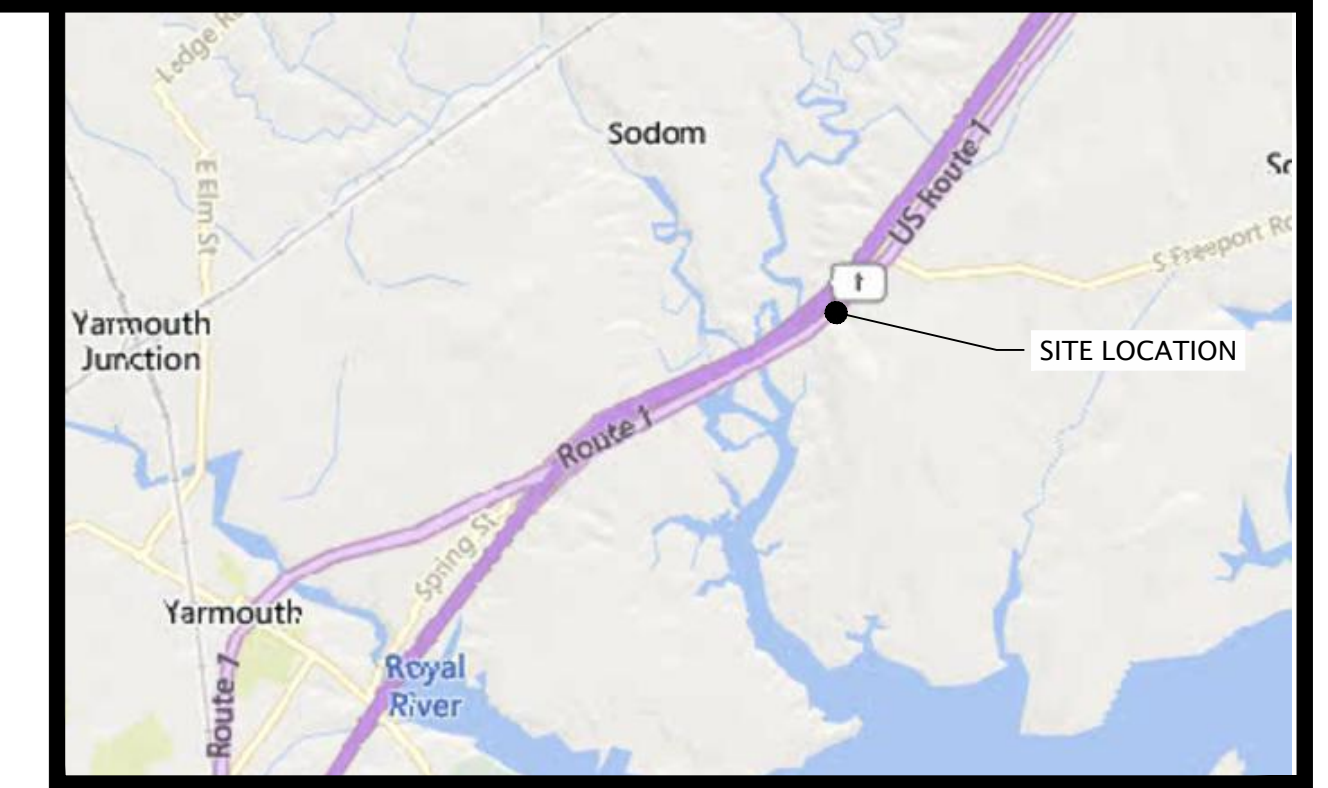


Route 1 Multi-Use Trail Freeport, Maine 04032



LOCUS MAP:
SCALE: 1" = 1,000'



SCALE: 1" = 80'

SHEET INDEX:

LIST	DESCRIPTION	SHEET
1 OF 10	COVER SHEET	COVER
2 OF 10	EXISTING CONDITIONS & DEMOLITION PLAN	C-100
3 OF 10	EXISTING CONDITIONS & DEMOLITION PLAN I	C-101
4 OF 10	EXISTING CONDITIONS & DEMOLITION PLAN II (ADD ALTERNATE #1)	C-102
5 OF 10	SITE LAYOUT AND GRADING PLAN	C-200
6 OF 10	SITE LAYOUT AND GRADING PLAN I	C-201
7 OF 10	SITE LAYOUT AND GRADING PLAN II (ADD ALTERNATE #1)	C-202
8 OF 10	EROSION & SEDIMENT CONTROL NOTES	C-300
9 OF 10	CIVIL DETAILS I	C-301
10 OF 10	SITE CIVIL NOTES AND DETAILS	C-302

PREPARED FOR:
TOWN OF FREEPORT
30 Main Street
Freeport, Maine 04032

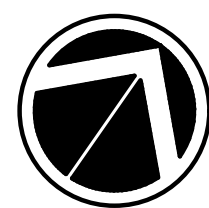
CIVIL ENGINEERING & PERMITTING:



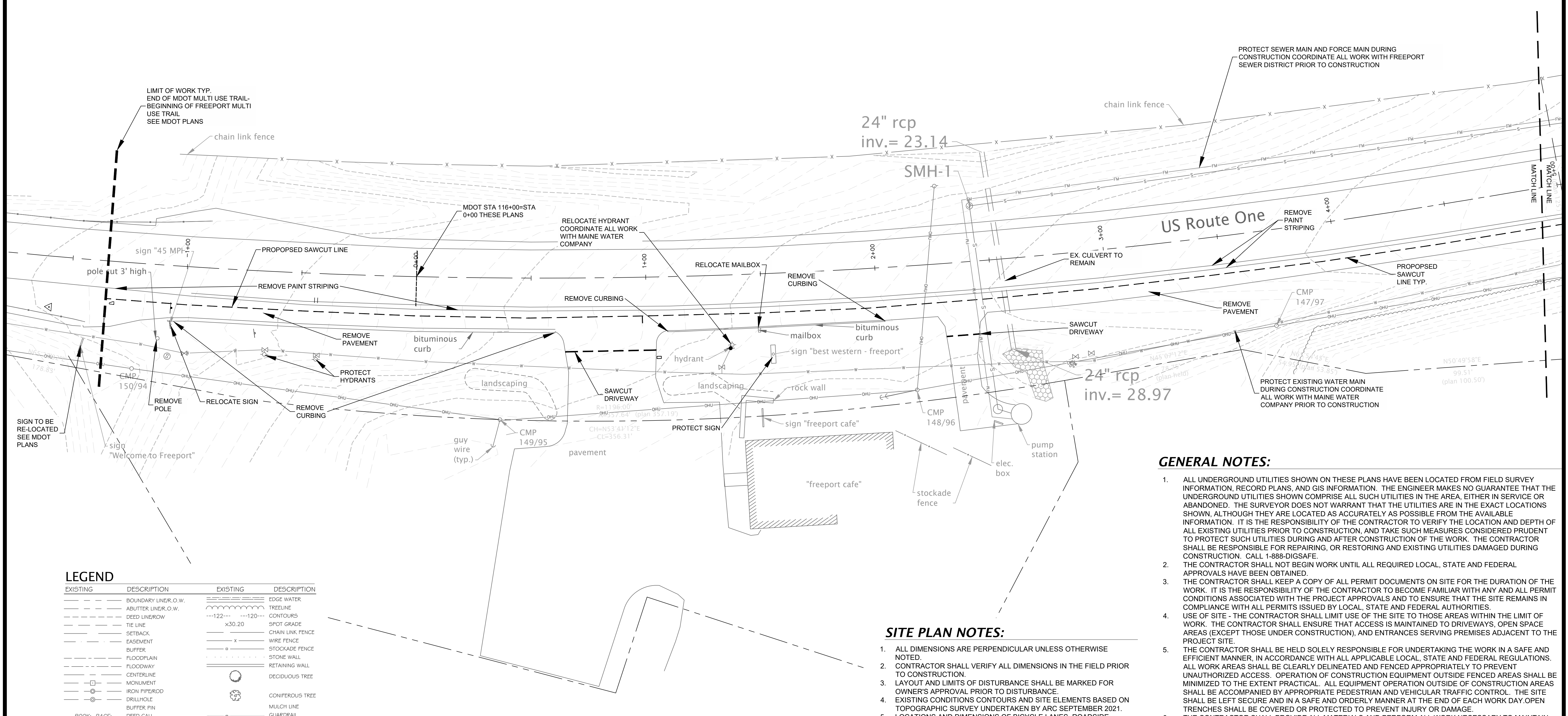
541 US ROUTE ONE, SUITE 21
FREEPORT, MAINE 04032

ISSUED FOR BIDDING:
FEBRUARY, 2024

ISSUED FOR BIDDING
NOT FOR CONSTRUCTION



NORTH



LEGEND

EXISTING	DESCRIPTION	EXISTING	DESCRIPTION
---	BOUNDARY LINE, O.W.	---	EDGE WATER
---	ABUTTER LINE, O.W.	---	TREELINE
---	DEED LINE/ROW	---	CONTOURS
---	TIE LINE	---	SPOT GRADE
---	SETBACK	---	CHAIN LINK FENCE
---	EASEMENT	---	WIRE FENCE
---	BUFFER	---	STOCKADE FENCE
---	FLOODPLAIN	---	STONE WALL
---	FLOODWAY	---	RETAINING WALL
---	CENTERLINE	---	DECIDUOUS TREE
---	MONUMENT	---	CONIFEROUS TREE
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---	BUFFER FIN	---	BOLLARD
---	DEED CALL	---	RAILROAD
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---	SOILS BOUNDARY	---	GAS GATE VALVE
---	ZONE LINE	---	GAS METER
---	ZONE LINE ON PL	---	WATER
---	BENCHMARK	---	WATER GATE VALVE
---	SURVEY CONTROL	---	WATER SHUT OFF
---	TEST PIT	---	HYDRANT
---	MW-2	---	POTABLE WELL
---	B-3	---	SEWER
---	BORING	---	FM
---	REACH	---	SEWER MH
---	TCPATH	---	SD
---	WATERSHED	---	STORM DRAIN
---	BUILDING	---	UD
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---	UPLAND	---	CATCH BASIN
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		---	UTILITY POLE
		---	GUY
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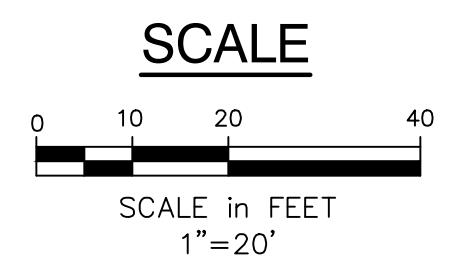
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- STATE OF MAINE DEPARTMENT OF TRANSPORTATION, YARMOUTH-FREEPORT CUMBERLAND COUNTY COUSINS RIVER BRIDGE OVER COUSINS RIVER, US ROUTE 1, PROJECT NO. STP-2172(500), PROJECT LENGTH 0.293 MI., BRIDGE NO. 2183 DATED NOV. 2023
 - RIGHT OF WAY SURVEY U.S.ROUTE ONE AND OLD SOUTH FREEPORT ROAD, FREEPORT MAINE, MADE FOR THE TOWN OF FREEPORT, PREPARED BY OWEN HASKELL, INC., JANUARY, 2024.

ISSUED FOR REVIEW - NOT FOR CONSTRUCTION



REV	DATE	DESCRIPTION

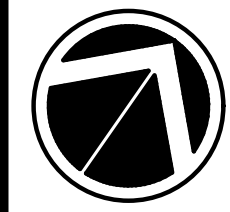
**ROUTE 1
MULTI-USE TRAIL
EXISTING CONDITIONS
& DEMOLITION PLAN**

TOWN OF FREEPORT
30 MAIN STREET
FREEPORT, MAINE 04032

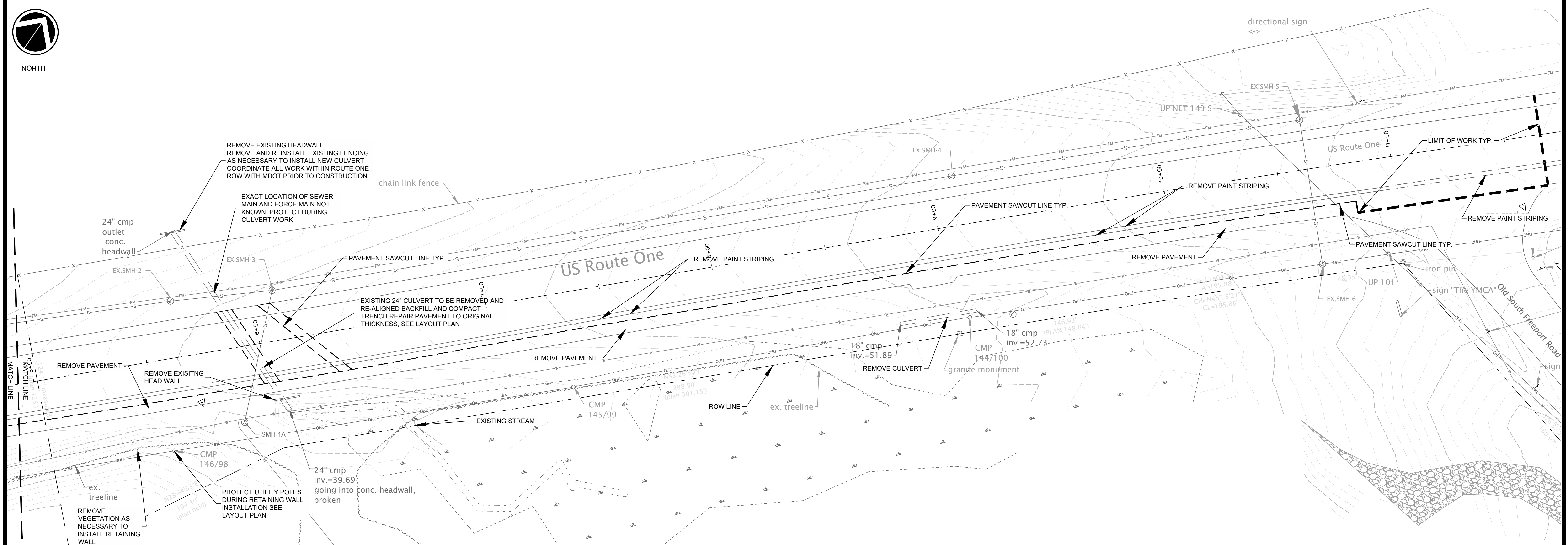
Atlantic Resource Consultants
541 US Route One
Freeport, ME 04032
Tel: 207.869.9050

DRAWN: KCS
DESIGNED: TP
CHECKED: AJ
FILE NAME:
SHEET: C-100

DATE: 12/9/2019
SCALE: 1"=20'
JOB NO. 22-007



NORTH



LEGEND

EXISTING	DESCRIPTION	EXISTING	DESCRIPTION
---	BOUNDARY LINE, O.W.	---	EDGE WATER
---	ABUTTER LINE, O.W.	---	TREELINE
---	DEED LINE, ROW	---	CONTOURS
---	TIE LINE	---	SPOT GRADE
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---	MW-2	---	SEWER
---	MONITORING WELL	---	FORCE MAIN
---	BORING	---	SEWER MH
---	REACH	---	SD
---	TC PATH	---	STORM DRAIN
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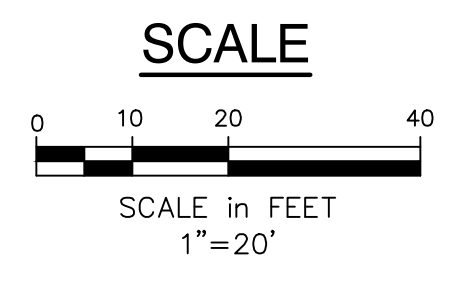
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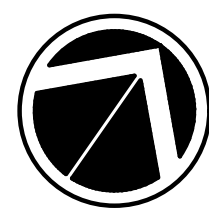
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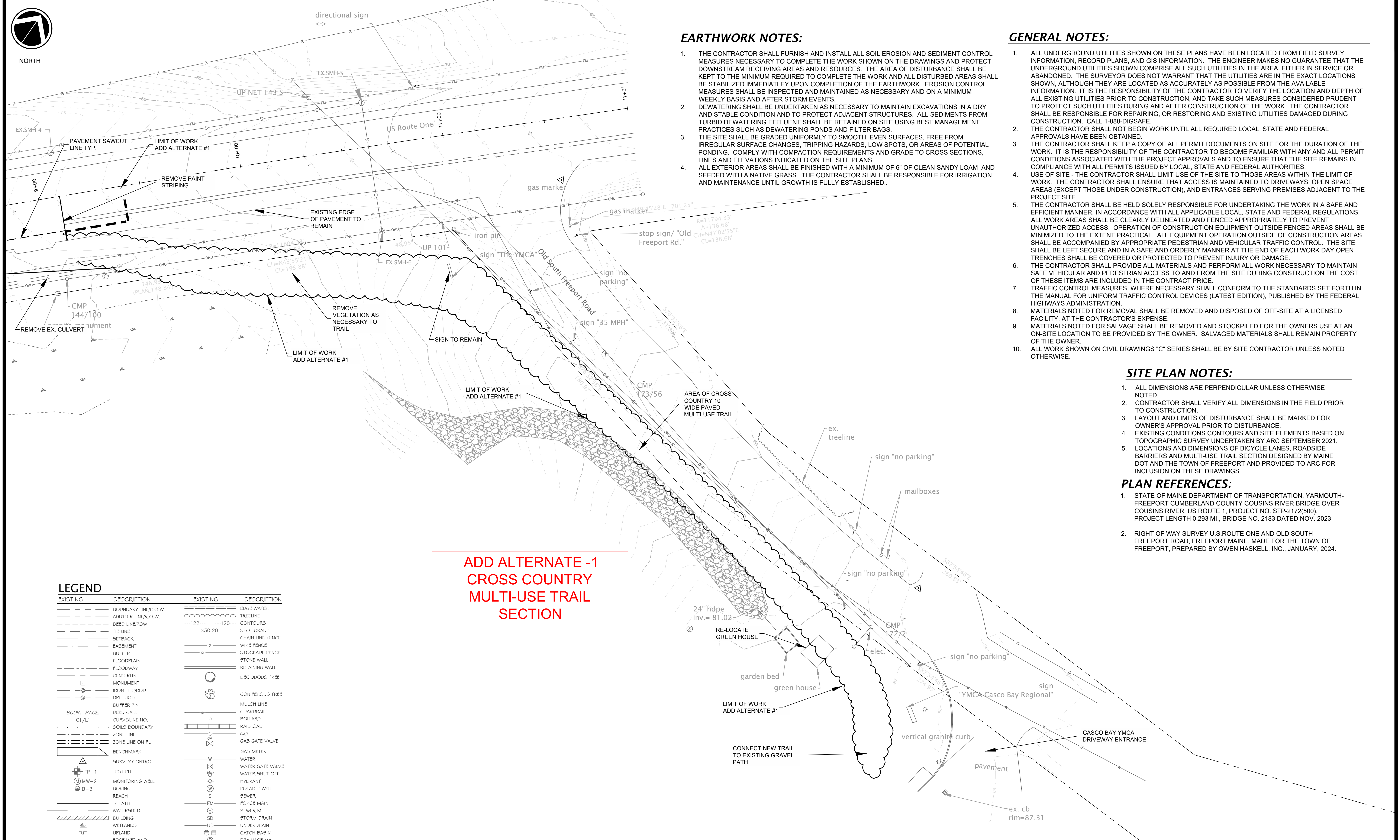


Atlantic Resource Consultants
541 US Route One
Freeport, ME 04032
Tel: 207.869.9050

DRAWN: KCS	DATE: 12/9/2019
DESIGNED: TP	SCALE: 1"=40'
CHECKED: AJ	JOB NO. 22-007
FILE NAME:	
SHEET: C-101	



NORTH



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PLAN REFERENCES:

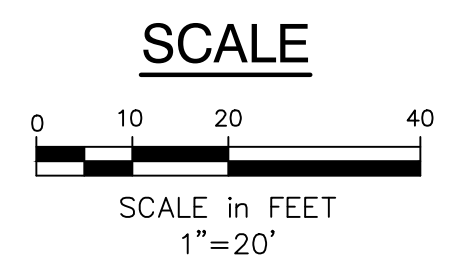
1. STATE OF MAINE DEPARTMENT OF TRANSPORTATION, YARMOUTH-FREEPORT CUMBERLAND COUNTY COUSINS RIVER BRIDGE OVER COUSINS RIVER, US ROUTE 1, PROJECT NO. STP-2172(500), PROJECT LENGTH 0.293 MI., BRIDGE NO. 2183 DATED NOV. 2023
2. RIGHT OF WAY SURVEY U.S.ROUTE ONE AND OLD SOUTH FREEPORT ROAD, FREEPORT MAINE, MADE FOR THE TOWN OF FREEPORT, PREPARED BY OWEN HASKELL, INC., JANUARY, 2024.

LEGEND

EXISTING	DESCRIPTION	EXISTING	DESCRIPTION
---	BOUNDARY LINER, O.W.	---	EDGE WATER
---	ABUTTER LINER, O.W.	---	TREELINE
---	DEED LINER/ROW	---	CONTOURS
---	TIE LINE	---	SPOT GRADE
---	SETBACK	---	CHAIN LINK FENCE
---	EASEMENT	---	WIRE FENCE
---	BUFFER	---	STOCKADE FENCE
---	FLOODPLAIN	---	STONE WALL
---	FLOODWAY	---	RETAINING WALL
---	CENTERLINE	---	DECIDUOUS TREE
---	MONUMENT	---	CONIFEROUS TREE
---	IRON PIPEROD	---	MULCH LINE
---	DRILLHOLE	---	GUARDRAIL
---	BUFFER PIN	---	BOLLARD
---	DEED CALL	---	RAILROAD
---	CURVILINE NO.	---	GAS
---	SOILS BOUNDARY	---	GAS GATE VALVE
---	ZONE LINE	---	GAS METER
---	ZONE LINE ON PL	---	WATER
---	BENCHMARK	---	WATER GATE VALVE
---	SURVEY CONTROL	---	WATER SHUT OFF
---	TP-1	---	HYDRANT
---	TEST PIT	---	POTABLE WELL
---	MW-2	---	SEWER
---	MONITORING WELL	---	FORCE MAIN
---	BORING	---	SEWER MH
---	REACH	---	STORM DRAIN
---	TCPATH	---	UNDERDRAIN
---	WATERSHED	---	CATCH BASIN
---	BUILDING	---	DRAINAGE MH
---	WETLANDS	---	CULVERT
---	UPLAND	---	OVERHEAD UTILITY
---	EDGE WETLAND	---	UNDERGROUND UTILITY
---	SIGN	---	TRANSFORMER PAD
---	STREAM	---	ELECTRICAL MANHOLE
---	ROCK OUTCROP	---	TELEPHONE MANHOLE
---	EDGE PAVEMENT	---	LIGHT POLEWALL
---	EDGE CONCRETE	---	UTILITY POLE
---	PAVEMENT PAINT	---	GUY
---	GRAVEL ROAD	---	RIPRAP
---	CURBLINE	---	

**ADD ALTERNATE -1
CROSS COUNTRY
MULTI-USE TRAIL
SECTION**


**ISSUED FOR REVIEW -
NOT FOR CONSTRUCTION**



REV	DATE	DESCRIPTION

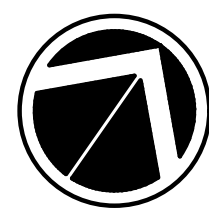
**ROUTE 1
MULTI-USE TRAIL
EXISTING CONDITIONS
& DEMOLITION PLAN II**

TOWN OF FREEPORT
30 MAIN STREET
FREEPORT, MAINE 04032

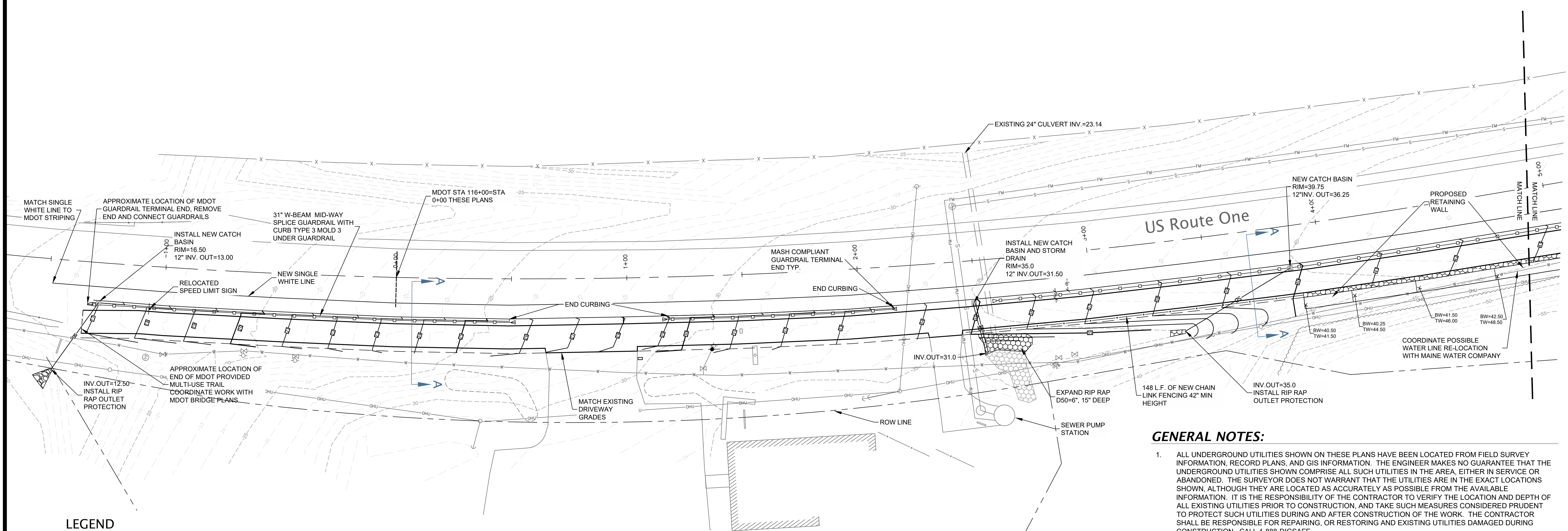


Atlantic Resource Consultants
541 US Route One
Freeport, ME 04032
Tel: 207.869.9050

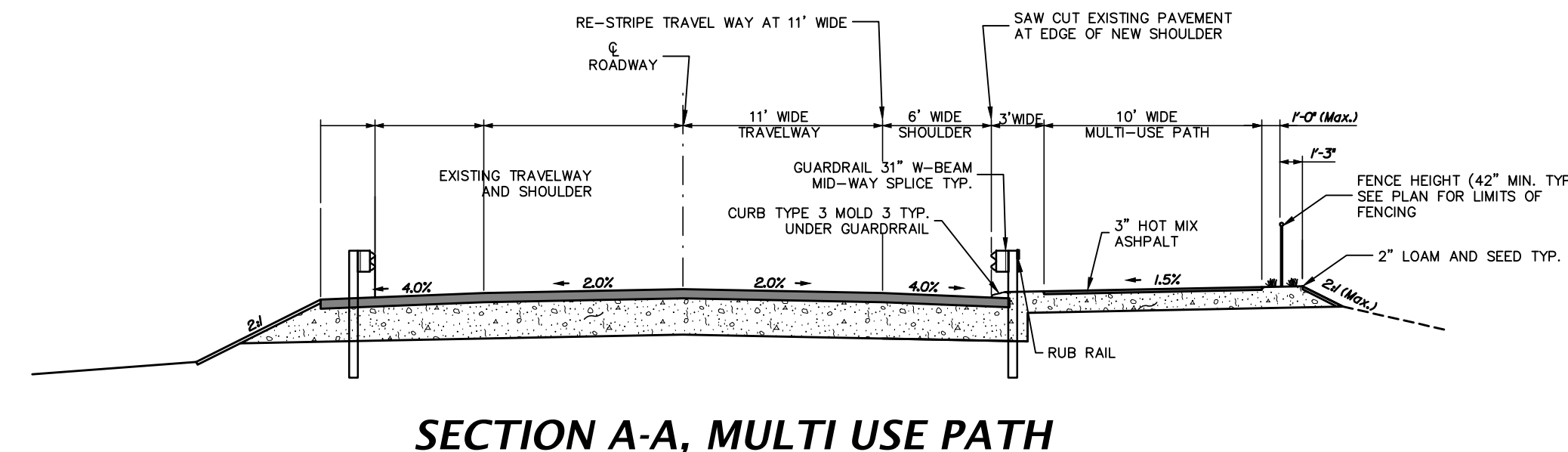
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DESIGNED: TP	SCALE: 1"=20'
CHECKED: AJ	JOB NO. 22-007
FILE NAME:	
SHEET: C-102	



NORTH



EXISTING	DESCRIPTION	EXISTING	DESCRIPTION
---	BOUNDARY LINE, O.W.	---	EDGE WATER
---	ABUTTER LINE, O.W.	---	TREELINE
---	DEED LINE, ROW	---	CONTOURS
---	TIE LINE	---	SPOT GRADE
---	SETBACK	---	CHAIN LINK FENCE
---	EASEMENT	---	WIRE FENCE
---	BUFFER	---	STOCKADE FENCE
---	FLOODPLAIN	---	STONE WALL
---	FLOODWAY	---	RETAINING WALL
---	CENTERLINE	---	DECIDUOUS TREE
---	MONUMENT	---	CONIFEROUS TREE
---	IRON PIPEROD	---	MULCH LINE
---	DRILL HOLE	---	GUARDRAIL
---	BUFFER FIN	---	BOLLARD
---	DEED CALL	---	RAILROAD
---	CURVE LINE NO.	---	GAS
---	SOILS BOUNDARY	---	GAS GATE VALVE
---	ZONE LINE	---	GAS METER
---	ZONE LINE ON PL	---	WATER
---	BENCHMARK	---	WATER GATE VALVE
---	SURVEY CONTROL	---	WATER SHUT OFF
---	TP-1	---	HYDRANT
---	TEST PIT	---	POTABLE WELL
---	MW-2	---	SEWER
---	MONITORING WELL	---	FORCE MAIN
---	BORING	---	SEWER MH
---	REACH	---	STORM DRAIN
---	TC PATH	---	UNDERDRAIN
---	WATERSHED	---	CATCH BASIN
---	BUILDING	---	DRAINAGE MH
---	WETLANDS	---	CULVERT
---	UPLAND	---	OVERHEAD UTILITY
---	EDGE WETLAND	---	UGU
---	SIGN	---	TRANSFORMER PAD
---	STREAM	---	ELECTRICAL MANHOLE
---	ROCK OUTCROP	---	TELEPHONE MANHOLE
---	EDGE PAVEMENT	---	LIGHT POLEWALL
---	EDGE CONCRETE	---	UTILITY POLE
---	PAVEMENT PAINT	---	GUY
---	GRAVEL ROAD	---	RIP RAP
---	CURBLINE	---	



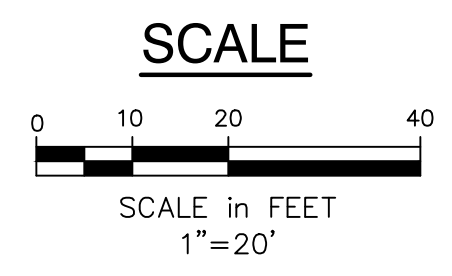
SECTION A-A, MULTI USE PATH

GENERAL NOTES:

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- MATERIALS NOTED FOR REMOVAL SHALL BE REMOVED AND DISPOSED OF OFF-SITE AT A LICENSED FACILITY, AT THE CONTRACTOR'S EXPENSE.
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- ALL WORK SHOWN ON CIVIL DRAWINGS "C" SERIES SHALL BE BY SITE CONTRACTOR UNLESS NOTED OTHERWISE.

SITE PLAN NOTES:

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- LAYOUT AND LIMITS OF DISTURBANCE SHALL BE MARKED FOR OWNER'S APPROVAL PRIOR TO DISTURBANCE.
- EXISTING CONDITIONS CONTOURS AND SITE ELEMENTS BASED ON TOPOGRAPHIC SURVEY UNDERTAKEN BY ARC SEPTEMBER 2021.
- LOCATIONS AND DIMENSIONS OF BICYCLE LANES, ROADSIDE BARRIERS AND MULTI-USE TRAIL SECTION DESIGNED BY MAINE DOT AND THE TOWN OF FREEPORT AND PROVIDED TO ARC FOR INCLUSION ON THESE DRAWINGS.



ISSUED FOR REVIEW - NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION

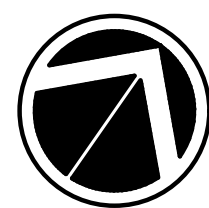
**ROUTE 1
MULTI-USE TRAIL
SITE LAYOUT
& GRADING PLAN**

TOWN OF FREEPORT
30 MAIN STREET
FREEPORT, MAINE 04032

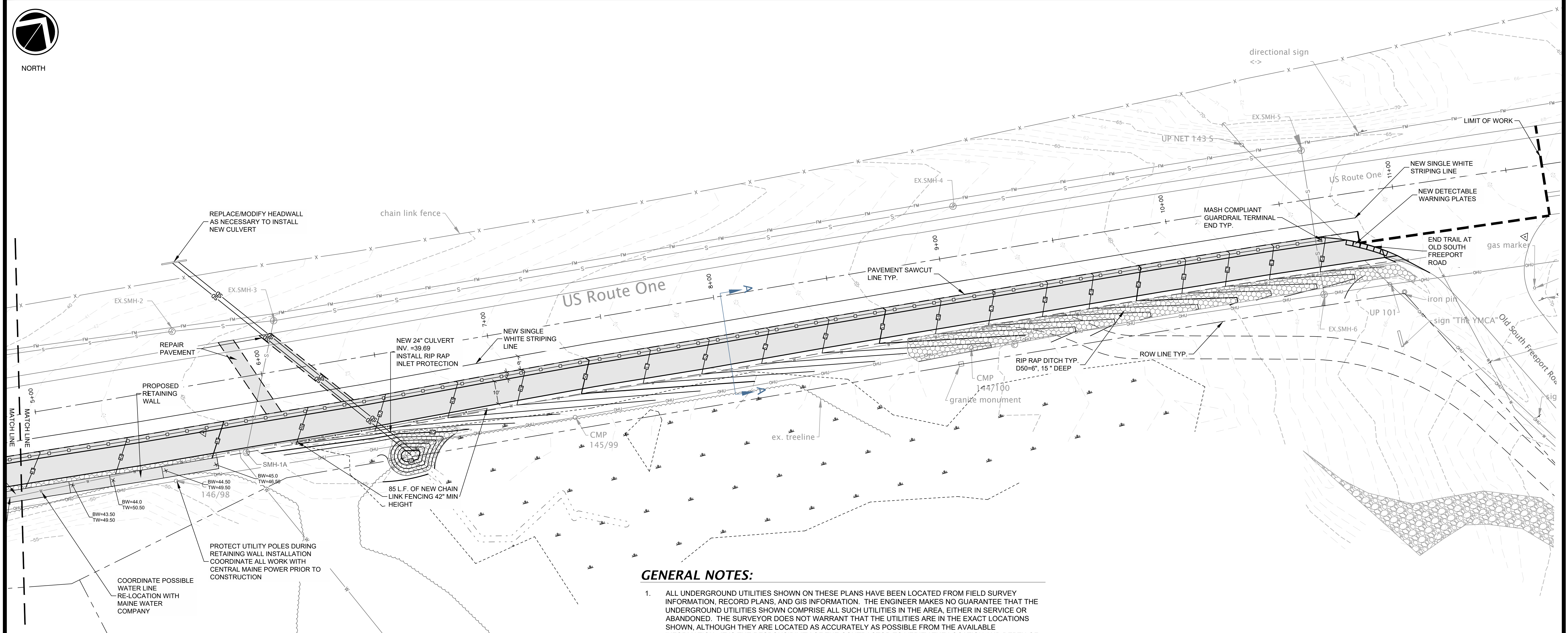
Atlantic Resource Consultants
541 US Route One
Freeport, ME 04032
Tel: 207.869.9050

DRAWN: KCS
DESIGNED: TP
CHECKED: AJ
FILE NAME:
SHEET: C-200

DATE: 12/9/2019
SCALE: 1"=20'
JOB NO. 22-007



NORTH



GENERAL NOTES:

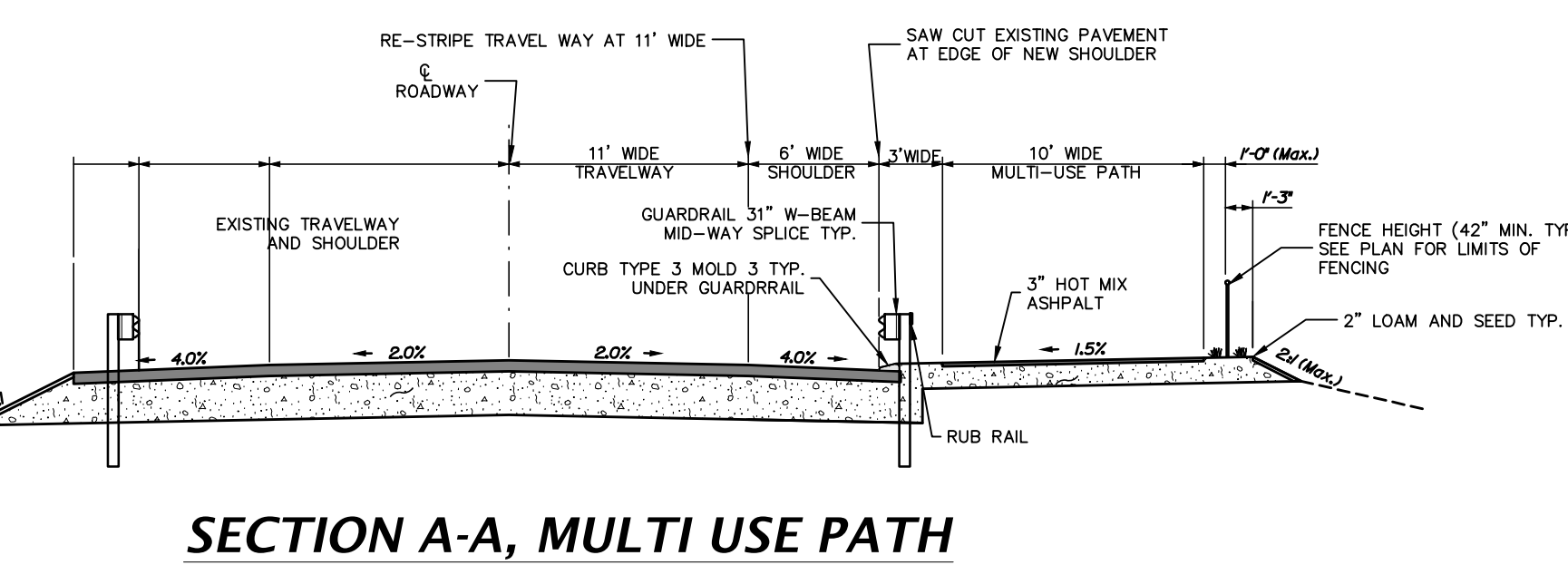
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- ALL WORK SHOWN ON CIVIL DRAWINGS "C" SERIES SHALL BE BY SITE CONTRACTOR UNLESS NOTED OTHERWISE.

LEGEND

EXISTING	DESCRIPTION	PROPOSED
---	BOUNDARY LINER, O.W.	---
---	ADJUTER LINER, O.W.	---
---	DEED LINER/ROW SETBACK	---
---	EASEMENT	---
---	FLOODPLAIN	---
---	CENTERLINE	---
---	MONUMENT	---
---	IRON PIPEROD	---
---	DRILLHOLE	---
---	BUILDING	---
---	WETLANDS	---
---	UPLAND	---
---	EDGE WETLAND	---
---	STREAM	---
---	ROCK OUTCROP	---
---	EDGE PAVEMENT	---
---	EDGE CONCRETE	---
---	PAVEMENT PAINT	---
---	CURBLINE	---
---	TREELINE	---
---	CONTOURS	---
---	SPOT GRADE	---
---	CHAIN LINK FENCE	---
---	RETAINING WALL	---

LEGEND

EXISTING	DESCRIPTION	PROPOSED
○	DECIDUOUS TREE	○ X
●	CONIFEROUS TREE	● X
---	GUARDRAIL	---
---	GAS	---
---	GAS GATE VALVE	---
---	WATER	---
---	WATER GATE VALVE	---
---	WATER SHUT OFF	---
---	HYDRANT	---
---	SEWER	---
---	FORCE MAIN	---
---	SEWER MH	---
---	STORM DRAIN	---
---	UNDERDRAIN	---
---	CATCH BASIN	---
---	DRAINAGE MH	---
---	CULVERT	---
---	OVERHEAD UTILITY	---
---	UNDERGROUND UTILITY	---
---	TRANSFORMER PAD	---
---	ELECTRICAL MANHOLE	---
---	TELEPHONE MANHOLE	---
---	LIGHT POLE/WALL	---
---	UTILITY POLE	---
---	GUY	---
---	RIPRAP	---

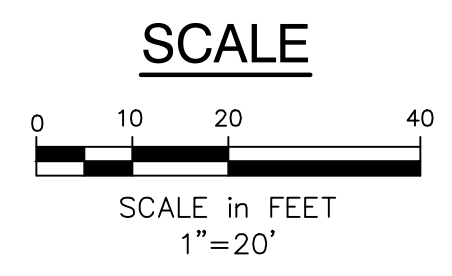


SECTION A-A, MULTI USE PATH

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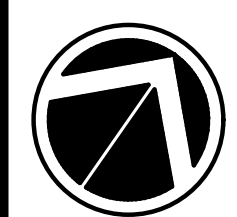
REV	DATE	DESCRIPTION

**ROUTE 1
MULTI-USE TRAIL
SITE LAYOUT
& GRADING PLAN I**

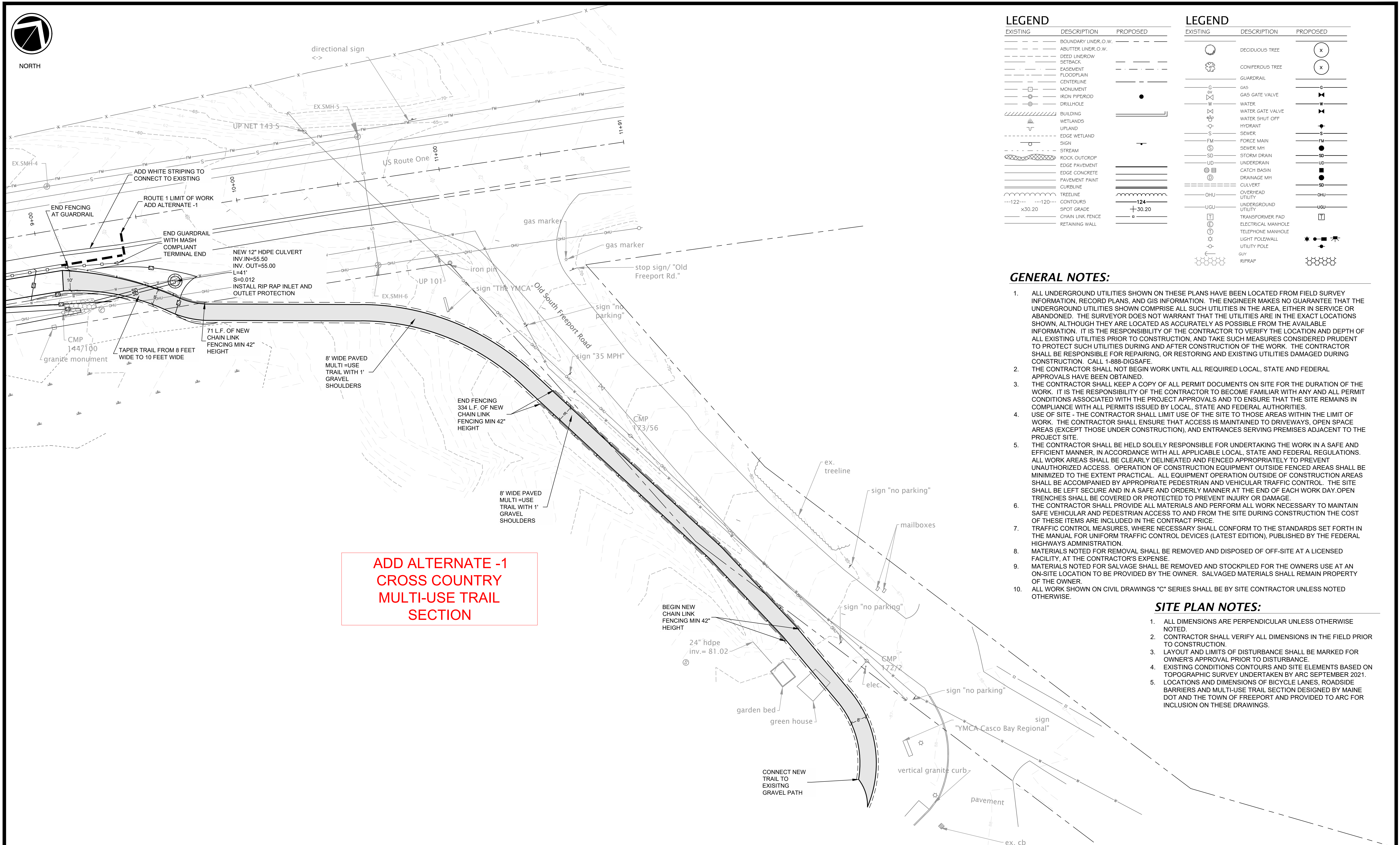
TOWN OF FREEPORT
30 MAIN STREET
FREEPORT, MAINE 04032

Atlantic Resource Consultants
541 US Route One
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Tel: 207.869.9050

DRAWN: KCS DATE: 12/9/2019
DESIGNED: TP SCALE: 1"=20'
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FILE NAME:
SHEET: C-201

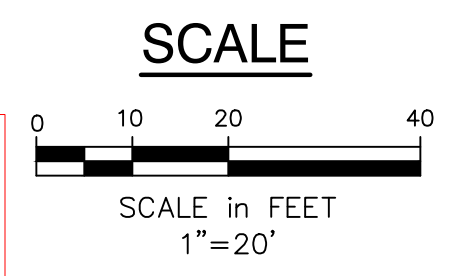


NORTH



**ADD ALTERNATE -1
CROSS COUNTRY
MULTI-USE TRAIL
SECTION**

**ISSUED FOR REVIEW -
NOT FOR CONSTRUCTION**



LEGEND

EXISTING	DESCRIPTION	PROPOSED
---	BOUNDARY LINE, O.W.	---
---	ABUTTER LINE, O.W.	---
---	DEED LINE, ROW SETBACK	---
---	EASEMENT FLOODPLAIN	---
---	CENTERLINE	---
---	MONUMENT	---
---	IRON PIPE/ROD	---
---	DRILLHOLE	---
---	BUILDING	---
---	WETLANDS UPLAND	---
---	EDGE WETLAND	---
---	SIGN	---
---	STREAM	---
---	ROCK OUTCROP	---
---	EDGE PAVEMENT	---
---	EDGE CONCRETE	---
---	PAVEMENT PAINT	---
---	CURLINE	---
---	CONTOURS	---
---	SPOT GRADE	---
---	CHAIN LINK FENCE	---
---	RETAINING WALL	---

LEGEND

EXISTING	DESCRIPTION	PROPOSED
○	DECIDUOUS TREE	○ X
○	CONIFEROUS TREE	○ X
---	GUARDRAIL	---
---	GAS	---
---	GAS GATE VALVE	---
---	WATER	---
---	WATER GATE VALVE	---
---	WATER SHUT OFF	---
---	HYDRANT	---
---	SEWER	---
---	FORCE MAIN	---
---	SEWER MH	---
---	STORM DRAIN	---
---	UNDERDRAIN	---
---	CATCH BASIN	---
---	DRAINAGE MH	---
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---	UNDERGROUND UTILITY	---
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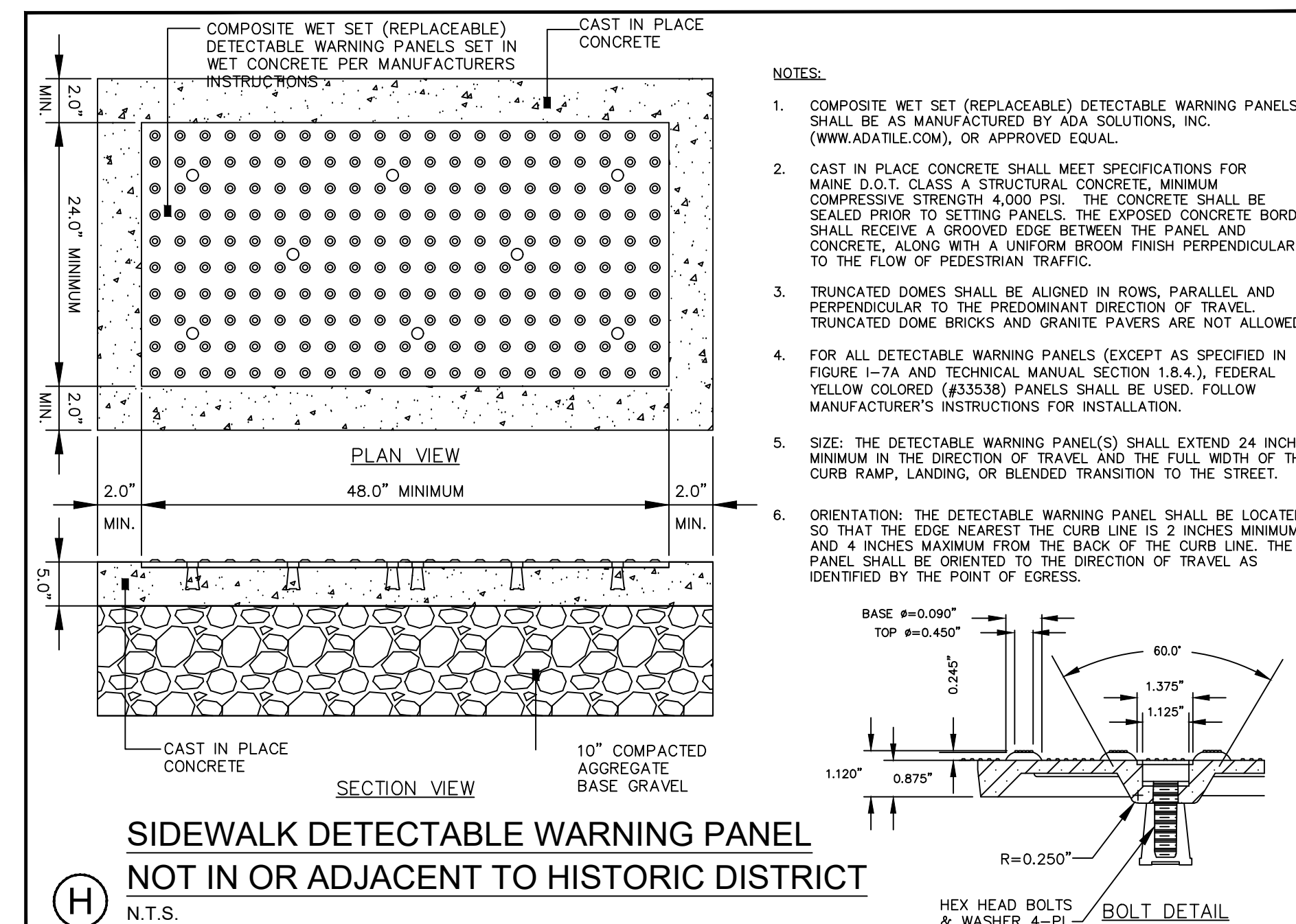
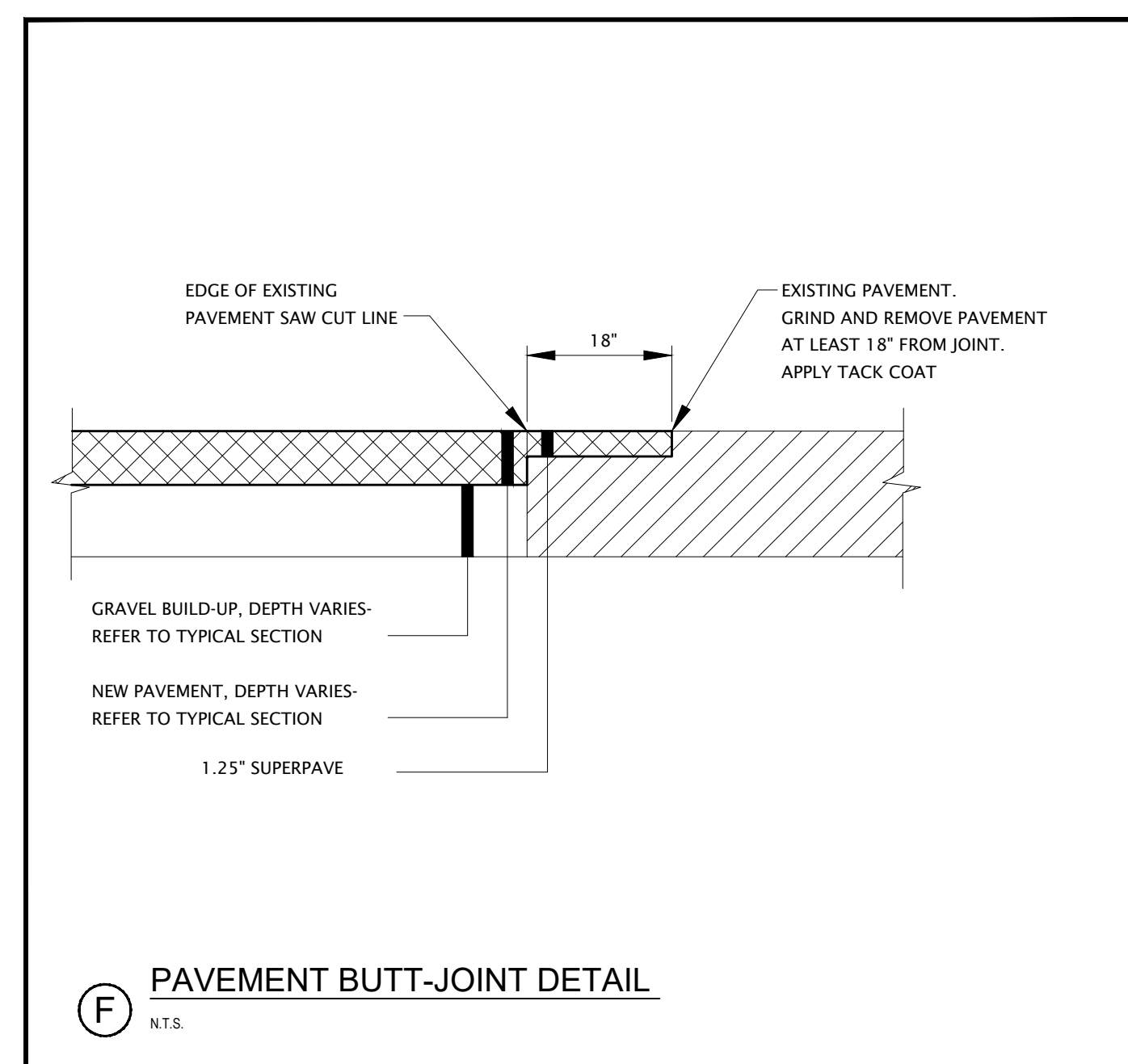
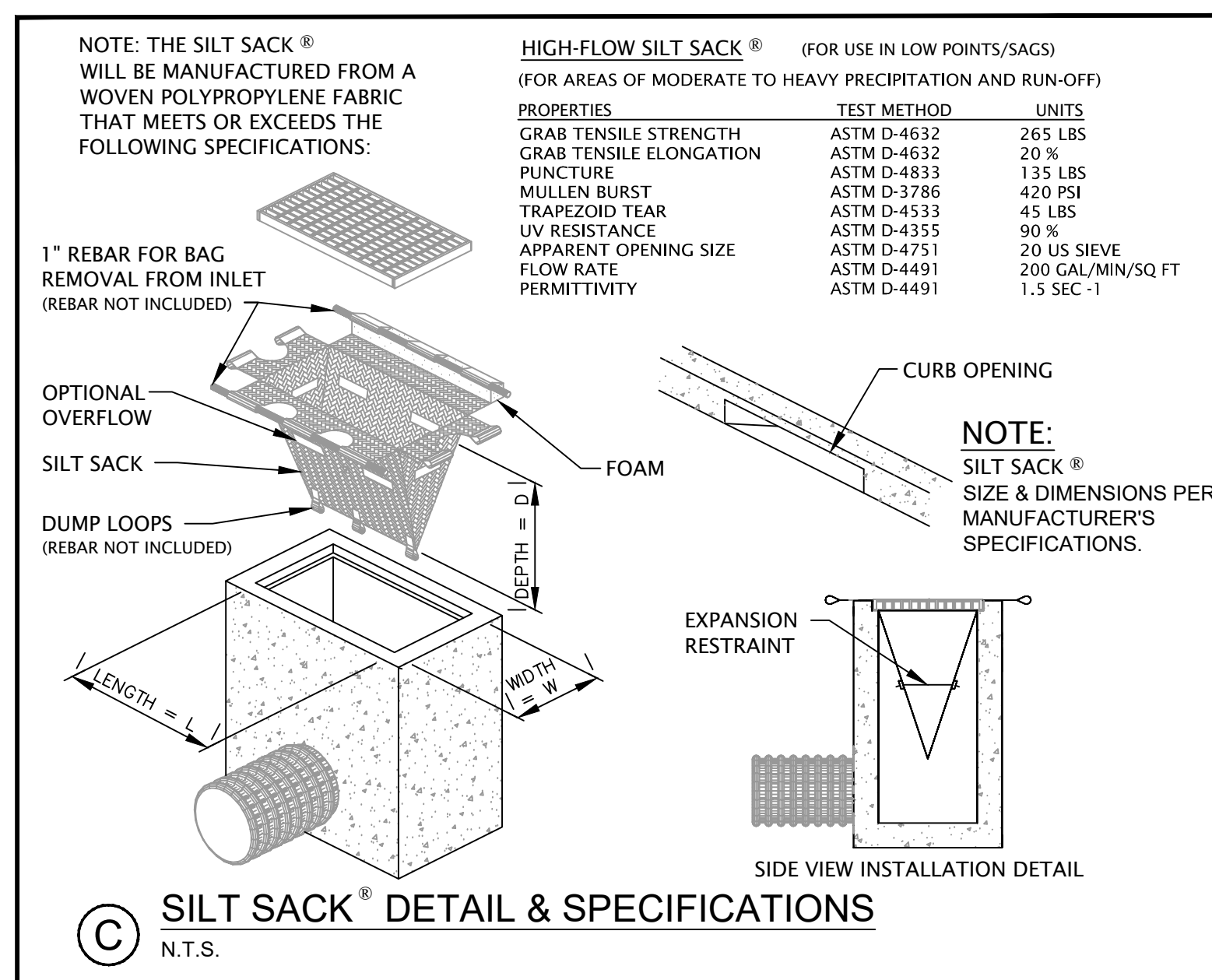
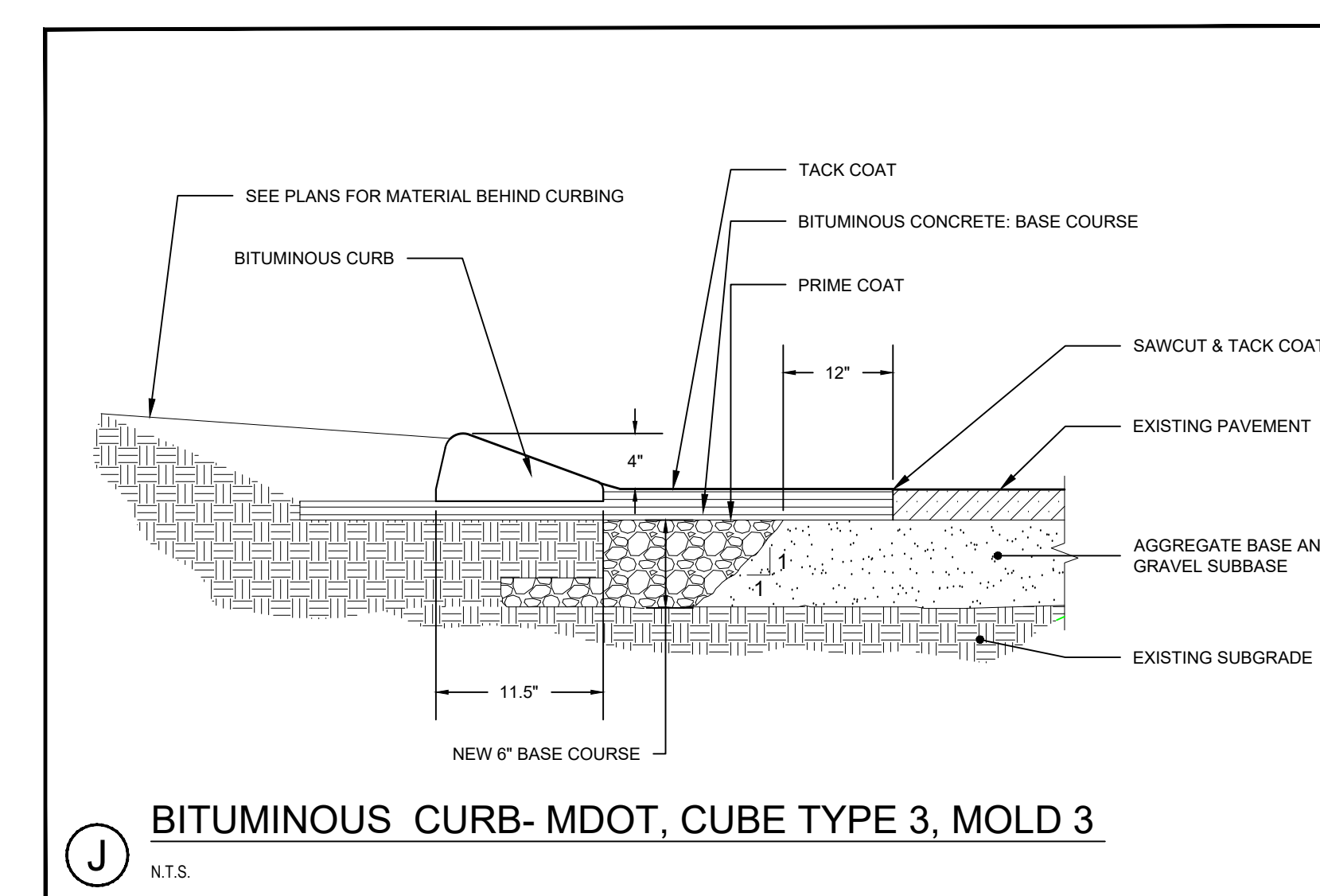
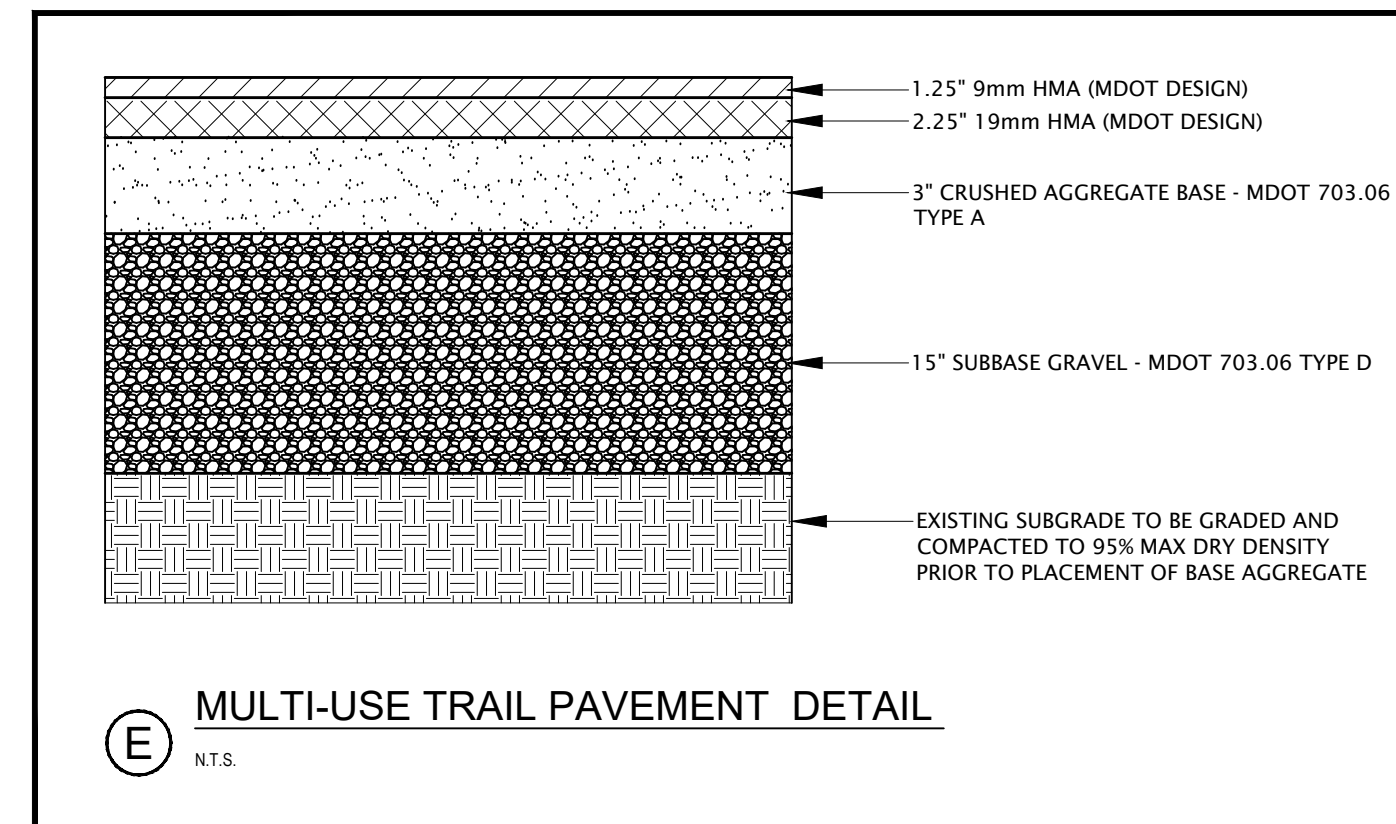
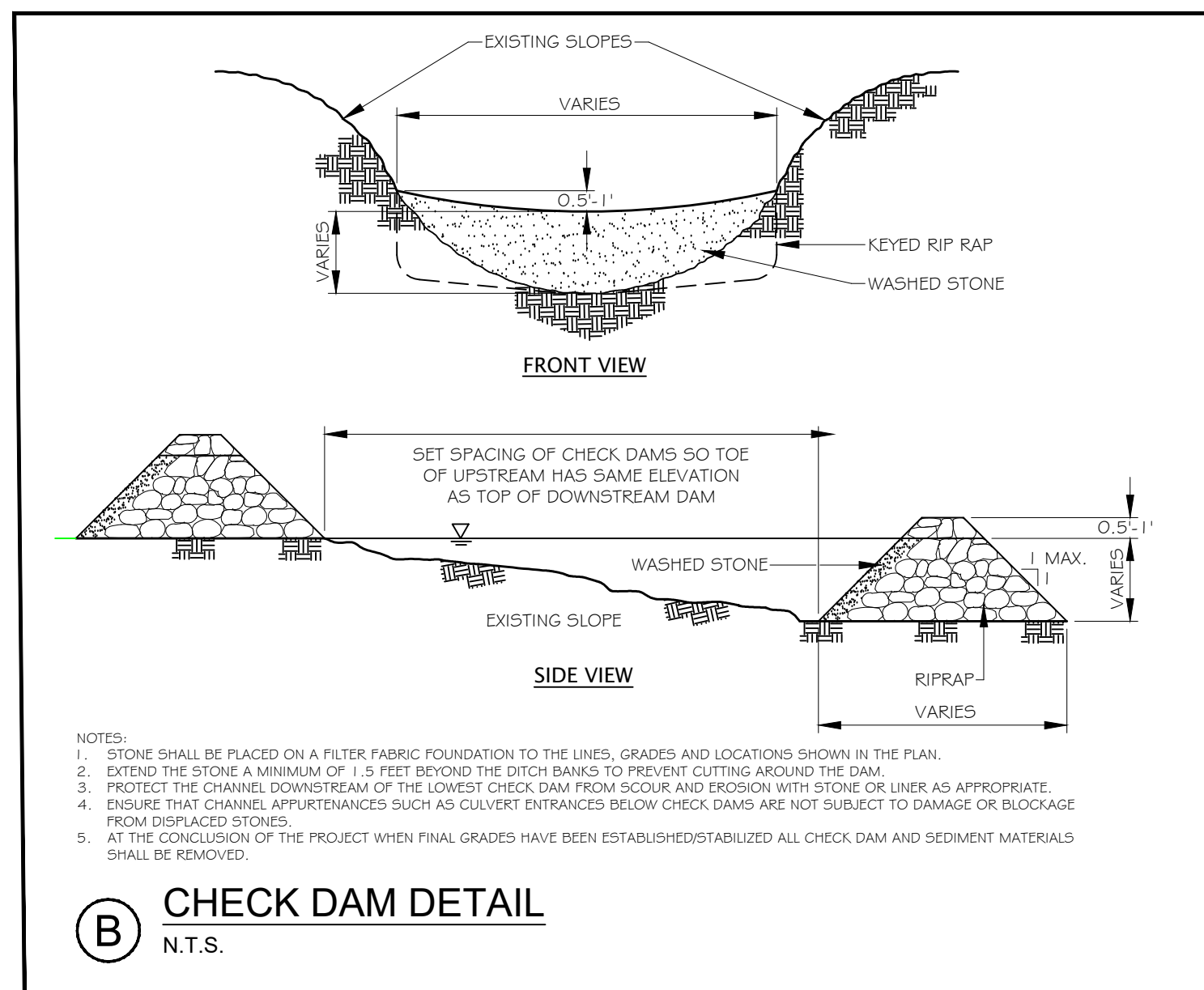
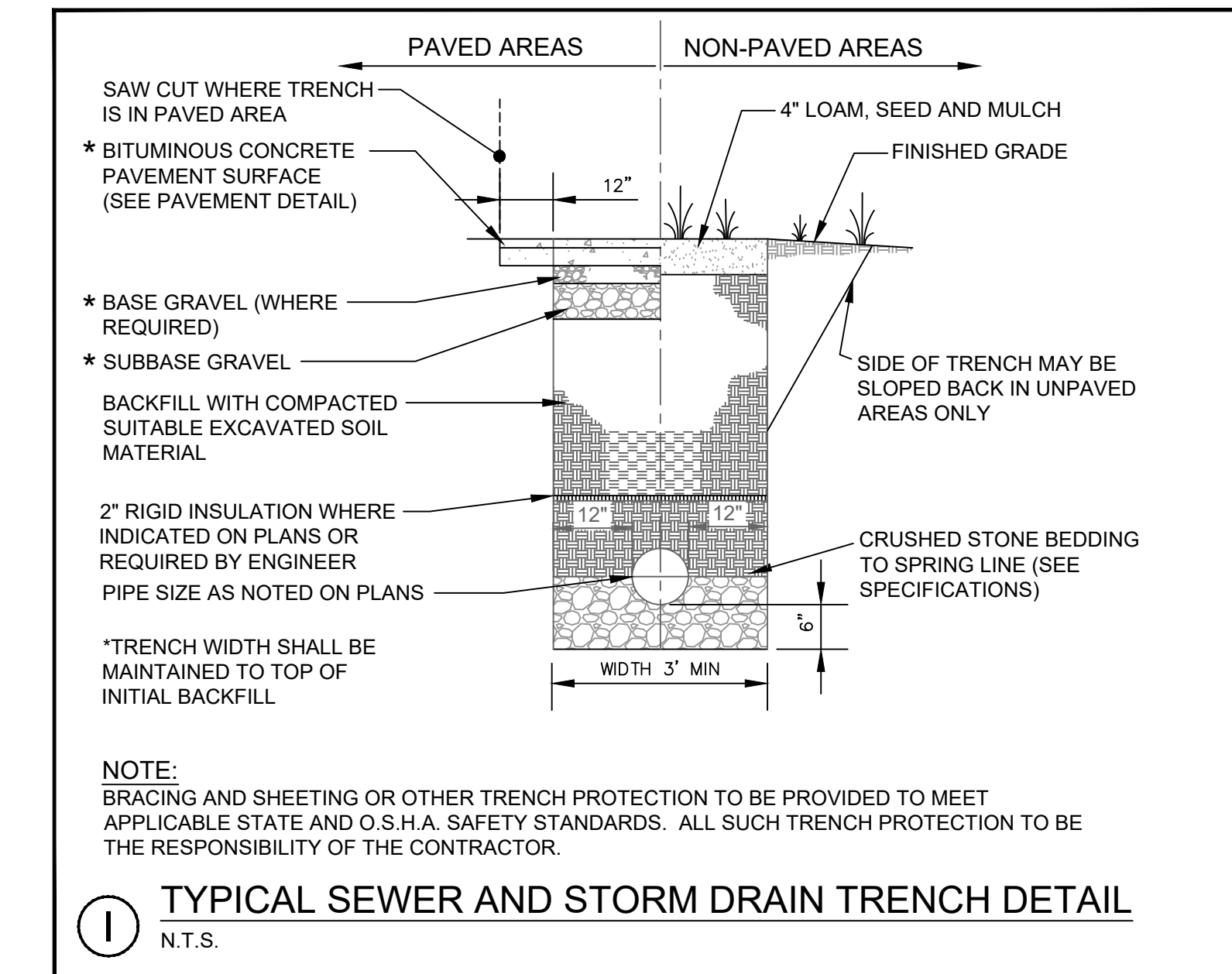
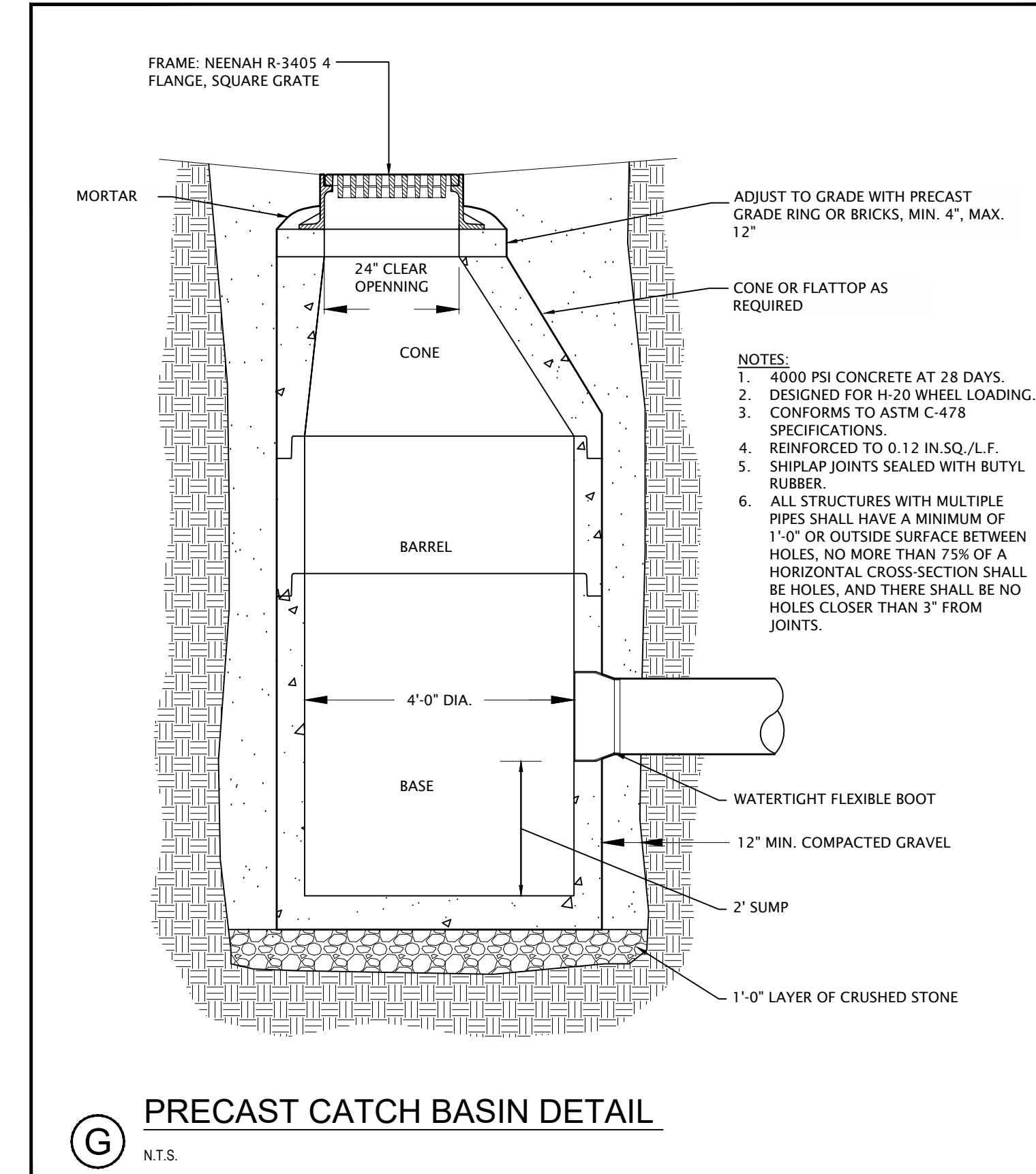
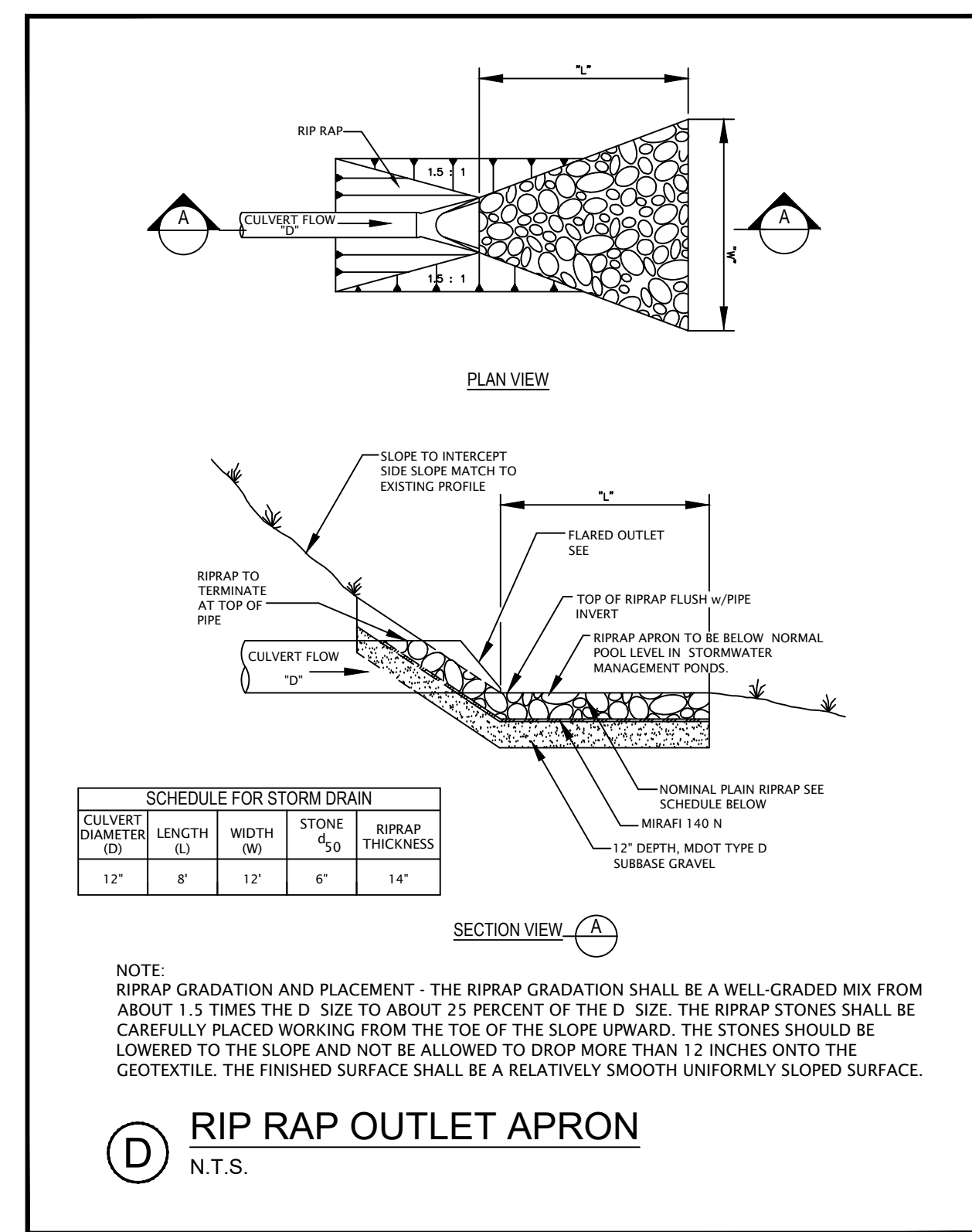
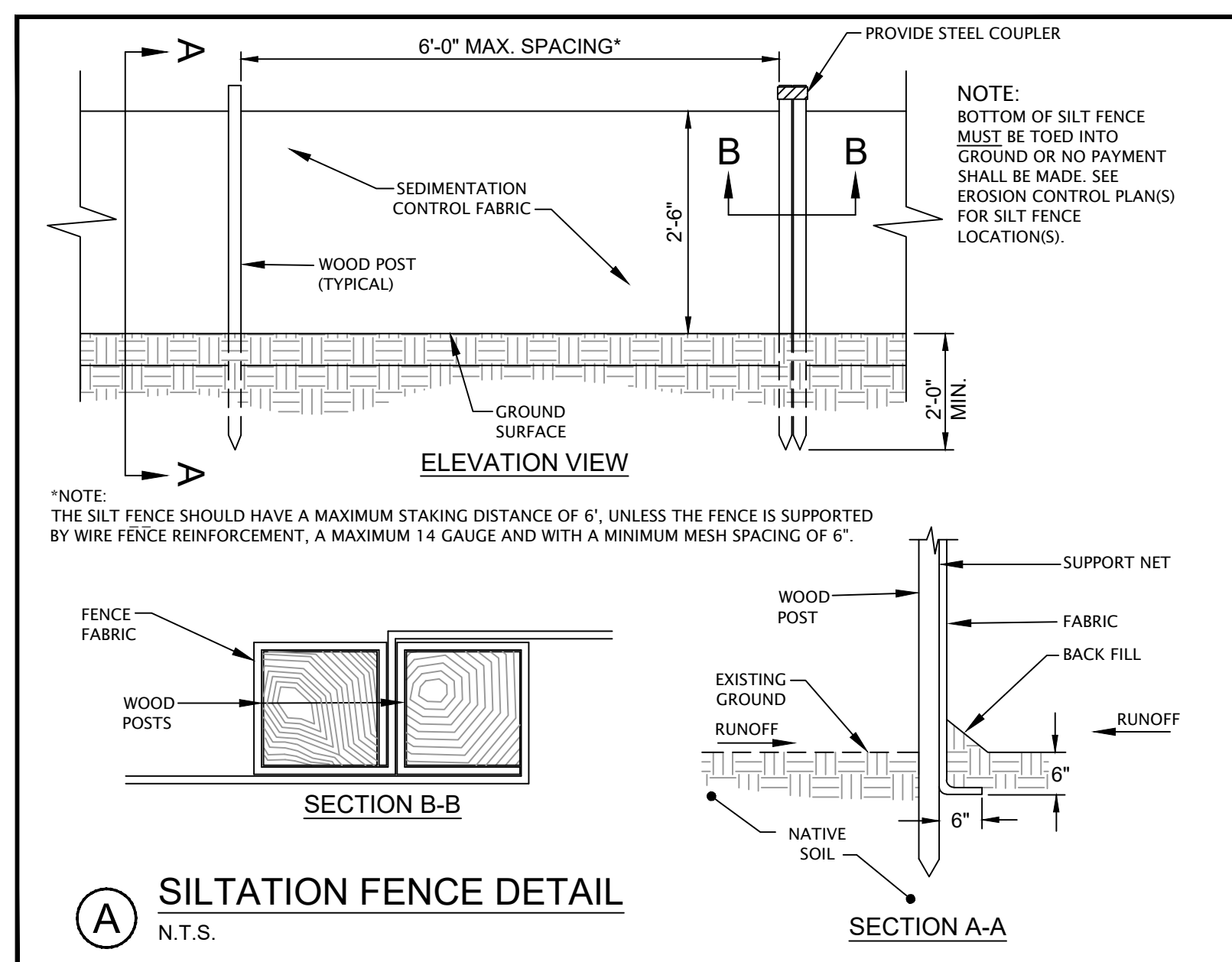
**ROUTE 1
MULTI-USE TRAIL
SITE LAYOUT
& GRADING PLAN II**

TOWN OF FREEPORT
30 MAIN STREET
FREEPORT, MAINE 04032

Atlantic Resource Consultants
541 US Route One
Freeport, ME 04032
Tel: 207.869.9050

DRAWN: KCS	DATE: 12/9/2019
DESIGNED: TP	SCALE: 1"=20'
CHECKED: AJ	JOB NO. 22-007
FILE NAME:	
SHEET: C-202	

REV	DATE	DESCRIPTION



**ISSUED FOR BIDDING
NOT FOR CONSTRUCTION**

	ROUTE 1 MULTI-USE TRAIL CIVIL DETAILS	Atlantic Resource Consultants 541 US Route One Freeport, ME 04032 Tel: 207.869.9050
TOWN OF FREEPORT 30 MAIN STREET FREEPORT, MAINE 04032	DRAWN: KCS DESIGNED: TP CHECKED: AJ FILE NAME: SHEET: C-301	DATE: 12/9/2019 SCALE: N.T.S. JOB NO. 22-007
REV. DATE DESCRIPTION REVISIONS		

PROJECT NOTES:

DEMOLITION NOTES

1. PROVIDE NOT LESS THAN 72 HOURS' NOTICE OF ACTIVITIES THAT WILL AFFECT OPERATIONS OF ADJACENT OCCUPIED BUILDINGS.
2. MAINTAIN ACCESS TO EXISTING WALKWAYS, EXITS, AND OTHER FACILITIES USED BY OCCUPANTS OF ADJACENT BUILDINGS. BARRIER FREE ACCESS SHALL BE PROVIDED BETWEEN ALL BUILDINGS AND PARKING AREAS THROUGHOUT CONSTRUCTION.
3. HAZARDOUS MATERIALS: IT IS NOT EXPECTED THAT HAZARDOUS MATERIALS WILL BE ENCOUNTERED IN THE WORK. IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB; IMMEDIATELY NOTIFY OWNER, OWNER'S REP AND ENGINEER. HAZARDOUS MATERIALS WILL BE REMOVED BY OWNER UNDER A SEPARATE CONTRACT.
4. TEMPORARY SHORING: PROVIDE AND MAINTAIN INTERIOR AND EXTERIOR SHORING, BRACING, OR STRUCTURAL SUPPORT TO PRESERVE STABILITY AND PREVENT UNEXPECTED MOVEMENT OR COLLAPSE OF STRUCTURES ADJACENT TO THE WORK AREA.

UTILITIES

1. EXISTING UTILITIES: LOCATE, IDENTIFY, AND PROTECT EXISTING UTILITIES WITHIN THE WORK AREA. SEE SITE PLAN NOTES FOR REFERENCE SOURCES OF UTILITY INFORMATION. THE ENGINEER MAKES NO GUARANTEE AS TO THE ACCURACY OF LOCATIONS AND DEPTHS OF EXISTING UTILITIES SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL CONTACT DIGSAFE, ENGAGE PRIVATE UTILITY DETECTION SERVICES, AND UNDERTAKE TEST PITS AS NECESSARY TO IDENTIFY AND AVOID EXISTING UTILITIES AND SAFELY CARRY OUT THE WORK.

ITEMS TO BE REMOVED AND RE-INSTALLED:

1. CLEAN ITEMS OF DIRT AND DEMOLITION DEBRIS.
2. STORE ITEMS IN A SECURE AREA UNTIL RE-INSTALLATION.
3. PROTECT ITEMS FROM DAMAGE DURING STORAGE.

PROTECTION

1. EXISTING FACILITIES: PROTECT ADJACENT WALKWAYS, BUILDING ENTRIES, AND OTHER BUILDING FACILITIES DURING DEMOLITION OPERATIONS. MAINTAIN EXITS FROM EXISTING BUILDINGS, AS REQUIRED BY OWNER.
2. EXISTING UTILITIES: MAINTAIN UTILITY SERVICES TO REMAIN AND PROTECT FROM DAMAGE DURING DEMOLITION OPERATIONS. DO NOT INTERRUPT EXISTING UTILITIES SERVING ADJACENT OCCUPIED OR OPERATING FACILITIES UNLESS AUTHORIZED IN WRITING BY OWNER AND AUTHORITIES HAVING JURISDICTION.
3. PROTECT ADJACENT BUILDINGS AND FACILITIES FROM DAMAGE DUE TO DEMOLITION ACTIVITIES.
4. PROTECT EXISTING SITE IMPROVEMENTS, APPURTENANCES, AND LANDSCAPING TO REMAIN.
5. PROVIDE TEMPORARY BARRICADES AND OTHER PROTECTION REQUIRED TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN.
6. REMOVE TEMPORARY BARRIERS AND PROTECTIONS WHERE HAZARDS NO LONGER EXIST. WHERE OPEN EXCAVATIONS OR OTHER HAZARDOUS CONDITIONS REMAIN, LEAVE TEMPORARY BARRIERS AND PROTECTIONS IN PLACE.

DEMOLITION

1. GENERAL: DEMOLISH IDENTIFIED SITE IMPROVEMENTS COMPLETELY. USE METHODS REQUIRED TO COMPLETE THE WORK WITHIN LIMITATIONS OF GOVERNING REGULATIONS.
2. USE WATER MIST AND OTHER SUITABLE METHODS TO LIMIT SPREAD OF DUST AND DIRT. COMPLY WITH GOVERNING ENVIRONMENTAL PROTECTION REGULATIONS.
3. EXPLOSIVES: USE OF EXPLOSIVES IS NOT PERMITTED.
4. SITE GRADING: UNIFORMLY ROUGH GRADE AREA TO A SMOOTH SURFACE, FREE FROM IRREGULAR SURFACE CHANGES AND SUITABLE FOR ACCEPTANCE OF NEW SURFACE MATERIALS. PROVIDE A SMOOTH TRANSITION BETWEEN ADJACENT EXISTING GRADES AND NEW GRADES.
5. EXISTING UTILITIES: DO NOT INTERRUPT UTILITIES SERVING FACILITIES OCCUPIED BY OWNER OR OTHERS UNLESS PERMITTED IN WRITING BY ENGINEER AND THEN ONLY AFTER ARRANGING TO PROVIDE TEMPORARY UTILITY SERVICES ACCORDING TO REQUIREMENTS INDICATED. A PRIVATE UTILITY DETECTION SERVICE WILL BE REQUIRED TO IDENTIFY UTILITIES ON PRIVATE PROPERTY. THIS WORK IS CONSIDERED INCIDENTAL AND THE COST SHALL BE INCLUDED IN THE BASE BID CONTRACT SUM.

EARTHWORK NOTES

PRODUCTS

1. GENERAL: THE ON-SITE SOILS ARE GENERALLY SUITABLE FOR RE-USE UNDER NEW IMPROVEMENTS. EXCAVATED ON-SITE SOILS CLASSIFIED AS SATISFACTORY SOILS ACCORDING TO THE DEFINITION BELOW, AND SUITABLY CONDITIONED MAY BE USED TO RAISE GRADES WHERE REQUIRED TO COMPLETE THE WORK.
2. SATISFACTORY SOILS: MATERIALS FOR BACKFILL SHALL MEET ASTM D 2487 SOIL CLASSIFICATION GROUPS GW, GP, GM, SW, SP, AND SM, OR A COMBINATION OF THESE GROUP SYMBOLS; FREE OF ROCK FRAGMENTS LARGER THAN 3 INCHES IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS, VEGETATION, AND OTHER DELETERIOUS MATTER.
3. UNSATISFACTORY SOILS: ASTM D 2487 SOIL CLASSIFICATION GROUPS GC, SC, ML, GM, MU, MH, CL, CH, OL, OH, AND PT, OR A COMBINATION OF THESE GROUP SYMBOLS, AND SATISFACTORY SOILS NOT MAINTAINED WITHIN 2 PERCENT OF OPTIMUM MOISTURE CONTENT AT TIME OF COMPACTION.
4. STRUCTURAL FILL: CLEAN NON FROST-SUSCEPTIBLE SAND AND GRAVEL MEETING THE GRADATION REQUIREMENTS BELOW.

SIEVE	PERCENT PASSING
4-INCH	100
3-INCH	90-100
1/4-INCH	25-90
#40	0-30
#200	0-6

5. GRANULAR BORROW: SAND OR GRAVEL MEETING MAINE DOT SPECIFICATION 703.19.
6. CRUSHED STONE PIPE BEDDING MATERIAL SHALL BE SCREENED OR CRUSHED STONE FREE OF ORGANIC MATTER, SILT, CLAY, OR OTHER DELETERIOUS MATERIAL, MEETING THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE SIZE	PERCENT PASSING
1-INCH	100
1/4 INCH	0 TO5

7. ACCESSORIES: WARNING TAPE: ACID- AND ALKALI-RESISTANT POLYETHYLENE FILM WARNING TAPE MANUFACTURED FOR MARKING AND IDENTIFYING UNDERGROUND UTILITIES, 6 INCHES WIDE AND 4 MILS THICK, CONTINUOUSLY INSCRIBED WITH A DESCRIPTION OF THE UTILITY WITH A SEPARATE METALLIC "TRACER". THIS IS REQUIRED FOR ALL NON-METALLIC UTILITY LINES EXCEPT "STRAIGHT RUNS" OF SEWER LINES AND STORM DRAINS BETWEEN MANHOLES.

PREPARATION

1. PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT, AND OTHER HAZARDS CREATED BY EARTHWORK OPERATIONS.
2. PREPARATION OF SUBGRADE FOR EARTHWORK OPERATIONS: ALL TOPSOIL, PEAT, ORGANIC MATERIAL, DEBRIS, RUBBISH, FROZEN SOILS, MUCK, LOOSE, OR DISTURBED SOILS AND OTHER DISTURBED MATERIALS SHALL BE REMOVED FROM THE AREA OF NEW CONSTRUCTION. TOPSOIL MAY BE STOCKPILED OUTSIDE THE CONSTRUCTION AREA FOR REUSE IN LANDSCAPED AREAS, OR DISPOSAL OFF-SITE. UNSUITABLE MATERIALS INCLUDE UNCONTROLLED FILLS (I.E. FILLS PLACED WITHOUT SYSTEMATIC DENSIFICATION AND MOISTURE CONTROL TO AN ACCEPTABLE COMPACTION PERCENTAGE), ASPHALTIC PAVEMENT, AND DELETERIOUS SUBSTANCES. IF SUITABLE EXCAVATED MATERIAL IS NOT AVAILABLE TO ACHIEVE SUBGRADE FILLS, IMPORTED COMPACTED GRANULAR BORROW MEETING MAINE DOT SPECIFICATION 703.19 WITH A MAXIMUM PARTICLE SIZE OF FOUR INCHES SHALL BE USED. IMPORTED BORROW SHALL BE PLACED IN LIFTS NOT EXCEEDING TWELVE INCHES AND COMPACTED TO 95% MAXIMUM DRY DENSITY (ASTM D 1557).
3. ANY EXISTING FILL BENEATH THE PROPOSED PAVEMENT SHALL BE EXCAVATED TO THE TOP OF INORGANIC NATURALLY DEPOSITED SOILS.
4. PROTECT AND MAINTAIN EROSION AND SEDIMENTATION CONTROLS DURING EARTHWORK OPERATIONS.
5. DUE TO THE PREVIOUSLY DEVELOPED NATURE OF THE SITE, THE CONTRACTOR SHOULD BE SENSITIVE TO THE POTENTIAL OF ENCOUNTERING OBSTRUCTIONS SUCH AS REMNANTS FROM PRIOR STRUCTURES AND BUILDINGS, ASSOCIATED FOUNDATIONS, AND UNDERGROUND UTILITIES (NOTE: BOTH ACTIVE AND ABANDONED) DURING SITE AND EARTHWORK ACTIVITIES. WHERE SUCH ITEMS ARE ENCOUNTERED BENEATH THE PROPOSED CONSTRUCTION LIMITS, THEY SHOULD BE REPORTED IMMEDIATELY TO THE OWNER AND ENGINEER FOR INSPECTION.
6. THE INTEGRITY OF NATURAL SOILS AND FILL MUST BE MAINTAINED DURING COLD WEATHER CONDITIONS. PAVEMENT SUBGRADES SHOULD NOT BE ALLOWED TO FREEZE. THE NATURALLY DEPOSITED SOILS ARE CONSIDERED FROST SUSCEPTIBLE. FREEZING OF SUBGRADE SOILS BENEATH IMPROVEMENTS MIGHT RESULT IN HEAVING AND POST-CONSTRUCTION SETTLEMENT. THE CONTRACTOR SHOULD MAKE EVERY EFFORT TO PREVENT FREEZING OF SUBGRADE SOILS. IN THE EVENT FROST PENETRATION OCCURS, ALL FROZEN AND PREVIOUSLY FROZEN SOILS SHOULD BE REMOVED AND REPLACED WITH COMPACTED STRUCTURAL FILL. AT NO TIME SHOULD FROZEN MATERIAL BE PLACED AS FILL.

EXCAVATION FOR WALKS AND PAVEMENTS

1. EXCAVATE SURFACES UNDER WALKS AND PAVEMENTS TO INDICATED LINES, CROSS SECTIONS, ELEVATIONS, AND SUBGRADES.
2. REMOVE ALL MAN PLACED FILL, TOPSOIL, ORGANIC MATTER, AND DEBRIS ENCOUNTERED WITHIN THE FOOTPRINT OF SITE IMPROVEMENTS AND STRUCTURES.

EXCAVATION FOR UTILITY, STORM DRAIN AND UNDERDRAIN TRENCHES

1. EXCAVATE TRENCHES TO INDICATED GRADIENTS, LINES, DEPTHS, AND ELEVATIONS.
2. EXCAVATE TRENCHES TO UNIFORM WIDTHS TO PROVIDE THE FOLLOWING TRENCH WIDTH: EXCAVATE TRENCH WALLS VERTICALLY FROM TRENCH BOTTOM TO 12 INCHES HIGHER THAN TOP OF PIPE OR CONDUIT, UNLESS OTHERWISE INDICATED.
3. A MINIMUM AND PAY WIDTH OF 2'-6" FOR CONDUITS UP TO 6" DIAMETER.
4. A MINIMUM OF 3'-0" OR 4/3 THE PIPE INSIDE DIAMETER PLUS 1'-6" FOR CONDUITS OVER 18".
5. TRENCH BOTTOMS: EXCAVATE AND SHAPE TRENCH BOTTOMS TO PROVIDE UNIFORM BEARING AND SUPPORT OF PIPES AND CONDUIT. SHAPE SUBGRADE TO PROVIDE CONTINUOUS SUPPORT FOR BELLS, JOINTS, AND BARRELS OF PIPES AND FOR JOINTS, FITTINGS, AND BODIES OF CONDUITS. REMOVE PROJECTING STONES AND SHARP OBJECTS ALONG TRENCH SUBGRADE.
6. EXCAVATE TRENCHES 6 INCHES DEEPER THAN ELEVATION REQUIRED IN ROCK OR OTHER UNYIELDING BEARING MATERIAL, 4 INCHES DEEPER ELSEWHERE, TO ALLOW FOR BEDDING COURSE.

SUBGRADE INSPECTION

1. PROOF-ROLL SUBGRADE CONSISTING OF GRANULAR SOILS (GRANULAR FILL, STRUCTURAL FILL OR GLACIAL TILL) BELOW SLABS AND UNDER PAVEMENT WITH AT LEAST 3 PASSES OF A 10 TON SMOOTH DRUM ROLLER.
2. ANY SOFT POCKETS, AREAS OF EXCESS YIELDING, OR AREAS DISTURBED DURING EXCAVATION AND CONSTRUCTION SHALL BE OVER EXCAVATED AND REPLACED WITH STRUCTURAL FILL. DO NOT PROOF-ROLL WET OR SATURATED SUBGRADES OR SUBGRADES CONSISTING OF SILT/CLAY SOILS (MARINE DEPOSITS).
3. THE EXPOSED SUBGRADE WILL BE EXAMINED IN THE FIELD BY THE ENGINEER TO DETERMINE THE STRENGTH AND BEARING CAPACITY OF THE SOILS. DISTURBED OR SOFT SOILS, AS JUDGED BY THE ENGINEER, SHALL BE EXCAVATED AND REPLACED WITH SUITABLE MATERIAL WITHOUT ADDITIONAL COMPENSATION.
4. RECONSTRUCT SUBGRADES DAMAGED BY FREEZING TEMPERATURES, FROST, RAIN, OR ACCUMULATED WATER, AS DIRECTED BY ENGINEER, WITHOUT ADDITIONAL COMPENSATION.
5. OVEREXCAVATE SUBGRADES DISTURBED/DAMAGED BY CONSTRUCTION VEHICLE TRAFFIC TO THE DEPTH AND PLAN LIMITS DIRECTED BY THE ENGINEER. REPLACE DISTURBED SOIL WITH SUITABLE MATERIAL WITHOUT ADDITIONAL COMPENSATION.

UTILITY, STORM DRAIN AND UNDERDRAIN TRENCH BACKFILL

1. PLACE BACKFILL ON SUBGRADES FREE OF MUD, FROST, SNOW, OR ICE.
2. PLACE AND COMPACT BEDDING COURSE ON TRENCH BOTTOMS AND WHERE INDICATED. SHAPE BEDDING COURSE TO PROVIDE CONTINUOUS SUPPORT FOR BELLS, JOINTS, AND BARRELS OF PIPES AND FOR JOINTS, FITTINGS, AND BODIES OF CONDUITS.

3. BACKFILL TRENCHES WITH ENGINEERED FILL, GRAVEL BORROW, OR GRANULAR BACKFILL, OR CRUSHED STONE.
4. PLACE AND COMPACT PIPE ZONE BACKFILL TO A HEIGHT OF 6 INCHES OVER THE UTILITY PIPE OR CONDUIT.
5. CAREFULLY COMPACT PIPE ZONE BACKFILL UNDER PIPE HAUNCHES AND COMPACT EVENLY UP ON BOTH SIDES AND ALONG THE FULL LENGTH OF UTILITY PIPING OR CONDUIT TO AVOID DAMAGE OR DISPLACEMENT OF PIPING OR CONDUIT. COORDINATE BACKFILLING WITH UTILITIES TESTING.
6. PLACE AND COMPACT TRENCH GRANULAR BACKFILL OF SATISFACTORY SOIL TO FINAL SUBGRADE ELEVATION.
7. INSTALL WARNING TAPE DIRECTLY ABOVE UTILITIES, 12 INCHES BELOW FINISHED GRADE, EXCEPT 6 INCHES BELOW SUBGRADE UNDER PAVEMENTS AND SLABS.

SOIL FILL

1. FLOW, SCARIFY, BENCH, OR BREAK UP SLOPED SURFACES STEEPER THAN 1 VERTICAL TO 4 HORIZONTAL SO FILL MATERIAL WILL BOND WITH EXISTING MATERIAL.
2. PLACE AND COMPACT FILL MATERIAL IN LAYERS TO REQUIRED ELEVATIONS AS FOLLOWS:
 - a. UNDER GRASS AND PLANTED AREAS, USE SATISFACTORY EXCAVATED SOIL MATERIAL.
 - b. UNDER WALKS AND PAVEMENTS, USE SATISFACTORY EXCAVATED SOIL MATERIAL, OR IMPORTED GRANULAR BORROW, BELOW BASE AND SUBBASE GRAVELS.
3. **SOIL MOISTURE CONTROL**
 1. UNIFORMLY MOISTEN OR AERATE SUBGRADE AND EACH SUBSEQUENT FILL OR BACKFILL SOIL LAYER BEFORE COMPACTION TO WITHIN 2 PERCENT OF OPTIMUM MOISTURE CONTENT.
 2. DO NOT PLACE BACKFILL OR FILL SOIL MATERIAL ON SURFACES THAT ARE MUDDY, FROZEN, OR CONTAIN FROST OR ICE.
 3. REMOVE AND REPLACE, AERATE OR CHEMICALLY TREAT OTHERWISE SATISFACTORY SOIL MATERIAL THAT EXCEEDS OPTIMUM MOISTURE CONTENT BY 2 PERCENT AND IS TOO WET TO COMPACT TO SPECIFIED DRY UNIT WEIGHT.

COMPACTION OF SOIL BACKFILLS AND FILLS

1. GRANULAR BORROW, STRUCTURAL FILL AND SATISFACTORY SOIL MATERIAL: PLACE IN LAYERS NOT MORE THAN 12 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT AND NOT MORE THAN 8 INCHES FOR MATERIAL COMPACTED WITH HAND-GUIDED EQUIPMENT.
2. PLACE BACKFILL AND FILL SOIL MATERIALS EVENLY ON ALL SIDES OF STRUCTURES TO REQUIRED ELEVATIONS, AND UNIFORMLY ALONG THE FULL LENGTH OF EACH STRUCTURE.
3. COMPACT SOIL MATERIALS TO NOT LESS THAN THE FOLLOWING PERCENTAGES OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 1557:
 - a. STRUCTURES AND WALKWAYS - 95 PERCENT
 - b. TRENCHES - 95 PERCENT
 - c. PAVEMENT BASE AND SUBBASE AREAS - 95 PERCENTS
 - d. LANDSCAPED AREAS - 90 PERCENT NOMINAL COMPACTION

GRADING

1. GENERAL: UNIFORMLY GRADE AREAS TO A SMOOTH SURFACE, FREE OF IRREGULAR SURFACE CHANGES. COMPLY WITH COMPACTION REQUIREMENTS AND GRADE TO CROSS SECTIONS, LINES, AND ELEVATIONS INDICATED.
2. SITE GRADING: SLOPE GRADES TO DIRECT WATER AWAY FROM BUILDINGS AND TO PREVENT PONDING. FINISH SUBGRADES TO REQUIRED ELEVATIONS WITHIN THE FOLLOWING TOLERANCES:
 - a. LAWN OR UNPAVED AREAS: PLUS OR MINUS 1 INCH.
 - b. WALKS: PLUS OR MINUS 1/2" WITH NO "BIRD BATHS".
 - c. PAVEMENTS: PLUS OR MINUS 1/4" WITH NO "BIRD BATHS".

SUBBASE AND BASE COURSES

1. PLACE SUBBASE AND BASE COURSE ON STABLE, FIRM SUBGRADES FREE OF MUD, FROST, SNOW, OR ICE.
2. ON PREPARED SUBGRADE, PLACE SUBBASE AND BASE COURSE UNDER PAVEMENTS AND WALKS AS FOLLOWS:
 3. SHAPE SUBBASE AND BASE COURSE TO REQUIRED CROWN ELEVATIONS AND CROSS-SLOPE GRADES.
4. COMPACT SUBBASE AND BASE COURSE IN MAXIMUM 8 INCH LIFTS IN UNCOMPACTED THICKNESS AT OPTIMUM MOISTURE CONTENT TO REQUIRED GRADES, LINES, CROSS SECTIONS, AND THICKNESS TO NOT LESS THAN 95 PERCENT OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 1557.

PROTECTION

1. PROTECTING GRADED AREAS: PROTECT NEWLY GRADED AREAS FROM TRAFFIC, FREEZING, AND EROSION. KEEP FREE OF TRASH AND DEBRIS.
2. REPAIR AND REESTABLISH GRADES TO SPECIFIED TOLERANCES WHERE COMPLETED OR PARTIALLY COMPLETED SURFACES BECOME ERODED, RUTTED, SETTLED, OR WHERE THEY LOSE CORRECTION DUE TO SUBSEQUENT CONSTRUCTION OPERATIONS OR WEATHER CONDITIONS WITHOUT ADDITIONAL COMPENSATION.
3. WHERE SETTLING OCCURS BEFORE PROJECT COMPLETION PERIOD ELAPSES, REMOVE FINISHED SURFACING, BACKFILL WITH ADDITIONAL SOIL MATERIAL, COMPACT, AND RECONSTRUCT SURFACING.
4. RESTORE APPEARANCE, QUALITY, AND CONDITION OF FINISHED SURFACING TO MATCH ADJACENT WORK, AND ELIMINATE EVIDENCE OF RESTORATION TO GREATEST EXTENT POSSIBLE.
5. ALL AREAS WHERE SOIL IS PLACED SHALL NOT HAVE STANDING WATER. THE CONTRACTOR SHALL KEEP WATER OUT OF THE WORK AREAS UNTIL BACKFILL IS COMPLETE OR ADEQUATE PROVISIONS TO PROTECT THE WORK HAVE BEEN TAKEN BY THE CONTRACTOR.

DISPOSAL OF SURPLUS AND WASTE MATERIALS

1. DISPOSAL: REMOVE SURPLUS SATISFACTORY SOIL EXCEPT LOAM AND MATERIALS OTHERWISE SHOWN ON THE CONTRACT DRAWINGS, WASTE MATERIAL, INCLUDING UNSATISFACTORY SOIL, TRASH, AND DEBRIS, AND LEGALLY DISPOSE OF IT OFF OWNER'S PROPERTY.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRODUCING CERTIFIED AS-BUILT DRAWINGS SHOWING THE LOCATION OF ABOVE-GROUND AND BELOW GROUND IMPROVEMENTS, WITH MEASURED OR MARKED DISTANCES FROM IDENTIFIED REFERENCE POINTS. AS-BUILT DRAWINGS SHALL INCLUDE THE LOCATION OF BENDS AND FITTINGS ON UNDERGROUND UTILITY LINES.

PAVING NOTES

PROJECT CONDITIONS

1. ENVIRONMENTAL LIMITATIONS: DO NOT APPLY ASPHALT MATERIALS IF SUBSTRATE IS WET OR EXCESSIVELY DAMP OR IF AMBIENT TEMPERATURE IS LESS THAN SPECIFIED IN MAINEDOT SPECIFICATIONS.
2. REGULATORY REQUIREMENTS: COMPLY WITH MATERIALS, WORKMANSHIP, AND OTHER APPLICABLE REQUIREMENTS OF MAINE DOT FOR ASPHALT PAVING WORK.

AGGREGATES

1. AGGREGATES SHALL CONSIST OF CRUSHED STONE, CRUSHED GRAVEL, CRUSHED SLAG, SCREENINGS, NATURAL SAND AND MINERAL FILLER AS REQUIRED. COARSE AGGREGATE: ASTM D 692/D 692M, SOUND, ANGULAR CRUSHED STONE, CRUSHED GRAVEL, OR CURED, CRUSHED BLAST-FURNACE SLAG.
2. FINE AGGREGATE: ASTM D 1073, SHARP-EDGED NATURAL SAND OR SAND PREPARED FROM STONE, GRAVEL, CURED BLAST-FURNACE SLAG, OR COMBINATIONS THEREOF.
3. MINERAL FILLER: ASTM D 242/D 242M, ROCK OR SLAG DUST, HYDRAULIC CEMENT, OR OTHER INERT MATERIAL.
4. ASPHALT MATERIALS
5. ASPHALT BINDER: AASHTO M 320, PG 64-28.
6. TACK COAT: AASHTO M 140 EMULSIFIED ASPHALT, OR AASHTO M 208 CATIONIC EMULSIFIED ASPHALT, SLOW SETTING, DILUTED IN WATER, OF SUITABLE GRADE AND CONSISTENCY FOR APPLICATION.

MIXES

1. HOT-MIX ASPHALT: DENSE-GRADED, HOT-LAID, HOT-MIX ASPHALT PLANT AND COMPLYING WITH THE FOLLOWING REQUIREMENTS:
 2. PROVIDE MIXES WITH A HISTORY OF SATISFACTORY PERFORMANCE IN GEOGRAPHICAL AREA WHERE PROJECT IS LOCATED.
 3. BASE COURSE: MAINEDOT 703.09 GRADING TYPE 19mm.
 4. SURFACE COURSE: MAINEDOT 703.09 GRADING TYPE 9.5mm.

SURFACE PREPARATION

1. GENERAL: IMMEDIATELY BEFORE PLACING ASPHALT MATERIALS, REMOVE LOOSE AND DELETERIOUS MATERIAL FROM SUBSTRATE SURFACES. ENSURE THAT PREPARED SUBGRADE IS READY TO RECEIVE PAVING.
2. PROOF-ROLL SUBGRADE BELOW PAVEMENTS WITH HEAVY PNEUMATIC-TIRED EQUIPMENT TO IDENTIFY SOFT POCKETS AND AREAS OF EXCESS YIELDING, DO NOT PROOF-ROLL WET OR SATURATED SUBGRADES.

PLACING HOT-MIX ASPHALT

1. MACHINE PLACE HOT-MIX ASPHALT ON PREPARED SURFACE, SPREAD UNIFORMLY, AND STRIKE OFF. PLACE ASPHALT MIX BY HAND IN AREAS INACCESSIBLE TO EQUIPMENT IN A MANNER THAT PREVENTS SEGREGATION OF MIX. PLACE EACH COURSE TO REQUIRED GRADE, CROSS SECTION, AND THICKNESS WHEN COMPACTED.
2. SPREAD MIX AT A MINIMUM TEMPERATURE OF 275 DEG F.
3. REGULATE PAVER MACHINE SPEED TO OBTAIN SMOOTH, CONTINUOUS SURFACE FREE OF PULLS AND TEARS IN ASPHALT-PAVING MAT.
4. PLACE PAVING IN CONSECUTIVE STRIPS NOT LESS THAN 10 FEET WIDE UNLESS INFILL EDGE STRIPS OF A LESSER WIDTH ARE REQUIRED.
5. PROMPTLY CORRECT SURFACE IRREGULARITIES IN PAVING COURSE BEHIND PAVER. USE SUITABLE HAND TOOLS TO REMOVE EXCESS MATERIAL FORMING HIGH SPOTS. FILL DEPRESSIONS WITH HOT-MIX ASPHALT TO PREVENT SEGREGATION OF MIX; USE SUITABLE HAND TOOLS TO SMOOTH SURFACE.

JOINTS

1. CONSTRUCT JOINTS TO ENSURE A CONTINUOUS BOND BETWEEN ADJOINING PAVING SECTIONS. CONSTRUCT JOINTS FREE OF DEPRESSIONS, WITH SAME TEXTURE AND SMOOTHNESS AS OTHER SECTIONS OF HOT-MIX ASPHALT COURSE.
2. CLEAN CONTACT SURFACES AND APPLY TACK COAT TO JOINTS.
3. OFFSET LONGITUDINAL JOINTS, IN SUCCESSIVE COURSES, A MINIMUM OF 6 INCHES.
4. OFFSET TRANSVERSE JOINTS, IN SUCCESSIVE COURSES, A MINIMUM OF 24 INCHES.
5. CONSTRUCT TRANSVERSE JOINTS AT EACH POINT WHERE PAPER ENDS A DAY'S WORK AND RESUMES WORK AT A SUBSEQUENT TIME. CONSTRUCT THESE JOINTS USING EITHER "BULKHEAD" OR "PAVERED" METHOD ACCORDING TO A1 MS-22, FOR BOTH "ENDING A LANE" AND "RESUMPTION OF PAVING OPERATIONS."

COMPACTION

1. GENERAL: BEGIN COMPACTION AS SOON AS PLACED HOT-MIX PAVING WILL BEAR ROLLER WEIGHT WITHOUT EXCESSIVE DISPLACEMENT. COMPACT HOT-MIX PAVING WITH HOT, HAND TAMBERS OR WITH VIBRATORY-PLATE COMPACTORS IN AREAS INACCESSIBLE TO ROLLERS.
2. COMPLETE COMPACTION BEFORE MIX TEMPERATURE COOLS TO 185 DEG F.
3. BREAKDOWN ROLLING: COMPLETE BREAKDOWN OR INITIAL ROLLING IMMEDIATELY AFTER ROLLING JOINTS AND OUTSIDE EDGE. EXAMINE SURFACE IMMEDIATELY AFTER BREAKDOWN ROLLING FOR INDICATED CROWN, GRADE, AND SMOOTHNESS. CORRECT LAYDOWN AND ROLLING OPERATIONS TO COMPLY WITH REQUIREMENTS.
4. INTERMEDIATE ROLLING: BEGIN INTERMEDIATE ROLLING IMMEDIATELY AFTER BREAKDOWN ROLLING WHILE HOT-MIX ASPHALT IS STILL HOT ENOUGH TO ACHIEVE SPECIFIED DENSITY. CONTINUE ROLLING UNTIL HOT-MIX ASPHALT COURSE HAS BEEN UNIFORMLY COMPACTED TO THE FOLLOWING DENSITY:
 5. AVERAGE DENSITY: 92 PERCENT OF REFERENCE MAXIMUM THEORETICAL DENSITY ACCORDING TO ASTM D 2041, BUT NOT LESS THAN 90 PERCENT OR GREATER THAN 97 PERCENT.
 6. FINISH ROLLING: FINISH ROLL PAVED SURFACES TO REMOVE ROLLER MARKS WHILE HOT-MIX ASPHALT IS STILL WARM.
5. EDGE SHAPING: WHILE SURFACE IS BEING COMPACTED AND FINISHED, TRIM EDGES OF PAVEMENT TO PROPER ALIGNMENT. BEVEL EDGES WHILE ASPHALT IS STILL HOT. COMPACT THOROUGHLY.
6. PROTECTION: AFTER FINAL ROLLING, DO NOT PERMIT VEHICULAR TRAFFIC ON PAVEMENT UNTIL IT HAS COOLED AND HARDENED.
9. ERECT BARRICADES TO PROTECT PAVING FROM TRAFFIC UNTIL MIXTURE HAS COOLED ENOUGH NOT TO BECOME MARKED.

INSTALLATION TOLERANCES

1. PAVEMENT THICKNESS: COMPACT EACH COURSE TO PRODUCE THE THICKNESS INDICATED WITHIN THE FOLLOWING TOLERANCES:
 2. BASE COURSE: PLUS OR MINUS 1/4 INCH.
 3. SURFACE COURSE: PLUS 1/4 INCH, NO MINUS.
4. PAVEMENT SURFACE SMOOTHNESS: COMPACT EACH COURSE TO PRODUCE A SURFACE SMOOTHNESS WITHIN THE FOLLOWING TOLERANCES AS DETERMINED BY USING A 10-FOOT STRAIGHTEDGE APPLIED TRANSVERSELY OR LONGITUDINALLY TO PAVED AREAS:
 5. BASE COURSE: 1/4 INCH.
 6. SURFACE COURSE: 1/8 INCH.
 7. FIELD QUALITY CONTROL.
8. TESTING AGENCY: OWNER WILL ENGAGE A QUALIFIED TESTING AGENCY TO PERFORM TESTS AND INSPECTIONS.
9. REPLACE AND COMPACT HOT-MIX ASPHALT WHERE CORE TESTS WERE TAKEN.
10. REMOVE AND REPLACE OR INSTALL ADDITIONAL HOT-MIX ASPHALT WHERE TEST RESULTS OR MEASUREMENTS INDICATE THAT IT DOES NOT COMPLY WITH SPECIFIED REQUIREMENTS.

CURBING NOTES

1. CURBING SHALL BE BITUMINOUS CURBING MDOOT TYPE 3 MOLD 3.
2. BITUMINOUS CURB SHALL MEET THE REQUIREMENTS FOR BITUMINOUS CURB UNDER SECTION 609.04 OF THE MDOOT SPECIFICATIONS.

METAL GUARD RAIL

1. GENERAL: ALL METAL GUARDRAIL COMPONENTS AND INSTALLATION SHALL MEET THE REQUIREMENTS FOR GUARDRAIL UNDER M06 SPECIFICATION SECTION 606, GUARDRAIL. ALL TERMINAL ENDS SHALL BE MASH COMPLIANT.

STORM DRAINAGE NOTES

1. STORM DRAIN PIPING SHALL BE CORRUGATED PE PIPE AND FITTINGS NPS 12 TO NPS 60 (DN 300 TO DN 1500). AASHTO M 294M, TYPE S, WITH SMOOTH WATERWAY FOR COUPLING JOINTS UNLESS OTHERWISE NOTED. PIPING SHALL HAVE SILT/TIGHT COUPLINGS: PE SLEEVE WITH ASTM D 1056, TYPE 2, CLASS A, GRADE 2 GASKET MATERIAL THAT MATES WITH PIPE AND FITTINGS.
 2. GENERAL LOCATIONS AND ARRANGEMENTS: DRAWING PLANS AND DETAILS INDICATE GENERAL LOCATION AND ARRANGEMENT OF UNDERGROUND STORM DRAINAGE PIPING. LOCATION AND ARRANGEMENT OF PIPING LAYOUT TAKE INTO ACCOUNT DESIGN CONSIDERATIONS. INSTALL PIPING AS INDICATED, TO EXTENT PRACTICAL. WHERE SPECIFIC INSTALLATION IS NOT INDICATED, FOLLOW PIPING MANUFACTURER'S WRITTEN INSTRUCTIONS.
 3. INSTALL PIPING BEGINNING AT LOW POINT, TRUE TO GRADES AND ALIGNMENT INDICATED WITH UNBROKEN CONTINUITY OF INVERT. PLACE BELL ENDS OF PIPING FACING UPSTREAM. INSTALL GASKETS, SEALS, SLEEVES, AND COUPLINGS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS FOR USE OF LUBRICANTS, CEMENTS, AND OTHER INSTALLATION REQUIREMENTS.
- CATCH BASINS**
1. STANDARD PRECAST CONCRETE CATCH BASINS.
 2. DESCRIPTION: ASTM C 478 (ASTM C 478M), PRECAST, REINFORCED CONCRETE, OF DEPTH INDICATED, WITH PROVISION FOR SEALANT JOINTS.
 3. BASE SECTION: 6-INCH (150-MM) MINIMUM THICKNESS FOR FLOOR SLAB AND 4-INCH (102-MM) MINIMUM THICKNESS FOR WALLS AND BASE RISER SECTION, AND SEPARATE BASE SLAB OR BASE SECTION WITH INTEGRAL FLOOR.
 4. RISER SECTIONS: 4-INCH (102-MM) MINIMUM THICKNESS, 48-INCH (1200-MM) DIAMETER, AND LENGTHS TO PROVIDE DEPTH INDICATED.
 5. TOP SECTION: ECCENTRIC-CONE TYPE UNLESS CONCENTRIC-CONE OR FLAT-SLAB-TOP TYPE IS INDICATED. TOP OF CONE OF SIZE THAT MATCHES GRADE RINGS.
 6. JOINT SEALANT: ASTM C 990 (ASTM C 990M), BITUMEN OR BUTYL RUBBER.
 7. ADJUSTING RINGS: INTERLOCKING RINGS WITH LEVEL OR SLOPED EDGE IN THICKNESS AND SHAPE MATCHING CATCH BASIN FRAME AND GRATE. INCLUDE SEALANT RECOMMENDED BY RING MANUFACTURER.
 8. GRADE RINGS: INCLUDE TWO OR THREE REINFORCED-CONCRETE RINGS, OF 6- TO 9-INCH (150- TO 225-MM) TOTAL THICKNESS, THAT MATCH 24-INCH- (610-MM-) DIAMETER FRAME AND GRATE.
 9. STEPS: NO STEPS.
 10. PIPE CONNECTORS: ASTM C 923 (ASTM C 923M), RESILIENT, OF SIZE REQUIRED, FOR EACH PIPE CONNECTING TO BASE SECTION.
 11. FRAMES AND GRATES: ASTM A 536, GRADE 60-40-18, DUCTILE IRON DESIGNED FOR A-16, STRUCTURAL LOADING. INCLUDE FLAT GRATE WITH SMALL SQUARE OR SHORT-SLOTTED DRAINAGE OPENINGS.
 12. SIZE: 24 BY 24 INCHES (610 BY 610 MM) MINIMUM UNLESS OTHERWISE INDICATED.
 13. GRADE FREE AREA: APPROXIMATELY 50 PERCENT UNLESS OTHERWISE INDICATED.
 14. FRAMES AND GRATES: ASTM A 536, GRADE 60-40-18, DUCTILE IRON DESIGNED FOR A-16, STRUCTURAL LOADING. INCLUDE 24-INCH (610-MM) ID BY 7- TO 8-INCH (175- TO 225-MM) DEPTH (102-MM) MINIMUM WIDTH FLANGE, AND 26-INCH- (660-MM-) DIAMETER FLAT GRATE WITH SMALL SQUARE OR SHORT-SLOTTED DRAINAGE OPENINGS.
 15. GRADE FREE AREA: APPROXIMATELY 50 PERCENT UNLESS OTHERWISE INDICATED.

SMALL CATCH BASINS

1. TYPE "F" PRECAST CONCRETE CATCH BASINS.
2. DESCRIPTION: 24" SQUARE CATCH BASIN TO ASTM C 478 (ASTM C 478M), PRECAST, REINFORCED CONCRETE, OF DEPTH INDICATED, WITH PROVISION FOR SEALANT JOINTS. DESIGNED FOR H-20 WHEEL LOADING.
3. CONCRETE: MINIMUM 4,000PSI AT 28-DAYS REINFORCED TO 0.1250 IN/LF.
4. BASE SECTION: 6-INCH (150-MM) MINIMUM THICKNESS FOR FLOOR SLAB AND 5-INCH (102-MM) MINIMUM THICKNESS FOR WALLS.
5. JOINT SEALANT: ASTM C 990 (ASTM C 990M), BITUMEN OR BUTYL RUBBER.
6. GRADE RINGS: INCLUDE TWO OR THREE REINFORCED-CONCRETE RINGS, OF 6- TO 9-INCH (150- TO 225-MM) TOTAL THICKNESS, THAT MATCH 24-INCH- (610-MM-) DIAMETER FRAME AND GRATE.
7. STEPS: NO STEPS.
8. PIPE CONNECTORS: ASTM C 923 (ASTM C 923M), RESILIENT, OF SIZE REQUIRED, FOR EACH PIPE CONNECTING TO BASE SECTION.
9. FRAMES AND GRATES: ASTM A 536, GRADE 60-40-18, DUCTILE IRON DESIGNED FOR A-16, STRUCTURAL LOADING. INCLUDE FLAT GRATE WITH SMALL SQUARE OR SHORT-SLOTTED DRAINAGE OPENINGS.
10. SIZE: 24 BY 24 INCHES (610 BY 610 MM) MINIMUM UNLESS OTHERWISE INDICATED.
11. DITCH GRATES: NEENAH FOUNDRY SQUARE DITCH GRATE (MODEL # R-4343), OR APPROVED EQUAL.
12. FLAT GRATES: NEENAH FOUNDRY SQUARE GRATE (MODEL #R-4808), OR APPROVED EQUAL.
13. PIPE OUTLETS
14. RIPRAP BASINS: BROKEN, IRREGULARLY SIZED AND SHAPED, GRADED STONE ACCORDING TO NSSGA'S "QUARRIED STONE FOR EROSION AND SEDIMENT CONTROL".
15. AVERAGE SIZE: NSSGA NO. R-3, SCREEN OPENING 2 INCHES (51 MM).
16. AVERAGE SIZE: NSSGA NO. R-4, SCREEN OPENING 3 INCHES (76 MM).
17. AVERAGE SIZE: NSSGA NO. R-5, SCREEN OPENING 5 INCHES (127 MM).
18. FILTER STONE: ACCORDING TO NSSGA'S "QUARRIED STONE FOR EROSION AND SEDIMENT CONTROL," NO. FS-2, NO. 4 SCREEN OPENING, AVERAGE-SIZE GRADED STONE.
19. ENERGY DISSIPATORS: ACCORDING TO NSSGA'S "QUARRIED STONE FOR EROSION AND SEDIMENT CONTROL," NO. A-1, 3-TON (2721-KG) AVERAGE WEIGHT ARMOR STONE, UNLESS OTHERWISE INDICATED.

PAINTED PAVEMENT MARKINGS

1. PAINT FOR PAVEMENT MARKINGS SHALL BE LOW VOC, READY-MIXED, ONE COMPONENT, 100% ACRYLIC WATERBORNE AIRFIELD AND TRAFFIC MARKING PAINT, SPECIFICALLY MANUFACTURED FOR APPLICATION ON SUCH TRAFFIC BEARING SURFACES AS PORTLAND CEMENT CONCRETE, BITUMINOUS CONCRETE, ASPHALT, AND PREVIOUSLY PAINTED AREAS OF THESE SURFACES.