

CITY OF AUBURN

AUBURN, MAINE

STETSON ROAD CULVERT REPLACEMENT

ISSUED FOR BID

APRIL 2025

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SOURCE: USGS TOPO QUADRANGLE

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CLIENT INFO:
CITY OF AUBURN AUBURN, MAINE
STETSON ROAD CULVERT REPLACEMENT
KEV MM/DD/YY DESCRIPTION JOB NO: 0233981.25
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GENERAL COVER SHEET
DRAWING NO:
G-0-001

GENERAL NOTES

- EXISTING FACILITIES (TREES, POLES, ETC.) THAT ARE NOT SCHEDULED TO BE REMOVED SHALL BE PROTECTED DURING CONSTRUCTION AND PROTECTION SHALL BE INCIDENTAL TO THE CONTRACT
- 2. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE DEPARTMENT OF THE ARMY US ARMY CORPS OF ENGINEERS **GENERAL PERMIT NAE-2024-0664**
- 3. CONTRACTOR SHALL PROVIDE 6-INCHES OF LOAM AND SEED IN ALL LAWN AREAS DISTURBED BY CONTRACTOR'S OPERATIONS. 4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE CONDITIONS RELATING TO THE CONSTRUCTION AND
- PERFORMANCE OF THE WORK AS SHOWN ON THE DRAWINGS. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR THE MATERIALS AND LABOR NECESSARY TO CARRY OUT THE PROVISIONS OF THE CONTRACT.
- IN SO FAR AS POSSIBLE, THE CONTRACTOR SHALL PERFORM ALL THE WORK OF THIS PROJECT IN A MANNER THAT DOES NOT INTERFERE WITH THE ACCESSIBILITY OF PROPERTY, MAINTENANCE OF TRAFFIC, AND SAFETY OF THE PUBLIC. COORDINATE WITH THE OWNER TO ENSURE THAT WORK OF THIS PROJECT DOES NOT INCUR UNANTICIPATED INTERFERENCES.
- 6. SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR. PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
- 7. THE CONTRACTOR SHALL SUPERVISE AND INSPECT THE WORK OF THIS PROJECT IN AN EFFICIENT AND COMPETENT MANNER. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCE AND PROCEDURES USED TO COMPLETE THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE WORK IS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. A REPRESENTATIVE OF THE GENERAL CONTRACTOR SHALL BE PRESENT DURING ALL PHASES OF THE
- THE CONTRACTOR SHALL DISPOSE OF ALL ITEMS SCHEDULED FOR REMOVAL THAT WILL NOT BE RETAINED BY THE OWNER. ALL ITEMS SHALL BE DISPOSED OF IN A LEGAL MANNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT OF ALL PROPOSED WORK AS SHOWN ON THE DRAWINGS.THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, AND NOTIFY ENGINEER OF RECORD IN WRITING OF ANY DISCREPANCIES OR INCONSISTENCIES. ANY ON-SITE MODIFICATIONS REQUIRED DUE TO LACK OF DIMENSIONAL VERIFICATIONS SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- 10. ANY WALL, PARTITION OR SURFACE DISTURBED BECAUSE OF NEW WORK OR DEMOLITION SHALL BE PATCHED AND FINISHED CONTINUOUSLY TO THE NEAREST CORNER UNLESS NOTED OTHERWISE. MATCH EXISTING ADJACENT CONSTRUCTION FINISHES, UNLESS NOTED OTHERWISE.
- 11. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR AS REQUIRED TO PERFORM THE WORK AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE APPLICABLE FEDERAL, STATE AND LOCAL LAWS.
- 12. RESTORE ALL AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS TO ORIGINAL CONDITION UNLESS NOTED OTHERWISE AT NO ADDITIONAL COST TO THE OWNER.
- 13. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT EQUIPMENT FLUIDS FROM REACHING ANY WATER COURSE. ANY INADVERTENT FLUID DISCHARGES SHALL BE IMMEDIATELY CLEANED FROM THE WATERS IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS AT THE CONTRACTOR'S EXPENSE. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY FLUID DISCHARGE REACHING ANY WATER COURSE.
- 14. BRACING OF UTILITY POLES, WHERE REQUIRED, SHALL BE INCIDENTAL TO THE WORK, AND NO SEPARATE PAYMENT SHALL BE MADE.
- 15. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY UTILITY DAMAGED BY THE CONTRACTOR OR THEIR SUB-CONTRACTOR'S DURING CONSTRUCTION. THE REPAIR EXPENSE WILL BE INCIDENTAL TO THE CONTRACT
- 16. RECORD DRAWINGS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PROVIDED TO THE OWNER UPON COMPLETION OF THE PROJECT. RECORD DRAWINGS SHALL BE PREPARED AND STAMPED BY A PROFESSIONAL LAND SURVEYOR LICENSED IN MAINE AND INCLUDE UNDERGROUND AND ABOVEGROUND UTILITIES. PIPE BENDS, TEES, VALVES, UNDERGROUND STRUCTURES, PULL BOXES, DEPTH OF COVER AND INVERT ELEVATIONS. AS-BUILTS SHALL INCLUDE LOCATIONS OF EXISTING UTILITIES WHICH ARE EXPOSED DURING CONSTRUCTION.
- 17. ALL ITEMS ON THE PLANS WITH LIGHT DESIGNATION INDICATE EXISTING ITEMS. ALL ITEMS WITH BOLD DESIGNATION INDICATE NEW WORK AS PART OF THIS CONTRACT UNLESS NOTED OTHERWISE.
- 18. ALL TRENCHES SHALL BE SAWCUT PRIOR TO EXCAVATION. ANY DISTURBED PAVEMENT AREAS OUTSIDE OF TRENCH SHALL BE SAWCUT PRIOR TO PERMANENT PAVEMENT PATCH.
- 19. PROPERLY PROTECT AND DO NOT DISTURB PROPERTY IRONS AND MONUMENTS. IF DISTURBED, THE PROPERTY MONUMENT SHALL BE REST AT THE CONTRACTOR'S EXPENSE BY A LICENSED LAND SURVEYOR ACCEPTABLE TO THE CITY OF AUBURN.
- 20. THE CONTRACTOR SHALL SUBMIT A PROPOSED TRAFFIC CONTROL PLAN TO THE CITY ENGINEER AT LEAST 7 DAYS BEFORE REGINNING CONSTRUCTION ACTIVITIES THE PROPOSED TRAFFIC CONTROL PLAN SHALL PROVIDE FOR SAFE MOVEMENT OF BOTH VEHICLES AND PEDESTRIANS DURING CONSTRUCTION ACTIVITIES. THE PROPOSED TRAFFIC CONTROL PLAN SHALL BE SUBJECT TO APPROVAL BY THE CITY ENGINEER, WHO MAY ATTACH SPECIAL CONDITIONS TO, OR REQUIRE MODIFICATIONS OF, THE TRAFFIC CONTROL PLAN. WORK SHALL NOT BEGIN UNTIL THE PLAN IS APPROVED BY THE CITY ENGINEER.
- 21. DO NOT PARK, IMPEDE ACCESS TO, OR STORE EQUIPMENT BEYOND LIMIT OF WORK, UNLESS PERMISSION HAS BEEN GRANTED IN WRITING BY CITY AND/OR LAND OWNER.
- 22. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY CONSTRUCTION PERMITS FROM THE CITY, PERMIT APPLICATIONS HALL BE SUBMITTED WITH ADEQUATE TIME AS NOT TO DELAY CONSTRUCTION.
- 23. ALL WORK ASSOCIATED WITH THE PROJECT SHALL BE COMPLETED IN ACCORDANCE WITH THE CITY OF AUBURN BYLAW AND LOCAL REGULATIONS
- 24. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL ATTEND A PRE-CONSTRUCTION MEETING HELD AT THE PROJECT SITE WITH THE CONTRACTOR, ENGINEER, AND OWNER TO REVIEW THE CONSTRUCTION SCHEDULE, AND CRITICAL ASPECTS OF THE PROJECT.
- 25. CONTRACTOR TO PROVIDE A DETAILED CONSTRUCTION SCHEDULE TO THE OWNER FOR REVIEW AND APPROVAL PRIOR TO BEGINNING WORK.

26. ALL "IN WATER WORK" SHALL BE COMPLETED WITHIN THE TIME-OF-YEAR WINDOW BETWEEN JULY 15TH AND SEPTEMBER 30TH. SURVEY NOTES

- EXISTING CONDITIONS ARE BASED ON A MAY 2024 SURVEY PERFORMED BY TERRADYN CONSULTANTS, LLC AND OTHER RECORD DOCUMENTS.
- 2. CONTOURS SHOWN ARE BASED ON A TOPOGRAPHIC SURVEY COMPLETED BY TERRADYN CONSULTANTS, LLC IN MAY 2024 WITH A CONTOUR INTERVAL OF 1-FOOT.
- ALL BEARINGS ARE REFERENCED TO MAINE STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD83 AND BASED ON GPS OBSERVATIONS NEAR SURVEYED PARCEL.
- 4. ELEVATIONS ARE REFERENCED TO NAVD88.
- 5. ALL BOOK AND PAGES REFER TO THE ANDROSCOGGIN COUNTY REGISTRY OF DEEDS.

DEMOLITION NOTES

- 1. EXISTING UTILITIES SHALL BE TERMINATED. UNLESS OTHERWISE NOTED, IN CONFORMANCE WITH LOCAL, STATE, AND INDIVIDUAL UTILITY COMPANY STANDARD SPECIFICATIONS AND DETAILS. THE CONTRACTOR SHALL COORDINATE UTILITY SERVICE DISCONNECTS WITH THE UTILITY REPRESENTATIVES.
- CONTRACTOR SHALL DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS, ORDINANCES, AND STATUTES.
- THE DEMOLITION LIMITS DEPICTED IN THE PLANS ARE INTENDED TO AID THE CONTRACTOR DURING THE BIDDING AND CONSTRUCTION PROCESS, AND IS NOT INTENDED TO DEPICT EACH AND EVERY ELEMENT OF DEMOLITION. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THE DETAILED SCOPE OF DEMOLITION BEFORE SUBMITTING THEIR BID/PROPOSAL TO PERFORM THE WORK AND SHALL MAKE NO CLAIMS AND SEEK NO ADDITIONAL COMPENSATION FOR CHANGED CONDITIONS OR UNFORESEEN LATENT SITE CONDITIONS RELATED TO ANY CONDITIONS DISCOVERED DURING EXECUTION OF THE WORK.

UTILITIES

- INCLUDING ROUTES WITHIN THE PUBLIC RIGHTS OF WAY.
- MAY BE WARRANTED TO RESOLVE THE CONFLICT.
- A. PAVEMENTS AND CONCRETE SURFACES: FLUSH
- ALL SURFACES ALONG ACCESSIBLE ROUTES: FLUSH EARTH TO THE RIM ELEVATION.
- REQUIREMENTS
- FEET IN DEPTH AND GREATER. THE MINIMUM DIAMETER SHALL BE 5 FEET.
- EXCAVATION
- OF EXISTING VALVES AND HYDRANTS.
- REVIEW AND APPROVAL PRIOR TO DISTRIBUTING NOTIFICATION TO PROPERTIES.

LAYOUT

- PROJECT FEATURES.
- FROM THE ENGINEER AND SHALL FIELD VERIFY THE LOCATION OF PROJECT FEATURES
- DISCREPANCIES BEFORE COMMENCING OR PROCEEDING WITH WORK.
- NOTED

CONSTRUCTION ACTIVITY

- BYPASSING THE STREAM DURING CONSTRUCTION.

EROSION & SEDIMENTATION CONTROL NOTES

- CONTRACTORS.
- LOCAL CODES
- RIVERS, IMPOUNDMENTS, LAKES, ETC.
- AND THE DETAILS DEPICTED IN THE DRAWINGS.
- 5 SLOPES THAT WILL HAVE CONCENTRATED STORMWATER FLOW MUST BE PROTECTED USING THE BMPS DEPICTED ON THE FOR CONTRACTORS.
- CONTROL MATS/BLANKETS, AND TEMPORARY VEGETATIVE COVER
- THE USE OF CALCIUM CHLORIDE FOR DUST CONTROL IS NOT ALLOWED.
- PERFORMED PROMPTLY BY THE CONTRACTOR.
- INCLUDING BYPASS OF BOBBIN MILL BROOK.
- SOILS DURING DRY WEATHER BY APPLYING WATER SITE-WIDE.
- WATER DIVERSIONS AS NECESSARY TO MINIMIZE ON-SITE DRAINAGE EROSION.
- 13. WHEN VEGETATIVE COVER IS TO BE ESTABLISHED AS A TEMPORARY OR PERMANENT EROSION CONTROL MEASURE:
- VEGETATIVE COVER:
- COVER IS ESTABLISHED; AND

1. THE LOCATIONS, SIZES, AND TYPES OF EXISTING UTILITIES ARE SHOWN AS AN APPROXIMATE REPRESENTATION ONLY. THE OWNER OR ITS REPRESENTATIVE(S) HAVE NOT INDEPENDENTLY VERIFIED THIS INFORMATION AS SHOWN ON THE PLANS. THI UTILITY INFORMATION SHOWN DOES NOT GUARANTEE THE ACTUAL EXISTENCE, SERVICEABILITY, OR OTHER DATA CONCERNING THE UTILITIES, NOR DOES IT GUARANTEE AGAINST THE POSSIBILITY THAT ADDITIONAL UTILITIES MAY BE PRESENT THAT ARE NOT SHOWN ON THE PLANS. PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND DETERMINE THE EXACT LOCATIONS, SIZES, AND ELEVATIONS OF THE POINTS OF CONNECTIONS TO THE EXISTING UTILITIES AND, SHALL CONFIRM THAT THERE ARE NO INTERFERENCES WITH EXISTING UTILITIES AND THE PROPOSED UTILITY ROUTES,

2. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, OR EXISTING CONDITIONS DIFFER FROM THOSE SHOWN SUCH THAT THE WORK CANNOT BE COMPLETED AS INTENDED, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR. AND THE INFORMATION FURNISHED IN WRITING TO THE OWNER'S REPRESENTATIVE FOR THE RESOLUTION OF THE CONFLICT. CONTRACTOR'S FAILURE TO NOTIFY PRIOR TO PERFORMING ADDITIONAL WORK RELEASES OWNER FROM OBLIGATIONS FOR ADDITIONAL PAYMENTS WHICH OTHERWISE

3. SET CATCH BASIN RIMS, AND INVERTS OF SEWERS, DRAINS, AND DITCHES IN ACCORDANCE WITH ELEVATIONS ON THE PLANS. 4. RIM ELEVATIONS FOR DRAIN AND SEWER MANHOLES, WATER VALVE COVERS, GAS GATES, ELECTRIC AND TELEPHONE PULL BOXES, AND MANHOLES, AND OTHER SUCH ITEMS, ARE APPROXIMATE AND SHALL BE SET/RESET AS FOLLOWS:

LANDSCAPE, LOAM AND SEED, AND OTHER EARTH SURFACE AREAS: ONE INCH ABOVE SURROUNDING AREA AND TAPER

5. CONTRACTOR SHALL MAKE ARRANGEMENTS FOR AND SHALL BE RESPONSIBLE FOR PAYING FEES FOR UTILITY OR SIGN POLE RELOCATION AND FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE, FIRE ALARM, AND ANY OTHER PRIVATE UTILITIES, WHETHER WORK IS PERFORMED BY CONTRACTOR OR BY THE UTILITIES COMPANY.

6. CONTRACTOR SHALL EXCAVATE AND BACKFILL TRENCHES FOR NATURAL GAS UTILITY IN ACCORDANCE WITH GAS COMPANY'S

7. ALL DRAINAGE AND SANITARY STRUCTURE INTERIOR DIAMETERS (4' MIN.) SHALL BE DETERMINED BY THE MANUFACTURER BASED ON THE PIPE CONFIGURATIONS SHOWN ON THESE PLANS AND LOCAL MUNICIPAL STANDARDS. FOR MANHOLES THAT ARE 20

8. NOTIFY UTILITY OWNERS PRIOR TO COMMENCING WORK TO ALLOW SUFFICIENT TIME TO LOCATE AND MARK THE LOCATION OF BURIED UTILITIES. CONTRACTOR SHALL CONTACT "DIG SAFE", TELEPHONE 888-344-7233, AT LEAST 72 HOURS PRIOR TO

9. THE CONTRACTOR SHALL COORDINATE SHUTOFFS WITH AUBURN WATER AND SEWERAGE DISTRICT AND NOT OPERATE VALVES DIRECTLY. THE AUBURN WATER & SEWERAGE DISTRICT WILL OPERATE EXISTING VALVES AND HYDRANTS TO ISOLATE SECTIONS OF THE WORK. CONTRACTOR TO PROVIDE A MINIMUM 72-HOUR ADVANCE NOTICE TO OWNER WHEN REQUESTING OPERATION

10. THE CONTRACTOR MUST PROVIDE WRITTEN NOTIFICATION TO ANY PROPERTY THAT WILL BE WITHOUT WATER DUE TO THE SHUTDOWN, INCLUDING SHUTDOWN FOR BYPASS CONNECTION. CONTRACTOR SHALL DELIVER WRITTEN NOTIFICATION TO EACH PROPERTY AT LEAST 48 HOURS IN ADVANCE OF SCHEDULED SHUTDOWN. PROVIDE DRAFT NOTIFICATION TO OWNER FOR

1. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND MAY NOT BE SCALED TO ACTUAL DIMENSIONS OR EXACT LOCATIONS ON THE DRAWINGS. THE CONTRACTOR SHALL REFER TO DETAIL DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS, AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE

2. CONTRACTOR SHALL NOT RELY SOLELY ON ELECTRONIC VERSIONS OF DRAWINGS, SPECIFICATIONS, AND DATA FILES OBTAINED

THE CONTRACTOR SHALL VERIFY THE PROPOSED LAYOUT WITH ITS RELATIONSHIP TO THE DEPICTED EXISTING SITE CONDITIONS AND VERIFY ALL DIMENSIONS, SITE CONDITIONS, AND MATERIAL SPECIFICATIONS. NOTIFY THE ENGINEER OF ANY

4. DIMENSIONS ARE FROM THE FACE OF CURB, FACE OF WALL, AND CENTER LINE OF PAVEMENT MARKINGS, UNLESS OTHERWISE

1. ALL CONSTRUCTION SHALL COMPLY WITH APPLICABLE LOCAL AND FEDERAL NOISE REGULATIONS.

2. EXCAVATION AND SUBGRADE PREPARATION SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT DATED JULY 18, 2024, PREPARED BY S.W. COLE ENGINEERING, INC.

THE CONTRACTOR SHALL SUBMIT A WATER CONTROL MANAGEMENT DEWATERING PLAN INCLUDING EXCAVATION DEWATERING AND BOBBIN MILL BROOK BYPASS FOR REVIEW BY THE OWNER AND ENGINEER TWO WEEKS PRIOR TO INITIATION OF CONSTRUCTION ACTIVITIES. THE PLAN SHALL INCLUDE A DESCRIPTION OF PROPOSED PROCEDURES FOR DEWATERING AND

PROVIDE AND MAINTAIN EROSION CONTROL MEASURES AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE OWNER OR ENGINEER IN ACCORDANCE WITH THE MAINE DEP EROSION AND SEDIMENT CONTROL PRACTICES FIELD GUIDE FOR

2. BEST MANAGEMENT PRACTICES (BMPS) SHALL BE INSTALLED AS DEPICTED ON THE DRAWINGS HEREIN AND IN ACCORDANCE WITH THE CURRENT MAINE DEP EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES GUIDANCE; THE MAINE EROSION AND SEDIMENT CONTROL PRACTICES FIELD GUIDE FOR CONTRACTORS; AND ALL APPLICABLE FEDERAL, STATE, AND

3. THE CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES TO PREVENT THE SILTING AND MUDDYING OF STREAMS,

4. THE CONTRACTOR SHALL ESTABLISH SOIL AND EROSION CONTROL MEASURES AT LEAST 48 HOURS BEFORE SITE CLEARING AND SOIL DISTURBANCE. THE EROSION CONTROLS SHALL BE DOWNHILL OF DISTURBED AREAS IN ACCORDANCE WITH THE PLANS

DRAWINGS HEREIN AND IN ACCORDANCE WITH THE MAINE DEP EROSION AND SEDIMENT CONTROL PRACTICES FIELD GUIDE

6. IF THE SLOPE STABILIZATION BMPS FAIL AND EROSION OCCURS, THEN ALTERNATIVE CONTROL MEASURES MAY BE USED UPON APPROVAL OF THE OWNER, WHICH MAY INCLUDE COMPOST FILTER SOCKS, FIBER ROLLS, GRAVEL BAG BERMS, EROSION

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING ALL EROSION CONTROL MEASURES NECESSARY TO PREVENT OFF-SITE TRACKING OF EARTH, SEDIMENT, AND DEBRIS. DUST SHALL BE CONTROLLED AS NECESSARY.

8. EROSION CONTROL MEASURES SHALL BE INSPECTED AT A MINIMUM FREQUENCY OF ONCE EVERY WEEK, AND DURING AND AFTER EVERY RAIN EVENT GREATER THAN 0.5". ANY NECESSARY REPLACEMENT, REPAIR, OR SEDIMENT REMOVAL SHALL BE

9. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING STORMWATER FLOWING ONTO AND THROUGHOUT THE PROJECT AREA

10. DISTURBED AREAS THAT WILL NOT HAVE ACTIVE CONSTRUCTION ACTIVITY OCCURRING WITHIN FOURTEEN (14) DAYS MUST BE STABILIZED USING THE BMPS DEPICTED ON THE DRAWINGS AND IN ACCORDANCE WITH THE CURRENT MAINE FROSION AND SEDIMENT CONTROL PRACTICES FIELD GUIDE FOR CONTRACTORS AND ALL APPLICABLE FEDERAL. STATE, AND LOCAL CODES.

11. THE CONTRACTOR SHALL STABILIZE THE DISTURBED SOILS THROUGH SEEDING, HYDROSEEDING, MULCHING, AND DUST CONTROL THROUGH THE USE OF WATER. FOR TURFS AND GRASSES, STABILIZE FINAL GRADED AREAS WITHIN SEVEN DAYS OF GRADE PREPARATION BY PREPARING TOPSOIL AND THEN APPLYING SEED AND MULCH. FOR DUST CONTROL, STABILIZE EXPOSED

12. AFTER SEPTEMBER 15, OR IF CONSTRUCTION ACTIVITIES ARE TO BE SUSPENDED FOR MORE THAN 30 DAYS, ADDITIONAL STABILIZATION MEASURES MUST BE INSTALLED WHICH INCLUDES SEEDING, MULCHING (INCLUDING SECURING OF MULCH), AND

a. PLANT SPECIES AND SEEDING RATES MUST TAKE INTO ACCOUNT SOIL, SLOPE, CLIMATE, DURATION, AND USE OF THE b. MULCH MUST BE PROVIDED AT RATES APPROPRIATE TO ENSURE A MINIMUM OF SOIL AND SEED LOSS UNTIL VEGETATIVE c. RESEEDING MUST BE DONE WITHIN A REASONABLE PERIOD OF TIME IF PERMANENT VEGETATION IS NOT ESTABLISHED.

LEGEND

PROPERTY LINE ABUTTER PROPERTY LINE EASEMENT CONTOURS STORMDRAIN SEWER WATER GAS PAVEMENT SAWCUT LIMIT OF WORK SEDIMENTATION BARRIER COFFER DAM TURBIDITY CURTAIN OVERHEAD ELECTRICAL GUARDRAIL EDGE OF PAVEMENT **BITUMINOUS CURB** TREELINE BORDERING VEGETATED WETLAND BANK/ORDINARY HIGH WATER MARK **BITUMINOUS PAVEMENT BITUMINOUS SIDEWALK** RIPRAP DRAIN MANHOLE CATCH BASIN GAS VALVE WATER VALVE SEWER MANHOLE MANHOLE/SEPTIC TANK SIGN SPOT GRADE BORING ELECTRIC METER

UTILITY POLE/ UTILITY POLE & GUY TREE IRON PIN FOUND SURVEY BENCH MARK SURVEY STATION/CONTROL POINT

WETLAND FLAG

ABBREVIATIONS

ACR

A.G.

ALT

AW&SD

BLDG

ΒM

BOW

CMP

COMM

COND.

DIA;Ø

DMH

EMBED.

EXIST, EX

EMH

EOR

FOUIP

FFE

CY

&	AND	FIN.	FINISH
ACR	ACCESSIBLE CURB RAMP	FIRM	FLOOD INSURAN
A.G.	ABOVE GROUND	FL.	FLOOR
ALT	ALTERNATE	FM	FORCE MAIN
APPROX;±	APPROXIMATELY	FT, '	FOOT/FEET
AW&SD	AUBURN WATER AND	FV	FUTURE VALUE
	SEWERAGE DISTRICT		
		GALV.	GALVANIZED
В	BORING	GRAN.	GRANITE
BIT.	BITUMINOUS	GTD	GRADE TO DRAIN
BLDG	BUILDING		
BM	BENCHMARK	HDPE	HIGH DENSITY PC
BOW	BOTTOM OF WALL	H, HORIZ	HORIZONTAL
		HP	HIGH POINT
Ę	CENTERLINE	HWY	HIGHWAY
СВ	CATCH BASIN (DRAINAGE)	HYD	HYDRANT
CMP	CORRUGATED METAL PIPE		
C.O.	CLEANOUT	IN, "	INCH
СОММ	COMMUNICATION	INV.	INVERT
CONC	CONCRETE		
COND.	CONDUIT	LF	LINEAR FEET
CY	CUBIC YARD	LP	LIGHT POST
		L.P.	LOW POINT
DI	DUCTILE IRON	LW, LOW	LIMIT OF WORK
DIA;Ø	DIAMETER		
DMH	DRAIN MANHOLE	MAX.	MAXIMUM
DS	DOWN-SPOUT	ME	MAINE
		M.E.G.	MATCH EXISTING
E	UNDERGROUND ELECTRICAL	MH	MANHOLE
EA	EACH	MIN.	MINIMUM
EG	EXISTING GROUND	MON	MONUMENT
EL., ELEV.	ELEVATION		
EMBED.	EMBEDMENT	N/F	NOW OR FORMER
EMH	ELECTRICAL MANHOLE	N.I.C.	NOT IN CONTRAC
EOR	ENGINEER OF RECORD	NO.	NUMBER
EXIST, EX. (E)	EXISTING	NR	NO REFUSAL
EQUIP	EQUIPMENT	N.T.G.	NOT TO SCALE
		0.6	

O.D.

OE

FINISHED FLOOR ELEVATION FINISH FLOOR FINISH GRADE

ORMERLY NTRACT

ON CENTER OUTSIDE DIAMETER OVERHEAD ELECTRIC

EXISTING PROPOSED _____ _ _ _ _____ Noodare _ __ __ __ __ __ __ — — 184 — — — — 184 — 12 Mountfort Street Portland, Maine 04101 800.426.4262 | www.woodardcurran.com _____ W _____ THIS DOCUMENT IS THE PROPERTY OF WOODARD & CURRAN AND ITS CLIENT. _____ REPRODUCTION OR MODIFICATION WITHOUT WRITTEN PERMISSION IS PROHIBITED. —LW— _____OE _____ _____ . . . ____ . . ____ . . ____ ____ . ___ . ___ . ___ . ___ \bigcirc CAITLIN G. ____ SUHR XXX.XX XXX.XX No. 17568 0 0-**ISSUED FOR BID** 😾 S1-15 **CITY OF AUBURN** AUBURN, MAINE STETSON ROAD CULVERT REPLACEMENT OVERHEAD OH URANCE RATE MAP PLUS OR MINUS PROFESSIONAL ENGINEER PROPERTY (PARCEL/LOT) LINE PROFESSIONAL LAND SURVEYOR PLS PROP., (P) PROPOSED POLYVINYL CHLORIDE PVC RADIUS RCP **REINFORCED CONCRETE PIPE** SITY POLYETHYLENE REINF. REINFORCEMENT REQ'D REQUIRED RFT RETAINING R.O.W.;R/W RIGHT-OF-WAY RTE ROUTE SLOPE SANITARY SEWER S;SS SCHED SCHEDULE SD STORM DRAIN EV MM/DD/YY DESCRIPTION SDR STANDARD DIMENSION RATIO SMH SEWER MANHOLE OB NO: 0233981.25 SPEC'S SPECIFICATIONS APRIL 2025 PROP. STATION SCALE. NONF TBM **TEMPORARY BENCHMARK** DESIGNED BY: KLR/HKS ISTING GRADE ТМН **TELEPHONE/COMM MANHOLE** DRAWN BY: JBC TOW TOP OF WALL HECKED BY: CGS TYP. TYPICAL II ENIAME. 0233981.25-C-0-001.dwa UC UNDERGROUND CABLE UNDERDRAIN UD DRAWING TITLE U.N.O. UNLESS NOTED OTHERWISE CIVIL UTILITY POLE UP **GENERAL NOTES, LEGEND,** VIF VERIFY IN FIELD AND ABBREVIATIONS V, VERT VERTICAL WATER WITH W/ WV WATER VALVE RAWING NO: **C-0-001**



dcurran.net\shared\Projects\0233981.25 Auburn ME Stetson Rd Culvert Replacement\wip\Drawings\Civil\0233981.25-C-0-101.dwg, Apr 16, 2025 - 4:00

PLAN GENERAL NOTES

- 1. NO CUTTING OF TREES WITH GREATER THAN 3" DIAMETER AT BREAST HEIGHT (DBH) SHALL BE PERMITTED IN JUNE OR JULY.
- 2. EXISTING SITE FEATURES AND UTILITIES SHOWN IN BLACK ON THIS PLAN TO BE DEMOLISHED UNLESS NOTED OTHERWISE.

DEWATERING NOTES

~F**--** __ __

 THE CONTRACTOR SHALL SUBMIT A WATER CONTROL MANAGEMENT PLAN FOR THE PROJECT IN ACCORDANCE WITH THE SPECIFICATIONS. THE PLAN SHALL INCLUDE A DESCRIPTION OF PROPOSED PROCEDURES FOR DEWATERING AND BYPASSING THE STREAM DURING CONSTRUCTION.

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RAWING NO:

C-0-101

20'	0	20'	40'
	BAR S 1" = CHECK GRAPHIC SC	Cale 20' Ale Before Using	



PLAN GENERAL NOTES

- 1. NO CUTTING OF TREES WITH GREATER THAN 3" DIAMETER AT BREAST HEIGHT (DBH) SHALL BE PERMITTED IN JUNE OR JULY.
- 2. CONTRACTOR SHALL REMOVE ANY WOOD AND ORGANICS ENCOUNTERED BENEATH THE PROPOSED CULVERT UNTIL NATIVE SOILS ARE ENCOUNTERED. OVER EXCAVATIONS SHALL BE BACKFILLED WITH COMPACTED 3/4" CRUSHED STONE WRAPPED IN MIRAFI 180N OR APPROVED EQUAL.
- 3. BEDROCK REMOVAL, IF REQUIRED, SHALL BE PERFORMED BY HYDRAULIC HOE-RAMMING IN LIEU OF BLASTING. CONTRACTOR SHALL COMPLETE A PRE-CONSTRUCTION SURVEY ON SURROUNDING STRUCTURES, WATER SUPPLY WELLS, AND INFRASTRUCTURE PRIOR TO COMMENCING BEDROCK REMOVAL ACTIVITIES.
- 4. VIBRATIONS FROM CONSTRUCTION SHALL BE CONTROLLED BELOW THRESHOLD LIMITS OF 0.5 IN/SEC FOR STRUCTURES, WATER SUPPLY WELLS, AND INFRASTRUCTURE WITHIN 500 FEET OF THE PROJECT SITE.
- 5. CONTRACTOR SHALL SUBMIT AN EXCAVATION PLAN TO THE ENGINEER PRIOR TO CONSTRUCTION.

DEWATERING NOTES

THE CONTRACTOR SHALL SUBMIT A WATER CONTROL MANAGEMENT PLAN FOR THE PROJECT IN ACCORDANCE WITH THE SPECIFICATIONS. THE PLAN SHALL INCLUDE A DESCRIPTION OF PROPOSED PROCEDURES FOR DEWATERING AND BYPASSING THE STREAM DURING CONSTRUCTION.

PLANTING NOTES

1. REPAIR AND STABILIZE DISTURBED WETLANDS. REVEGETATE USING WETLAND SEED MIX.

V OUT/SIZE (TO)	STA./OFFSET
0.69/15"HDPE (S)	0+85/13.0' R
1.01/15"HDPE (S)	0+84/13.0' L
.60/18"HDPE (SW)	1+29/30.1' R

		PIPE TABLE		
	PIPE NAME	SIZE	LENGTH	SLOPE
	CB-1 - OUTLET	15" HDPE	23'	0.1170
	CB-2 - CB-1	15" HDPE	22'	0.0100
	DMH-1 - OUTLET	18" HDPE	17'	0.0059
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SCA DESI	LE: GNED RV [.]	AS NOTED KLR/HKS	
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FILE	NAME:	0233981.25-C-0-102.dwg	
DRA	WING TITLE:		
	ST	ETSON ROAD	
	PROPOSED		
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C-0-102

22x34

20'	0	20'	40'
	BAR	SCALE	
	1" =	= 20'	
	CHECK GRAPHIC SC	CALE BEFORE US	SING



1. PER THE GEOTECHNICAL REPORT RECOMMENDATIONS, OVEREXCAVATE BELOW BOX CULVERT SUBGRADE AS REQUIRED TO REMOVE ALL EXISTING FILL, WOOD, ORGANICS, STRUCTURES, AND UTILITIES UNTIL UNDISTURBED, NON-ORGANIC, NATIVE SOILS ARE ENCOUNTERED. SEE GEOTECHNICAL REPORT RECOMMENDATIONS FOR LATERAL EXTENT OF REMOVAL. BACKFILL WITH COMPACTED CRUSHED STONE WRAPPED IN MIRAFI 180N OR APPROVED EQUAL.

PLANTING NOTES

1. REPAIR AND STABILIZE DISTURBED WETLANDS. REVEGETATE USING WETLAND SEED MIX.



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SCALE: AS NOTED		
DRAWN BY: JBC		
FILENAME: 0233981.25-C-0-103.dwg		
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BOBBIN MILL BROOK PROPOSED		
PLAN & PROFILE		
DRAWING NO:		

 $\frac{\text{BAR SCALE}}{1" = 20'}$

CHECK GRAPHIC SCALE BEFORE USING



EROSION AND SEDIMENTATION CONTROL NOTES

HTTP://MAINE.GOV/DEP/BLWQ/DOCSTAND/ESCBMPS/

Temporary Erosion Control Measures		
Measure	Dates For Use	Timing, Activity, and Location
Sedimentation Barrier	ALL	Before soil disturbance, install downhill of areas to be disturbed and around material stockpiles.
Up-slope Diversion	ALL	Before soil disturbance, install uphill of areas to be disturbed and material stockpiles.
Catch Basin Protection	ALL	Before soil or pavement disturbance, install ACF Environmental, Inc. High Flow Siltsack, Siltsaver Inlet Filter. or equal, installed per manufacturer's requirements.
Dust Control	ALL	During dry weather, apply water and calcium chloride to control dust.
Temporary Seeding	April 15 to Oct. 1	Soil stockpiles that are not covered and disturbed areas that will not be disturbed again within 14 days. If grass growth provides less than 95% soil coverage by Nov. 1, apply mulch and anchor with erosion control blanket.
Mulch	April 15 to Sept. 15	On all areas of exposed soil prior to rain events or every 7 days, apply 100-150 lbs (2.5 bales) per 1,000 sq ft. by mechanical blower.
Winter Mulch	Sept. 16 to Oct. 31	On all areas of exposed soil prior to precipitation or every 7 days, apply 150 to 170 lbs. mulch (4 bales) per 1,000 sq. ft. by mechanical blower. Erosion control blanket may be used as a substitute for winter mulch.
	Nov. 1 to April 14	On all areas of exposed soil, apply 150 to 170 lbs. mulch (4 bales) per 1,000 sq. ft. and anchor with netting <u>at the end of each working day.</u> Erosion control blanket may be used as a substitute for winter mulch.
Inspections	Until site is permanently stabilized	Inspect the erosion and sedimentation control measures daily, and maintain and repair as necessary.

Permanent Erosion Control:

Measure	Dates For Use	Timing, Activity, and Location
Pavement - Base Course - Final Course	When no frost is in ground	Install only in areas shown on the plan, shortly after pavement base is brought to final grade. Install near completion of project.
Permanent Seeding	April 15 to Sept. 15	On final grade areas, within 7 days of grade preparation, prepare topsoil, followed by seed and mulch application.
Dormant Seeding	Sept. 16 to April 15	On final grade areas, with prepared topsoil. Apply seed at double the specified rate on bare soil, and follow with an application of winter mulch.
Ground Cover, Trees, Shrubs	April 15 to Nov. 1	Install with final landscaping.
Permanent Mulch	ALL	Install with final landscaping.

following storm events. Minimum inspections shall be made as listed in the table below.

Inspected Item	Look For	
Mulched Surfaces	Thin mulch or inadequate application. Wind movement.	
Seeded Surfaces	Poor seed germination. Loss of mulch. Development of rivulets.	
Sediment Barrier	Sediment build-up to one half the height of the barrier. Undermining of the barrier. Supporting stakes loose, toppled, or unmarked. Breaks in barrier.	
Perimeter Diversion	Discharge is to stabilized area. Erosion or breaks in barrier. Supporting stakes loose, toppled or unmarked.	
Catch Basin Protection	Sediment build-up and structure blockages. Slow flow/Ponding water. Breaks in fabric or voids in barrier.	
Dewatering Filter	Breaks in fabric or supporting structure. Slow flow, indicating high sediment build-up.	
Construction Entrance	Sedimentation of roadways. Off-site dust complaints.	

1. THE PROJECT SHALL CONFORM WITH THE STANDARDS OF THE MAINE CONSTRUCTION GENERAL PERMIT.

2. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MAINE EROSION AND SEDIMENT CONTROL BMPS HANDBOOK PUBLISHED BY THE MAINE DEP UNLESS OTHERWISE NOTED IN THESE PLANS.

Regular inspections of all erosion and sedimentation controls shall be made at least weekly and prior to and

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DATE: SCALE:	APRIL 2025 AS NOTED	
DESIGNED DT. DRAWN BY:	JBC	
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STETSON ROAD CULVERT PLAN





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6. ALL JOINTS SHALL BE SECURELY SEATED TOGETHER TO ACHIEVE A SILT-TIGHT JOINT ALL AROUND. A SILT-TIGHT JOINT IS DEFINED AS A JOINT IN WHICH THE GASKET IS COMPRESSED TO A MINIMUM OF ONE HALF OF ITS UNCOMPRESSED WIDTH. THE GASKET SHALL BE UNIFORMLY COMPRESSED ALONG ALL VERTICAL AND HORIZONTAL SURFACES. A POSITIVE MEANS, THROUGH THE USE OF SEATING DEVICES, SHALL BE USED FOR PULLING ONE SECTION AGAINST ANOTHER TO ASSURE AN ADEQUATE SILT-TIGHT JOINT. EACH JOINT BETWEEN TWO BOX CULVERT SECTIONS SHALL BE COVERED WITH A MINIMUM 12-INCH WIDE JOINT WRAP. THE WRAP SHALL MEET THE SPECIFICATIONS OF ASTM C-877. THE JOINT SHALL BE COVERED COMPLETE AROUND THE ENTIRE

- MANAGEMENT REQUIRED.

BOX CULVERT NOTES

- STRUCTURE.

1. THE PRE-CAST CONCRETE BOX CULVERT SHALL BE DESIGNED AND MANUFACTURED BY AN EXPERIENCED CONCRETE BOX CULVERT MANUFACTURER AS SPECIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE MANUFACTURER WITH REGARD TO ORDERING, MANUFACTURING, AND DELIVERING THE BOX CULVERT SECTIONS TO THE SITE. THE CONTRACTOR SHALL WORK WITH THE MANUFACTURER TO DEVELOP DETAILED SHOP DRAWINGS COMPLETE WITH DESIGN CALCULATIONS TO BE SUBMITTED FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO MANUFACTURE AND DELIVERY OF THE BOX CULVERT. THE DESIGN CRITERIA AND SUBMITTAL SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:

> DESIGNED TO MEET AASHTO HL-93 LOADS • 5,000 PSI, 28 DAY STRENGTH CONCRETE

GRADE 60 REBAR WITH 2" COVER ON ALL FACES

 DCI CORROSION INHIBITOR ADDITIVE SHALL BE USED IN MIX DESIGN • PROVISION FOR LIFTING AND PLACING SECTIONS INTO PLACE (I.E. LIFTING RINGS, LIFTING HOLES, ETC.)

2. MEMBRANE WATERPROOFING WITH A WATERPROOFING PROTECTIVE COURSE SHALL BE USED WHERE ROADWAY PAVEMENT IS DIRECTLY ON THE STRUCTURE. USE BITUMINOUS DAMP-PROOFING WHERE ROADWAY PAVEMENT IS NOT DIRECTLY ON THE STRUCTURE.

3. THE HORIZONTAL AND VERTICAL HAUNCH DIMENSIONS SHALL BE EQUAL TO THE SIDEWALL THICKNESS IN INCHES. IF HAUNCHES WITH OTHER DIMENSIONS ARE USED, A SPECIAL REINFORCEMENT DESIGN FOR THE ACTUAL DIMENSIONS SHALL BE COMPLETED.

4. THE CONTRACTOR SHALL VERIFY THE DIMENSIONS SHOWN ON THE DESIGN PLANS WITH THE FIELD CONDITIONS PRIOR TO ORDERING THE BOX CULVERT. ANY DISCREPANCIES SHALL BE REPORTED TO ENGINEER IMMEDIATELY.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING THE BOX CULVERT IN GENERAL CONFORMITY TO THE LINES AND GRADES SHOWN ON THE DESIGN PLANS AND IN STRICT ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER.

7. INSTALLATION OF NEW BOX CULVERT SHALL OCCUR DURING DRY WEATHER OR DRY EXCAVATION CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR ANY WATER DIVERSION AND

8. CONTRACTOR TO VERIFY STREAMBED ELEVATION PRIOR TO SETTING STRUCTURE.

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SHEET

THICKNESS

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