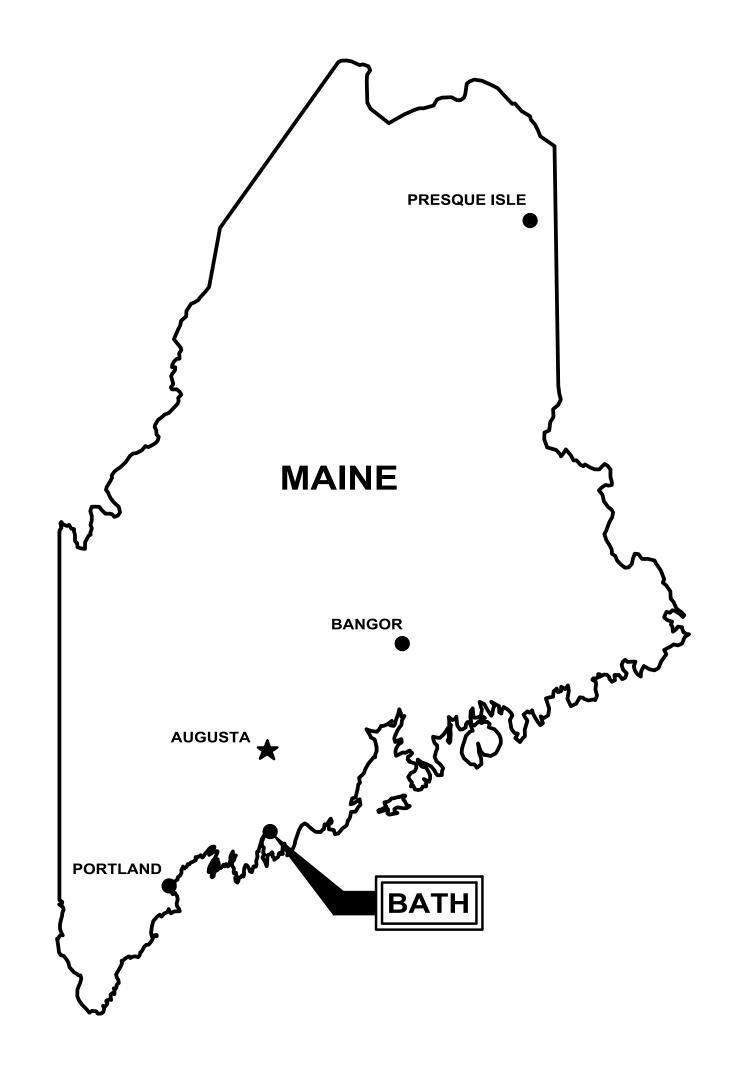
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CITY OF BATH

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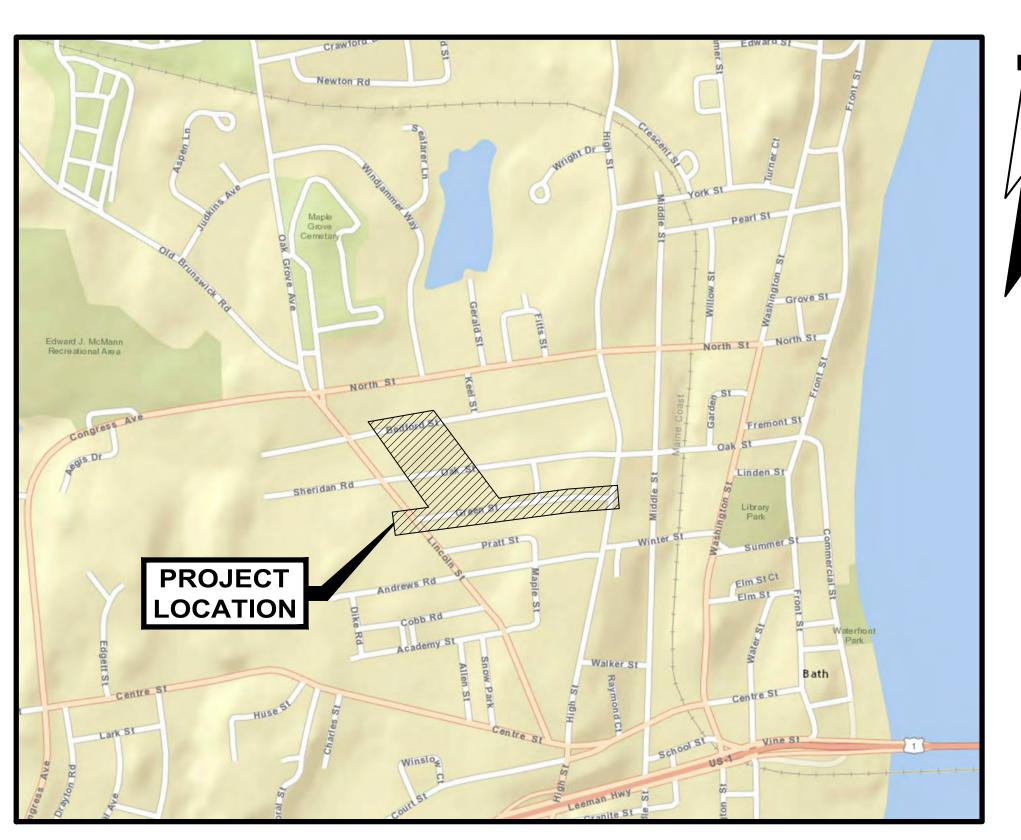
GREEN STREET REHABILITATION AND SEWER SEPARATION

BATH, MAINE JUNE 2022



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LOCATION PLAN
SCALE: NTS



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FOR REVIEW

FOR BIDDING

6-14-2022

WP PROJECT No. 14101

ELECTRIC: CENTRAL MAINE POWER CO. 280 BATH ROAD BATH, MAINE 04011

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CITY OF BATH PUBLIC WORKS MAINE NATURAL GAS 450 OAK GROVE ROAD P.O. BOX 99, 9 INDUSTRIAL PKWY BATH, ME 04530 BRUNSWICK, ME 04011 (207)443-8357 (207)729-0420 X100

- ALL EXISTING SEWER AND STORM DRAIN LINES ENCOUNTERED DURING CONSTRUCTION ARE TO REMAIN IN SERVICE, UNLESS OTHERWISE NOTED. ANY EXISTING SEWERS, STORM DRAIN LINES OR CULVERTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER, EXCEPT WHEN IN DIRECT CONFLICT WITH THE NEW SEWER OR WHEN NOT SHOWN OR INDICATED.
- 4. THE CONTRACTOR SHALL TAKE PRE-CONSTRUCTION PHOTOGRAPHS AND PROVIDE COPIES TO THE OWNER PRIOR TO CONSTRUCTION. THIS WORK SHALL INCLUDE ALL PRIVATE PROPERTY THAT MAY BE IMPACTED BY THE PROJECT.
- 5. THE CONTRACTOR SHALL FURNISH AND MAINTAIN A TELEPHONE NUMBER WHERE A RESPONSIBLE PARTY CAN BE REACHED 24 HOURS A DAY, 7 DAYS A WEEK, UNTIL THE PROJECT IS SUBSTANTIALLY COMPLETE.
- 6. ALL STRUCTURES AND PIPELINES LOCATED ADJACENT TO THE TRENCH EXCAVATION SHALL BE PROTECTED AND FIRMLY SUPPORTED BY THE CONTRACTOR UNTIL THE TRENCH IS BACKFILLED. INJURY TO ANY SUCH STRUCTURES CAUSED BY, OR RESULTING FROM, THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. ALL UTILITIES REQUIRING REPAIR. RELOCATION OR ADJUSTMENT AS A RESULT OF THE PROJECT SHALL BE COORDINATED THROUGH THE RESPECTIVE UTILITY.
- NEW DRAINAGE STRUCTURES AND EXISTING DRAINAGE STRUCTURES THAT ARE TO BE ALTERED OR REBUILT ARE TO BE CLEANED BY THE CONTRACTOR AND THE MATERIAL DISPOSED OF PER CITY ORDINANCE. THERE WILL BE NO PAYMENT FOR CLEANING NEW, ALTERED, ADJUSTED, OR REBUILT CATCH BASINS AND MANHOLES.
- 8. IN THOSE INSTANCES WHERE POWER OR TELEPHONE POLE SUPPORT IS REQUIRED, THE CONTRACTOR SHALL PROVIDE A MINIMUM 48-HOUR NOTIFICATION TO CMP OR
- 9. THE CONTRACTOR SHALL INSTALL AND MAINTAIN TRAFFIC CONTROL SIGNS IN ACCORDANCE WITH MAINEDOT REQUIREMENTS. THE CONTRACTOR SHALL RESET OR REPLACE EXISTING STREET & TRAFFIC SIGNS DISTURBED BY THE CONTRACTOR'S OPERATIONS IN ACCORDANCE WITH THE M.U.T.C.D. THE CONTRACTOR SHALL COORDINATE THE WORK WITH THE CITY OF BATH'S PUBLIC WORKS DEPARTMENT. REGULATORY SIGNS SHALL BE TEMPORARILY MOUNTED CLOSELY TO THEIR ORIGINAL LOCATION UNTIL SUCH TIME AS THEY CAN BE PERMANENTLY REMOUNTED.
- 10. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRAFFIC FLOW AT ALL TIMES. THE CONTRACTOR IS REQUIRED TO SUBMIT A TRAFFIC CONTROL PLAN TO THE OWNER PRIOR TO COMMENCING CONSTRUCTION. BATH POLICE AND FIRE DEPARTMENT ARE TO BE NOTIFIED AT LEAST 24 HOURS IN ADVANCE OF ANY STREET CLOSING OR DETOUR. REFER TO SPEC. SECTION 01570.
- 11. THE OWNER WILL BE RESPONSIBLE FOR OBTAINING THE PERMITS LISTED IN THE SUPPLEMENTARY OR SPECIAL CONDITIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH THE APPLICABLE PROVISIONS OF EACH PERMIT AS THEY APPLY TO THE WORK PRIOR TO BIDDING AND ABIDE BY THOSE PROVISIONS DURING CONSTRUCTION. COPIES OF ALL OBTAINED PERMITS ARE AVAILABLE FOR REVIEW FROM THE CITY OF BATH. ALL OTHER PERMITS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- 12. THE OWNER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RIGHTS OF WAY AND EASEMENTS. THE CONTRACTOR SHALL VERIFY THAT THE NECESSARY EASEMENTS HAVE BEEN SECURED BY THE OWNER. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH THE APPLICABLE PROVISIONS OF EACH EASEMENT AS THEY APPLY TO THE WORK PRIOR TO BIDDING AND ABIDE BY THOSE PROVISIONS DURING CONSTRUCTION. COPIES OF ALL RIGHTS-OF-WAY AND EASEMENTS ARE AVAILABLE FOR REVIEW FROM THE CITY OF BATH.
- 13. TEST PITS ARE REQUIRED WHERE SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER. ALL TEST PITS SHALL BE EXCAVATED PRIOR TO CONSTRUCTION LAYOUT AND PRIOR TO CONNECTING PROPOSED SEWERS TO EXISTING SEWERS. CONTRACTOR IS RESPONSIBLE FOR RECORDING INFORMATION OBTAINED FROM TEST PITS AND RELAYING THAT INFORMATION TO THE ENGINEER. ADJUSTMENTS TO INVERTS, LENGTHS, AND SLOPES OF PROPOSED SEWER MAY BE REQUIRED AS DIRECTED BY THE ENGINEER. TEST PITS ARE NOT TO BE BACKFILLED WITHOUT THE ENGINEER'S APPROVAL.
- 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT OF ALL PROPOSED LINES AND STRUCTURES AS SHOWN ON THE DRAWINGS. THE LAYOUT PLAN SHALL BE REVIEWED BY THE ENGINEER PRIOR TO CONSTRUCTION. THE HORIZONTAL ALIGNMENT OF THE NEW SEWERS AND WATER MAINS MAY BE ADJUSTED IN THE FIELD SUBJECT TO PRIOR APPROVAL BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL ELEVATION REFERENCE INFORMATION PRIOR TO USE IN CONSTRUCTION.
- 15. CONTRACTOR SHALL MINIMIZE CLEARING OPERATIONS. CLEARING AND GRUBBING SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 02110. CLEARING LIMITS SHALL BE AS INDICATED ON THE DRAWINGS, BUT AT ALL TIMES WITHIN EXISTING ROAD RIGHTS-OF-WAY AND PROPERTY LINES ON STATE OR CITY-OWNED PROPERTY OR EASEMENTS. ALL UNUSABLE GRUBBINGS AND EXCESS EXCAVATED MATERIAL ARE THE PROPERTY OF THE CONTRACTOR AND WILL BE DISPOSED OF AT A SITE PROVIDED BY THE CONTRACTOR IN COMPLIANCE WITH ALL STATE AND LOCAL LAWS. CONTRACTOR SHALL REMOVE AND RETURN TO THE CITY USEABLE EXCESS EXCAVATED MATERIAL THAT IS NOT REUSED WITHIN THE PROJECT AND SHALL COORDINATE THE LOCATION FOR EXCESS MATERIAL WITH THE OWNER.
- 16. THE CONTRACTOR SHALL RETURN EXCESS MILLINGS AND RECLAIMED MATERIAL THAT IS NOT REUSED IN THE PROJECT TO THE OWNER AND COORDINATE THE LOCATION FOR EXCESS MATERIAL WITH THE OWNER.
- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREVENTION OF EROSION. ALL DISTURBED EARTH SURFACES ARE TO BE STABILIZED IN THE SHORTEST PRACTICAL TIME AND TEMPORARY EROSION CONTROL DEVICES SHALL BE EMPLOYED UNTIL SUCH TIME AS ADEQUATE SOIL STABILIZATION HAS BEEN ACHIEVED. TEMPORARY STORAGE OF EXCAVATED MATERIAL IS TO BE IN A MANNER THAT WILL MINIMIZE EROSION. THE CONTRACTOR SHALL DISPOSE OF UNSUITABLE EXCAVATED MATERIAL AT A SITE PROVIDED BY HIM WHICH IS IN COMPLIANCE WITH ALL STATE AND LOCAL LAWS. MATERIALS AND METHODS USED FOR TEMPORARY EROSION CONTROL SHALL BE AS SPECIFIED BY THE "MAINE EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES" PREPARED BY THE MAINE SOIL AND WATER CONSERVATION COMMISSION. REFER TO SPECIFICATION SECTION 02270.
- 18. COMPACTION TESTS SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATION SECTION 02200. ANY SETTLEMENT OCCURRING WITHIN ONE YEAR OF SUBSTANTIAL COMPLETION OF THE PROJECT WILL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
- 19. OPEN TRENCHES IN THE ROADWAY MUST BE BACKFILLED AT THE END OF THE WORKDAY.
- 20. CONTRACTOR SHALL CONTROL DUST TO A TOLERABLE LIMIT AS OUTLINED IN SPECIFICATION SECTION 01562. CONTRACTOR SHALL NOT TRACK OR SPILL EARTH AND DEBRIS ON PUBLIC STREETS OUTSIDE THE PROJECT AREA. STREETS OPENED TO THE PUBLIC SHALL BE KEPT SWEPT AND FREE OF DEBRIS.
- 21. ALL CATCH BASINS ARE 4 FOOT DIAMETER, EXCENTRIC CONE TOP, WITH CASCADE GRATE AND FRAME, UNLESS OTHERWISE NOTED. THE INVERTS SHOWN ARE AT THE INSIDE FACE OF THE CATCH BASINS.
- 22. THE CONTRACTOR SHALL INSULATE OVER ANY GRAVITY SEWER OR WATER MAIN PIPE WHEN COVER IS LESS THAN 5 FT, OR THERE IS LESS THAN 2 FT BETWEEN THE SEWER OR
- 23. THE CONTRACTOR SHALL INSULATE STORM DRAIN LINES WITH LESS THAN 3 FT. OF COVER WITH 2" STYROFOAM INSULATION.
- 24. ALL ROAD AND PARKING AREA SURFACES SHALL PITCH 1/4 INCH PER FOOT MINIMUM UNLESS OTHERWISE NOTED. ALL AREAS THAT ARE EXCAVATED, FILLED OR OTHERWISE DISTURBED BY THE CONTRACTOR WHICH ARE NOT TO BE PAVED OR FINISHED WITH BARK MULCH, SHALL BE LOAMED, GRADED, LIMED, FERTILIZED, SEEDED AND MULCHED, UNLESS OTHERWISE NOTED. THE TOP 4 INCHES OF SOIL SHALL BE LOAM. THE CONTRACTOR SHALL WATER THE SEEDED AREA TO AID IN THE ESTABLISHMENT OF THE NEW
- 25. INITIAL PAVING SHALL BE CONDUCTED WITHIN TWO WEEKS OF COMPLETION OF PLACEMENT OF FINAL BACKFILL UNLESS OTHERWISE AUTHORIZED BY ENGINEER. INITIAL PAVEMENT SHALL BE INSTALLED AND MAINTAINED BY CONTRACTOR UNTIL FINAL PAVEMENT IS PLACED. FINAL PAVEMENT MAY BE PLACED OVER THE INITIAL PAVING PROVIDED INITIAL PAVING COURSE IS IN GOOD REPAIR. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND SHIMMING THE INITIAL PAVEMENT AS NECESSARY TO ACCEPT THE FINAL PAVING COURSE. IF CONDITIONS WARRANT, THE CONTRACTOR MAY BE REQUIRED TO REMOVE AND REPLACE INITIAL PAVING PRIOR TO FINAL PAVING.
- 26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESETTING ALL EXISTING PROPERTY MONUMENTATION THAT IS DISTURBED BY THE OPERATIONS AT NO EXPENSE TO THE OWNER. THIS WORK IS TO BE DONE BY A LAND SURVEYOR REGISTERED IN THE STATE OF MAINE.
- 27. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
- 28. SEE APPENDIX A OF THE SPECIFICATIONS FOR BORING LOGS AND LEDGE PROBES. THESE ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY.
- 29. THE CONTRACTOR SHALL NOT HAVE ANY RIGHT OF PROPERTY IN ANY MATERIALS TAKEN FROM ANY EXCAVATION. SALVAGE SUITABLE EXCAVATED MATERIAL, GRANITE COBBLES, HYDRANTS, CURBSTONES, SIGNS, SURPLUS GRATES, FRAMES AND COVERS TO THE BATH PUBLIC WORKS FACILITY, TRANSPORTATION OF SAID MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THESE PROVISIONS SHALL IN NO WAY RELIEVE THE CONTRACTOR OF HIS OBLIGATIONS TO PROPERLY DISPOSE OF AND REPLACE ANY MATERIAL DETERMINED BY THE ENGINEER TO BE UNSUITABLE FOR BACKFILLING. THE CONTRACTOR SHALL DISPOSE OF UNSUITABLE MATERIAL IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE CONTRACT DOCUMENTS. SUITABLE MATERIAL MAY BE INCORPORATED INTO THE PROJECT.
- 30. ALL STORM DRAINAGE INLETS SHALL BE PROTECTED BY HAY BALE FILTERS OR OTHER SEDIMENT REMOVAL METHODS APPROVED BY ENGINEER TO PREVENT ENTRY OF SEDIMENT FROM RUNOFF WATERS DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL COLLECTED SEDIMENT, AND THAT WHICH COLLECTS IN THE STORM DRAIN SYSTEM.
- 31. CONTRACTOR SHALL NOT TRACK OR SPILL EARTH, DEBRIS OR OTHER CONSTRUCTION MATERIAL ON PUBLIC OR PRIVATE STREETS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE ASSOCIATED CLEAN UP.
- 32. ALL CITY OF BATH UTILITIES SUCH AS CATCH BASINS, MANHOLES, VALVE PITS, AND OTHER BURIED FACILITIES WITH SURFACE ACCESS SHALL BE ADJUSTED TO MATCH FINAL GRADES, UNLESS OTHERWISE INDICATED.

GENERAL NOTES (CONT.)

DELIVERY WITH BATH WATER DISTRICT.

- 33. CONTRACTOR SHALL REMOVE AND REPLACE, OR REPAIR, ALL CURBS, SIDEWALKS, PAVEMENT AND OTHER ITEMS DAMAGED BY HIS CONSTRUCTION ACTIVITIES TO AT LEAST THEIR ORIGINAL CONDITION, TO THE SATISFACTION OF THE OWNER AND ENGINEER.
- 34. ALL EXISTING WATER SYSTEM VALVES SHALL ONLY BE OPERATED BY THE BATH WATER DISTRICT.
- 35. BATH WATER DISTRICT SHALL RELOCATE AND REPLACE CURB STOPS IN THE PROJECT AREA (AS DEEMED NECCESARY BY THE ENGINEER OR DISTRICT). CONTRACTOR SHALL IDENTIFY FINAL GRADE ELEVATIONS AND LIMITS OF SIDEWALKS AND CURBS ADJACENT TO THE RIGHT OF WAY TO ALLOW BATH WATER DISTRICT TO IDENTIFY CURB STOP RELOCATIONS. THE CONTRACTOR SHALL ALSO IDENTIFY LOCATIONS OF PLANTINGS TO AVOID CONFLICTS WITH CURB STOP/WATER SERVICE AND HYDRANT LOCATIONS
- 36. BATH WATER DISTRICT SHALL ADJUST EXISTING VALVE BOXES FOR MILLING AND PAVING OPERATIONS TO BE COMPLETED BY THE CONTRACTOR. CONTRACTOR TO PROVIDE ADEQUATE ADVANCE NOTICE/COORDINATION WITH BATH WATER DISTRICT.
- 37. ALL DEMOLISHED/REMOVED WATER INFRASTRUCTURE SHALL BE STORED ON SITE AND REMAIN PROPERTY OF THE BATH WATER DISTRICT. CONTRACTOR TO COORDINATE
- 38. ALL ROADWAY LIGHTING IS TO BE PROVIDED BY AND INSTALLED BY THE UTILITY (CMP). FIXTURE LOCATIONS SHOWN FOR THE CONTRACTOR'S INFORMATION ONLY.
- 39. CONSTRUCT TRANSITION RAMPS AT ENDS OF ALL SIDEWALKS, DRIVEWAYS AND ROADWAYS. DETECTABLE WARNING DEVICES SHALL BE INSTALLED ON ALL SIDEWALK TRANSITION RAMPS AT ROADWAY INTERSECTIONS AND AS OTHERWISE SHOWN ON THE PLANS. SIDEWALKS SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA).
- 40. THE CONTRACTOR IS TO TAKE SPECIAL CARE NOT TO DAMAGE TREES WITHIN THE CONSTRUCTION AREA UNLESS THEY ARE NOTED TO BE REMOVED. TREES TO BE REMOVED ARE TO HAVE THE STUMPS REMOVED AND THE RESULTING PIT SHALL BE LOAMED AND SEEDED.
- 41. LIMITS OF WORK IN EXISTING DRIVES ARE APPROXIMATE AS SHOWN ON THE PLANS. ACTUAL LIMITS OF WORK ARE TO BE DETERMINED BY THE CONTRACTOR BASED ON THESE DRAWINGS AND SLOPE AS APPROVED BY THE ENGINEER.
- 42. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THIER OWN LAYDOWN AREA.
- 43. WHERE APPROPRIATE, MINOR ADJUSTMENTS TO THE ALIGNMENT OF PROPOSED DRAINAGE SHALL BE MADE TO ACCOMMODATE EXISTING UTILITIES. COORDINATE ADJUSTMENTS WITH ENGINEER.
- 44. FENCES AND WALLS THAT ARE REMOVED FOR CONTRACTOR'S ACCESS ARE TO BE REINSTALLED THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT MOBILIZATION WORK ITEM.
- 45. PAVEMENT AREAS TO BE CUT, GROUND AND OVERLAID SHALL RECEIVE A TACK COAT IN ACCORDANCE WITH PROJECT SPECIFICATIONS PRIOR TO NEW PAVEMENT
- 46. THE CONTRACTOR SHALL RESTORE ALL PRIVATE PROPERTY DISTURBED DURING CONSTRUCTION TO ITS PRECONSTRUCTION CONDITION. THE CONTRACTOR SHALL TAKE PRECAUTIONS IN ORDER TO MINIMIZE DISTURBANCE TO PRIVATE PROPERTY. ALL REPAIRS TO PRIVATE PROPERTY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 47. THE CONTRACTOR SHALL PROVIDE NOTIFICATION TO BATH PUBLIC WORKS AT LEAST 3 DAYS PRIOR TO COMMENCING WORK
- 48. THE CONTRACTOR SHALL PRODUCE AND FURNISH PROJECT RECORDS AS REQUIRED BY THE CONTRACT DOCUMENTS, INCLUDING, BUT NOT LIMITED TO CONSTRUCTION SCHEDULES, BONDS, SHOP DRAWINGS, WARRANTIES, GUARANTEES, CERTIFICATIONS, AND OTHER SUBMITTALS.
- 49. SAWCUTTING IS INCIDENTAL TO COMMON EXCAVATION. THERE SHALL BE NO SEPARATE PAYMENT FOR SAWCUTTING.

SURVEY AND LAYOUT NOTES - GREEN STREET

- THE EXISTING SITE FEATURES SHOWN ARE BASED ON A FIELD SURVEY CONDUCTED BY TITCOMB ASSOCIATES IN AUGUST OF 2018.
- 2. BOOK AND PAGE REFERENCES ARE TO THE SAGADAHOC COUNTY REGISTRY OF DEEDS UNLESS OTHERWISE NOTED.
- 3. BEARINGS ARE REFERENCED TO GRID NORTH, MAINE STATE PLANE COORDINATE SYSTEM, NAD83, WEST ZONE.
- 4. ELEVATIONS ARE BASED ON GPS OBSERVATIONS, NAVD88 DATUM.
- 5. UTILITY INFORMATION ON THIS PLAN IS APPROXIMATE, BASED ON LOCATION OF VISIBLE FEATURES. DIGSAFE AND/OR THE APPROPRIATE UTILITIES SHOULD BE CONTACTED PRIOR TO ANY CONSTRUCTION.

PLAN REFERENCES

- BOUNDARY RETRACEMENT SURVEY FOR LEONARD P. & GRACE M. ROBERGE MADE BT ROBERT M. SPIVEY , PLS 1338 DATED DECEMBER 28, 2015 AS RECORDED IN PLAN **BOOK 2016P PAGE 4.**
- 2. STANDARD BOUNDARY SURVEY MADE FOR JAMES F. DAY AND LINDA S. DAY BY HARTY & HARTY PROFESSIONAL LAND SURVEYORS DATED JUNE 2, 2007 AS RECORDED IN
- 3. STANDARD BOUNDARY SURVEY MADE FOR JUDITH WOOD BY HARTY & HARTY PROFESSIONAL LAND SURVEYORS DATED APRIL 4, 2005 AS RECORDED IN PLAN BOOK 42,

SURVEY AND LAYOUT NOTES - CROSS COUNTRY

- 1. THE EXISTING SITE FEATURES SHOWN ARE BASED ON A FIELD SURVEY CONDUCTED BY TITCOMB ASSOCIATES IN MAY OF 2020.
- 2. BOOK AND PAGE REFERENCES ARE TO THE SAGADAHOC COUNTY REGISTRY OF DEEDS UNLESS OTHERWISE NOTED.
- BEARINGS ARE REFERENCED TO GRID NORTH, MAINE STATE PLANE COORDINATE SYSTEM, NAD83, WEST ZONE.
- 4. ELEVATIONS ARE BASED ON GPS OBSERVATIONS, NAVD88 DATUM. • TEMPORARY BENCHMARK-A, IS A MAG NAIL IN UTILTIY POLE #10, ELEV=56.61'
- TEMPORARY BENCHMARK-B, IS A "X" CUT IN A HYDRANT, ELEV=50.66'
- TEMPORARY BENCHMARK-C, IS A "X" CUT IN A HYDRANT, ELEV=42.67'
- 5. UTILITY INFORMATION ON THIS PLAN IS APPROXIMATE, BASED ON LOCATION OF VISIBLE FEATURES. DIGSAFE AND/OR THE APPROPRIATE UTILITIES SHOULD BE CONTACTED PRIOR TO ANY CONSTRUCTION.
- PROPERTY LIES WITHING ZONE X BASED ON FIRM COMMUNITY #230118 PANEL #23023C0212CF, DATED JULY 16, 2015. IT DOES NOT LIE WITHIN SPECIAL FLOOD HAZARD
- 7. GREEN STREET ROW IS 40' WIDE PER CITY OF BATH RECORDS BOOK A, PAGE 516.
- 8. OAK STREET IS 50' WIDE PER CITY OF BATH RECORDS BOOK B, PAGE 477.
- 9. BEDFORD STREET IS 50' WIDE PER CITY OF BATH ORAD RECORDS VOLUME 3, PAGE 472 AND VOLUME 4, PAGES 469-472.

- 1. TAX MAP 25, LOT 214 IS SUBJECT TO AN ACCESS AND UTILITY EASEMENT GRANTED BY EDGAR G. HANCOX AND BERNADINE M. HANCOX TO CENTRAL MAINE POWER COMPANY RECORDED IN BOOK 387, PAGE 1140.
- 2. TAX MAP 25, LOT 214 IS SUBJECT TO AN ACCESS AND UTILITY EASEMENT GRANTED BY MARY ANNE RICE TO CENTRAL MAINE POWER COMPANY RECORDED IN BOOK 3253, PAGE 275.
- 3. TAX MAP 25, LOT 227 IS SUBJECT TO A SEWER EASEMENT GRANTED BY NORMAN E. SEEKINS AND DOROTHY M. SEEKINS TO THE CITY OF BATH RECORDED IN BOOK 299,
- 4. TAX MAP 25, LOT 236 IS SUBJECT TO A SEWER EASEMENT GRANTED BY JAMES H. THOMAS TO THE CITY OF BATH RECORDED IN BOOK 169, PAGE 45.

1. BOUNDARY SURVEY FOR KATHERINE A. HIGGINS AND ELIZABETH E. AUSTIN, BY MORIN LAND SURVEYING, DATED AUGUST 16, 2006 AND RECORDED IN PLAN BOOK 43, PAGE

LOAMING AND SEEDING NOTES

- 1. ALL LAWN AREAS DISTURBED BY CONSTRUCTION OPERATIONS INSIDE AND OUTSIDE THE LIMIT OF WORK SHALL BE LOAMED AND SEEDED AS SPECIFIED.
- 2. ALL AREAS TO BE SEEDED SHALL RECEIVE SOIL PREPARATION AS SPECIFIED PRIOR TO SEEDING, UNLESS OTHERWISE NOTED ON PLAN
- 3. ALL AREAS TO BE SEEDED SHALL RECEIVE 4" TOPSOIL PRIOR TO SEEDING.
- 4. ALL AREAS TO BE SEEDED SHALL BE SEEDED WITH THE PARK MIXTURE.
- 5. CONTRACTOR TO PROVIDE ONE WATERING IF DEEMED NECESSARY BY OWNER AND ONE MOWING.

11/11	ABBREVIATIONS		LEGEND	
		EXISTING	LEGEND	PROPO
& Ø DIA	AND		PROPERTY/ROW LINE	
Ø, DIA	DIAMETER		•	
#, NO AC	NUMBER ASBESTOS CEMENT		SETBACK LINE	
APP'D	APPROVED		EASEMENT LINE	 ·
BR	BRICK		CENTERLINE	
BLDG	BUILDING		EDGE OF PAVEMENT	
СВ	CATCH BASIN		CURBING	
CEN	CENTER		EDGE OF GRAVEL	Na+3/Na+3/Na+3/Na+3
CFS	CUBIC FEET PER SECOND			. 4.
CI CIPP	CAST IRON CURED-IN-PLACE-PIPE		EDGE OF CONCRETE	
CL	CENTERLINE	— — 122 — —	CONTOUR	<u> 123</u>
CMP	CORRUGATED METAL PIPE	<u> </u>	BUILDING	
CO	CLEANOUT		STONEWALL	∞
CONC	CONCRETE	$\sim\sim\sim$	TREELINE	\sim
COR	CORNER		CHAIN LINK FENCE	
CY DEMO	CUBIC YARD DEMOLITION		STOCKADE FENCE	
DEIVIO	DRAIN MANHOLE			
DI	DUCTILE IRON		BARB WIRE FENCE	
DR	DRAIN	^	RETAINING WALL	
DWG	DRAWING	0 0	GUARDRAIL	0 0
EL	ELEVATION	s"s	SEWER	<u>8"S</u>
EMH	ELECTRIC MANHOLE	4"FM	SEWER FORCE MAIN	<u>4"FM</u>
FM FT	FORCE MAIN FEET	4"	GAS	4"G
G	GAS	8"		8"W
HDPE	HIGH DENSITY POLYETHYLENE	W		15"SD
HYD	HYDRANT	6"s		6"UD
IN	INCH	UD	UNDERDRAIN	
INF	INFLUENT	12" CMP	CULVERT	== 12" CM
INV	INVERT	UGE	UNDERGROUND ELECTRIC	UGE
LBS	POUNDS LINEAR FOOT	OHE	OVERHEAD ELECTRIC	———ОНЕ
LF MAX	MAXIMUM		UNDERGROUND TELEPHONE	
MH	MANHOLE			
MIN	MINIMUM		UNDERGROUND CABLE TV	CAT\
MW	MONITORING WELL		IRON PIPE/REBAR	•
N	NORTH		DRILLHOLE	•
NGVD	NATIONAL GEODETIC VERTICAL DATUM	∕I ⊡	MONUMENT	
N/A	NOT AVAILABLE/APPLICABLE	\triangle	SURVEY CONTROL POINT	
NTS OD	NOT TO SCALE OUTSIDE DIAMETER	124.6	SPOT ELEVATION	x 134
OUT	OUTFALL	^X SMH	SEWER MANHOLE	x ●SI
PC	PERFORATED CLAY	DMH		_
PSF	POUNDS PER SQUARE FOOT	CB CB CB	DRAINAGE MANHOLE	• D
PSI	POUNDS PER SQUARE INCH		CATCH BASIN	• СВ
PS	PRIMARY SLUDGE	TMH	ELECTRIC MANHOLE	
PT PVC	POINT OF TANGENCY POLYVINYL CHLORIDE	T	TELEPHONE MANHOLE	
RCP	REINFORCED CONCRETE PIPE	\bowtie	SHUTOFF VALVE	×
RD	ROOF DRAIN	\otimes	WATER SERVICE SHUTOFF	0
REQ'D	REQUIRED	Ø	YARD HYDRANT	Y
S	SLOPE, SEWER			
SD	STORM DRAIN	- 	HYDRANT	•
SF	SQUARE FEET	©	GAS SERVICE SHUTOFF	
SMH SQ	SANITARY SEWER MANHOLE SQUARE	G	GAS GATE VALVE	
STA	STATION	Ø	UTILITY POLE	ø
T, XFMI		0	UTILITY POLE W/ GUY	6
TBM	TEMPORARY BENCH MARK	~ ~	UTILITY POLE W/ LIGHT	
ТНК	THICKNESS	~ *		,-
TOS	TOP OF STRUCTURE		LIGHT POLE	*
TYP	TYPICAL	0	BOLLARD	•
UD UG	UNDERDRAIN UNDERGROUND	O~	FLAGPOLE	O-
UGE	UNDERGROUND ELECTRIC		CONIFEROUS TREE	
VC	VITRIFIED CLAY	\$ CV2	DECIDUOUS TREE	\$ * 5
VF	VERTICAL FOOT	\cdot	SHRUB	ν. ν.
W/	WITH	^	WETLAND FLAG	\mathbf{v}
W	POTABLE WATER		EDGE OF WATER	
		= : : == : : =		
			STREAM	
			EDGE OF WETLANDS	
		— — · —	FLOODPLAIN	
		علاد	WETLANDS	
		\Longrightarrow	DRAINAGE FLOW	=
			DRAINAGE SWALE	
		<u> </u>		_ :
		→ &	PAVEMENT MARKINGS	
		- o -	SIGN	
		\Box^{MB}	MAILBOX	
		lacktriangle	TEMPORARY BENCH MARK	
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		● MW	MONITORING WELL	
			LIMIT OF WORK	
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		++++++	RAILROAD	<u> </u>
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			HEAVY DUTY PAVEMENT	
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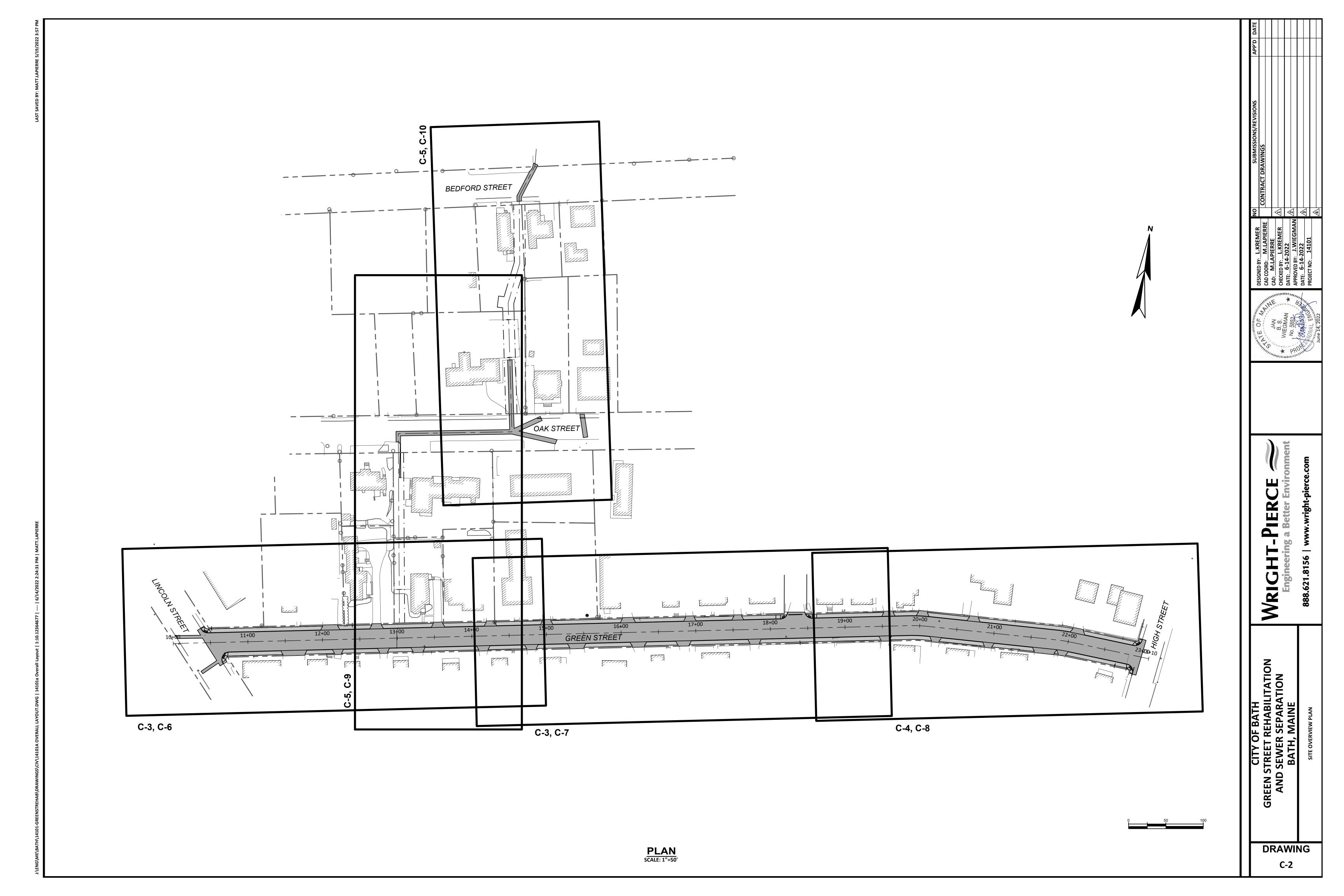
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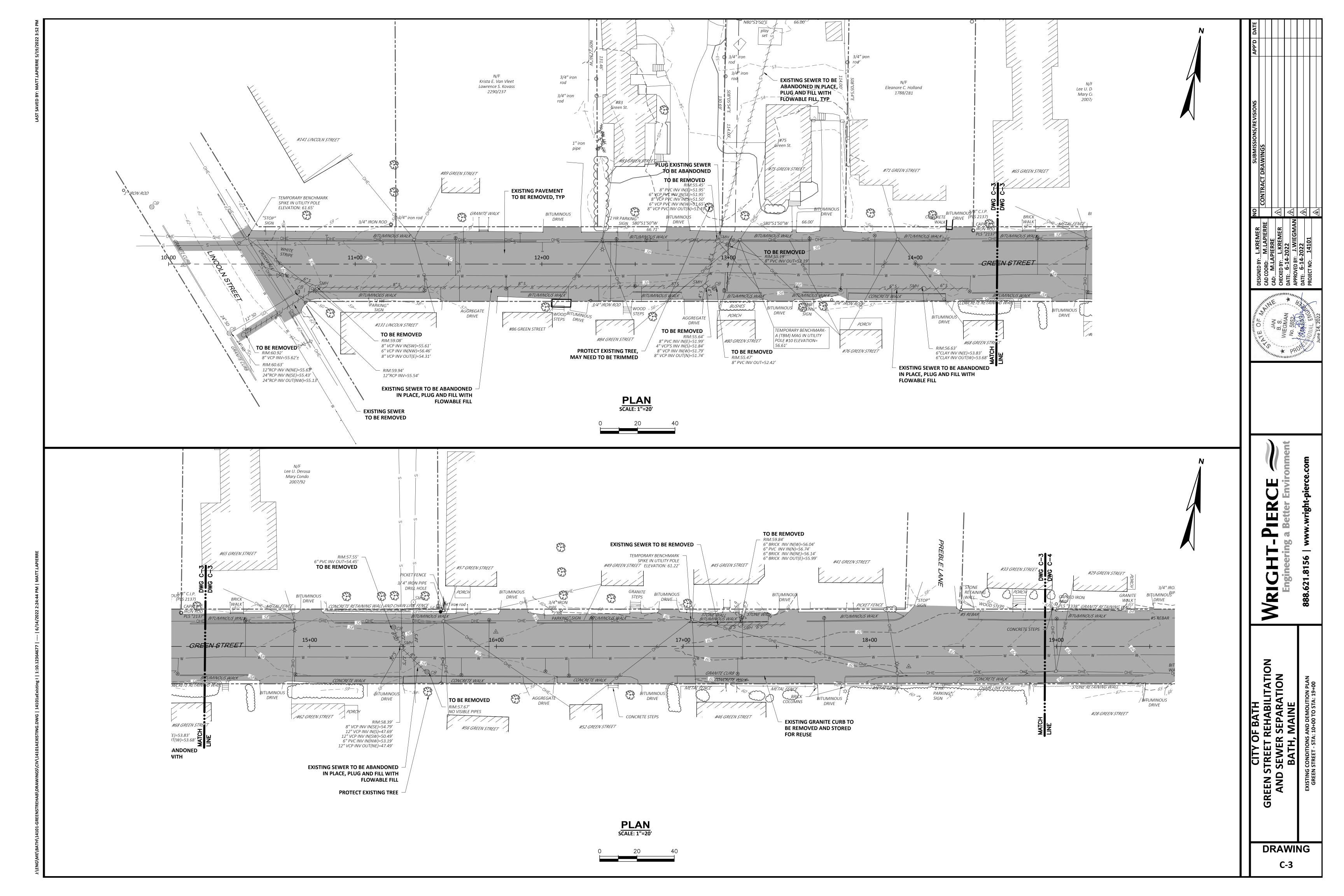
NORMAL DUTY PAVEMENT

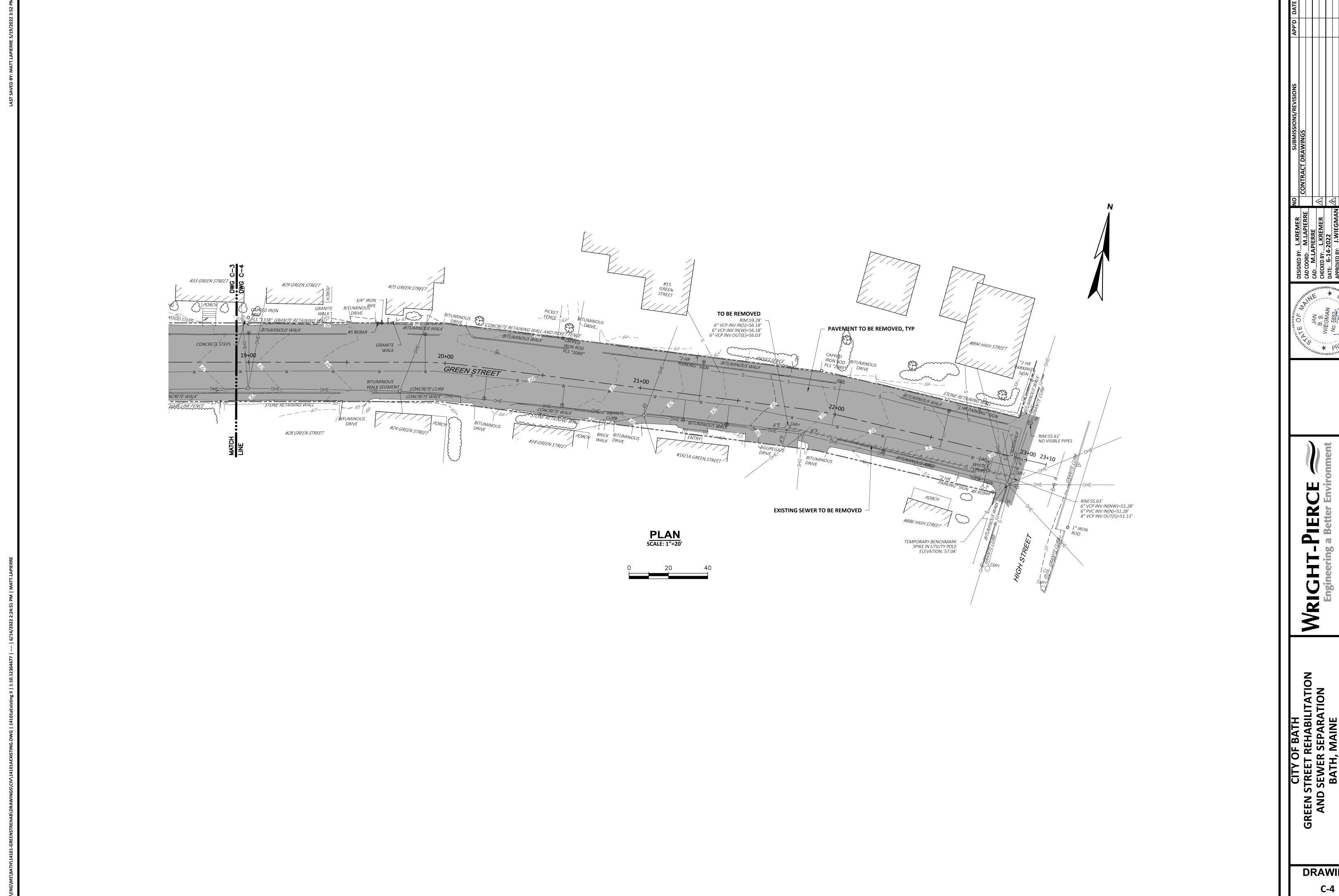
SIDEWALK PAVEMENT

DRAWING

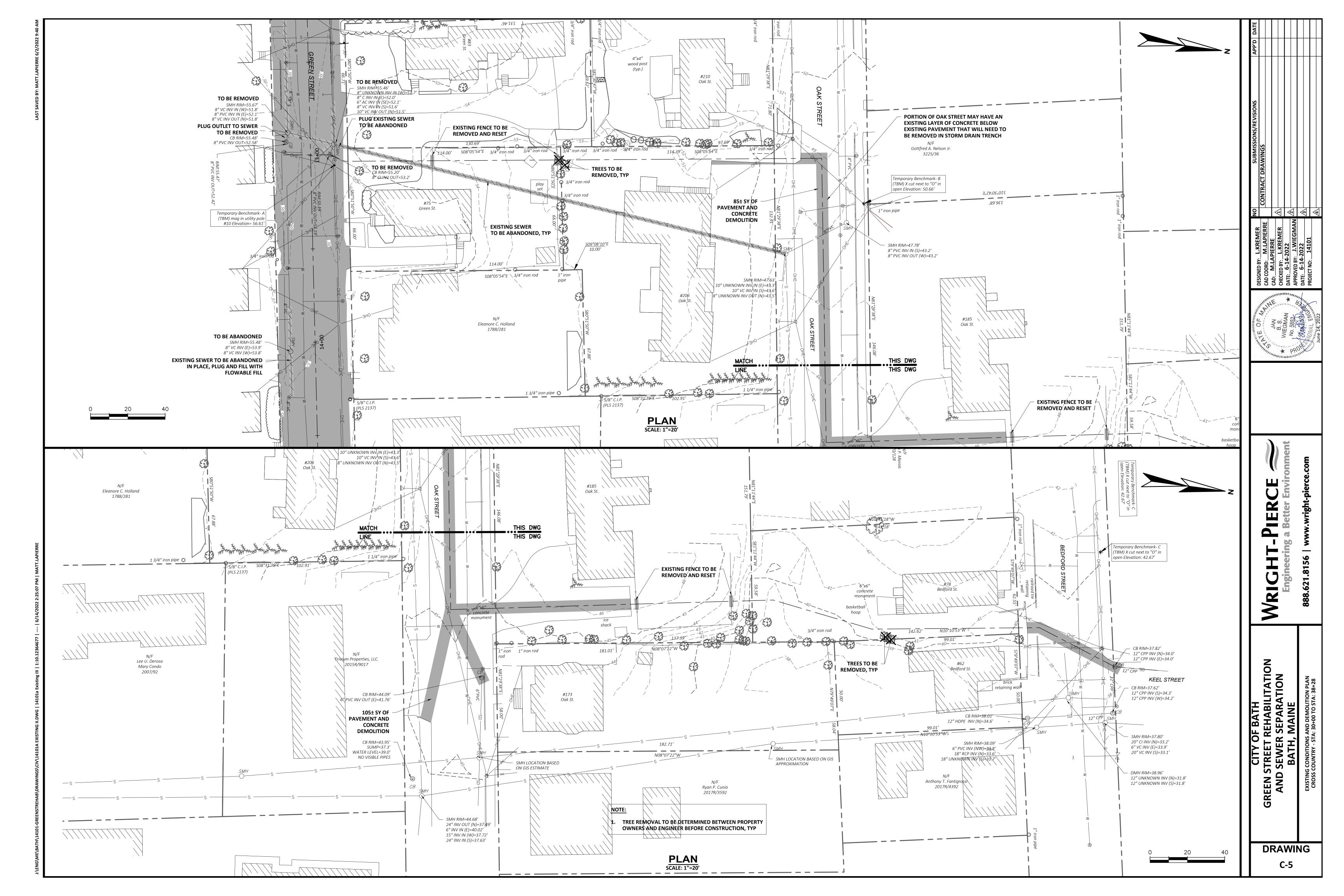
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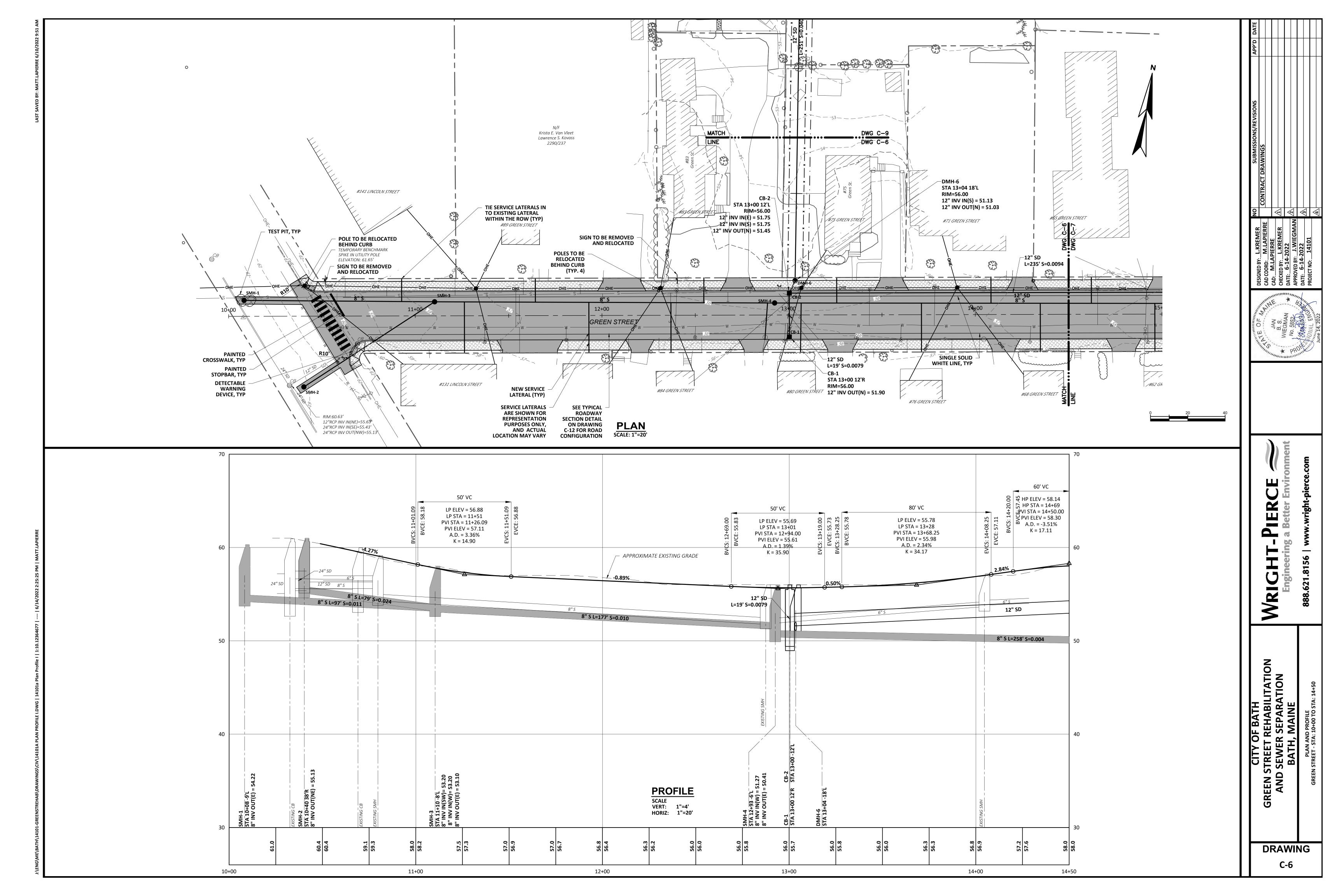


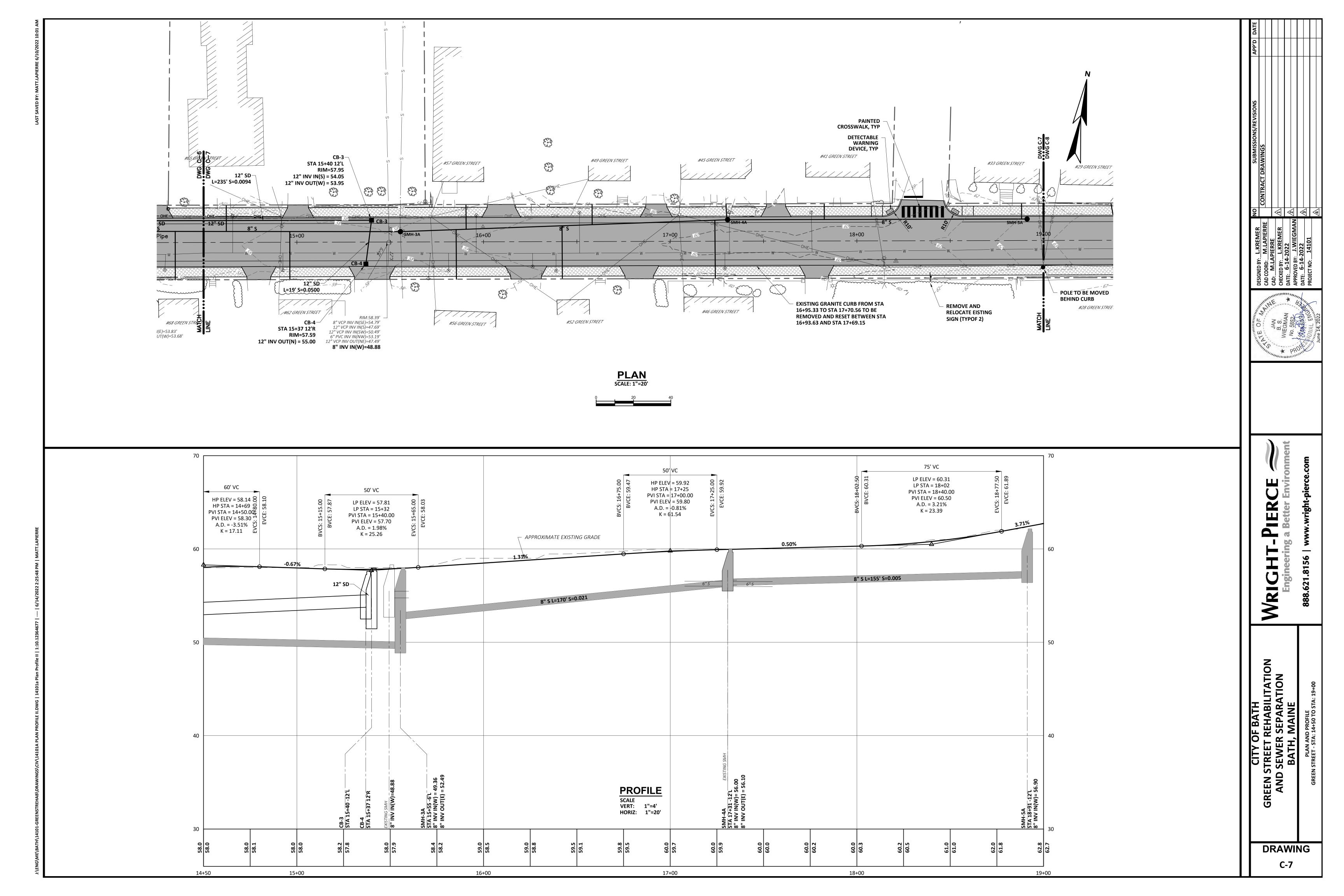


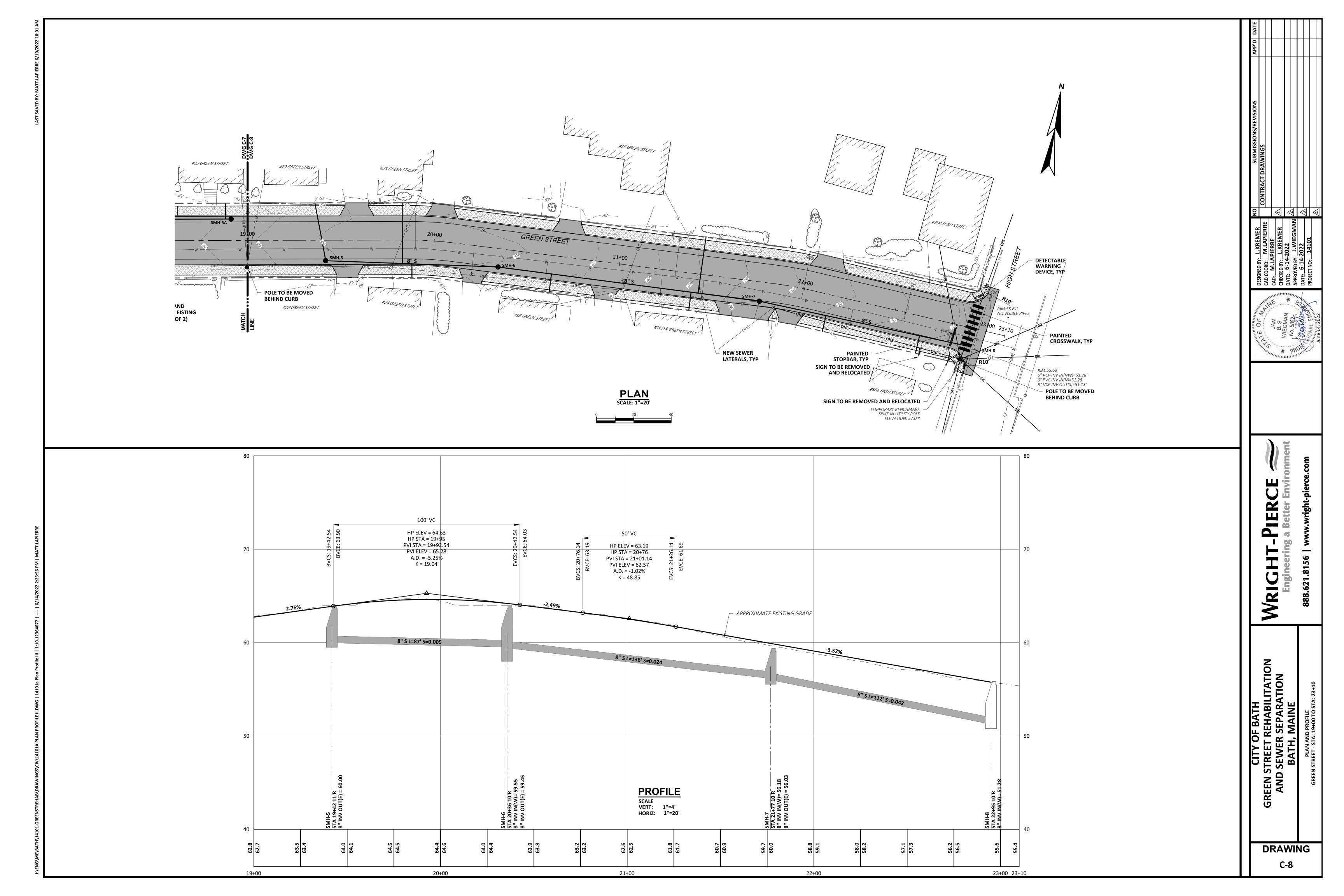


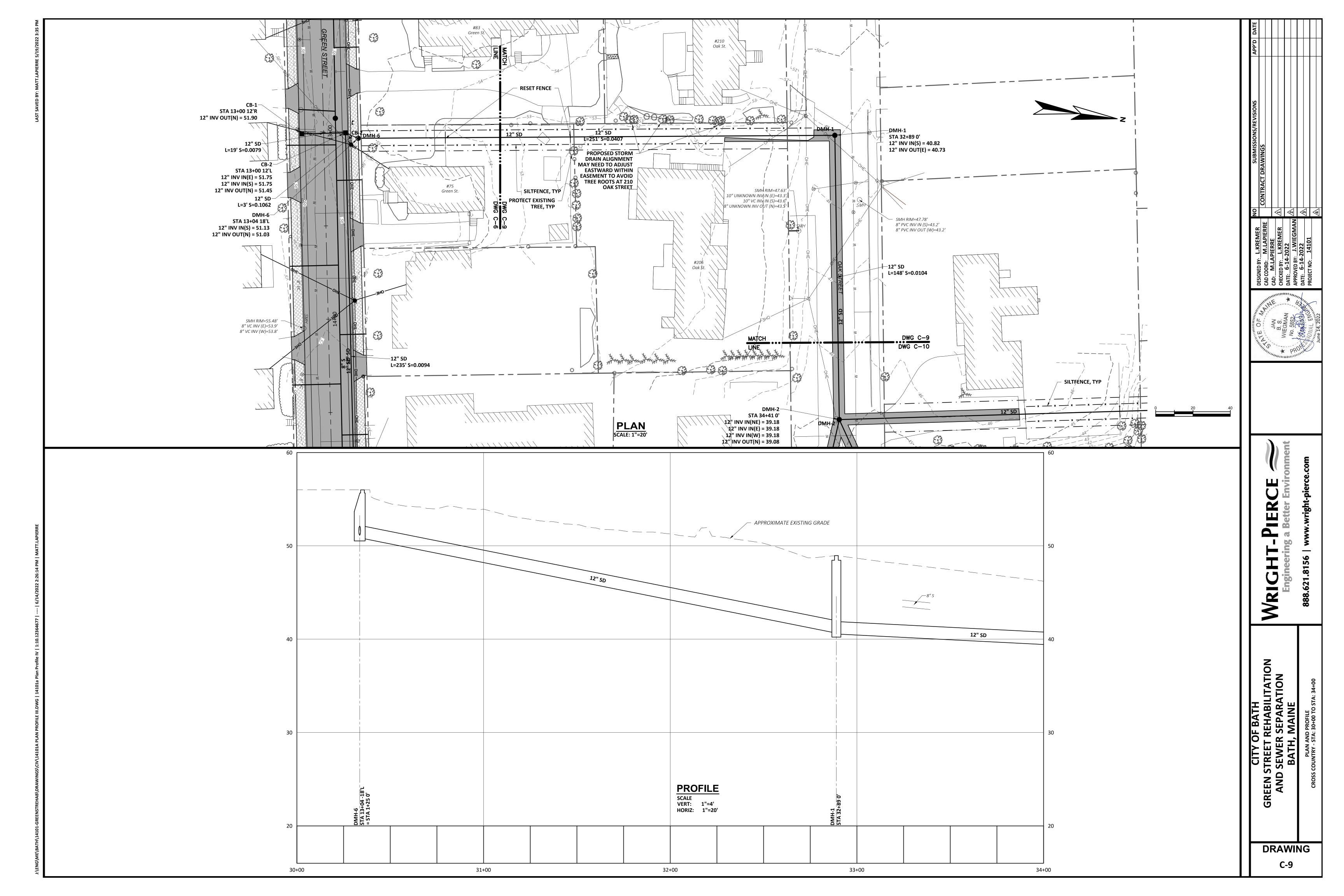
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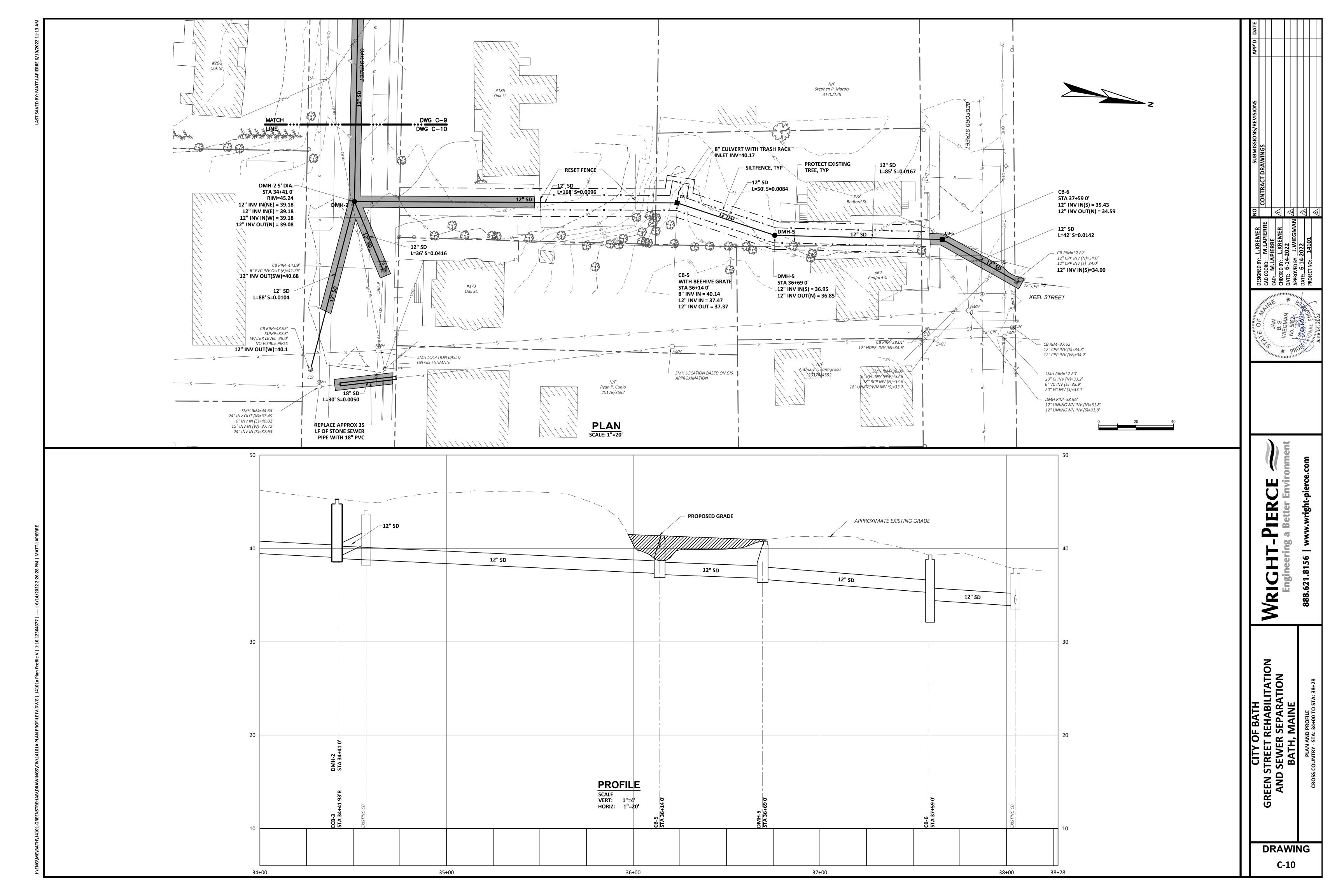












TO MATCH GRADE

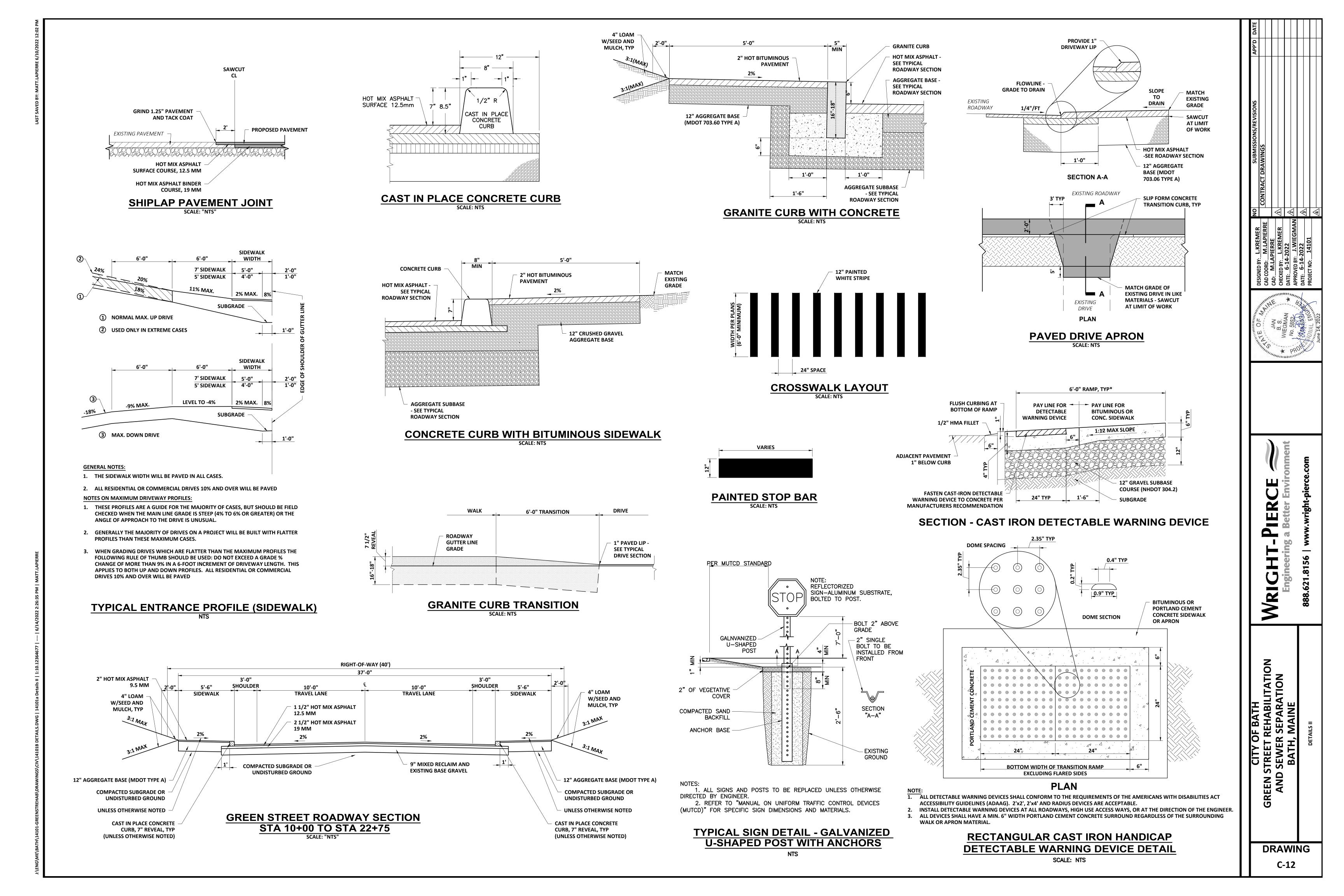
4-FT CATCH BASIN

TYPICAL 4-FT MANHOLE

BILITATICAR

DRAWING C-11

FLAT SLAB TOP MANHOLE



THIS PLAN HAS BEEN DEVELOPED AS A STRATEGY TO CONTROL SOIL EROSION AND SEDIMENTATION DURING AND AFTER CONSTRUCTION. THIS PLAN IS BASED ON THE STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION IN DEVELOPING AREAS IN ACCORDANCE WITH OCTOBER 2016 REVISION TO THE 2003 MAINE EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPS) MANUAL FOR DESIGNERS AND ENGINEERS.

THE PROPOSED LOCATIONS OF SILTATION AND EROSION CONTROL STRUCTURES ARE SHOWN ON THE SITE PLAN

- ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE DONE IN ACCORDANCE WITH 2014 REVISION TO THE 2003 MAINE EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONTRACTORS. ALL TEMPORARY MEASURES SHALL NOT BE REMOVED
- 2. IN AREAS ADJACENT TO NATURAL RESOURCES, LOCATIONS TO BE VEGETATED IN THEIR FINISH CONDITION SHALL BE STABILIZED WITH MULCH WITHIN 7 DAYS OF DISTURBANCE.
- 3. AREAS THAT WILL NOT RECEIVE FINAL GRADING FOR UP TO ONE YEAR SHALL BE STABILIZED WITH MULCH WITHIN 7 DAYS OF DISTURBANCE
- 4. THOSE AREAS UNDERGOING ACTUAL CONSTRUCTION WILL BE MAINTAINED IN AN UNTREATED OR UNVEGETATED CONDITION FOR THE MINIMUM TIME REQUIRED. IN GENERAL AREAS TO BE VEGETATED SHALL BE PERMANENTLY STABILIZED WITHIN 15 DAYS OF FINAL GRADING AND TEMPORARILY STABILIZED WITHIN 30 DAYS OF INITIAL DISTURBANCE OF THE SOIL.
- SEDIMENT BARRIERS (SILT FENCE, STONE CHECK DAMS, ETC.) SHOULD BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF **UPGRADIENT DRAINAGE AREAS.**
- 6. INSTALL SILT FENCE AT TOE OF SLOPES TO FILTER SILT FROM RUNOFF. SEE SILT FENCE DETAIL FOR PROPER INSTALLATION. SILT FENCE WILL REMAIN IN PLACE PER NOTE #5.
- 7. ALL EROSION CONTROL STRUCTURES WILL BE INSPECTED, REPLACED AND/OR REPAIRED EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT OR WHEN NO LONGER SERVICEABLE DUE TO SEDIMENT ACCUMULATION OR DECOMPOSURE. IF REPAIRS ARE IDENTIFIED, THEY SHALL BEGIN NO LATER THAN THE END OF THE FOLLOWING WORK DAY AND BE COMPLETE WITHIN 7 DAYS FROM INSPECTION. SEDIMENT DEPOSITS MUST BE REMOVED WHEN THEY REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPSLOPE ARE PERMANENTLY STABILIZED.
- NO SLOPES, EITHER PERMANENT OR TEMPORARY, SHALL BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2 TO 1) UNLESS STABILIZED WITH RIPRAP OR OTHER STRUCTURAL MEANS. NO SLOPES IN EXCESS OF 1.5H:1V SHALL BE ALLOWED.
- 9. IF FINAL SEEDING AND SODDING IS NOT EXPECTED PRIOR TO THE ANTICIPATED DATE OF THE FIRST KILLING FROST, USE TEMPORARY ANNUAL RYEGRASS SEEDING AND MULCHING ON ROUGH GRADED SUBSOIL TO PROTECT THE SITE AND DELAY PERMANENT LOAMING, FINE GRADING, AND SEEDING OR SODDING UNTIL SPRING.
- 10. WHEN FEASIBLE, TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINISH GRADED SHALL BE COMPLETED 30 DAYS PRIOR TO THE FIRST KILLING FROST.
- 11. DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT WILL BE RETURNED TO THE SITE AND REGRADED ONTO OPEN AREAS. POST SEEDING SEDIMENT, IF ANY, WILL BE DISPOSED OF IN AN ACCEPTABLE MANNER.
- 12. REVEGETATION MEASURES WILL COMMENCE UPON COMPLETION OF CONSTRUCTION EXCEPT AS NOTED ABOVE. ALL DISTURBED AREAS NOT OTHERWISE STABILIZED WILL BE GRADED, SMOOTHED, AND REVEGETATED.
- 13. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE THE SITE IS STABILIZED.
- 14. EXCAVATION AND EARTHWORK SHALL BE DONE SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME.
- 15. EXPOSED AREA SHOULD BE LIMITED SUCH THAT THE AREA CAN BE MULCHED IN ONE DAY PRIOR TO ANY SNOW EVENT.
- **16. STABILIZATION SCHEDULE BEFORE WINTER:**
 - ALL DISTURBED AREAS MUST BE SEEDED AND MULCHED.
 - ALL SLOPES MUST BE STABILIZED, SEEDED AND MULCHED. SLOPES 3:1 OR GREATER TO BE STABILIZED WITH EROSION CONTROL MATTING AND SEEDED.
 - ALL DISTURBED AREAS TO BE PROTECTED WITH AN ANNUAL GRASS MUST BE SEEDED AT A SEEDING RATE OF 3 POUNDS PER 1,000 SQUARE FEET AND MULCHED.
 - OCTOBER 1 ALL GRASS-LINED DITCHES AND CHANNELS MUST BE STABILIZED WITH MULCH OR EROSION CONTROL BLANKET.
 - ALL STONE-LINED DITCHES AND CHANNELS MUST BE CONSTRUCTED AND STABILIZED. SLOPES THAT ARE COVERED WITH RIPRAP MUST BE CONSTRUCTED BY THAT DATE.
 - ALL DISTURBED AREAS WHERE THE GROWTH OF VEGETATION FAILS TO BE AT LEAST THREE INCHES
- TALL OR AT LEAST 75% OF THE DISTURBED SOIL IS COVERED BY VEGETATION, MUST BE PROTECTED FOR OVER-WINTER.
- 17. SEDIMENT BARRIERS SHALL BE INSTALLED DOWNGRADIENT OF STOCKPILES, AND STORMWATER SHALL BE PREVENTED FROM
- 18. CONTRACTOR SHALL MAINTAIN ALL STABILIZED CONSTRUCTION ENTRANCES UNTIL ALL DISTURBED AREAS ARE STABILIZED.
- 19. MULCH MAY REQUIRE ANCHORING TO ENSURE THAT MULCH REMAINS IN-PLACE. MULCH NETTING, CRIMPING, OR PUNCHING ARE ACCEPTABLE METHODS. MULCH NETTING SHALL BE TENAX RADIX EROSION CONTROL NETS OR APPROVED EQUAL, AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS.
- 20. SPILL PREVENTION: CONTROLS MUST BE USED TO PREVENT POLLUTANTS FROM BEING DISCHARGED FROM MATERIALS AND EQUIPMENT ON-SITE. INCLUDING STORAGE PRACTICES TO MINIMIZE EXPOSURE OF THE MATERIALS TO STORMWATER. AND APPROPRIATE SPILL PREVENTION, CONTAINMENT, AND RESPONSE PLANNING AND IMPLEMENTATION.
- 21. GROUNDWATER PROTECTION: DURING CONSTRUCTION, LIQUID PETROLEUM PRODUCTS AND OTHER HAZARDOUS MATERIALS WITH THE POTENTIAL TO CONTAMINATE GROUNDWATER MAY NOT BE STORED OR HANDLED IN AREAS OF THE SITE DRAINING TO AN INFILTRATION AREA. AN "INFILTRATION AREA" IS ANY AREA OF THE SITE THAT BY DESIGN OR AS A RESULT OF SOILS. TOPOGRAPHY AND OTHER RELEVANT FACTORS, ACCUMULATES RUNOFF THAT INFILTRATES INTO THE SOIL. DIKES, BERMS, SUMPS. AND OTHER FORMS OF SECONDARY CONTAINMENT THAT PREVENT DISCHARGE TO GROUNDWATER MAY BE USED TO ISOLATE PORTIONS OF THE SITE FOR THE PURPOSES OF STORAGE AND HANDLING OF THESE MATERIALS.
- MINIMIZE THE EXPOSURE OF CONSTRUCTION DEBRIS, BUILDING AND LANDSCAPING MATERIALS, TRASH, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS TO PRECIPITATION AND STORMWATER RUNOFF. THESE MATERIALS MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE.
- EXCAVATION DE-WATERING IS THE REMOVAL OF WATER FROM TRENCHES, FOUNDATIONS, COFFER DAMS, PONDS, AND OTHER AREAS WITHIN THE CONSTRUCTION AREA THAT RETAIN WATER AFTER EXCAVATION. IN MOST CASES THE COLLECTED WATER IS HEAVILY SILTED AND HINDERS CORRECT AND SAFE CONSTRUCTION PRACTICES. THE COLLECTED WATER REMOVED FROM THE PONDED AREA, EITHER THROUGH GRAVITY OR PUMPING, MUST BE SPREAD THROUGH NATURAL WOODED BUFFERS OR REMOVED TO AREAS THAT ARE SPECIFICALLY DESIGNED TO COLLECT THE MAXIMUM AMOUNT OF SEDIMENT POSSIBLE, LIKE A COFFERDAM SEDIMENTATION BASIN. AVOID ALLOWING THE WATER TO FLOW OVER DISTURBED AREAS OF THE SITE. **EQUIVALENT MEASURES MAY BE TAKEN IF APPROVED BY THE DEPARTMENT.**
- AUTHORIZED NON-STORMWATER DISCHARGES: IDENTIFY AND PREVENT CONTAMINATION BY NON-STORMWATER DISCHARGES. WHERE ALLOWED NON-STORMWATER DISCHARGES EXIST, THEY MUST BE IDENTIFIED AND STEPS SHOULD BE TAKEN TO ENSURE THE IMPLEMENTATION OF APPROPRIATE POLLUTION PREVENTION MEASURES FOR THE NON-STORMWATER COMPONENT(S) OF THE DISCHARGE. AUTHORIZED NON-STORMWATER DISCHARGES ARE:
- A. DISCHARGES FROM FIREFIGHTING ACTIVITY;
- **B. FIRE HYDRANT FLUSHINGS;**
- C. VEHICLE WASHWATER IF DETERGENTS ARE NOT USED AND WASHING IS LIMITED TO THE EXTERIOR OF VEHICLES (ENGINE, UNDERCARRIAGE AND TRANSMISSION WASHING IS PROHIBITED);
- D. DUST CONTROL RUNOFF IN ACCORDANCE WITH PERMIT CONDITIONS
- E. ROUTINE EXTERNAL BUILDING WASHDOWN, NOT INCLUDING SURFACE PAINT REMOVAL, THAT DOES NOT INVOLVE
- F. PAVEMENT WASHWATER (WHERE SPILLS/LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED, UNLESS
- ALL SPILLED MATERIAL HAD BEEN REMOVED) IF DETERGENTS ARE NOT USED; G. UNCONTAMINATED AIR CONDITIONING OR COMPRESSOR CONDENSATE;
- H. UNCONTAMINATED GROUNDWATER OR SPRING WATER;
- . FOUNDATION OR FOOTER DRAIN-WATER WHERE FLOWS ARE NOT CONTAMINATED; J. UNCONTAMINATED EXCAVATION DEWATERING;
- K. POTABLE WATER SOURCES INCLUDING WATERLINE FLUSHINGS; AND
- UNAUTHORIZED NON-STORMWATER DISCHARGES: THE MAINEDEP'S APPROVAL UNDER THIS CHAPTER DOES NOT AUTHORIZE A DISCHARGE THAT IS MIXED WITH A SOURCE OF NON_STORMWATER, OTHER THAN THOSE DISCHARGES IN COMPLIANCE WITH
- A. WASTEWATER FROM THE WASHOUT OR CLEANOUT OF CONCRETE, STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS OR OTHER CONSTRUCTION MATERIALS;

APPENDIX C (6). SPECIFICALLY, THE DEPARTMENT'S APPROVAL DOES NOT AUTHORIZE DISCHARGES OF THE FOLLOWING:

- B. FUELS, OILS OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; C. SOAPS, SOLVENTS, OR DETERGENTS USED IN VEHICLE AND EQUIPMENT WASHING; AND
- D. TOXIC OR HAZARDOUS SUBSTANCES FROM A SPILL OR OTHER RELEASE.

EROSION CONTROL - WINTER CONSTRUCTION

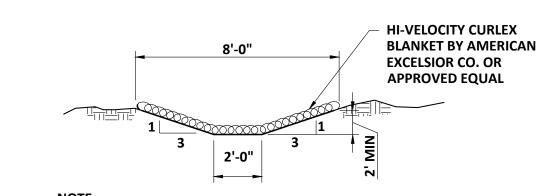
- 1. WINTER CONSTRUCTION PERIOD DEFINED: NOVEMBER 1 THROUGH APRIL 15.
- 2. CONTINUATION OF EARTHWORK OPERATIONS ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED SUCH THAT NO LARGER AREA OF THE SITE IS WITHOUT EROSION **CONTROL PROTECTION AS LISTED IN ITEM 2 ABOVE.**
- 3. AN AREA SHALL BE CONSIDERED TO HAVE BEEN STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH STRAW AT A RATE OF 100 LB. PER 1,000 SQUARE FEET (WITH OR WITHOUT SEEDING) OR DORMANT SEEDED, MULCHED AND ADEQUATELY ANCHORED BY AN APPROVED ANCHORING TECHNIQUE. IN ALL CASES, MULCH SHALL BE APPLIED SUCH THAT SOIL SURFACE IS NOT VISIBLE THROUGH THE MULCH.
- BETWEEN THE DATES OF OCTOBER 15 AND APRIL 1ST, LOAM OR SEED WILL NOT BE REQUIRED. DURING PERIODS OF ABOVE-FREEZING TEMPERATURES. THE SLOPES SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEEDED AND MULCHED UNTIL SUCH TIME AS THE FINAL TREATMENT CAN BE APPLIED. IF THE DATE IS AFTER NOVEMBER 1ST AND IF THE EXPOSED AREA HAS BEEN LOAMED, FINAL GRADED AND IS SMOOTH, THEN THE AREA MUST BE STABILIZED WITH MULCH. IF CONSTRUCTION CONTINUES DURING FREEZING WEATHER, ALL EXPOSED AREAS SHALL BE GRADED BEFORE FREEZING AND THE SURFACE TEMPORARILY PROTECTED FROM EROSION BY THE APPLICATION OF MULCH. SLOPES SHALL NOT BE LEFT EXPOSED OVER THE WINTER OR ANY OTHER EXTENDED TIME OF WORK SUSPENSION UNLESS TREATED IN THE ABOVE MANNER. UNTIL SUCH TIME AS WEATHER CONDITIONS ALLOW DITCHES TO BE FINISHED WITH THE PERMANENT SURFACE TREATMENT, EROSION SHALL BE CONTROLLED BY THE INSTALLATION OF BALES OF HAY OR STONE CHECK DAMS IN ACCORDANCE WITH THE STANDARD DETAILS.
- 5. THE APPLICATION OF MULCH TO FINE GRADED AREAS WILL BE STABILIZED AS FOLLOWS
- A. BETWEEN THE DATES OF NOVEMBER 1ST AND APRIL 15TH ALL MULCH SHALL BE ANCHORED BY EITHER PEG LINE, MULCH NETTING, ASPHALT EMULSION, CHEMICAL TACK OR WOOD CELLULOSE FIBER.
- B. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH A SLOPE GREATER THAN 3% FOR SLOPES EXPOSED TO DIRECT WINDS AND FOR ALL OTHER SLOPES GRATER THAN 8%. THIS SHALL BE IN ADDITION TO **EROSION CONTROL MATTING-DITCHES DETAIL.**
- C. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 15%. AFTER OCTOBER 1ST, THE SAME APPLIES FOR ALL SLOPES GREATER THAN 8%.
- 8. AFTER NOVEMBER 1ST THE CONTRACTOR SHALL APPLY MULCH AND ANCHORING ON ALL BARE EARTH AT THE END OF EACH
- 9. DURING WINTER CONSTRUCTION PERIODS ALL SNOW SHALL BE REMOVED FROM AREAS OF MULCHING PRIOR TO PLACEMENT.
- 10. THE INSPECTION FREQUENCY FOR WINTER CONSTRUCTION SHALL BE AFTER EACH RAINFALL, SNOWSTORM, OR THAWING, AND AT LEAST ONCE A WEEK.

EROSION CONTROL - WETLAND NOTES

- 1. WETLANDS AND SURFACE WATERS (EXCEPTING THOSE WHICH ARE TO BE FILLED IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS) WILL BE PROTECTED WITH SILT FENCE INSTALLED AT THE EDGE OF THE WETLAND OR THE BOUNDARY OF WETLAND DISTURBANCE.
- 2. IF THE WORK INCLUDES CROSSING OF WETLANDS AND/OR STREAMS, THE CONTRACTOR SHALL TAKE SPECIAL PRECAUTIONS **WORKING IN THESE AREAS.**
- 3. ANY WETLAND CROSSING WORK SHALL BE COMPLETED BETWEEN THE PERIOD OF MAY 1 AND SEPTEMBER 30.
- 4. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING CONSTRUCTION WITHIN OR ADJACENT TO WETLAND AREAS. ALL TEMPORARY MEASURES SHALL NOT BE REMOVED UNTIL SITE IS FULLY STABILIZED.
- 5. WETLAND VEGETATIVE LAYERS SHALL BE REMOVED AND SALVAGED FOR RESTORATION OF THE DISTURBED AREAS.
- 6. STORAGE AREAS FOR WETLAND MATERIALS SHALL BE PROPERLY PROTECTED AGAINST EROSION.
- 7. SEEDING OF THE DISTURBED AREAS WITHIN WETLAND AREAS SHALL UTILIZE MIXTURES APPROPRIATE FOR WETLAND AREAS AS OUTLINED IN THE SPECIFICATIONS.

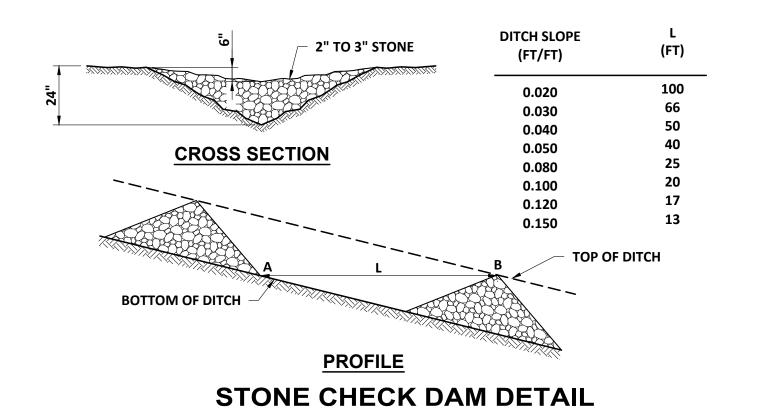
REGULAR INSPECTIONS OF ALL EROSION AND SEDIMENTATION CONTROLS SHALL BE MADE AT LEAST WEEKLY AND PRIOR TO AND FOLLOWING STORM EVENTS. MINIMUM INSPECTIONS SHALL BE MADE AS LISTED IN THE TABLE BELOW. SEE INSPECTIONS, MAINTENANCE AND HOUSEKEEPING PLAN FOR ADDITIONAL INFORMATION.

INSPECTED ITEM	EXAMPLE REPAIR INDICATORS
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. PROVIDE FOR ALL DRAINAGE SWALES. ADDITIONAL REQUIREMENTS MAY APPLY. SEE EROSION CONTROL - WINTER CONSTRUCTION NOTE 7.

EROSION CONTROL MATTING - DITCHES



6'-0"(MAX) 6'-0"(MAX) **WOOD POSTS** - 3'-0" WIRE REINFORCED SILTATION FABRIC W/ WIRE MESH BACKING ATTACHED TO WOOD POST **FABRIC EXISTING GRADE EXCAVATE TRENCH FOR** MIN 6"-OVERLAP FABRIC AND BACKFILL WITH **EXCAVATED MATERIALS**

SILT FENCE INSTALLATION DETAIL

WOOD WASTE/BARK

THE FOLLOWING STANDARDS:

WEIGHT BASIS

CURLEX 1 MATTING BY

OR APPROVED EQUAL

AMERICAN EXCELSIOR CO.

85% PASSING A 0.75" SCREEN.

RUNOFF

1. EROSION CONTROL MIX SHOULD CONTAIN A WELL-GRADED MIXTURE OF PARTICLE SIZES

GROWTH SUCH AS FLY ASH OR YARD SCRAPING. LARGE PORTIONS OF SILTS, CLAYS OR

FINE SANDS ARE NOT ACCEPTABLE IN THE MIX. THE MIX COMPOSITION SHOULD MEET

A. THE ORGANIC MATTER CONTENT SHOULD BE BETWEEN 80% AND 100%, DRY

B. PARTICLE SIZE BY WEIGHT SHOULD BE 100% PASSING A 6" SCREEN AND 70% TO

BE FREE OF REFUSE, PHYSICAL CONTAMINANTS, AND MATERIAL TOXIC TO PLANT

C. THE ORGANIC PORTION NEEDS TO BE FIBROUS AND ELONGATED.

EROSION CONTROL MULCH BERM

EMBED HAYBALES MINIMUM OF 4".

HAY BALE CB INLET PROTECTION

INSTALL ON SLOPES 3:1 OR GREATER

EROSION CONTROL MATTING - SLOPES

D. SOLUBLE SALTS CONTENT SHALL BE < 4.0 MMHOS/CM.

E. THE PH SHOULD BE BETWEEN 5.0 AND 8.0.

2. DO NOT USE ECM BERM AT BASE OF SLOPES 8% OR GREATER.

AND MAY CONTAIN ROCKS LESS THAN 4" IN DIAMETER. EROSION CONTROL MIX SHOULD

EXISTING GROUND

STAKE HAY BALES **AS PER DETAIL**

ANCHOR PER

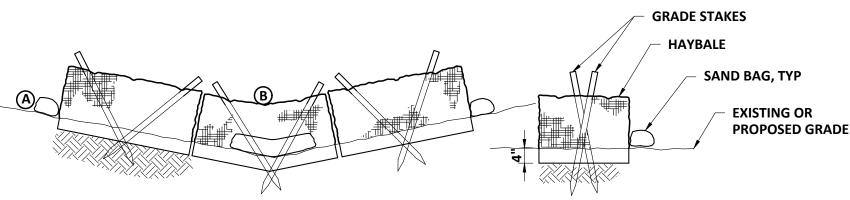
OVERLAP EDGES MIN OF 4 INCHES.

STAPLE PER MANUFACTURER

REQUIREMENTS

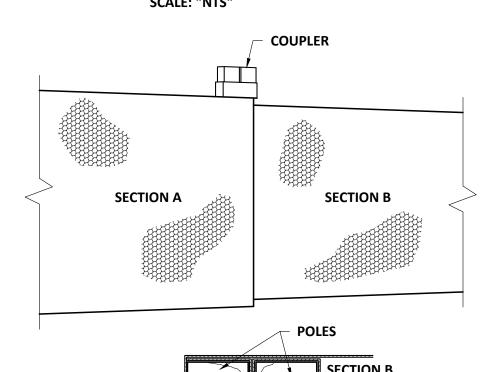
MANUFACTURER

REQUIREMENTS

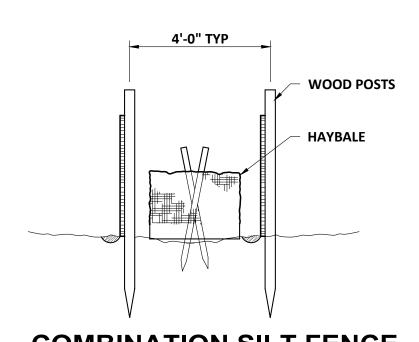


EROSION CHECK TO BE BALES OF HAY SECURED TO THE GROUND WITH TWO 4' LONG GRADE STAKES FOR EACH BALE. SAND BAG AS REQUIRED, PLACE SUFFICIENT BALES TO ESTABLISH ELEVATIONS AT (A) AT LEAST 6 INCHES ABOVE OVERFLOW AT(B)

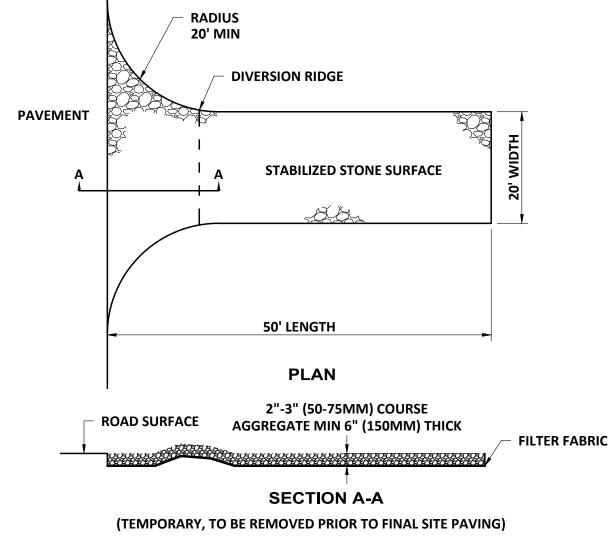
HAY BALE CHECK DAM



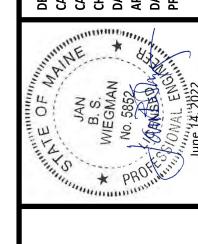
JOINING SILT FENCE SECTIONS



COMBINATION SILT FENCE AND HAY BALE BARRIER



STABILIZED CONSTRUCTION ENTRANCE



DRAWING

C-13

