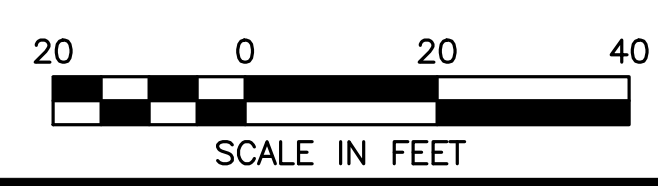


SITE PLAN

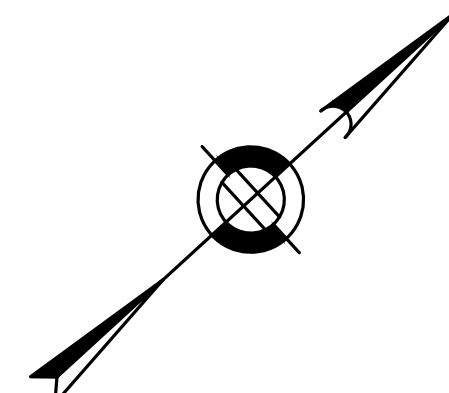
**LAYOUT AND MATERIALS**  
**SHEET 1 OF 2**

TOWN OF WRENTHAM - PLANNING BOARD

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SIGNATURE	DATE



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SITE PLAN

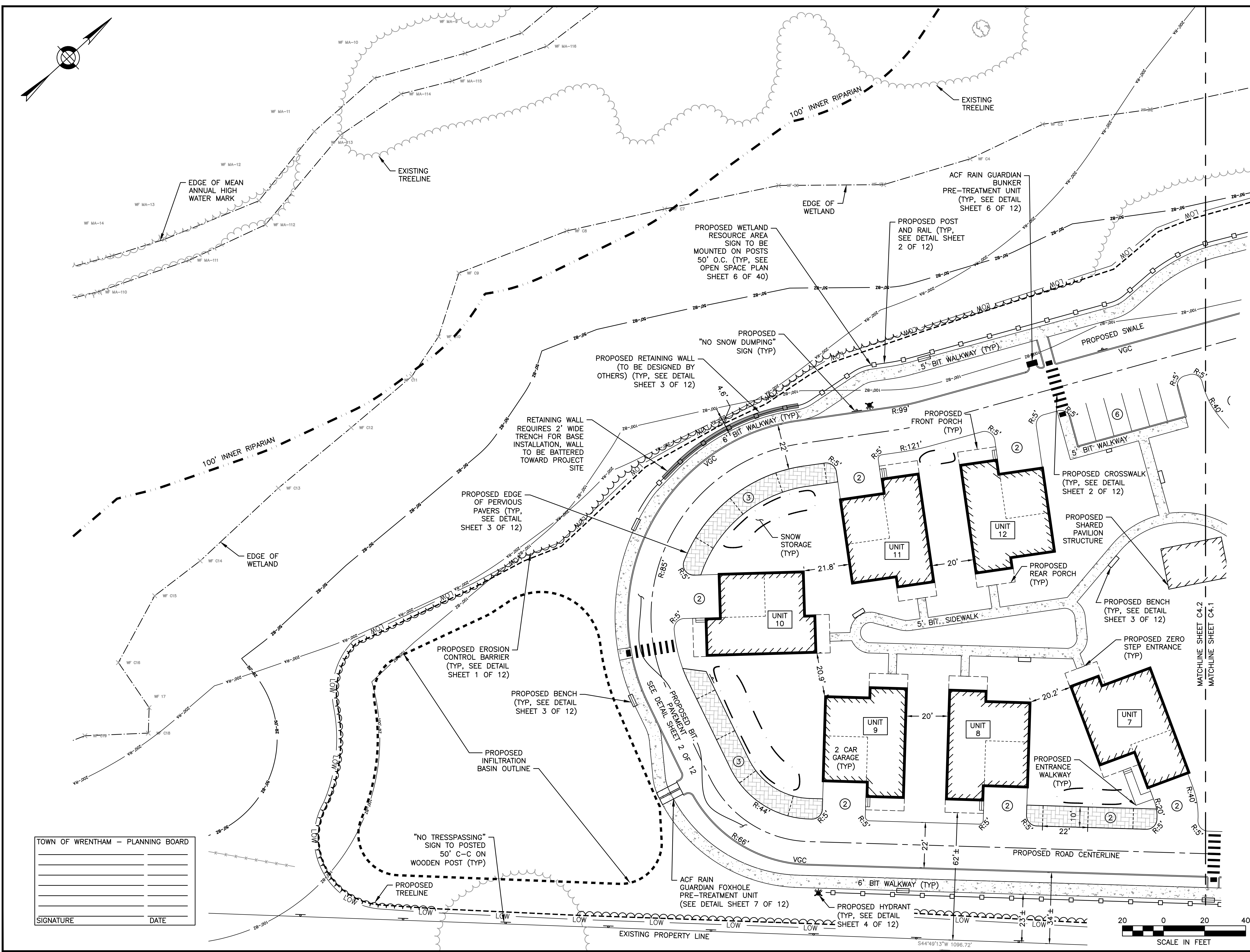
**LAYOUT AND MATERIALS**  
**SHEET**  
**2 OF 2**

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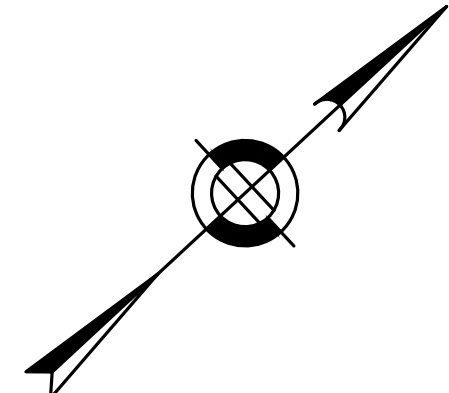
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TOWN OF WRENTHAM - PLANNING BOARD

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SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_



**GENERAL LANDSCAPE NOTES:**

1. AREAS NOT OTHERWISE DEVELOPED SHALL RECEIVE MINIMUM 6" COMPACTED DEPTH SCREENED LOAM.
2. EXISTING LOAM TO BE STOCKPILED FOR REUSE.
3. FINISH COVER OVER PLANTING BED SHALL INCLUDE 3" MINIMUM DEPTH PINE MULCH.
4. FINISH SURFACE SHALL BE GRADED FROM A HIGH POINT AT CENTER OF ISLAND OUT TO THE BACK OF CURB. SEE GRADING, DRAINAGE AND PAVING PLAN FOR FINISH GRADES.
5. AT A MINIMUM, TREES AND SHRUBS SHALL BE WATERED BY FLOODING AS FOLLOWS: MONTH 0-3: ONCE PER WEEK MONTH 3-6: TWICE PER MONTH MONTH 6-12: ONCE PER MONTH INCREASE WATERING FREQUENCY TO ACCOUNT FOR DROUGHT CONDITIONS AS REQUIRED.
6. TURF AREAS TO BE WATERED AND MOWED UNTIL ACCEPTED.
7. CONSERVATION SEED MIX AREA TO BE WATERED IF NECESSARY FOR ESTABLISHMENT
8. PROPOSED SEED MIX WITHIN CONSERVATION JURISDICTIONAL BUFFERS TO BE FREE OF INVASIVE SPECIES AND APPROVED BY A LICENSED WETLAND SCIENTIST.
9. ONLY RED CEDAR AND WHITE CEDAR TREES ARE TO BE PLANTED WITHIN CONSERVATION JURISDICTIONAL BUFFERS.

**PLANTING NOTES**

1. THE NUMBER OF EACH INDIVIDUAL PLANT TYPE AND SIZE IS PROVIDED IN THE PLANT LIST FOR CONTRACTORS CONVENIENCE ONLY. IF A DISCREPANCY EXISTS BETWEEN THE NUMBER OF PLANTS ON THE LIST AND THE NUMBER SHOWN ON THE DRAWING, THE GREATER NUMBER SHALL APPLY.
2. ALL PLANT MATERIAL SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT OR THE OWNER'S REPRESENTATIVE PRIOR TO ARRIVAL ON SITE.
3. PLANT MATERIAL SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS TO THE ORIGINAL PLANTING GRADE.
4. THE CONTRACTOR SHALL LOCATE AND MARK ALL UTILITIES PRIOR TO PLANTING. ANY CONFLICTS BETWEEN PLANTING AND UTILITIES SHALL BE IMMEDIATELY REPORTED TO THE LANDSCAPE ARCHITECT SO THAT ALTERNATE PLANTING LOCATIONS CAN BE DETERMINED.
5. NO SUBSTITUTION OF PLANT MATERIALS WILL BE ALLOWED WITHOUT THE PRIOR WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL PLANTS AGAINST DAMAGE FROM ON-GOING CONSTRUCTION. PROTECTION SHALL BEGIN AT THE TIME THE PLANT IS INSTALLED AND CONTINUE UNTIL FORMAL ACCEPTANCE OF ALL PLANTING.
7. ALL DISTURBED AREAS NOT OTHERWISE DEVELOPED SHALL BE LOAMED 6" AND SEEDDED.

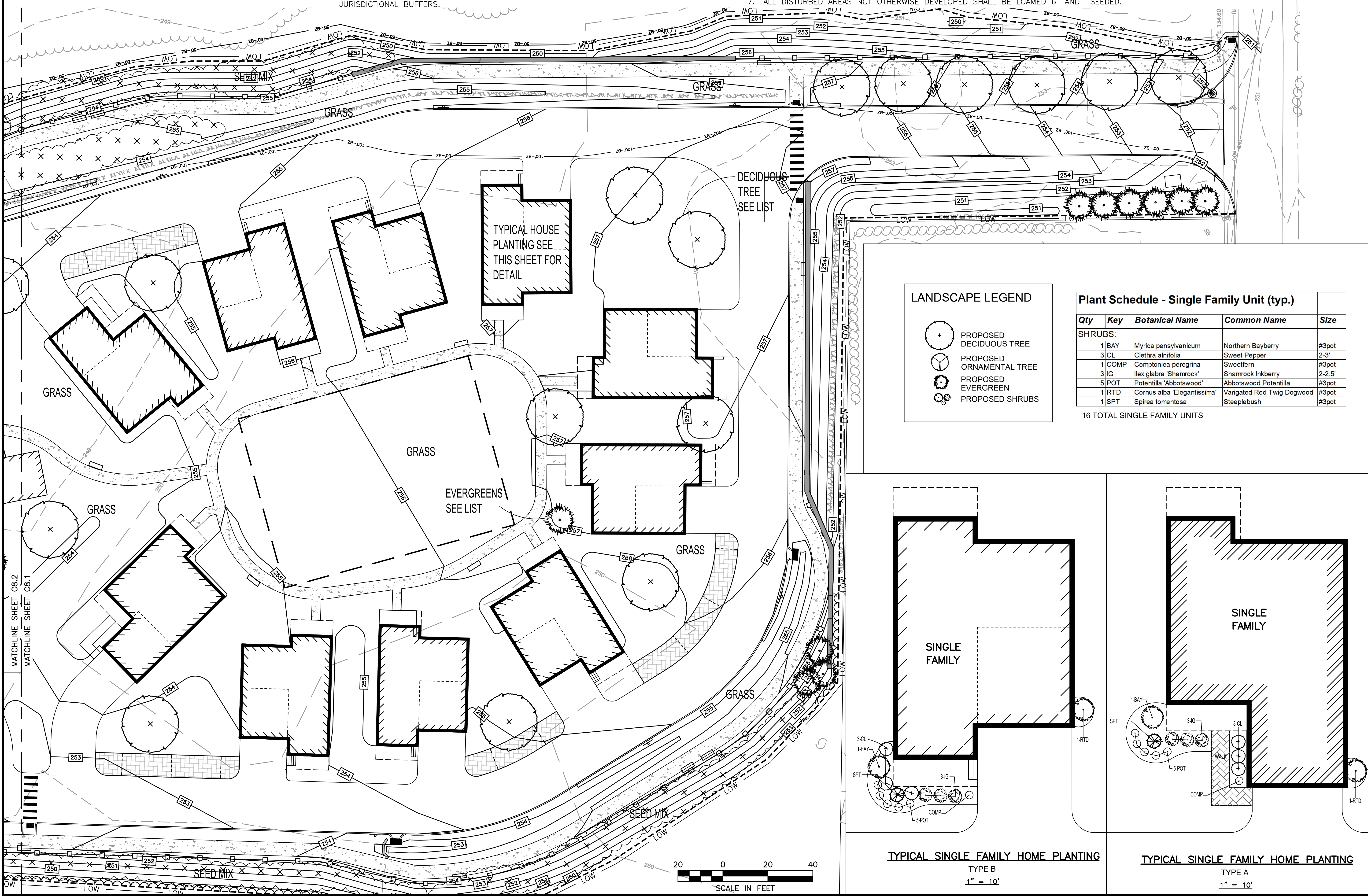
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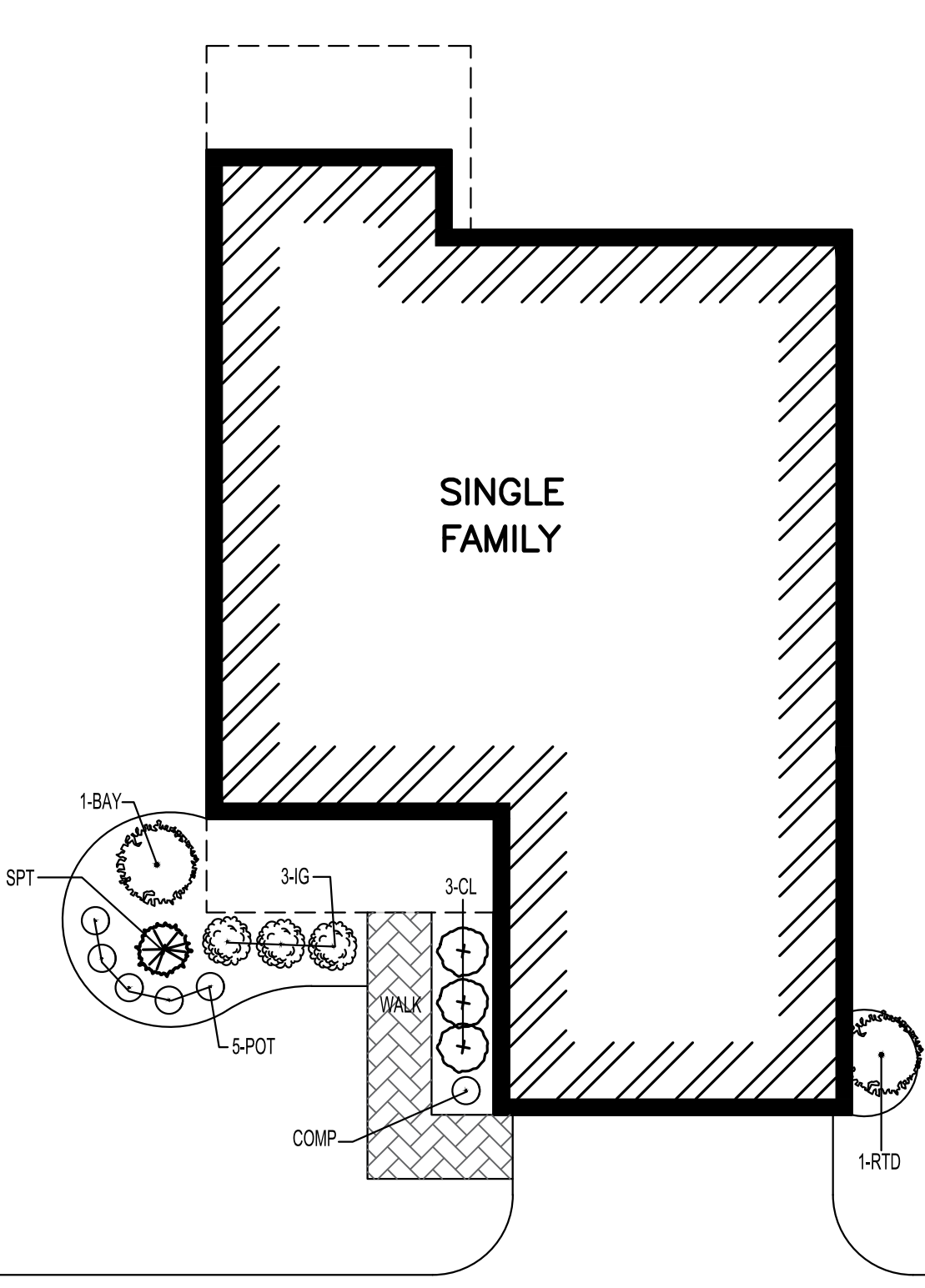
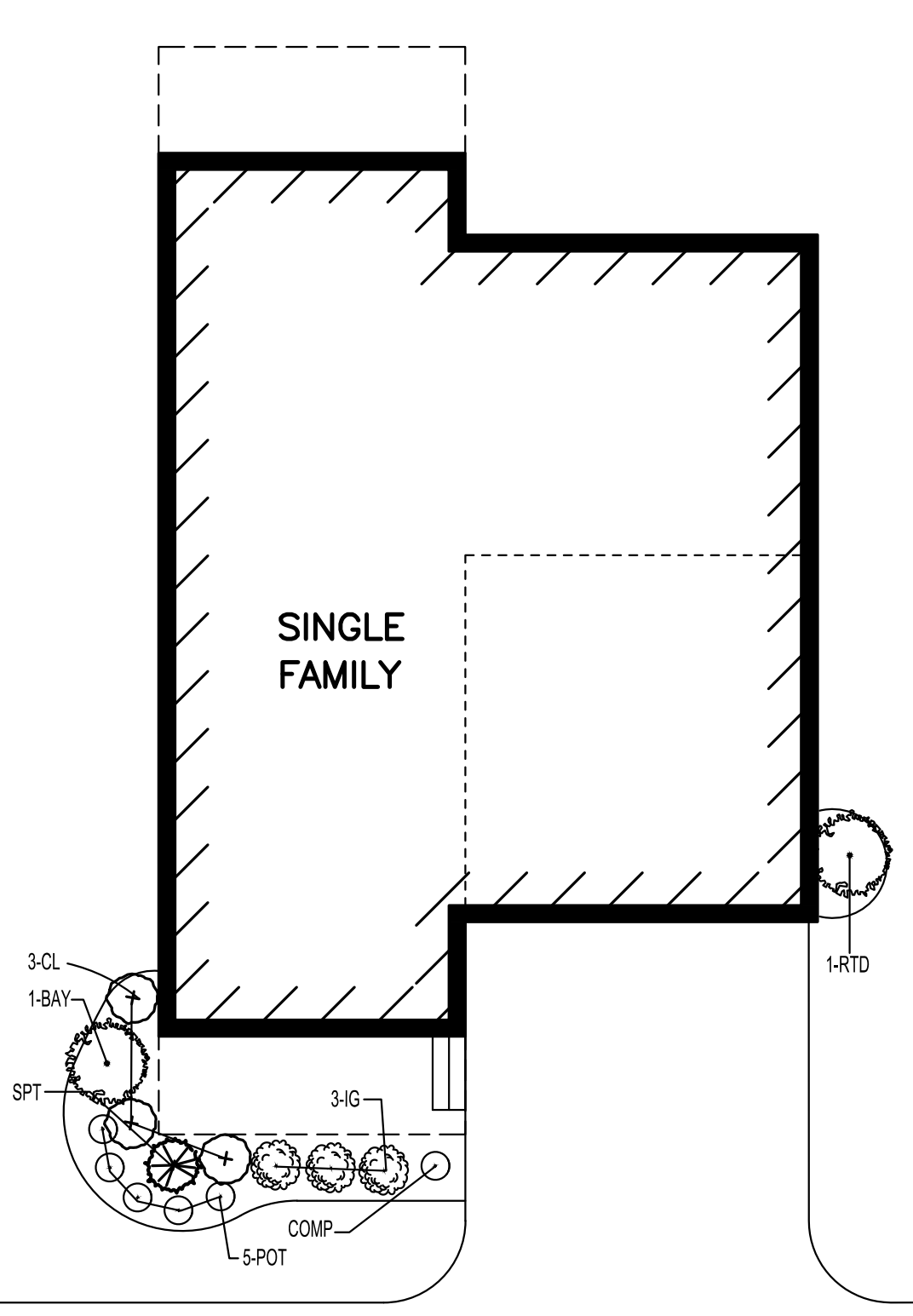
**LANDSCAPE LEGEND**

- PROPOSED DECIDUOUS TREE
- PROPOSED ORNAMENTAL TREE
- PROPOSED EVERGREEN
- PROPOSED SHRUBS

**Plant Schedule - Single Family Unit (typ.)**

Qty	Key	Botanical Name	Common Name	Size
<b>SHRUBS:</b>				
1	BAY	Myrica pensylvanicum	Northern Bayberry	#3pot
3	CL	Clethra alnifolia	Sweet Pepper	2-3'
1	COMP	Comptonia peregrina	Sweetfern	#3pot
3	JG	Ilex glabra 'Shamrock'	Shamrock Inkberry	2-2.5'
5	POT	Potentilla 'Abbotswood'	Abbotswood Potentilla	#3pot
1	RTD	Cornus alba 'Elegantissima'	Variegated Red Twig Dogwood	#3pot
1	SPT	Spirea tomentosa	Steeplebush	#3pot

16 TOTAL SINGLE FAMILY UNITS



SITE PLAN

**LANDSCAPE PLAN**  
 1 OF 2

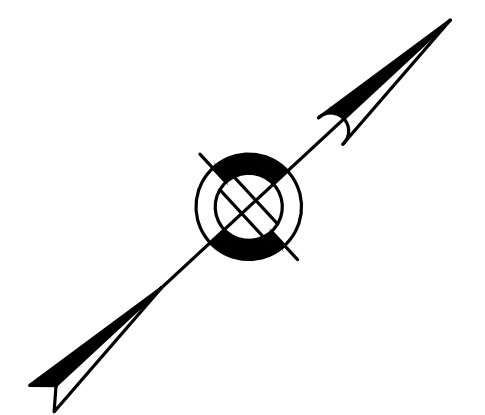
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SHEET 25 OF 40

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DECIDUOUS TREE PLANTINGS 26 TOTAL THROUGHOUT SITE

Plant Schedule

Botanical Name	Common Name	Size
<b>DECIDUOUS TREE OPTIONS:</b>		
Acer rubrum 'Red Sunset'	Red Sunset Maple	2"cal
Acer saccharum 'Green Mountain'	Sugar Maple	2"cal
Carpinus caroliniana	American Hornbeam	2"cal
Carya ovata	Shagbark Hickory	2"cal
Ostrya virginiana	Hophornbeam	2"cal
Platanus x acerifolia	London Planetree	2"cal
Quercus coccinea	Scarlet Oak	2"cal
Quercus palustris	Pin Oak	2"cal
Tilia americana	Basswood	2"cal
Tilia cordata 'Greenspire'	Greenspire Linden	2"cal
Zelkova serrata	Japanese Zelkova	2"cal

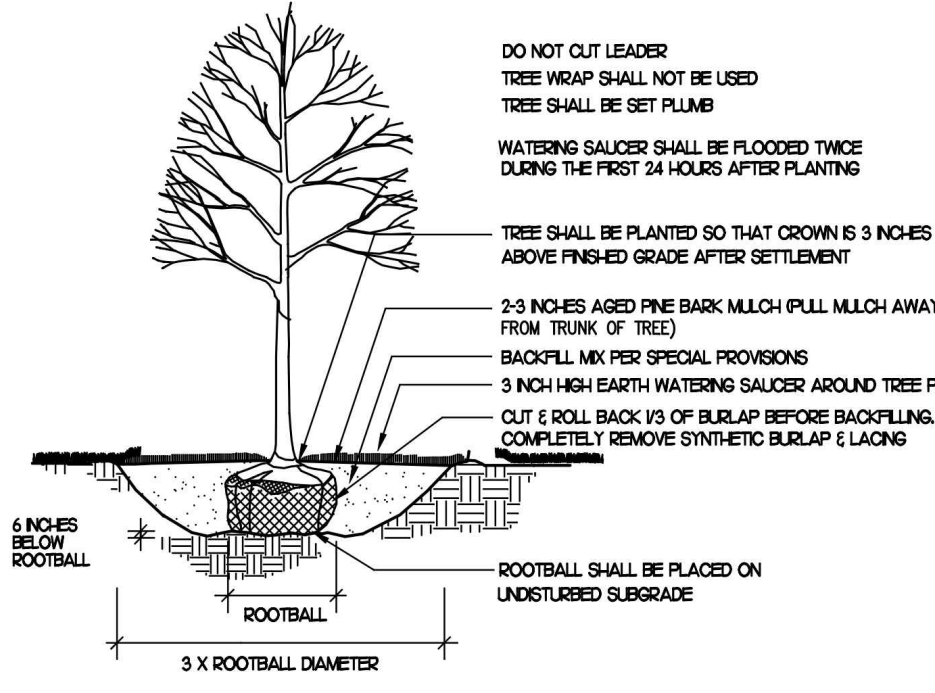
EVERGREEN TREE OPTIONS:

Juniperus virginiana	Eastern Red Cedar	6'
Chamaecyparis thyoides	Atlantic White Cedar	6'

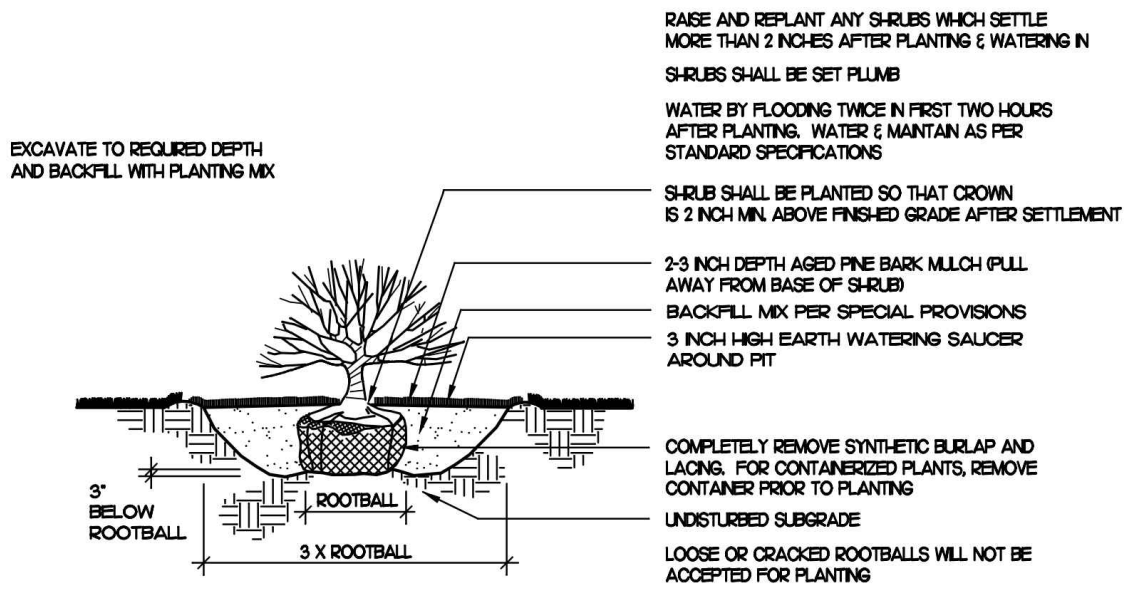
25 TOTAL

Conservation Seed Mix (SEED MIX)

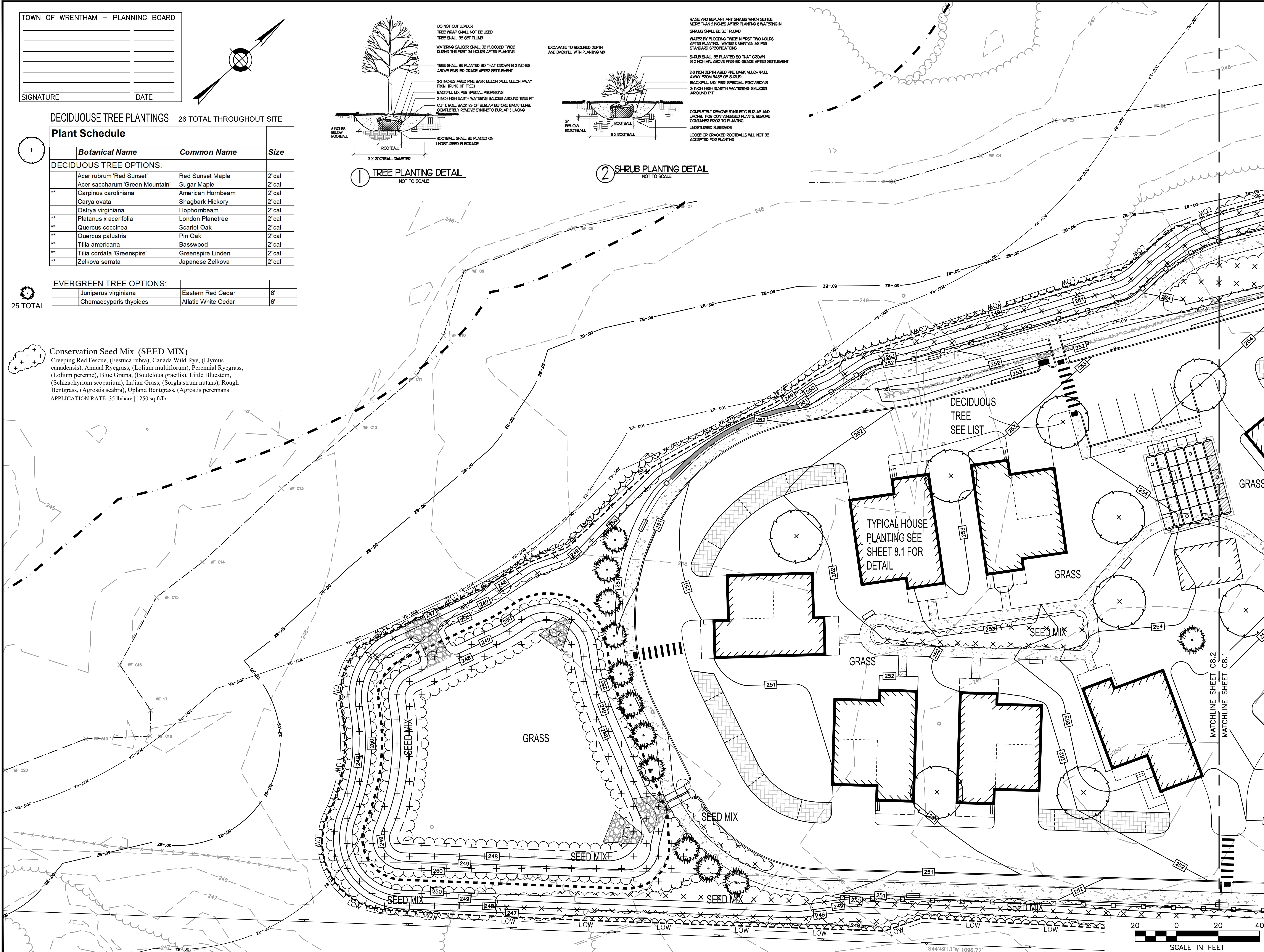
Creeping Red Fescue, (Festuca rubra), Canada Wild Rye, (Elymus canadensis), Annual Ryegrass, (Lolium multiflorum), Perennial Ryegrass, (Lolium perenne), Blue Grama, (Bouteloua gracilis), Little Bluestem, (Schizachyrium scoparium), Indian Grass, (Sorghastrum nutans), Rough Bentgrass, (Agrostis scabra), Upland Bentgrass, (Agrostis perennans)  
APPLICATION RATE: 35 lb/acre | 1250 sq ft/lb



1 TREE PLANTING DETAIL NOT TO SCALE



2 SHRUB PLANTING DETAIL NOT TO SCALE



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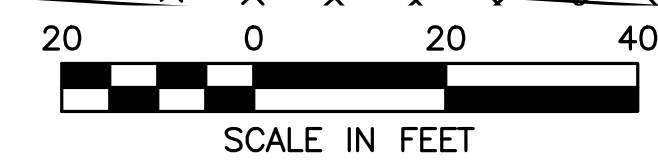
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SITE PLAN

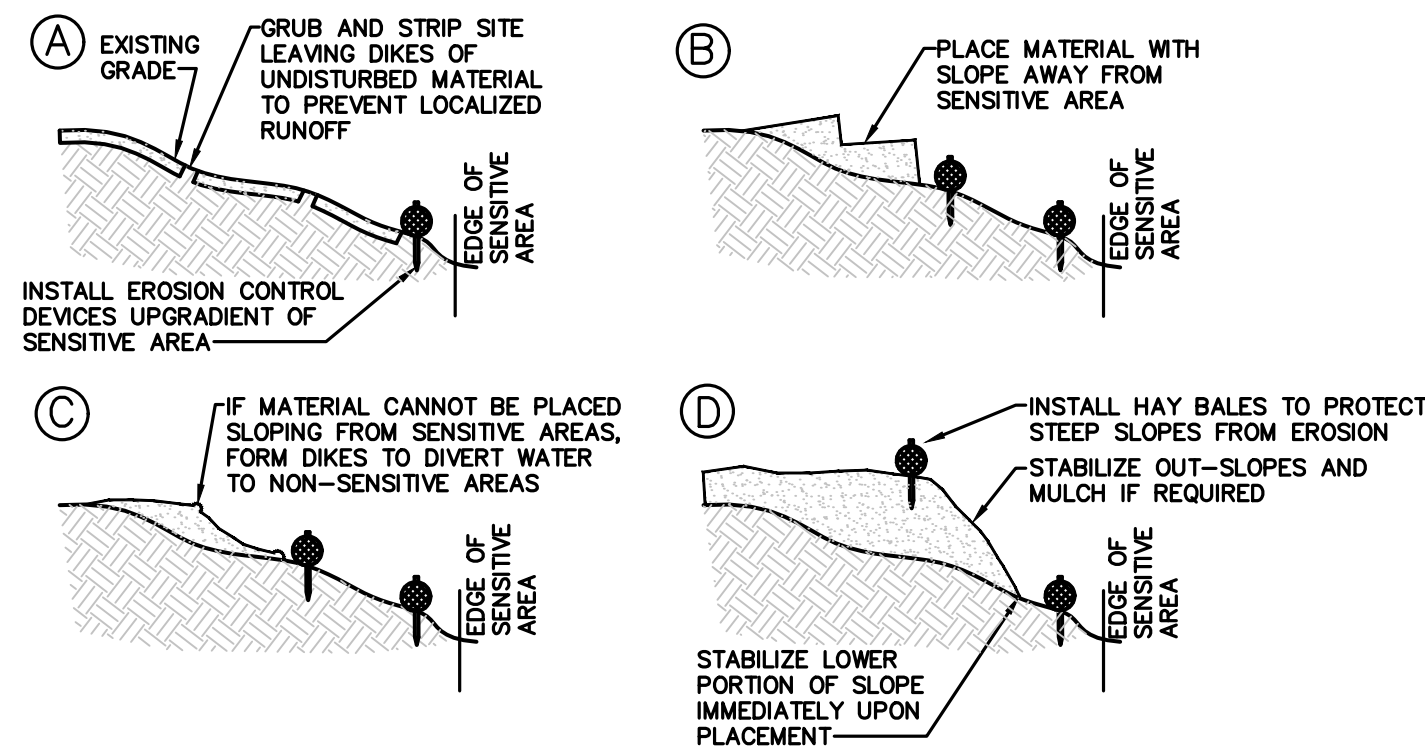
LANDSCAPE PLAN  
2 OF 2

DATE:	APRIL 11, 2022
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SHEET 26 OF 40	

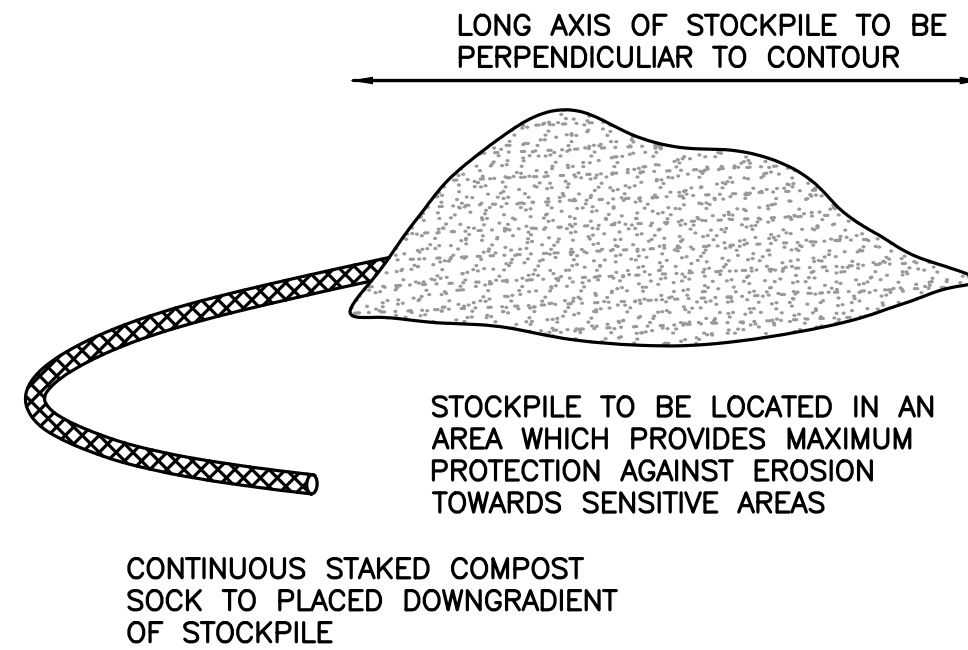
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S44°49'13"W 1096.72'

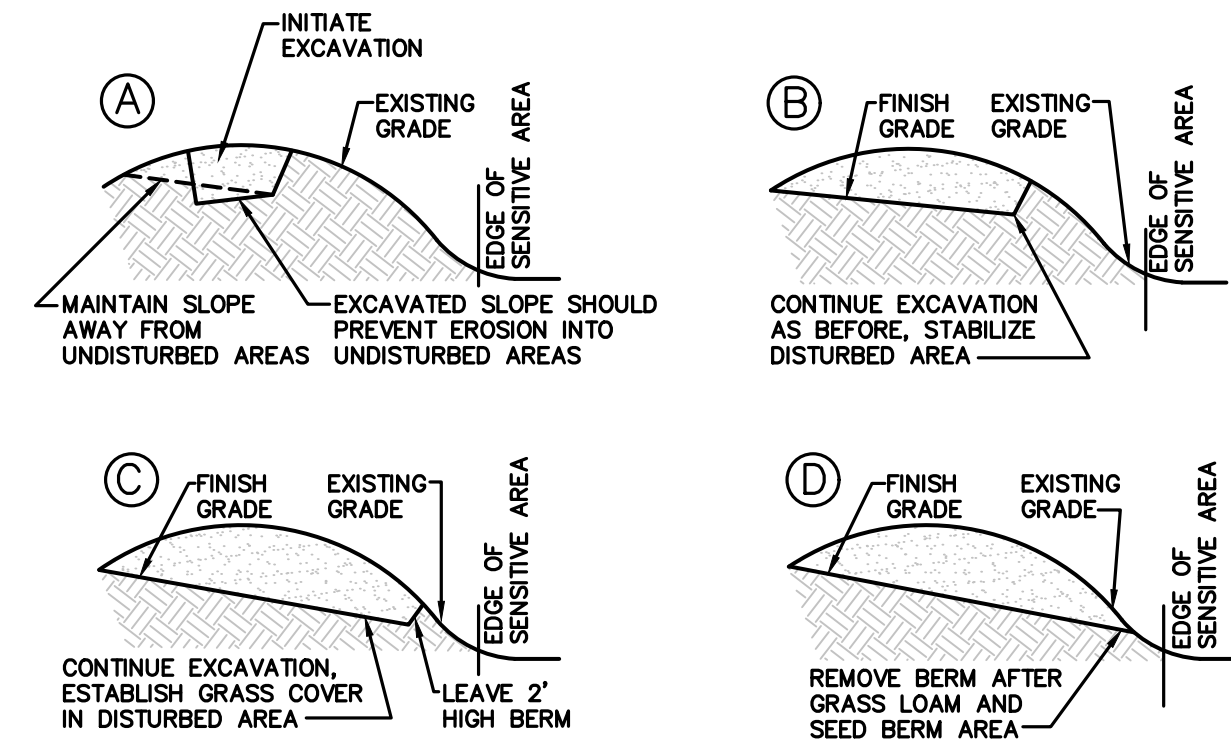


**FILL PROCEDURE**  
NOT TO SCALE

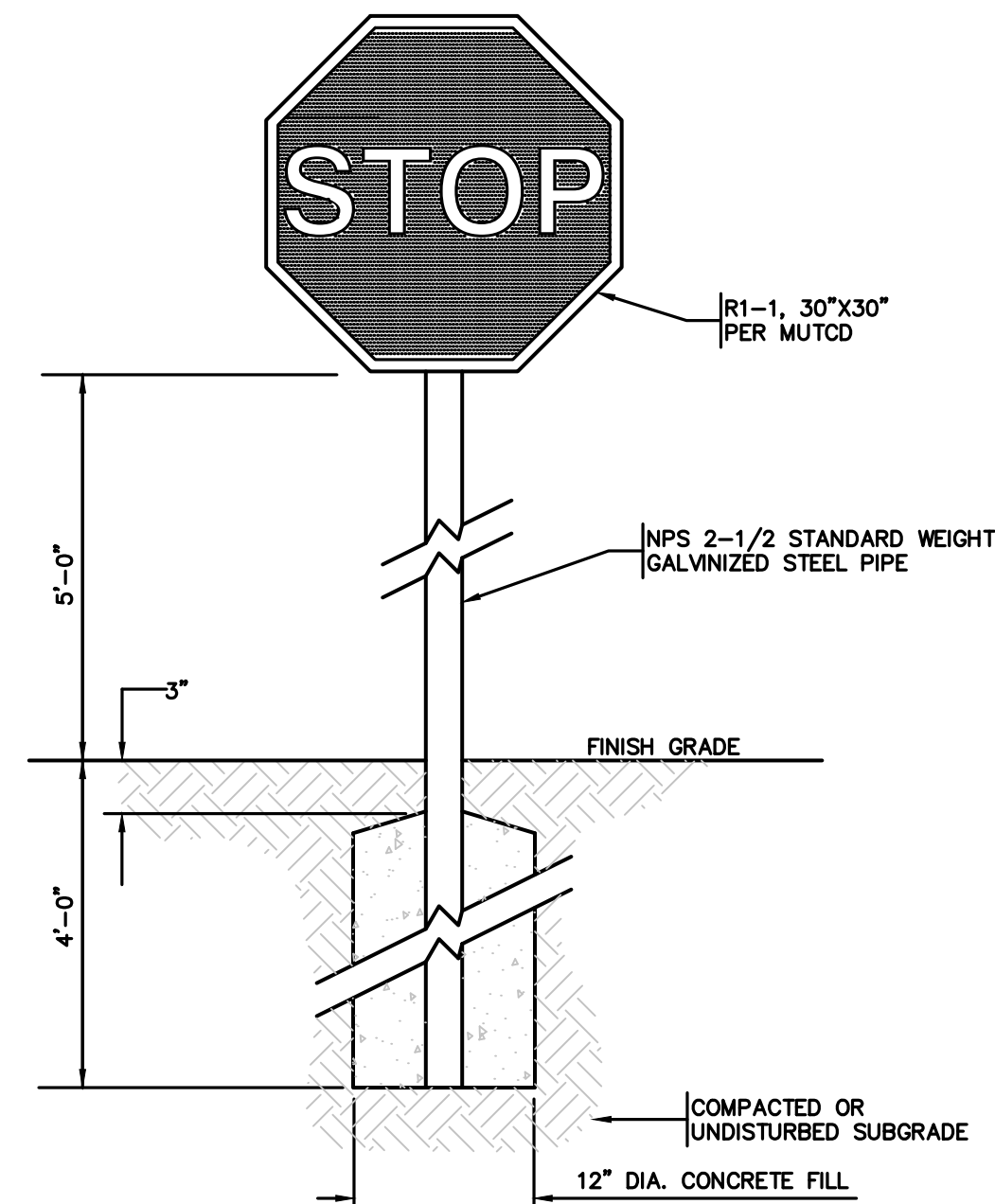


**TEMPORARY STOCKPILE**  
NOT TO SCALE

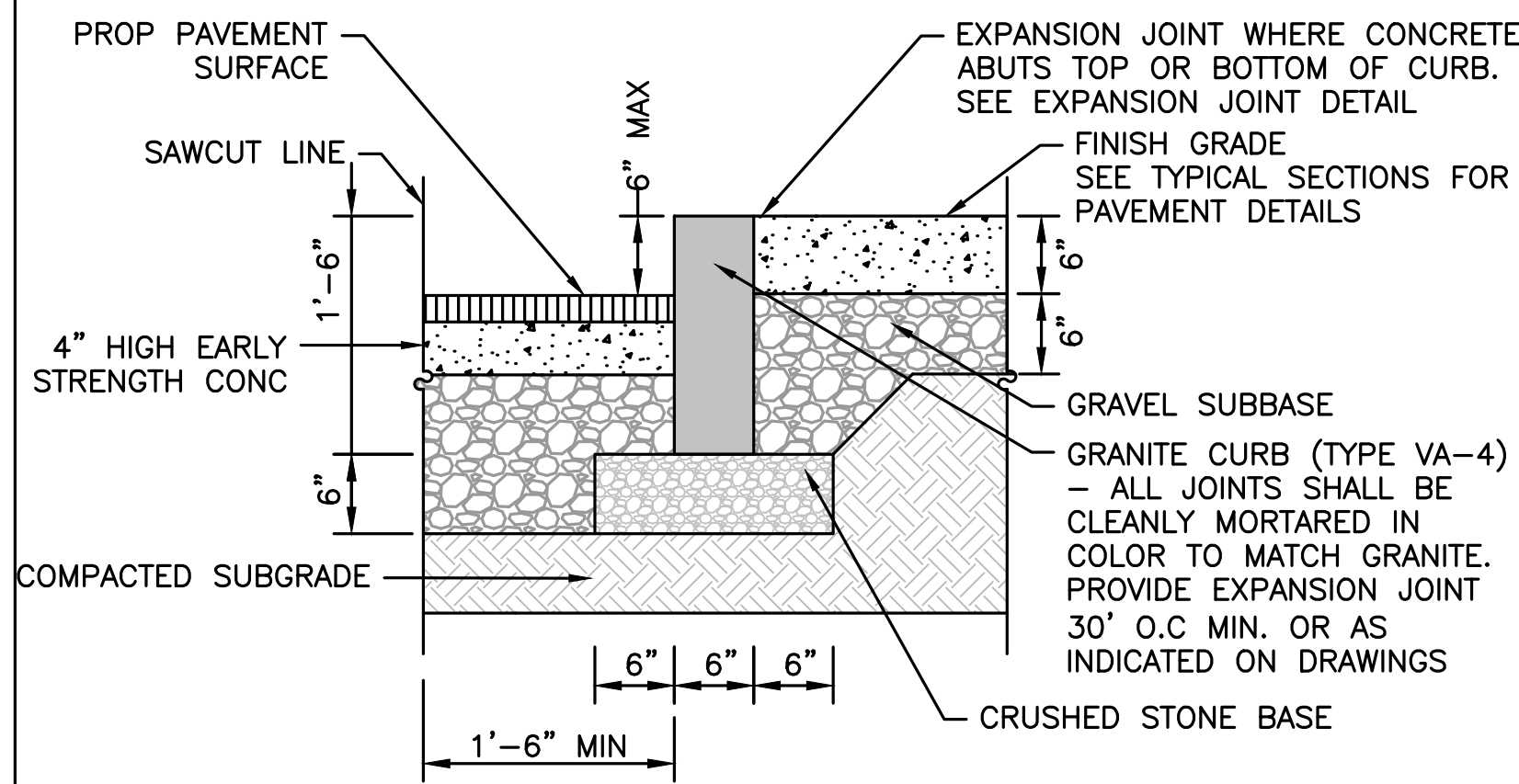
NOTE:  
1. IF STOCKPILES ARE TO BE USED FOR LONG-TERM SOIL STORAGE, THE AREAS SHALL BE PROTECTED WITH THE USE OF MULCH AND/OR TARPS, OR ANNUAL SEED MIXES THAT ARE WATERED UNTIL GROWING.



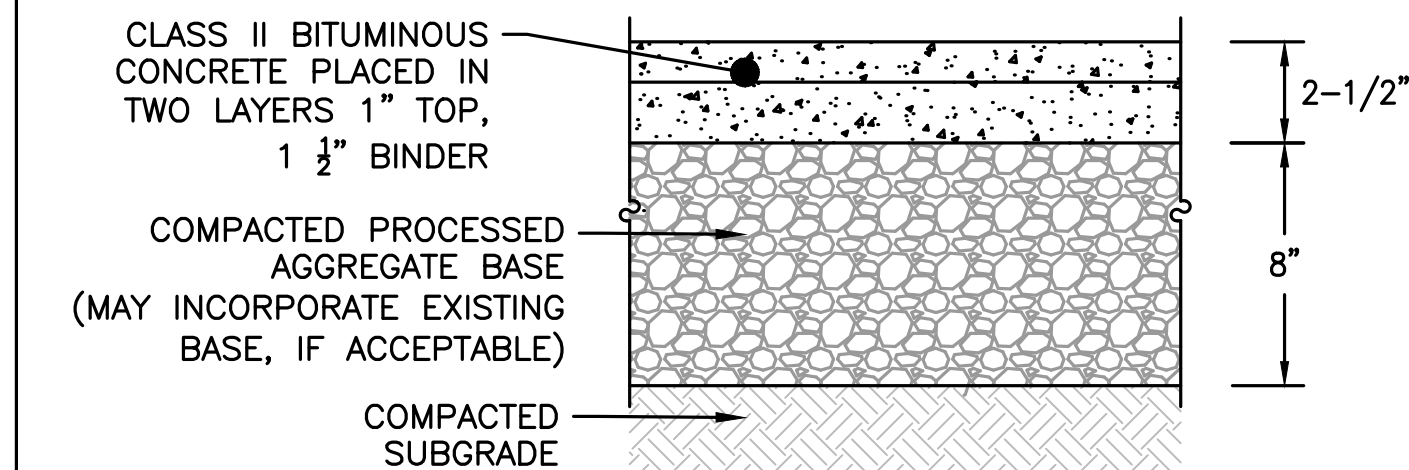
**EXCAVATION PROCEDURE**  
NOT TO SCALE



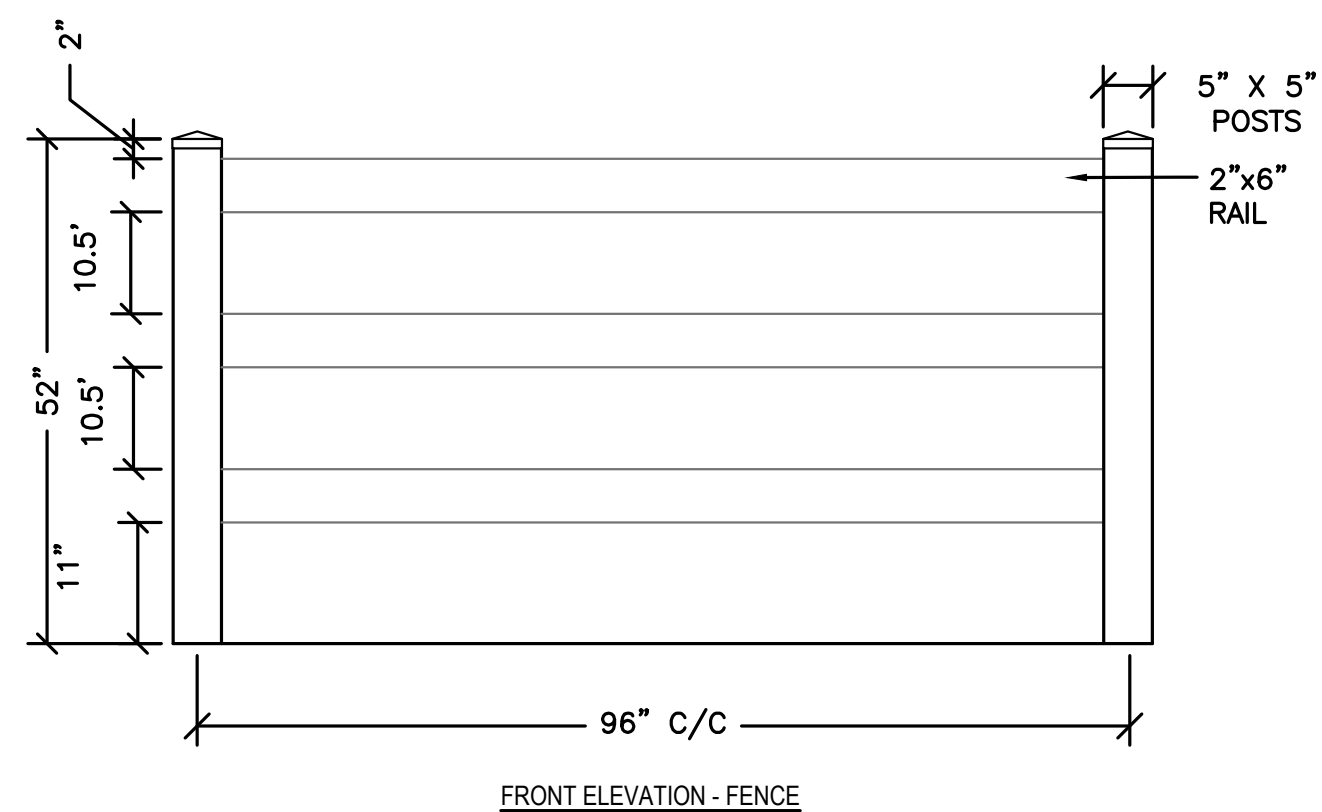
**STOP SIGN DETAIL**  
NOT TO SCALE



**VERTICAL GRANITE CURB**  
NOT TO SCALE



**BIT CONC SIDEWALK SECTION DETAIL**



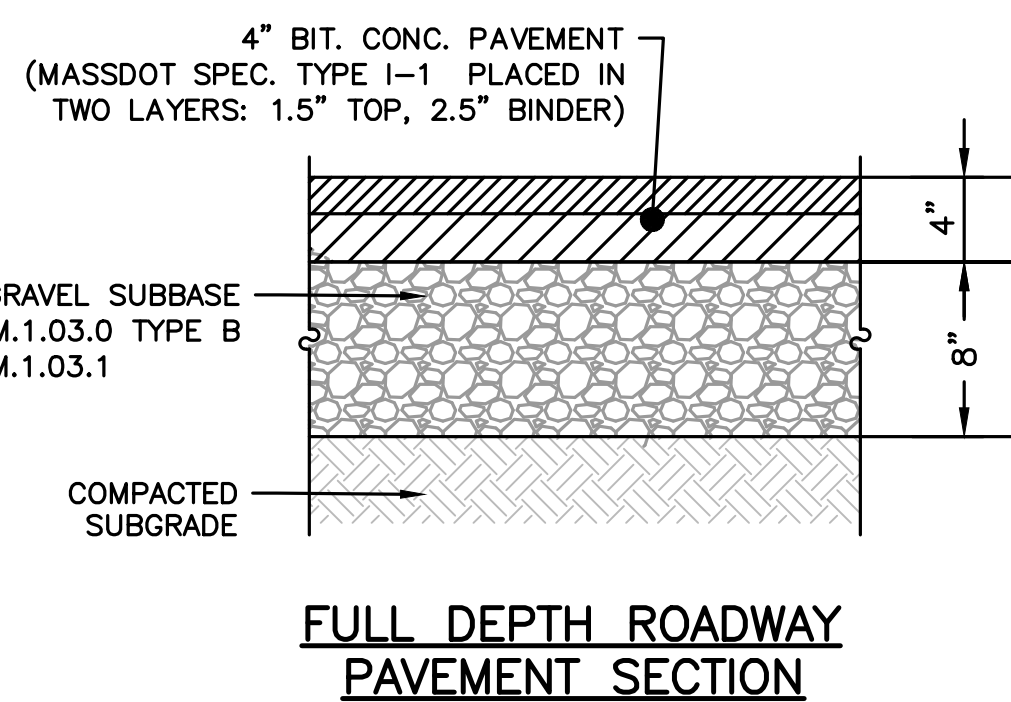
NOTE: THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.

**POLYVINYL POST AND RAIL FENCE**  
NOT TO SCALE

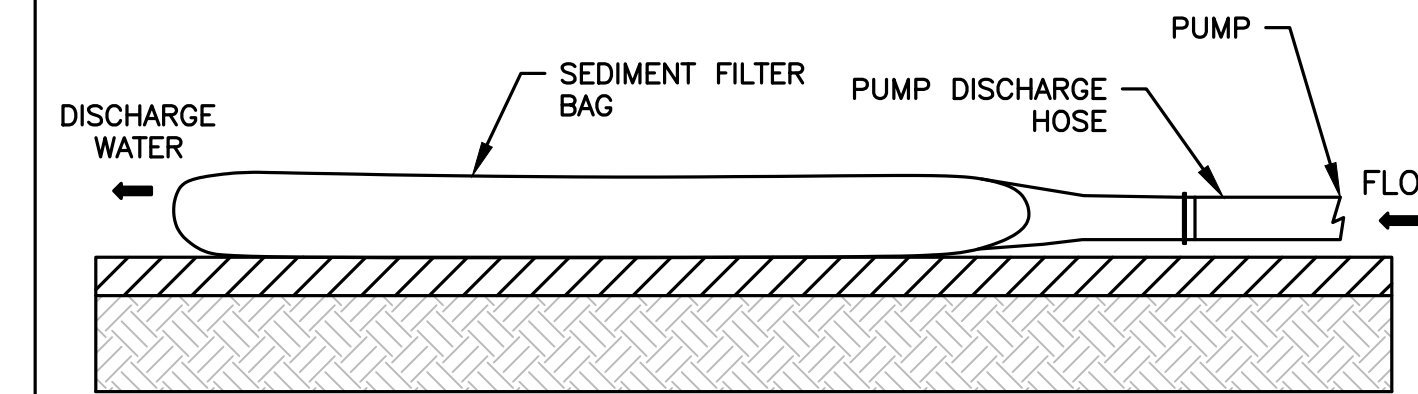
**TYPICAL MULCHING MATERIALS & APPLICATION RATES**

MATERIAL	RATE (TONS PER ACRE)	REQUIREMENTS	NOTES
<b>ORGANIC MULCHES</b>			
BARK	5-8 <sup>a</sup>	AIR DRY; SHREDDED, HAMMERMILLED OR CHIPS	APPLY WITH MULCH BLOWER, WITH CHIP HANDLER OR BY HAND; DO NOT USE ASPHALT TACK
HYDRAULICALLY APPLIED MULCHES	1.25-2.5 <sup>b,c</sup>	APPLY VIA HIGH-PRESSURE PUMPING FROM MIXING TANK, THROUGH A HOSE AND NOZZLE APPARATUS	DO NOT APPLY DURING RAIN OR WIND EVENTS OR IMMEDIATELY BEFORE A STORM EVENT
STRAW	1-2 <sup>c</sup>	DRY, UNCHOPPED, UNWEATHERED; AVOID WEEDS	SPREAD BY HAND OR MACHINE; TACK OR TIE DOWN
WOOD CHIPS	5-8 <sup>a</sup>	AIR DRY, ADD 12 POUNDS OF NITROGEN FERTILIZER PER TON OF WOOD CHIPS	APPLY WITH BLOWER, WITH CHIP HANDLER OR BY HAND; NOT SUITABLE FOR FINE TURF AREAS
WOOD FIBER OR WOOD CELLULOSE	1/2 - 1		USE WITH HYDROSEEDER; CAN USE TO TACK STRAW; DO NOT USE IN HOT, DRY WEATHER
<b>INORGANIC MULCHES</b>			
ROCK	200-500 <sup>a</sup>		CAN BE COSTLY; DOES NOT PROMOTE PLANT GROWTH
<b>NETS AND MATS</b>			
COIR NET	COVER AREA	APPLY HEAVILY AND UNIFORMLY; USE WITH ORGANIC MULCH	WITHSTANDS WATER FLOW
EXCELSIOR (WOOD FIBER) MAT	COVER AREA		ANCHORING ONLY A REQUIREMENT IN CRITICAL AREAS OR AT SITES SUBJECT TO HIGH WINDS; DECOMPOSES SLOWLY <sup>d</sup>
FIBERGLASS ROVING	1/2 - 1	CONTINUOUS FIBERS OF DRAWN GLASS THAT A NON-TOXIC AGENT BINDS TOGETHER	APPLY WITH COMPRESSED AIR EJECTOR; TACKING MAY BE NECESSARY; CONSIDER END OF LIFE REMOVAL/DISPOSAL
JUTE NETTING	COVER AREA	HEAVY, UNIFORM; WOVEN OF SINGLE JUTE YARN; USE WITH ORGANIC MULCH	WITHSTANDS WATER FLOW

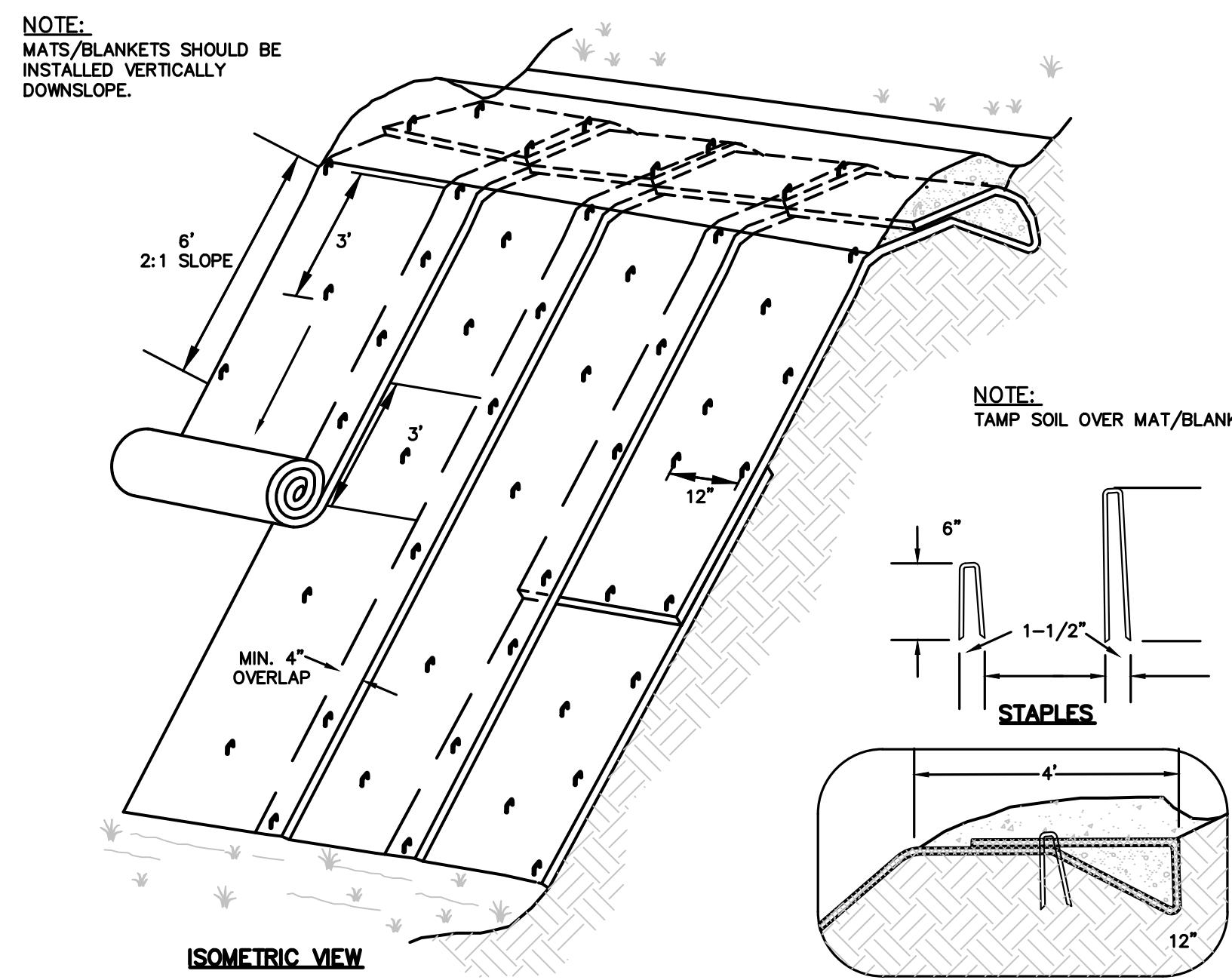
NOTES:  
a - RECOMMENDED APPLICATION RATE DATA SOURCE IS MPCA, 2019  
b - RECOMMENDED APPLICATION RATE DATA SOURCE IS WSDOT, 2019  
c - RECOMMENDED APPLICATION RATE DATA SOURCE IS MDT, 2015  
d - APPLICATION NOTES ARE FROM USDA, 2011



**FULL DEPTH ROADWAY PAVEMENT SECTION**



**FILTER BAG**  
NOT TO SCALE



NOTE:  
1. INSTALL CURLEX I EXCELSIOR BLANKETS PER MANUFACTURER RECOMMENDATIONS, OR APPROVED EQUAL.  
2. SLOPE SURFACE SHALL BE FREE OF ROCK, CLODS, STICKS AND GRASS, MATS/BLANKETS SHALL HAVE GOOD SOIL CONTACT.  
3. APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.  
4. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.  
5. JUTE NETTING CONSTRUCTED FROM ORGANIC MATERIAL MAY BE SUBSTITUTED. REFER TO MULCHING SPECIFICATIONS (THIS SHEET) FOR INFORMATION REGARDING JUTE NETTING.

**EROSION BLANKET**  
NOT TO SCALE

**MAINTENANCE:**  
WHEN MULCHES STABILIZE AND PROTECTION IS NO LONGER NECESSARY, REMOVE NETTING OR MATTING AND COMPOST OR DISPOSE OF IT AS APPROPRIATE. INSPECT MULCHED AREAS OFTEN IN ACCORDANCE WITH ANY APPLICABLE PERMIT REQUIREMENTS AND, WHERE APPLICABLE, STORMWATER POLLUTION PREVENTION PLAN SPECIFICATIONS TO IDENTIFY AREAS WHERE MULCH HAS LOOSENED OR WHERE THERE HAS BEEN MULCH REMOVAL, ESPECIALLY AFTER RAIN. RESEED THESE AREAS, IF NECESSARY, AND REPLACE THE MULCH COVER IMMEDIATELY. IF USING MULCH BINDERS, REAPPLY THEM AT RATES THAT THE MANUFACTURER RECOMMENDS. IF WASHOUT, BREAKAGE OR EROSION OCCURS, REPAIR, RESEED AND REAPPLY MULCH. INSPECTIONS AND MAINTENANCE ACTIVITIES SHOULD CONTINUE UNTIL FIRM VEGETATION ESTABLISHMENT OCCURS.

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SOUTH EASTON, MA 02375

**SHELDON MEADOW**  
20 HANCOCK STREET  
WRENTHAM, MA 02093  
NORFOLK COUNTY

REVISIONS:

NO	BY	DATE	DESCRIPTION
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3	KL	12/8/22	TOWN REVIEW



SITE PLAN

DETAIL SHEET  
2 OF 12

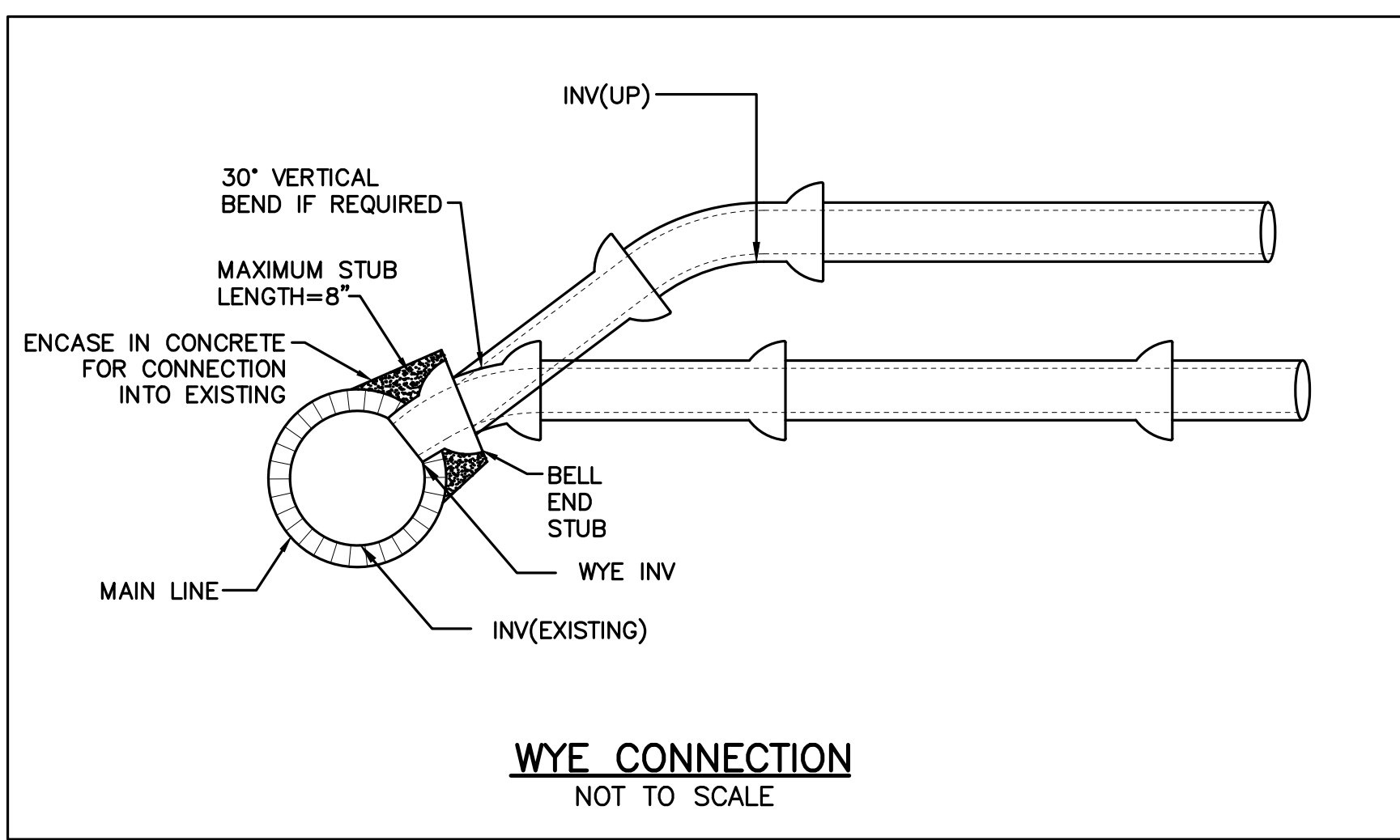
DATE: APRIL 11, 2022  
PROJECT NUMBER: 19227.01  
DESIGNED BY: KL/MB  
DRAWN BY: KL/MB/NC  
CHECKED BY: KE

TOWN OF WRENTHAM - PLANNING BOARD

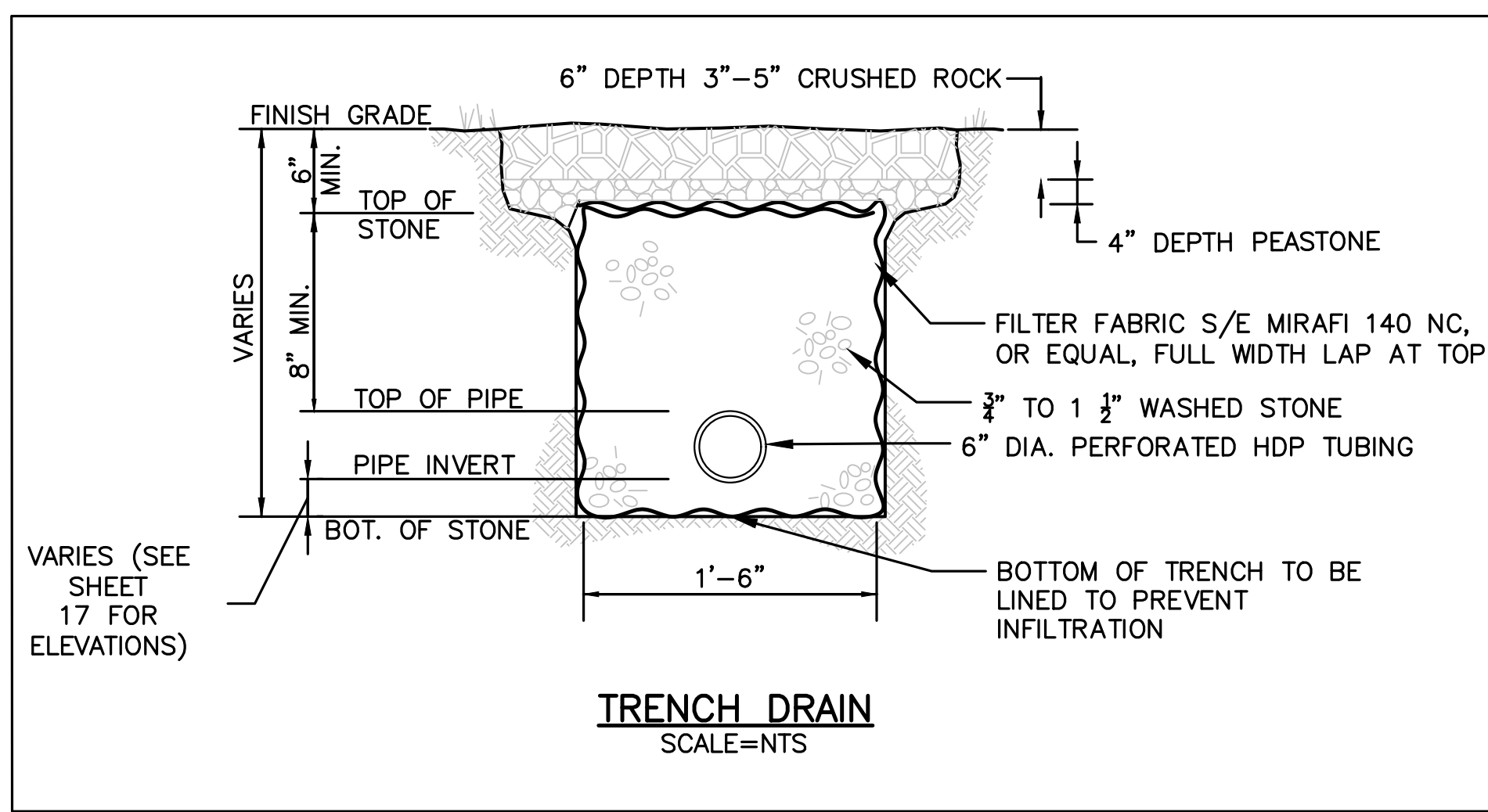
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C10.2

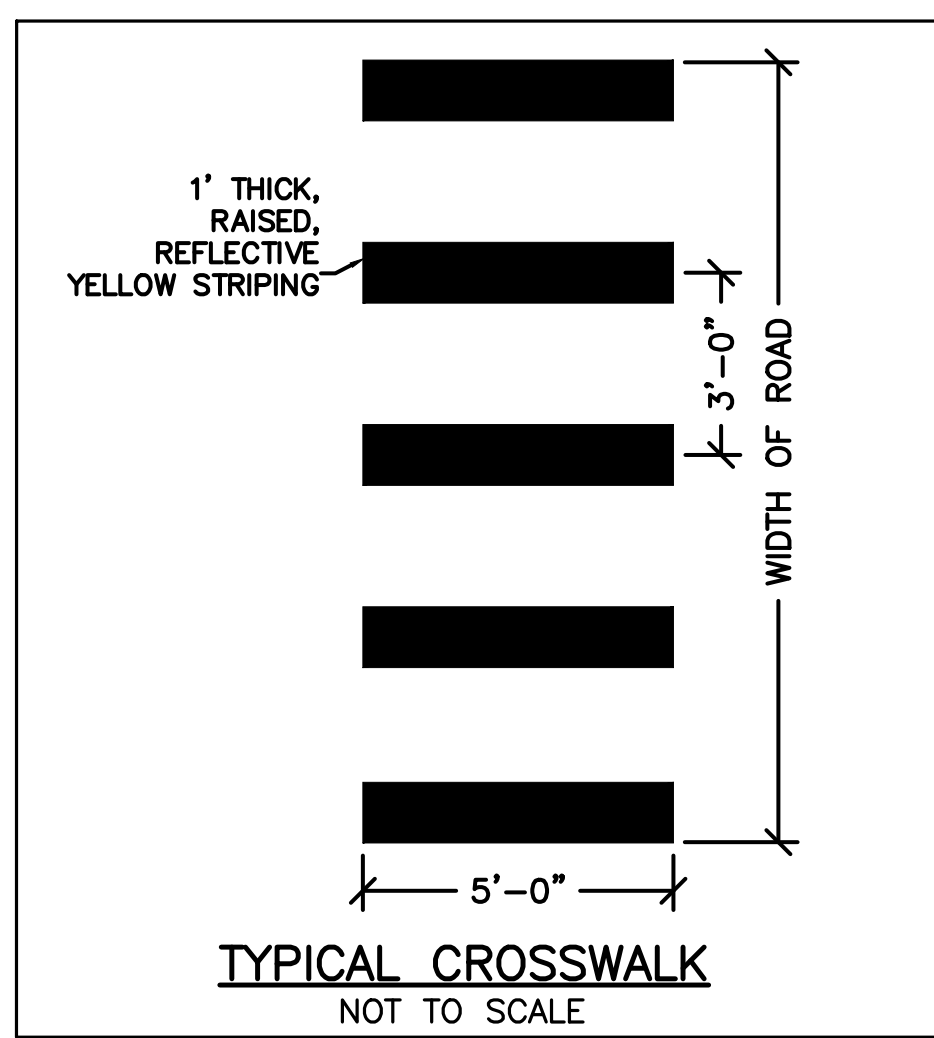
SHEET 30 OF 40



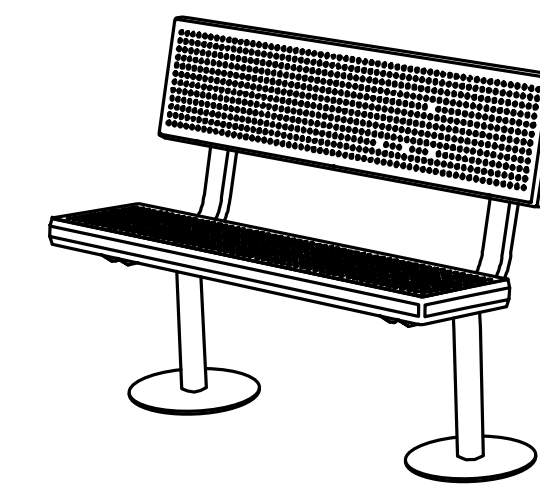
**WYE CONNECTION**  
NOT TO SCALE



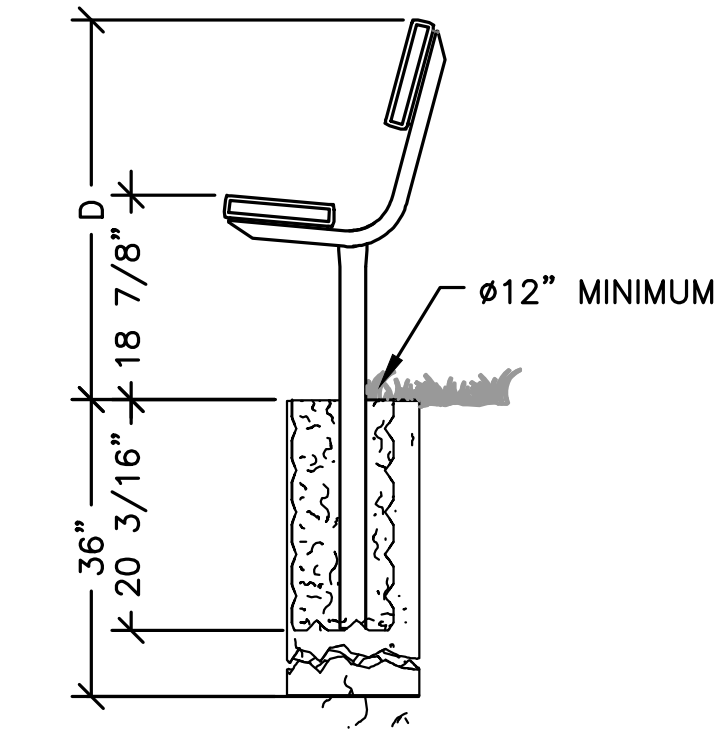
**TRENCH DRAIN**  
SCALE=NTS



**TYPICAL CROSSWALK**  
NOT TO SCALE



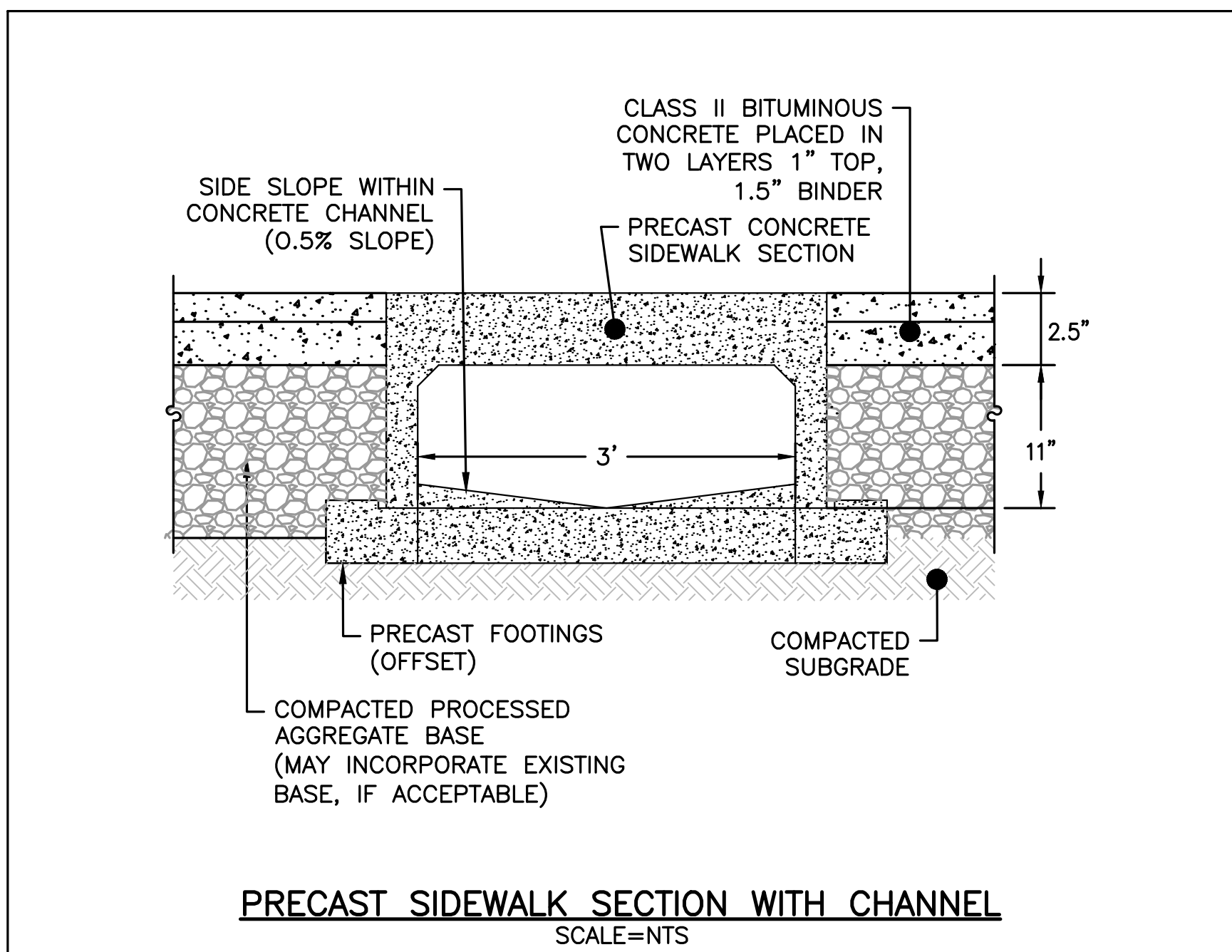
PERSPECTIVE



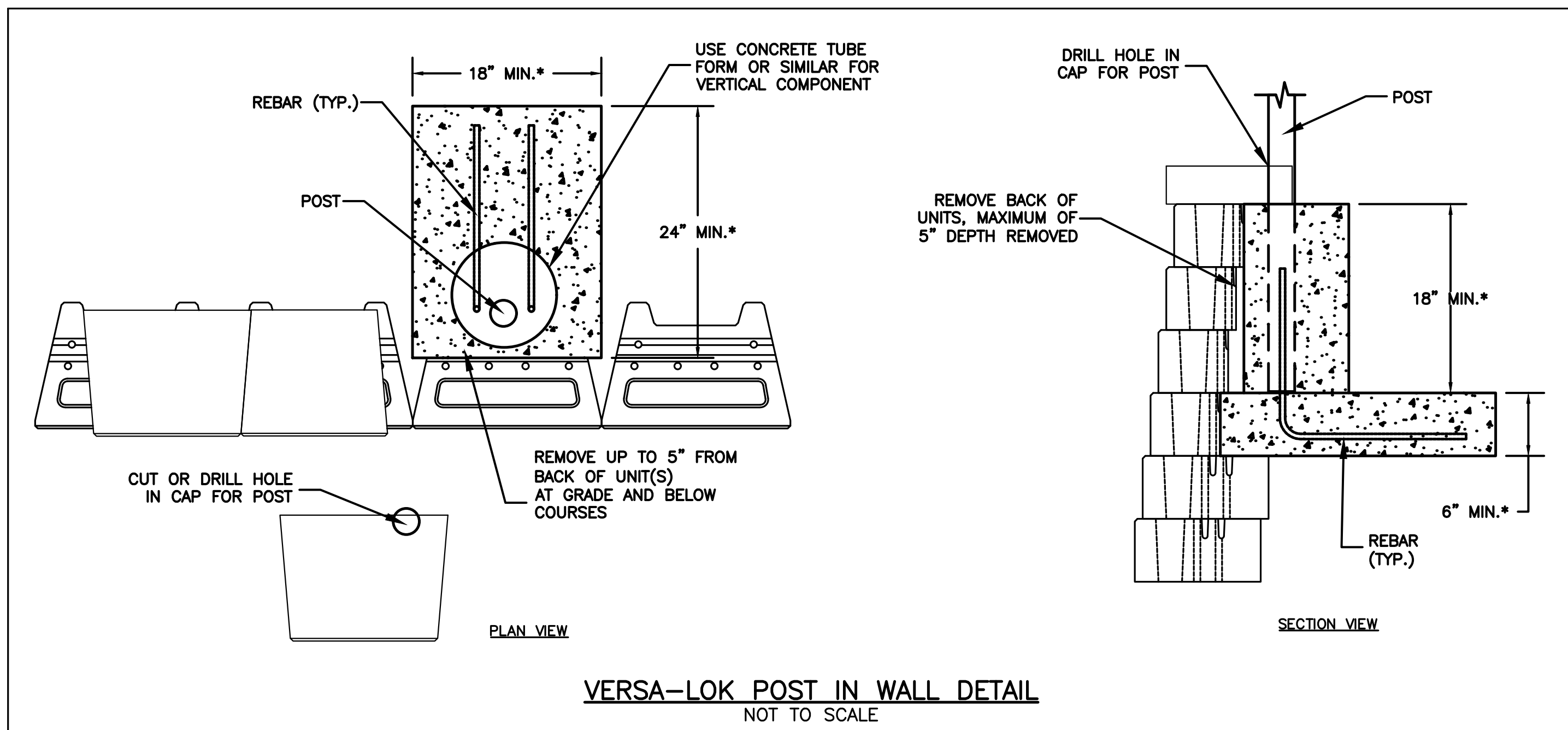
SIDE ELEVATION

NOTES:  
CONSTRUCTION- END FRAMES ARE ONE-PIECE, WELDED CONSTRUCTION WITH A BACK AND SEAT BRACKET OF 2-3/8" X 1-1/2" X 1/8" NOMINAL SIZED, DIE-FORMED CHANNEL, AND A 2.375" (2-3/8") O.D. POST TO MEET 2" NOMINAL SIZE SPECIFICATIONS. BENCH LEG IS DESIGNED TO BE PERMANENTLY EMBEDDED IN CONCRETE FOOTINGS.

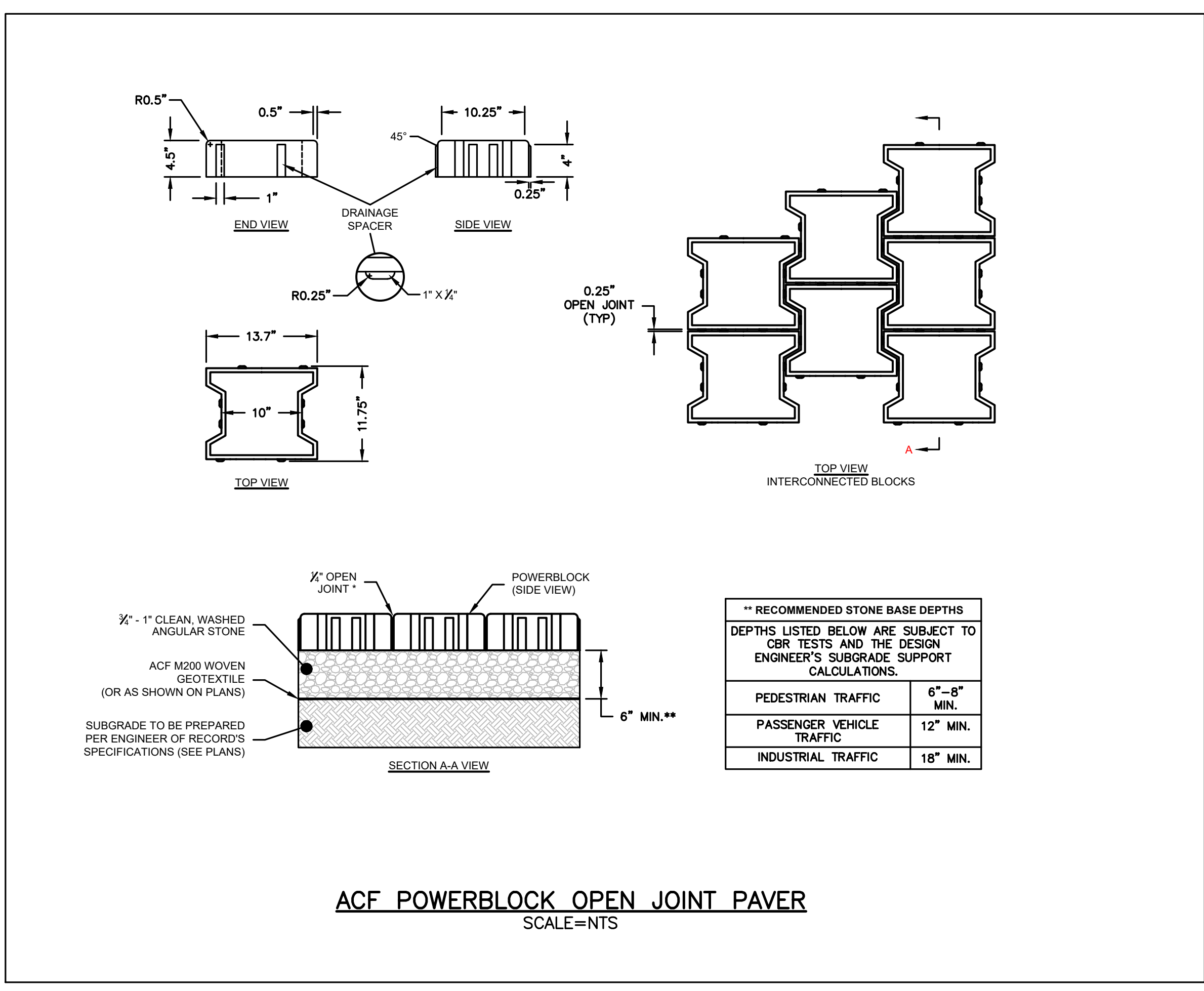
**TYPICAL BENCH SEATING**  
NOT TO SCALE



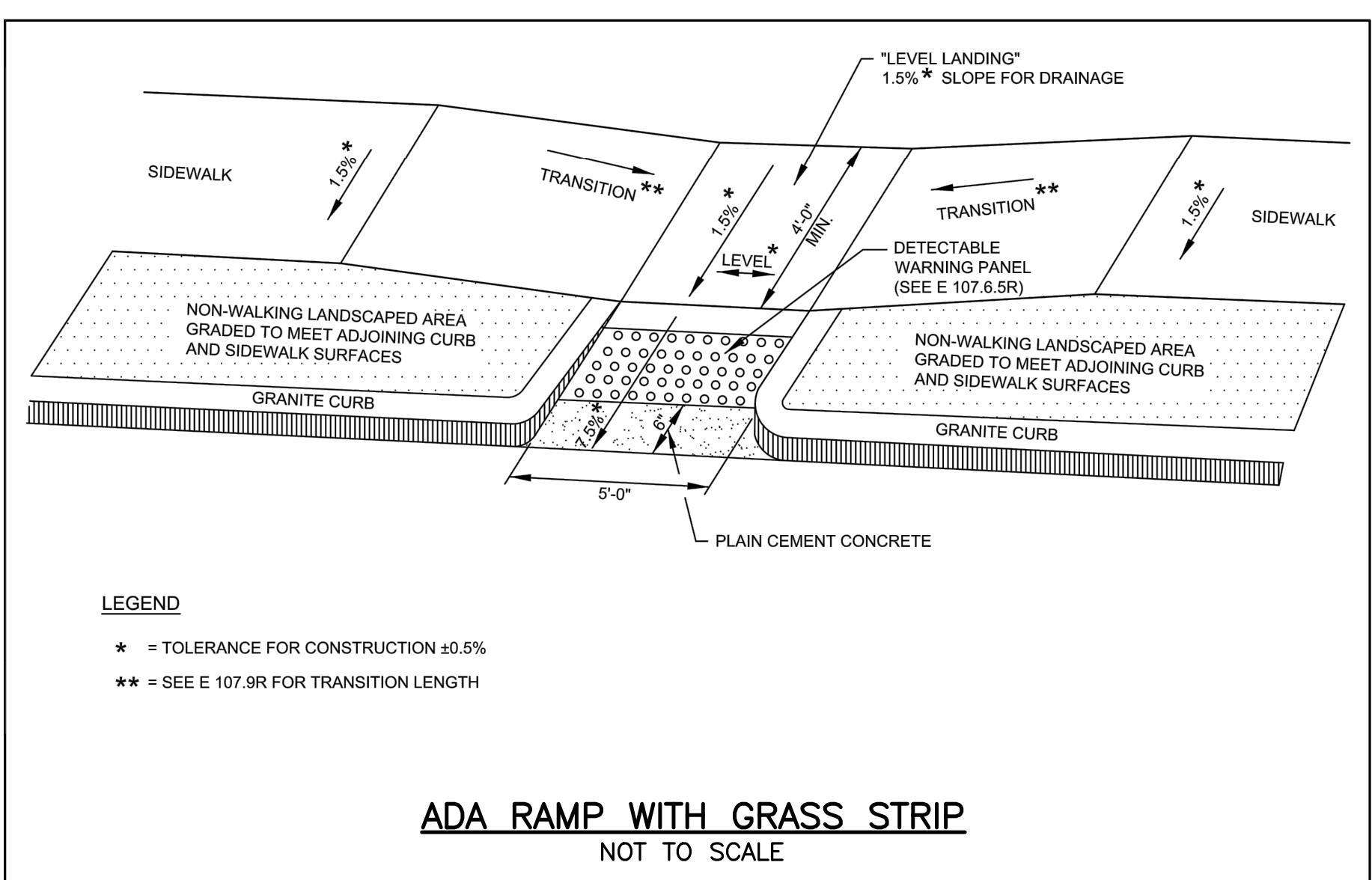
**PRECAST SIDEWALK SECTION WITH CHANNEL**  
SCALE=NTS



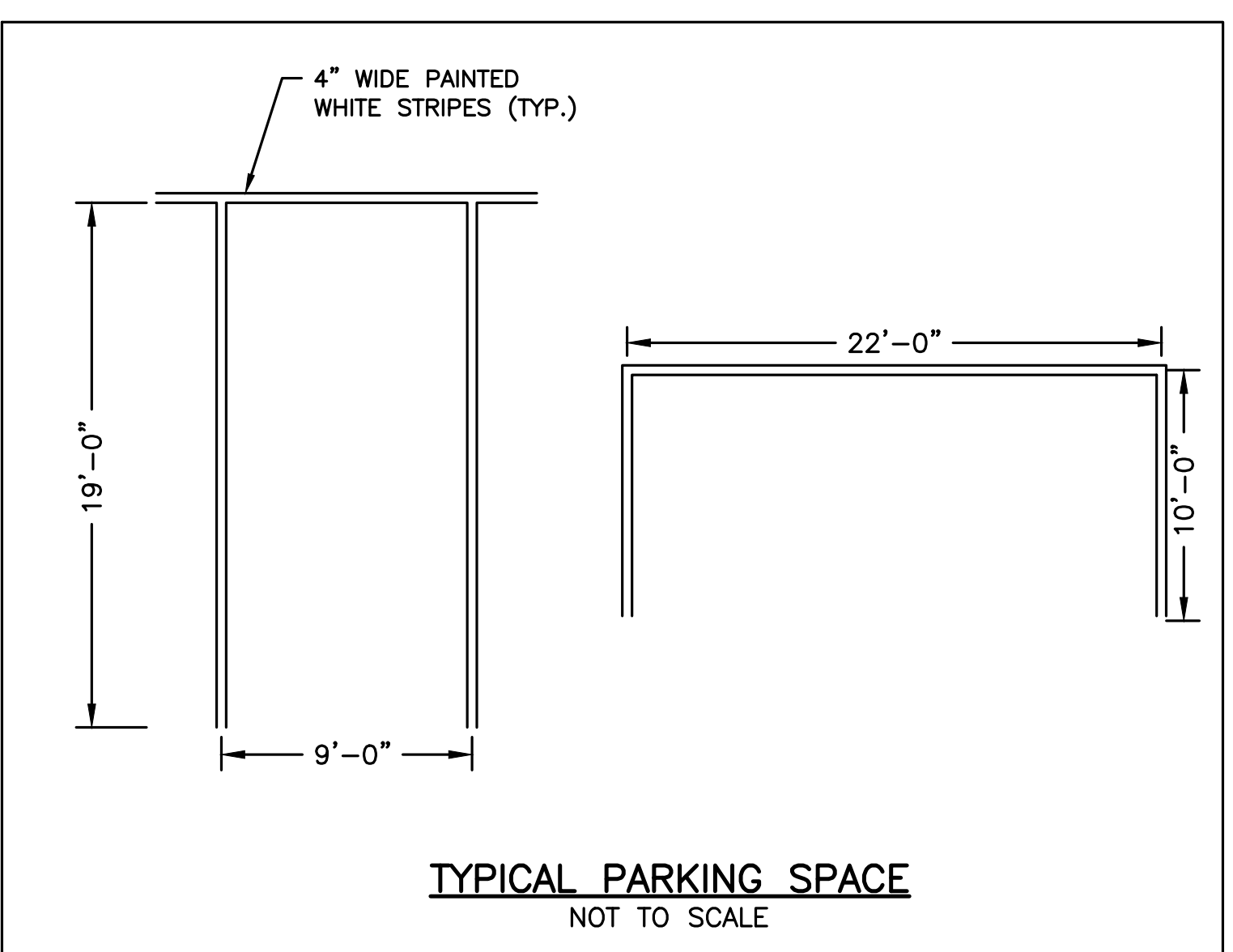
**VERSA-LOK POST IN WALL DETAIL**  
NOT TO SCALE



**ACF POWERBLOCK OPEN JOINT PAVER**  
SCALE=NTS



**ADA RAMP WITH GRASS STRIP**  
NOT TO SCALE



**TYPICAL PARKING SPACE**  
NOT TO SCALE

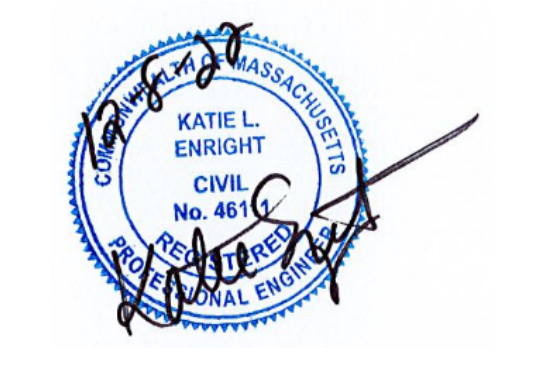
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SITE PLAN

DETAIL SHEET  
3 OF 12

TOWN OF WRENTHAM - PLANNING BOARD

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SIGNATURE	DATE

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CHECKED BY: KE  
C10.3  
SHEET 31 OF 40

SIGNATURE	DATE

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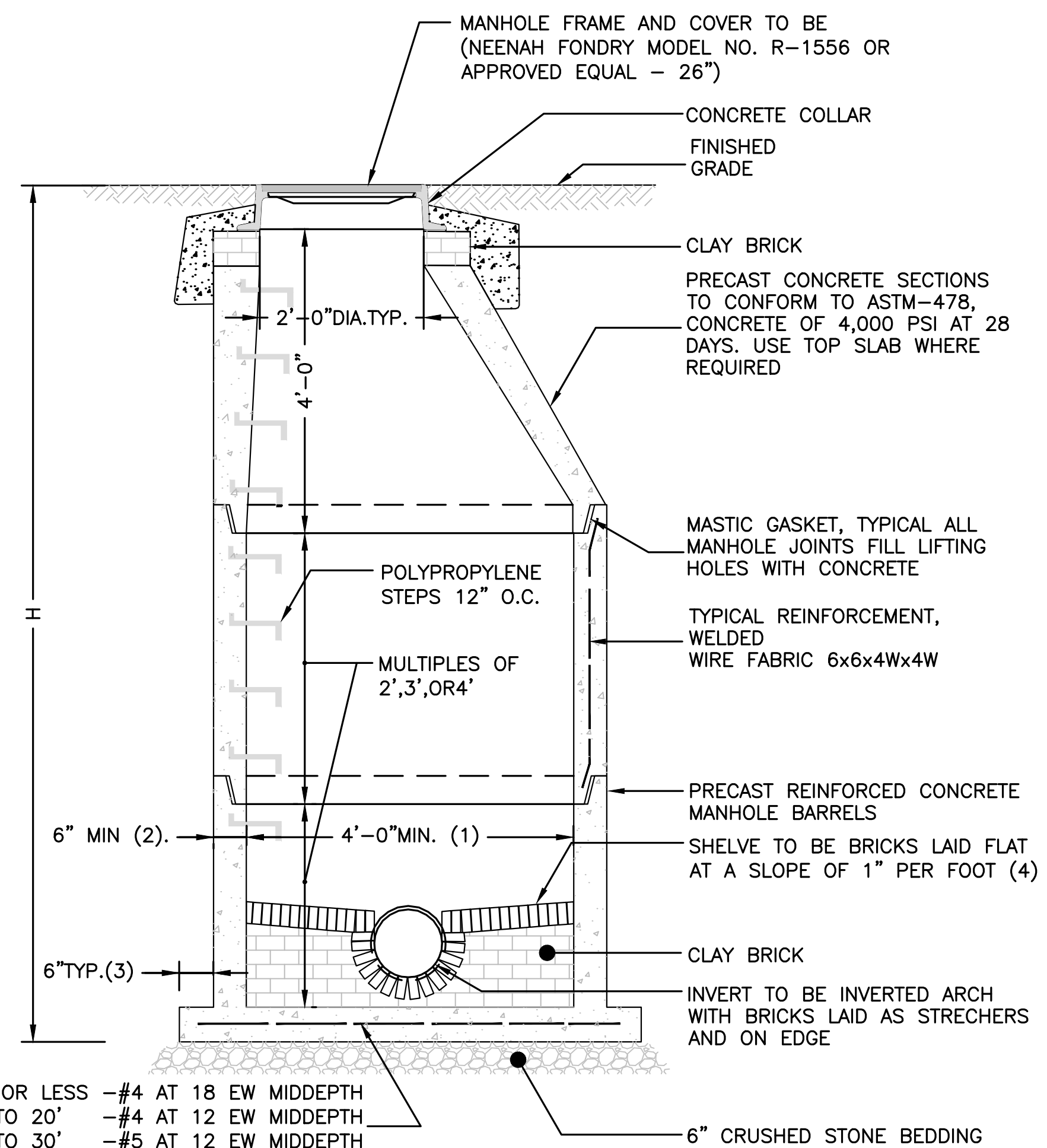


SITE PLAN

DETAIL SHEET  
 6 OF 12

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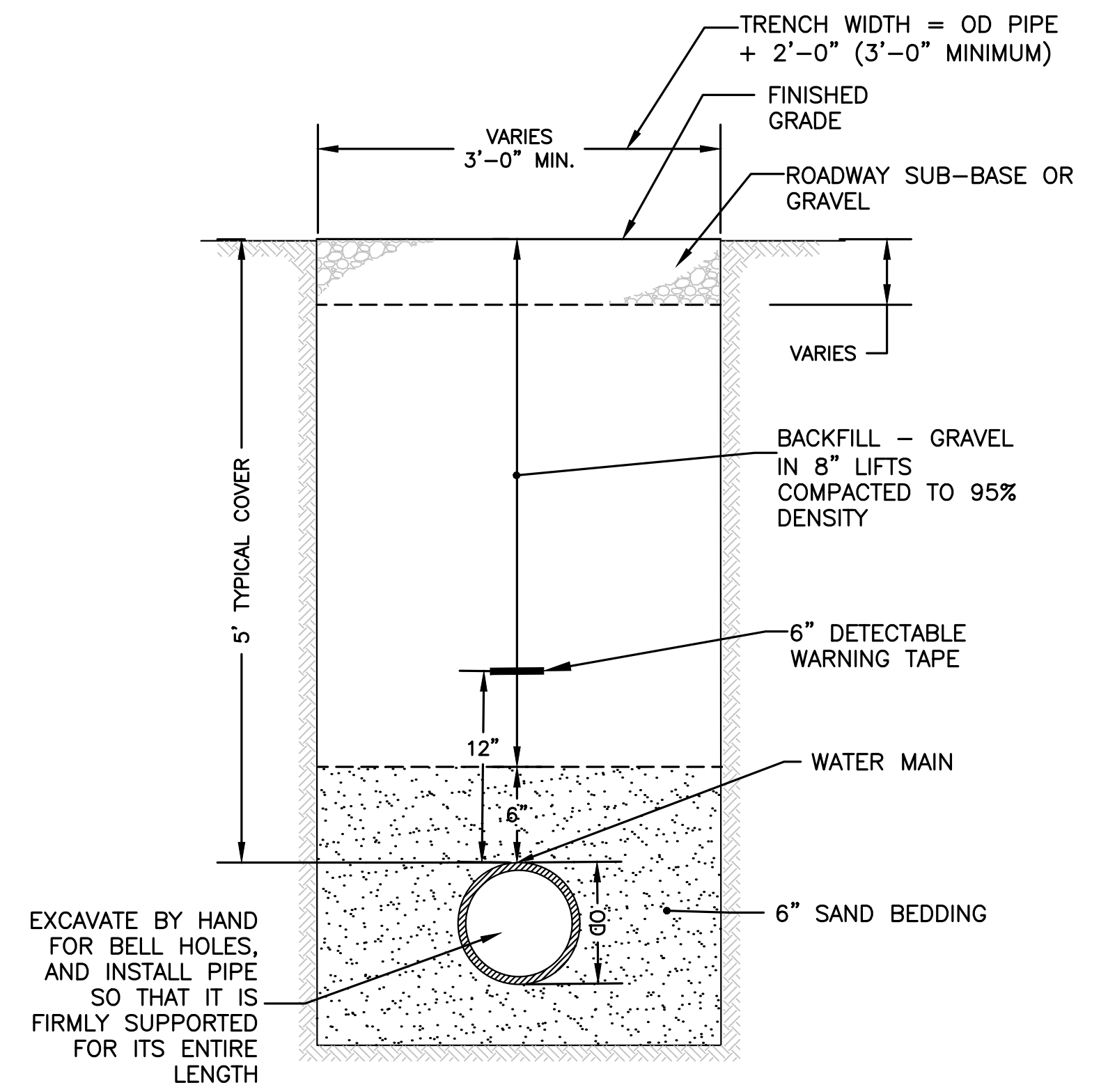
C10.6



H= 10' OR LESS -#4 AT 18 EW MIDDEPTH  
 H= 10' TO 20' -#4 AT 12 EW MIDDEPTH  
 H= 20' TO 30' -#5 AT 12 EW MIDDEPTH  
 IN ADDITION TO WELDED WIRE FABRIC

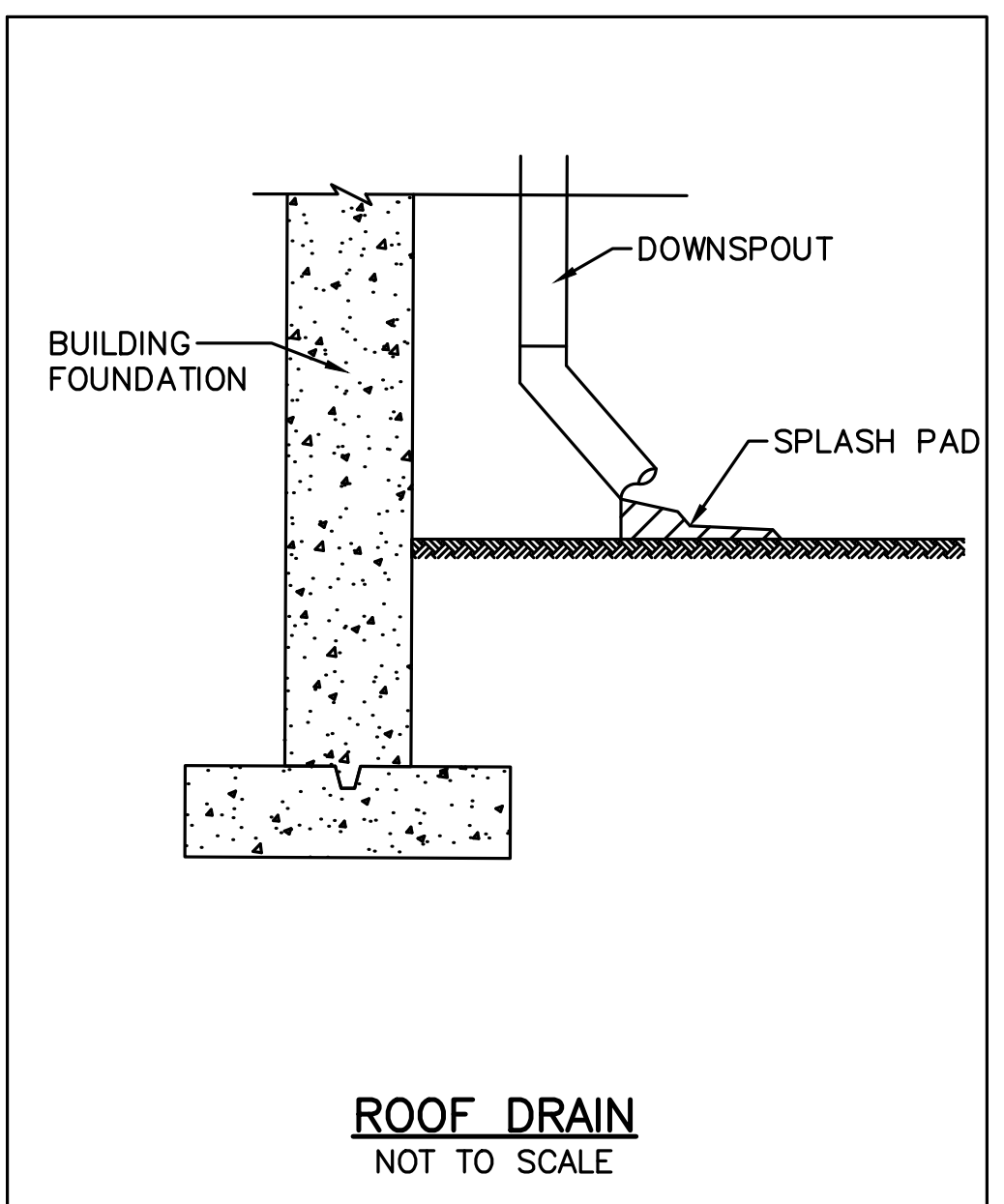
- NOTES:
- 5'-0" DIAMETER FOR ALL MANHOLE DEPTHS GREATER THAN 20 FEET OR WHEN ORDERED BY THE ENGINEER.
  - 6 INCH MIN. WALL THICKNESS AND 7 INCH MIN. BASE THICKNESS WITH 5'-0" DIAMETER MANHOLES.
  - 6 INCH LIP OPTIONAL UNLESS OTHERWISE NOTED. CONCRETE INVERT AND SHELF MAY BE SUBSTITUTED IN STORM DRAIN MANHOLES AS DIRECTED BY THE ENGINEER.

**PRECAST CONCRETE MANHOLE**  
 NOT TO SCALE

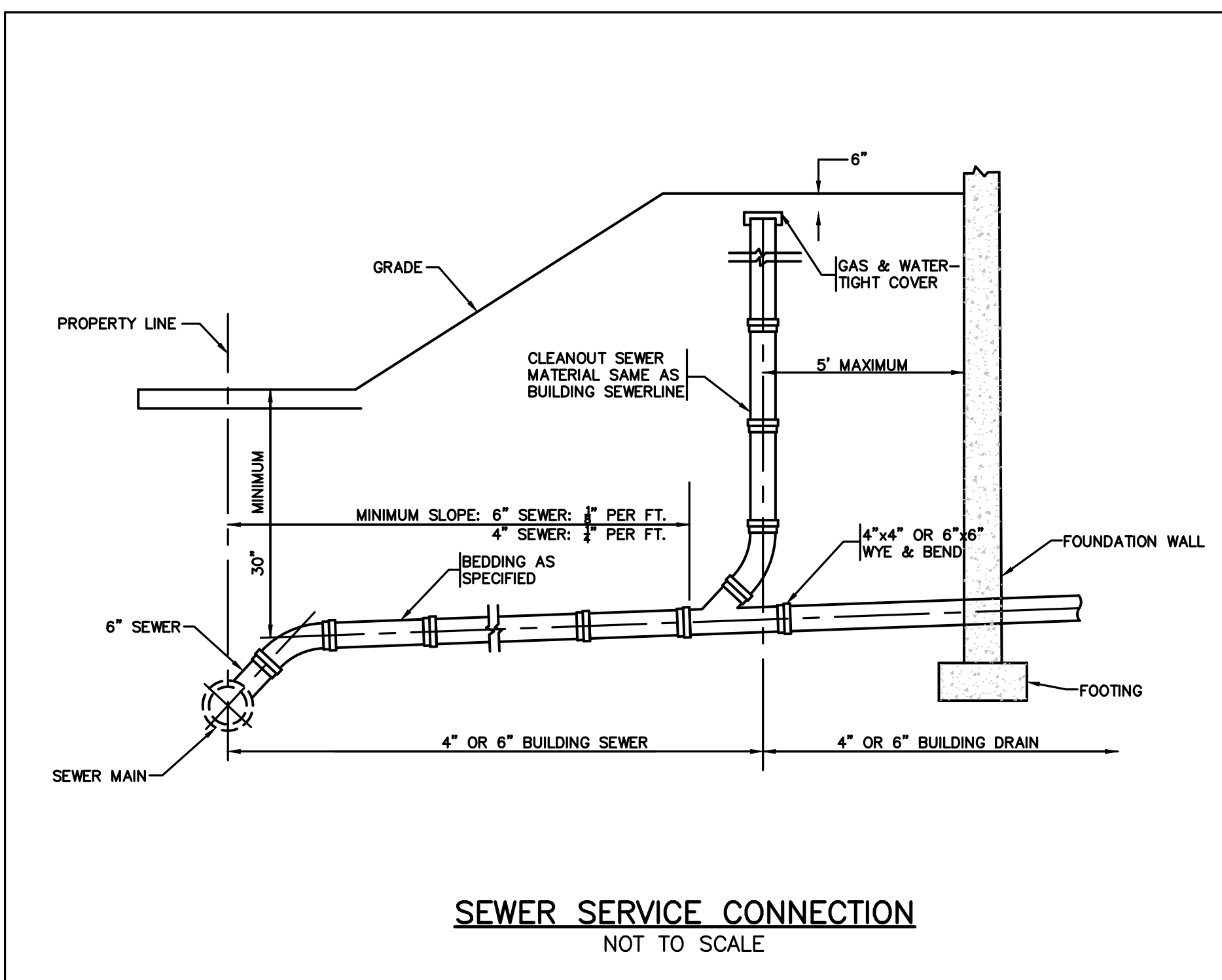


EXCAVATE BY HAND FOR BELL HOLES, AND INSTALL PIPE SO THAT IT IS FIRMLY SUPPORTED FOR ITS ENTIRE LENGTH

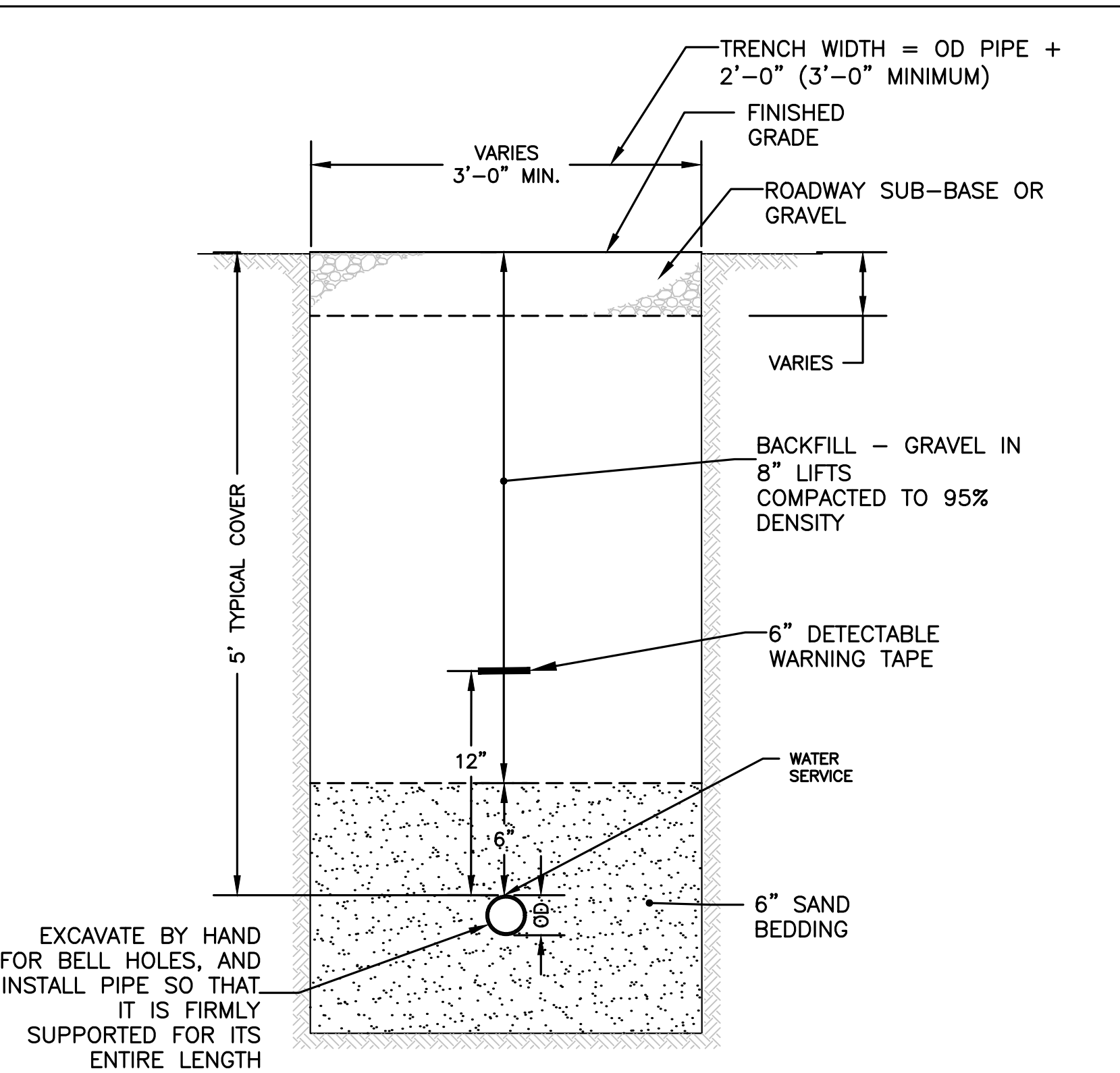
**TRENCH DETAIL — WATER MAIN**  
 NOT TO SCALE



**ROOF DRAIN**  
 NOT TO SCALE

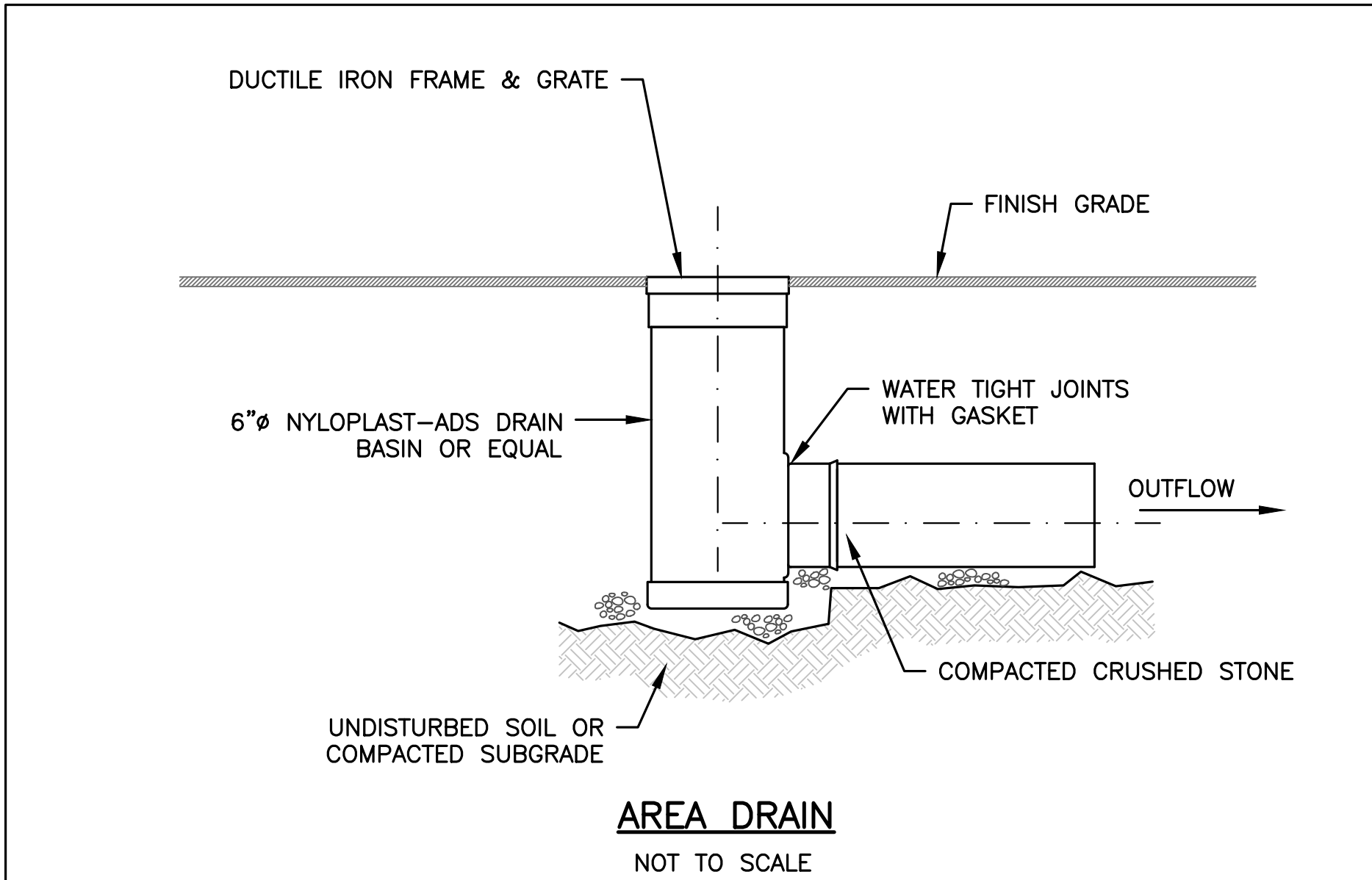


**SEWER SERVICE CONNECTION**  
 NOT TO SCALE

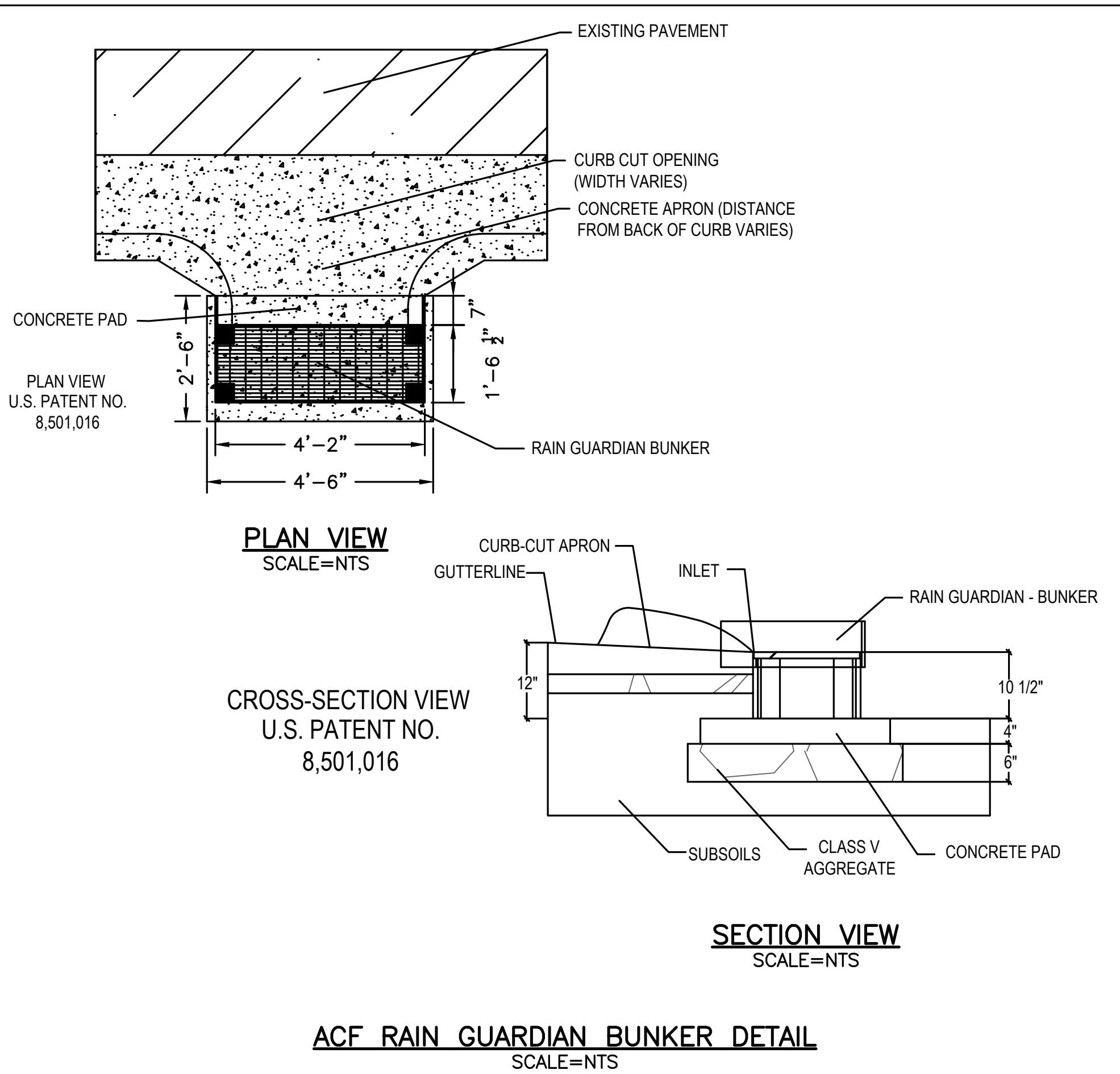


EXCAVATE BY HAND FOR BELL HOLES, AND INSTALL PIPE SO THAT IT IS FIRMLY SUPPORTED FOR ITS ENTIRE LENGTH

**TRENCH DETAIL — WATER SERVICE**  
 NOT TO SCALE

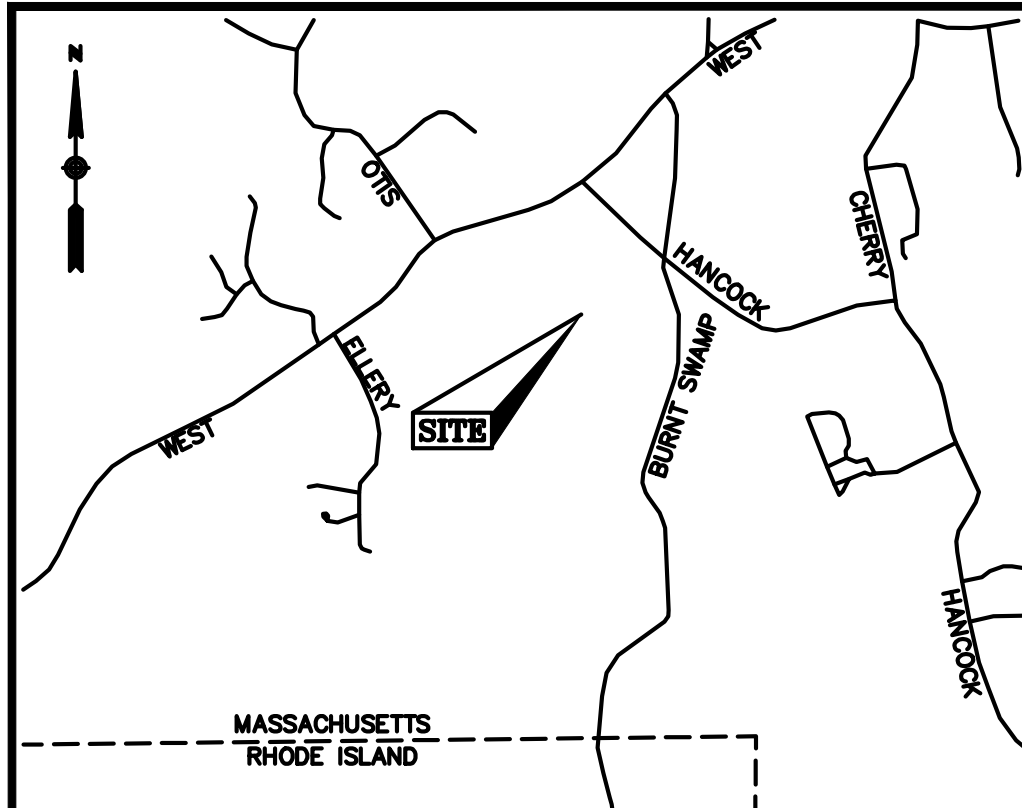


**AREA DRAIN**  
 NOT TO SCALE

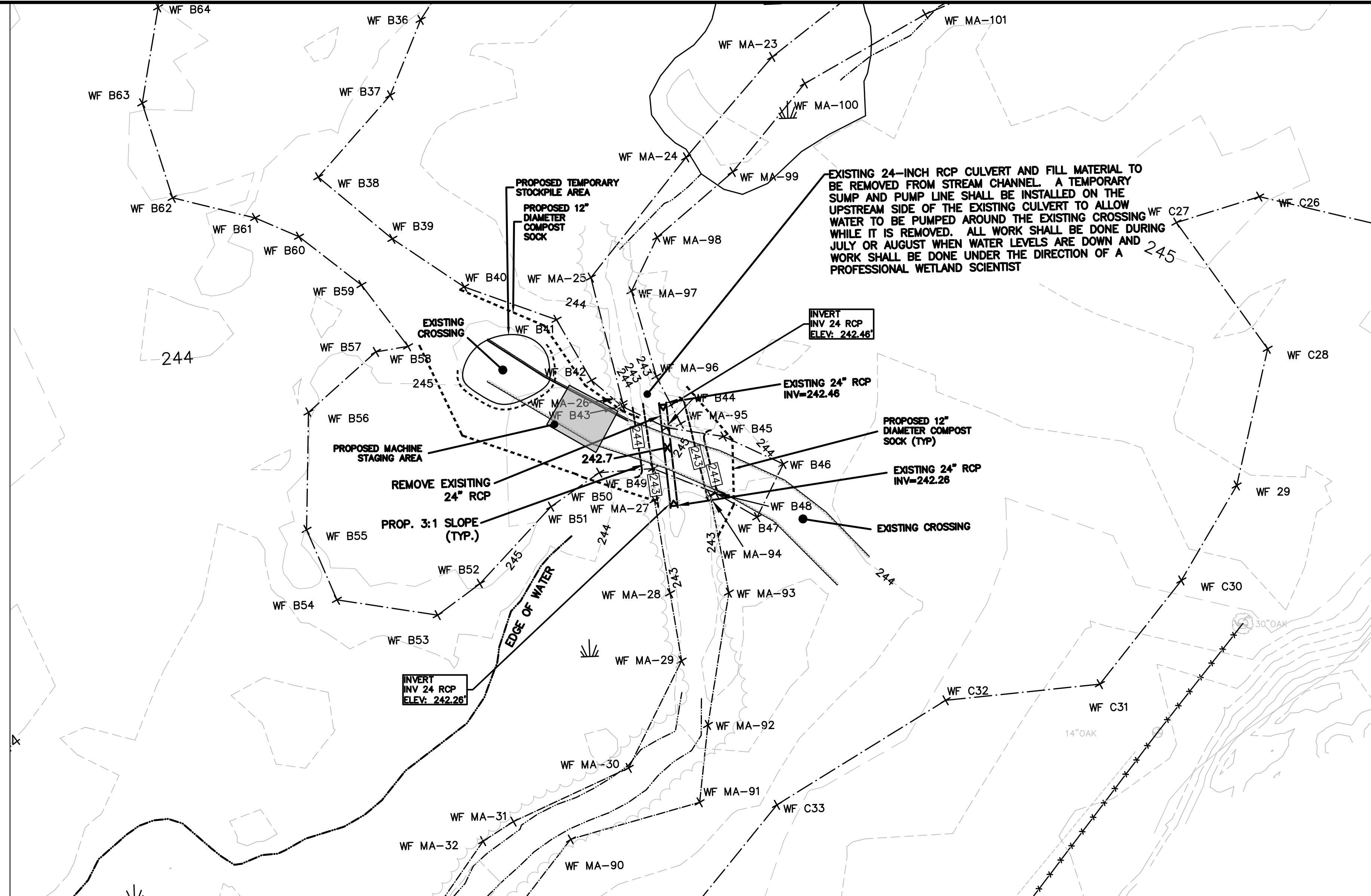


**ACF RAIN GUARDIAN BUNKER DETAIL**  
 SCALE=NTS

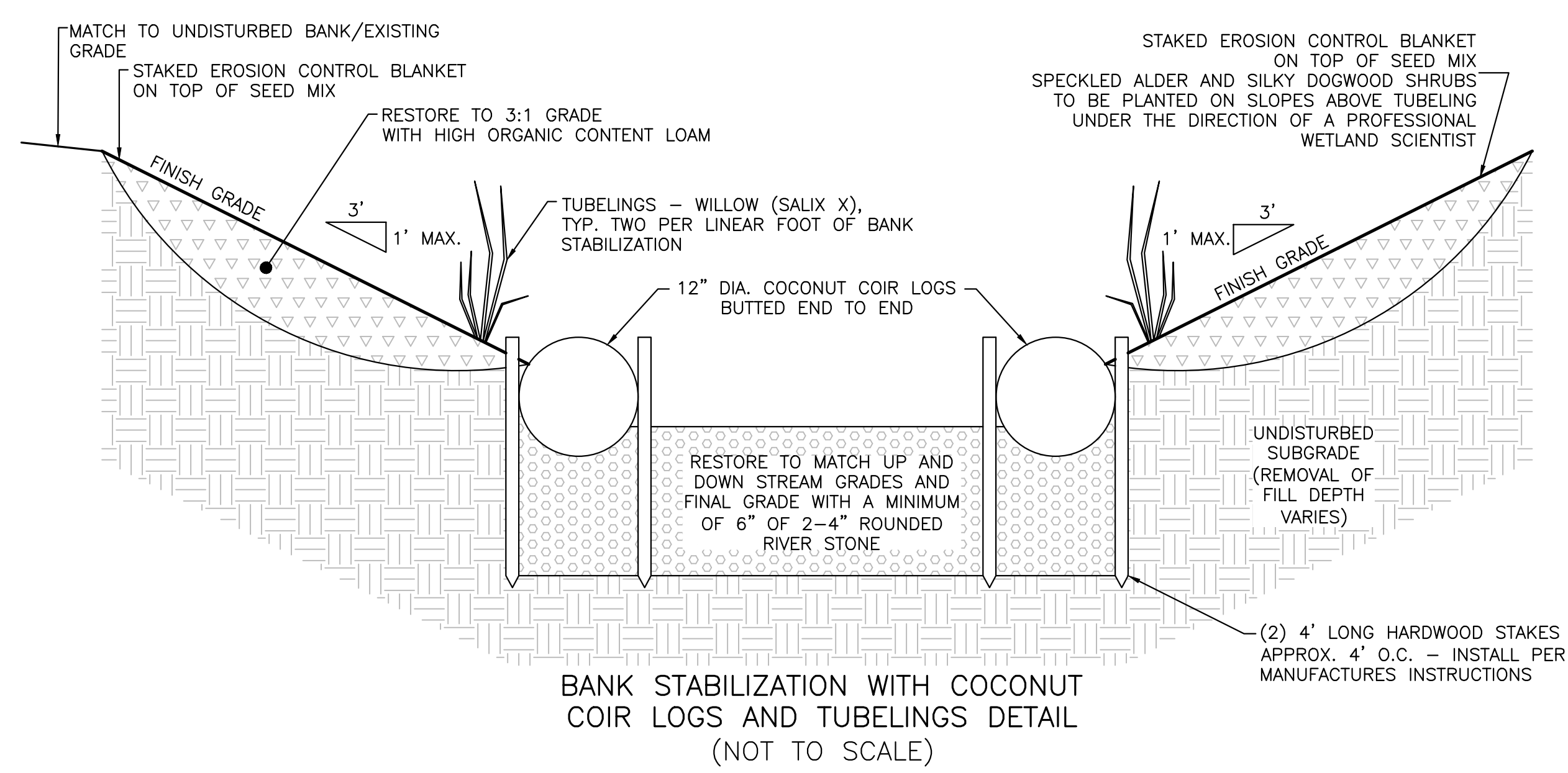




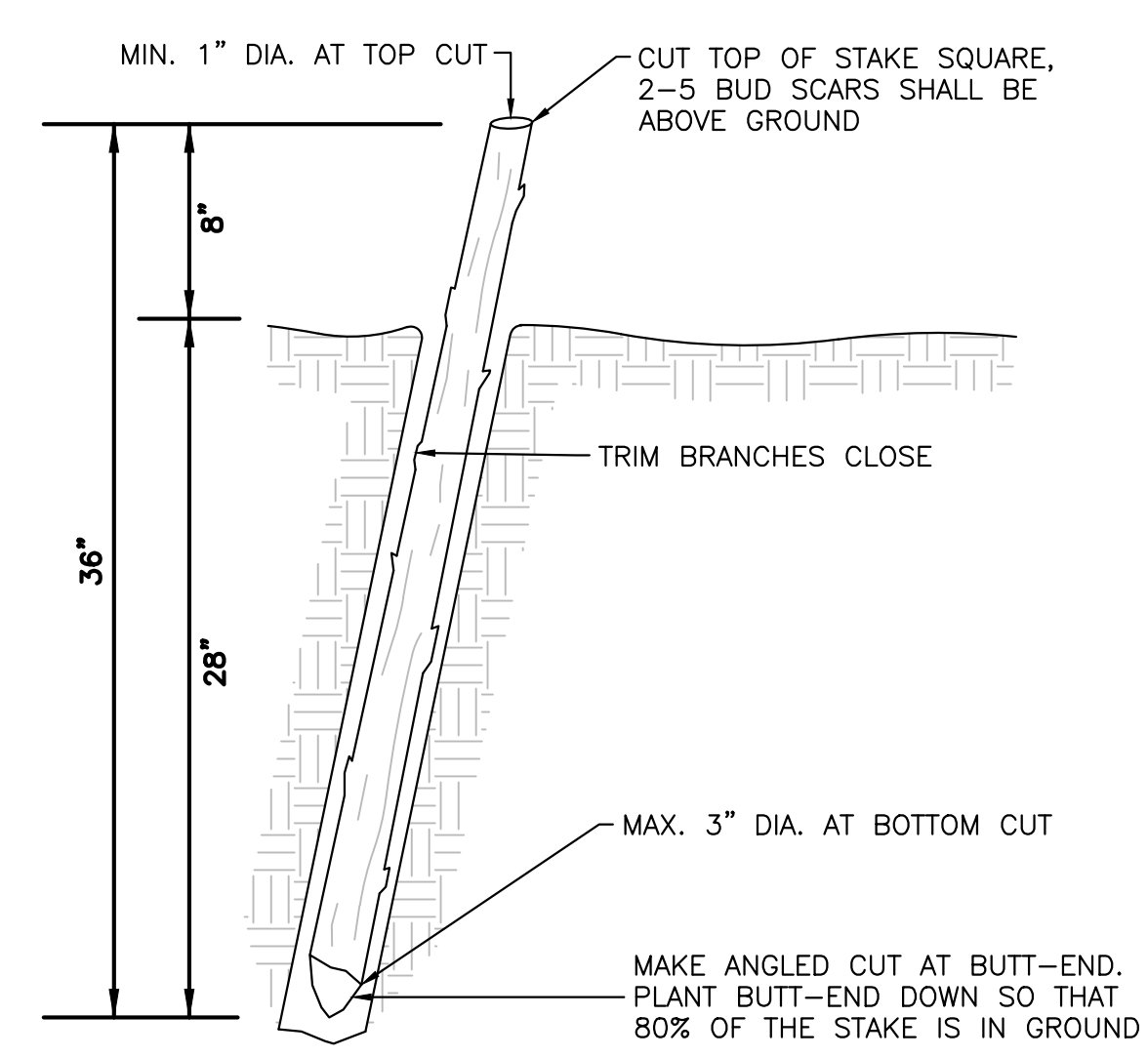
- LEGEND**
- CONCRETE BOUND
  - ⊙ DRILL HOLE FOUND
  - ⊙ IRON ROD FOUND
  - ⊙ IRON PIPE FOUND
  - STONE BOUND WITH DRILL HOLE
  - STONE BOUND
  - CATCH BASIN
  - ⊙ DRAIN MANHOLE
  - ⊙ UNKNOWN MANHOLE
  - ◁ CULVERT
  - ⊙ UTILITY POLE
  - ⊙ UTILITY POLE WITH LIGHT
  - ⊙ UTILITY POLE WITH LIGHT AND TRANSFORMER
  - ⊙ DECIDUOUS TREE
  - ⊙ CONIFER TREE
  - ⊙ SHRUB
  - ⊙ POST
  - ⊙ FLAG POLE
  - ⊙ MAILBOX
  - EOP EDGE OF PAVEMENT
  - BC BITUMINOUS CURB
  - VGC VERTICAL GRANITE CURB
  - CRW CONCRETE RETAINING WALL
  - SWL SOLID WHITE LINE
  - DYL DOUBLE YELLOW LINE
  - (R) RECORD INFORMATION
  - ABUTTERS LOT LINE
  - PROPERTY LINE
  - LINE OF COMMON OWNERSHIP
  - DEED LINE
  - CHAIN LINK FENCE
  - BARB WIRE FENCE
  - METAL/WIRE FENCE
  - METAL GUARDRAIL
  - STONE WALL
  - SHRUB LINE
  - TREE LINE
  - INTERMEDIATE CONTOURS
  - INDEX CONTOURS
  - WETLAND LINE
  - OVERHEAD WIRES
  - RECORD DRAIN LINE
  - RECORD WATER LINE



**CULVERT REMOVAL AND RESTORATION PLAN**  
SCALE: 1"=20'



**BANK STABILIZATION WITH COCONUT COIR LOGS AND TUBELINGS DETAIL**  
(NOT TO SCALE)



**DENSE STAKING - WILLOW STAKE INSTALLATION DETAIL**  
(NOT TO SCALE)

**STREAM RESTORATION AREA CONSTRUCTION METHODOLOGY:**

1. EROSION CONTROLS SHALL BE PLACED UNDER THE DIRECTION OF A PROFESSIONAL WETLAND SCIENTIST. THE CONTRACTOR SHALL HAVE 50 LINEAR FEET OF 12 INCH MULCH SOCK ((5) - 10 FOOT SECTIONS) AS WELL AS 50 LINEAR FEET OF SILT FENCE.
2. IF WATER IS STILL VISIBLE IN THE CHANNEL PRIOR TO CONSTRUCTION, A TEMPORARY SUMP, WITH PUMP, SHALL BE INSTALLED ON THE UPSTREAM SIDE OF THE CULVERT TO COLLECT WATER SO THAT IT CAN BE PUMPED AROUND THE WORK AREA. IT IS RECOMMENDED THAT WORK BE DONE IN LATE JULY OR MID AUGUST TO TAKE ADVANTAGE OF DRY CONDITIONS.
3. FILL MATERIAL SHALL BE REMOVED FROM THE WORK AREA UNTIL THE PROPER GRADE IS ACHIEVED. IT IS IMPORTANT THAT THE GRADE OF THE STREAM CHANNEL BE 0.5 FEET LOWER THAN THE PROPOSED FINISH GRADE SO THAT IT CAN BE BROUGHT UP TO GRADE WITH A MINIMUM OF 6-INCHES OF ROUND WASHED RIVER ROCK. THE SIDE SLOPES SHALL ALSO BE 0.5 FEET LOWER THAN THE PROPOSED FINISH GRADE SO THAT A MINIMUM OF 6-INCHES OF LOAM CAN BE USED TO BRING THE SLOPES TO THE PROPOSED FINISH GRADE. THE EXCAVATION EFFORT SHALL BE DONE UNDER THE DIRECTION OF A PROFESSIONAL WETLAND SCIENTIST.
4. A 12-INCH COCONUT COIR LOG SHALL BE PLACED ALONG THE TOE OF THE NEWLY FORMED SLOPE AND BE STAKED ACCORDING TO THE BANK STABILIZATION WITH COIR LOGS AND TUBELINGS DETAIL.
5. FOLLOWING PLACEMENT OF THE COIR LOGS, THE BANK SHALL BE SEEDED WITH NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES AT AN APPLICATION RATE OF 1250 SQ FT/LB. FOLLOWING SEEDING THE SLOPES SHALL BE COVERED WITH EROSION CONTROL BLANKETS, NORTH AMERICAN GREEN, ERONET, 575 OR EQUAL SHALL BE USED.
6. WILLOW TUBELINGS SHALL BE PLANTED AS SHOWN ON THE BANK STABILIZATION WITH COCONUT COIR LOGS AND TUBELINGS DETAIL UNDER THE DIRECTION OF A PROFESSIONAL WETLAND SCIENTIST. FOLLOWING THE PLANTING EFFORT, AT LEAST 75% OF THE SURFACE OF THE REPLACEMENT AREA MUST BE RE-ESTABLISHED WITH INDIGENOUS WETLAND PLANT SPECIES WITHIN TWO (2) GROWING SEASONS. MONITORING WILL OCCUR DURING THIS PERIOD AND SPECIES SHALL BE REPLACED UNDER THE DIRECTION OF A PROFESSIONAL WETLAND SCIENTIST UNTIL AT LEAST 75% COVERAGE IS ACHIEVED. IF AT THE END OF THE SECOND COMPLETE GROWING SEASON PROPER COVERAGE IS NOT ACHIEVED, MONITORING SHALL CONTINUE UNTIL PROPER COVERAGE IS ACHIEVED. DURING THE MONITORING PERIOD INVASIVE SPECIES SHALL BE REMOVED BY HAND PULLING AND BE REMOVED FROM THE SITE.

- NOTES:**
1. TUBELINGS SHALL BE FURNISHED IN NURSERY GROWN CONTAINERS--GROWN FOR A MINIMUM OF ONE SEASON AND HARDENED OFF AND SHALL BE AS MANUFACTURED BY NEW ENGLAND WETLAND PLANTS AMHERST, MA OR EQUAL.
  2. TUBELINGS SHALL BE INSTALLED IN A STRAIGHT LINE BEHIND COIR LOGS. PLANT TUBELINGS BY DRIVING A 1.75" DIAMETER HOLE INTO SOIL. WHEN TUBELINGS ARE REMOVED FROM CONTAINERS ENSURE THAT ROOTS REMAIN ENCASED IN POTTING SOIL. FIT TUBELINGS INTO DRIVEN HOLES AND FIRM UP SOIL AROUND PLANTED TUBELING. IMMEDIATELY AFTER PLANTING SOAK PLANTED AREAS AND CONTINUE TO KEEP MOIST FOR A MINIMUM OF TWO WEEKS.
  3. SPECKLED ALDER AND SILKY DOGWOOD SHRUBS TO BE PLANTED ON SLOPES ABOVE TUBELINGS UNDER THE DIRECTION OF A PROFESSIONAL WETLAND SCIENTIST.
  4. THE PROPOSED CROSSING WILL BE LOCATED ON THE PROPOSED SHELDON MEADOW PROPERTY (OFF HANCOCK STREET), HOWEVER THIS PART OF THE PROJECT WILL BE SCHEDULED AND ACCESSED THROUGH SHELDON MEADOW (OFF WEST STREET)

SPECIES LIST		
PUSSY WILLOW	SALIX DISCOLOR	(10) TUBELINGS
SILKY WILLOW	SALIX SERICEA	(10) TUBELINGS
SAND BAR WILLOW	SALIX EXIGULA	(10) TUBELINGS
SPECKLED ALDER	ALNUS INCANA	(5) 3' - 4'
SILKY DOGWOOD	CORNUS AMOMUM	(5) 3' - 4'

- NOTES:**
1. SOAK CUTTINGS FOR AT LEAST 24 HOURS PRIOR TO INSTALLATION. DO NOT STORE CUTTINGS DRY AND/OR IN DIRECT SUNLIGHT.
  2. TAMP THE SOIL AROUND THE STAKE FOLLOWING INSTALLATION.
  3. ANGLE OF WILLOW STAKES MAY VARY. SLIGHT ANGLE DOWNSTREAM IS PREFERRED.
  4. SPACE CUTTINGS AT 2 PER LINEAR FOOT.

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**SITE PLAN**

**DETAIL SHEET**  
12 OF 12

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SHEET 40 OF 40