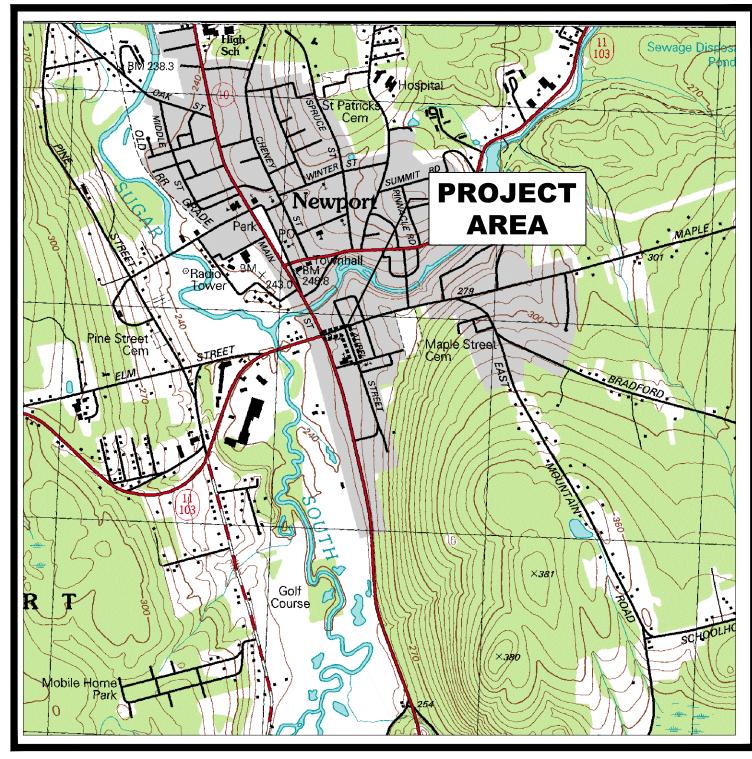
TOWN OF NEWPORT NEW HAMPSHIRE

SIDEWALK IMPROVEMENTS (2020)

LAUREL STREET AND MAPLE STREET

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Locus Map
Not to Scale



GENERAL NOTES

- 1. SURVEY INFORMATION PROVIDED IS APPROXIMATE AND ALL ELEVATIONS AND DIMENSIONS MUST BE VERIFIED PRIOR TO CONSTRUCTION OR ORDERING ANY PRECAST DRAINAGE STRUCTURES.
- 2. ELEVATIONS ARE BASED ON AN ASSUMED VERTICAL DATUM.
- 3. THE CONTRACTOR SHALL VERIFY ALL RELEVANT ANGLES, LENGTHS, ELEVATIONS, AND INVERTS PRIOR TO CONSTRUCTION.
- 4. THE LOCATION OF EXISTING UTILITIES AND SUBSURFACE STRUCTURES AS SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND APPROPRIATE UTILITY AUTHORITY OF ANY DISCREPANCY WITH THE DRAWINGS. NEITHER THE ENGINEER NOR THE OWNER WARRANTS OR GUARANTEES THE CONDITIONS SHOWN ON THE DRAWINGS.
- 5. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL SUBSURFACE STRUCTURES AND UTILITIES THROUGH THE APPROPRIATE AGENCY. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO ANY EXCAVATION. THE CONTRACTOR SHALL CALL THE DIG-SAFE CENTER (1-888-344-7233) AT LEAST 72 BUSINESS HOURS PRIOR TO ANY EXCAVATION.
- 6. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITY WITH THE VARIOUS AFFECTED UTILITY AUTHORITIES TO PREVENT UNNECESSARY DELAY OF WORK OR INTERRUPTION OF SERVICES.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING AND SUPPORTING ALL UTILITIES DURING CONSTRUCTION AND FOR COORDINATING SUCH ACTIVITY WITH THE APPROPRIATE UTILITY AUTHORITY. UTILITIES DESTROYED OR DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE UTILITY AUTHORITY AT NO ADDITIONAL COST TO THE OWNER.
- 8. THE CONTRACTOR SHALL MAINTAIN TRAFFIC IN A SAFE MANNER AT ALL TIMES DURING CONSTRUCTION AND IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND AS REQUIRED BY THE NHDOT. IT IS UNDERSTOOD THAT NO ROADWAYS WILL BE CLOSED AND NO DETOURS WILL BE PERMITTED TO ACCOMMODATE CONSTRUCTION AND THE CONTRACTOR SHALL PLAN THE CONSTRUCTION ACTIVITIES ACCORDINGLY.
- 9. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ACCESS TO ALL ABUTTING PROPERTIES WITHIN THE PROJECT AREA AT ALL TIMES, UNLESS OTHERWISE APPROVED BY THE OWNER.
- 10. THE CONTRACTOR SHALL CONFINE ALL OPERATIONS AND ACTIVITIES FOR CONSTRUCTION PURPOSES TO THE TOWN'S RIGHT—OF—WAY OR IN STAGING/STOCKPILE AREAS APPROVED BY THE TOWN. THE CONTRACTOR SHALL LOCATE STAGING AREAS THROUGH AGREEMENTS WITH AFFECTED PROPERTY OWNERS, OR PROVIDE ALTERNATE MEANS TO STORE MATERIAL AT THE WORK AREA AS REQUIRED.
- 11. DURING NON-WORKING HOURS, THE CONTRACTOR SHALL SECURE ALL EQUIPMENT AND MATERIALS WITHIN THE LIMITS OF WORK.
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING PAVEMENT, ROADWAYS, SIGNS, CURBS, SIDEWALKS, DRIVEWAYS, MAILBOXES, FENCES, PLANTINGS OR OTHER PHYSICAL FEATURES CAUSED BY THE CONTRACTOR'S ACTIVITIES AND SHALL REPAIR THEM AT NO ADDITIONAL COST TO THE OWNER. ALL AREAS BEYOND THE LIMITS OF CONSTRUCTION WHICH ARE DISTURBED BY THE CONTRACTOR SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
- 13. THE CONTRACTOR SHALL TAKE PRECAUTIONS DURING CONSTRUCTION TO MINIMIZE THE AMOUNT OF DEBRIS THAT COLLECTS IN CATCH BASINS, CULVERTS AND MANHOLES. THE CONTRACTOR SHALL CLEAN ALL CATCH BASINS, CULVERTS AND MANHOLES AFFECTED BY CONSTRUCTION IN ORDER TO MAINTAIN AN OPERATING SYSTEM.
- 14. ALL EXISTING CURB, SIGNS, DRAINAGE STRUCTURES, UTILITIES AND ANY OTHER MATERIALS WITHIN THE RIGHT OF WAY THAT ARE REMOVED BY THE CONTRACTOR MAY BE INSPECTED BY THE OWNER. THE OWNER RESERVES THE RIGHT TO RETAIN OWNERSHIP AND MAY DIRECT THE CONTRACTOR TO SALVAGE AND STOCKPILE ANY SUCH EXISTING MATERIALS AT NO ADDITIONAL COST TO THE OWNER. ANY EXISTING MATERIALS THE OWNER CHOOSES NOT TO SALVAGE AND STOCKPILE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 15. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS FROM APPLICABLE GOVERNMENTAL AGENCIES, INCLUDING THE OWNER, PRIOR TO THE START OF ANY CONSTRUCTION.
- 16. THE CONTRACTOR IS REQUIRED TO PROVIDE ADEQUATE SHORING FOR THE SOIL CONDITIONS AND DEPTHS ENCOUNTERED DURING CONSTRUCTION.
- 17. IN THE EVENT THE CONTRACTOR ENCOUNTERS EXISTING MATERIAL REASONABLY BELIEVED TO BE HAZARDOUS WHICH HAS NOT BEEN RENDERED HARMLESS, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AFFECTED AREA AND REPORT THE CONDITION TO THE OWNER AND ENGINEER. WORK IN THE AFFECTED AREA SHALL NOT RESUME UNTIL WRITTEN VERIFICATION BY THE OWNER THAT THE MATERIAL HAS BEEN REMOVED OR OTHERWISE BEEN RENDERED HARMLESS.
- 18. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE CONTRACT DOCUMENTS. ALL DRAWINGS OF ANY PARTICULAR TRADE SHALL BE USED IN CONJUNCTION WITH DRAWINGS OF ALL OTHER TRADES TO COORDINATE THE CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED WORK. ANY PROPOSED CHANGES, VARIATIONS, OR SUBSTITUTIONS MUST BE REVIEWED AND ACCEPTED BY THE ENGINEER PRIOR TO IMPLEMENTATION.
- 19. ALL PROPOSED WORK WILL BE COMPLETED IN ACCORDANCE WITH NHDOT STANDARD SPECIFICATIONS AND DETAILS (LATEST VERSION AND ALL AMENDMENTS) UNLESS OTHERWISE NOTED ON THESE PLANS OR SPECIFIED IN THE CONTRACT DOCUMENTS.
- 20. ALL CATCH BASIN GRATES AND FRAMES SHALL BE TYPE "B" IN ACCORDANCE WITH NHDOT STANDARD DR-1.
- 23. ALL WATER GATES, MANHOLES AND CATCH BASINS WITHIN THE PROJECT LIMITS WILL BE ADJUSTED TO GRADE BY THE CONTRACTOR. GAS GATES AND TELEPHONE MANHOLES WILL BE ADJUSTED BY THE EFFECTED UTILITY COMPANY. THE CONTRACTOR WILL COORDINATE ALL UTILITY RELOCATIONS (BY OTHERS) WITH THE APPROPRIATE UTILITY COMPANY.
- 24. ALL EXISTING DRAINAGE PIPES WILL BE ABANDONED IN PLACE UNLESS OTHERWISE NOTED ON THE PLANS. ALL UPSTREAM DRAINAGE SYSTEMS AT THE PROJECT LIMITS WILL BE CONNECTED TO THE PROPOSED DRAINAGE SYSTEM AS NOTED ON THE PLANS OR AS FOUND DURING CONSTRUCTION. EXISTING PIPES TO BE ABANDONED WILL BE PLUGGED AT THE ENDS (A CLEAN PIPE END WILL BE CREATED) WITH BRICK AND MORTAR TO CREATE A TIGHT SEAL OR BY ANOTHER METHOD APPROVED BY THE ENGINEER. ALL PIPE PLUGS SHALL BE CONSTRUCTED TO A DEPTH EQUAL TO THE PIPE DIAMETER. PAYMENT FOR PIPE ABANDONMENT AND PLUGS WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT WILL BE MADE FOR THAT WORK.

ABBREVIATIONS

ABAN. ABANDON
ADJ. ADJUST
EXIST. EXISTING

R&D REMOVE AND DISPOSE
R&R REMOVE AND RESET
R&S REMOVE AND STACK

PROPOSED

R.C.P. REINFORCED CONCRETE PIPE (CLASS III UNLESS NOTED)

CB CATCH BASIN
MH MANHOLE
WG WATER GATE
GG GAS GATE
BIT. BITUMINOUS
CEM. CEMENT

PVMT. PAVEMENT
CONC. CONCRETE
GRAN. GRANITE

INV. INVERT

EL. ELEVATION

DWY. DRIVEWAY

SDWK.

WCR WHEELCHAIR RAMP

SIDEWALK

WCR WHEELCHAIR RAME

SEEDING SPECIFICATIONS

MIXTURE	POUNDS PER ACRE	POUNDS PER 1000 SF
TALL FESCUE	20	0.46
CREEPING RED	FESCUE 20	0.45
BIRDSFOOT TRE	FOIL 8	0.20
TOTAL	48	1.10

- 1. SEEDBED PREPARATION
- a. SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING THE PLANTS.
- b. STONES LARGER THAN 4" SHOULD BE REMOVED AS THEY INTERFERE WITH SEEDING AND FUTURE MAINTENANCE OF THE AREA. WHERE FEASIBLE THE SOIL SHOULD BE TILLED TO A DEPTH OF 4" PRIOR TO PREPARE THE SEEDBED AND MIX FERTILIZER AND LIME INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN A REASONABLY SMOOTH AND FIRM CONDITION. THE LAST TILLAGE OPERATION SHOULD BE COMPLETED ACROSS THE SLOPE.
- 2. ESTABLISHING A STAND
 - a. LIME AND FERTILIZER SHOULD BE APPLIED PRIOR TO OR AT THE TIME OF SEEDING AND INCORPORATED INTO THE SOIL. KINDS AND AMOUNTS OF LIME AND FERTILIZER SHOULD BE BASED ON SOILS TESTING. WHEN SOILS TEST ARE NOT AVAILABLE THE FOLLOWING RATES SHALL APPLY:
 - AGRICULTURAL LIMESTONE: 2 TONS PER ACRE OR 0.09 LBS. PER SQ. FT.
 - NITROGEN (N): 50 POUNDS PER ACRE OR 1.1 POUND PER 1000 SQ. FT.
 - PHOSPHATE (P205): 100 POUNDS PER ACRE OR 2.2 POUNDS PER 1000 SQ. FT.
 - POTASH (K20): 100 POUNDS PER ACRE OR 2.2 POUNDS PER 1000 SQ. FT.
 - (NOTE: THIS IS THE EQUIVALENT OF 500 POUNDS PER ACRE OF 10-20-20 OF FERTILIZER OR 1000 POUNDS OF 5-10-10 OF FERTILIZER PER ACRE)
 - b. SEED SHOULD BE SPREAD UNIFORMLY BY THE METHOD MOST APPROPRIATE FOR THE SITE. METHODS INCLUDE BROADCASTING, DRILLING AND HYDROSEEDING. WHERE BROADCASTING IS USED, COVER SEED WITH 0.25 INCHES OF SOIL OR LESS BY CULTIPACKING OR RAKING.
 - c. REFER TO TABLE 7-35 OF "STORMWATER MANAGEMENT AND SEDIMENTATION CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE" FOR APPROPRIATE SEED MIXTURES AND TABLE 7-36 FOR RATES OF SEEDING. ALL LEGUMES (CROWNVETCH, BIRDSFOOT TREFOIL, AND FLATPEA) MUST BE INOCULATED WITH THEIR SPECIFIC INOCULANT.
 - d. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER. WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 10 TO SEPTEMBER 1.
- 3. MULCH
- a. HAY, STRAW, OR OTHER MULCH, WHEN NEEDED, SHOULD BE APPLIED IMMEDIATELY AFTER SEEDING.
- b. MULCH WILL BE HELD IN PLACE USING TECHNIQUES FROM THE "BEST MANAGEMENT PRACTICE FOR MULCHING" AS SHOWN IN "STORMWATER MANAGEMENT AND SEDIMENTATION CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE".
- 4. MAINTENANCE TO ESTABLISH A STAND
- a. PLANTED AREAS SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZING, TRAFFIC, AND DENSE WEED GROWTH
- b. FERTILIZATION NEEDS SHOULD BE DETERMINED BY ON SITE INSPECTIONS. SUPPLEMENTAL FERTILIZER IS USUALLY THE KEY TO FULLY COMPLETE THE ESTABLISHMENT OF ANY STAND BECAUSE MOST PERENNIALS TAKE 2 TO 3 YEARS TO BECOME ESTABLISHED.

EROSION CONTROL NOTES

- 1. THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION AT ANY ONE TIME.
- 2. DISTURBED AREAS SHALL NOT REMAIN EXPOSED FOR LONGER THAN 60 DAYS. ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED WITHIN 72 HOURS OF FINAL GRADING.
- 3. TEMPORARY SEEDING SHALL BE APPLIED TO ALL DISTURBED AREAS (TO BE VEGETATED) IN ACCORDANCE WITH THE REQUIRMENTS OF PAGE 7-247 THROUGH 7-249 OF THE "STORMWATER MANAGEMENT AND SEDIMENTATION CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE".
- 4. INSTALLATION OF SILT FENCES AND/OR HAY BALE SEDIMENTATION BARRIERS SHALL BE COMPLETED PRIOR TO THE START OF ANY CONSTRUCTION IN ACCORDANCE WITH THE DETAILS HEREIN, WITH THE MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH NHDES PERMIT REQUIREMENTS.
- 5. ALL DRAINAGE INFRASTRUCTURE SHALL BE STABILIZED PRIOR TO DIRECTING FLOW TO THE SYSTEM.
- 6. EROSION CONTROL MEASURES SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EVERY STORM EVENT IN EXCESS OF 0.5".
 EROSION CONTROL MEASURES SHALL BE MAINTAINED FOR THE DURATION OF THE CONSTRUCTION OR UNTIL ALL DISTURBED AREAS ARE FULLY STABILIZED WITH APPROPRIATE SURFACE TREATMENTS (GRASSES, STONE, PAVEMENT, ETC.).
- 7. EXISTING VEGETATION SHALL REMAIN UNDISTURBED WHEREVER POSSIBLE AND ANY DISTURBED AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE FOLLOWING REGRADING.
- 8. UNLESS OTHERWISE NOTED, ALL DISTURBED AREAS SHALL HAVE A MINIMUM OF 4" OF LOAM, BE PROPERLY FERTILIZED AND SEEDED IN ACCORDANCE WITH THE NOTES HEREIN AND THE SPECIFICATIONS.
- 9. ALL EROSION CONTROL MEASURES SHALL BE CLEANED OF ANY ACCUMULATED DEBRIS AND REMOVED UPON STABILIZATION OF ALL DISTURBED AREAS.
- 10. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
 - BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
 A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
 - A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED; OR
- EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

MAINTENANCE

1. ALL TEMPORARY EROSION CONTROL MEASURES SHOULD BE INSPECTED AFTER EACH RAINFALL AND AT LEAST WEEKLY. ANY NECESSARY REPAIRS SHALL BE MADE IMMEDIATELY. ACCUMULATED SEDIMENTS SHALL BE REMOVED FROM ALL EROSION CONTROL DEVICES WHEN THE SEDIMENTS HAVE REACHED A HEIGHT OF ONE HALF THE HEIGHT OF THE EROSION CONTROL MEASURE.

NUMBER DATE BY DESCRIPTION





P.O. Box 432 New Boston, NH 03070 (603) 413-6650 NO SCALE

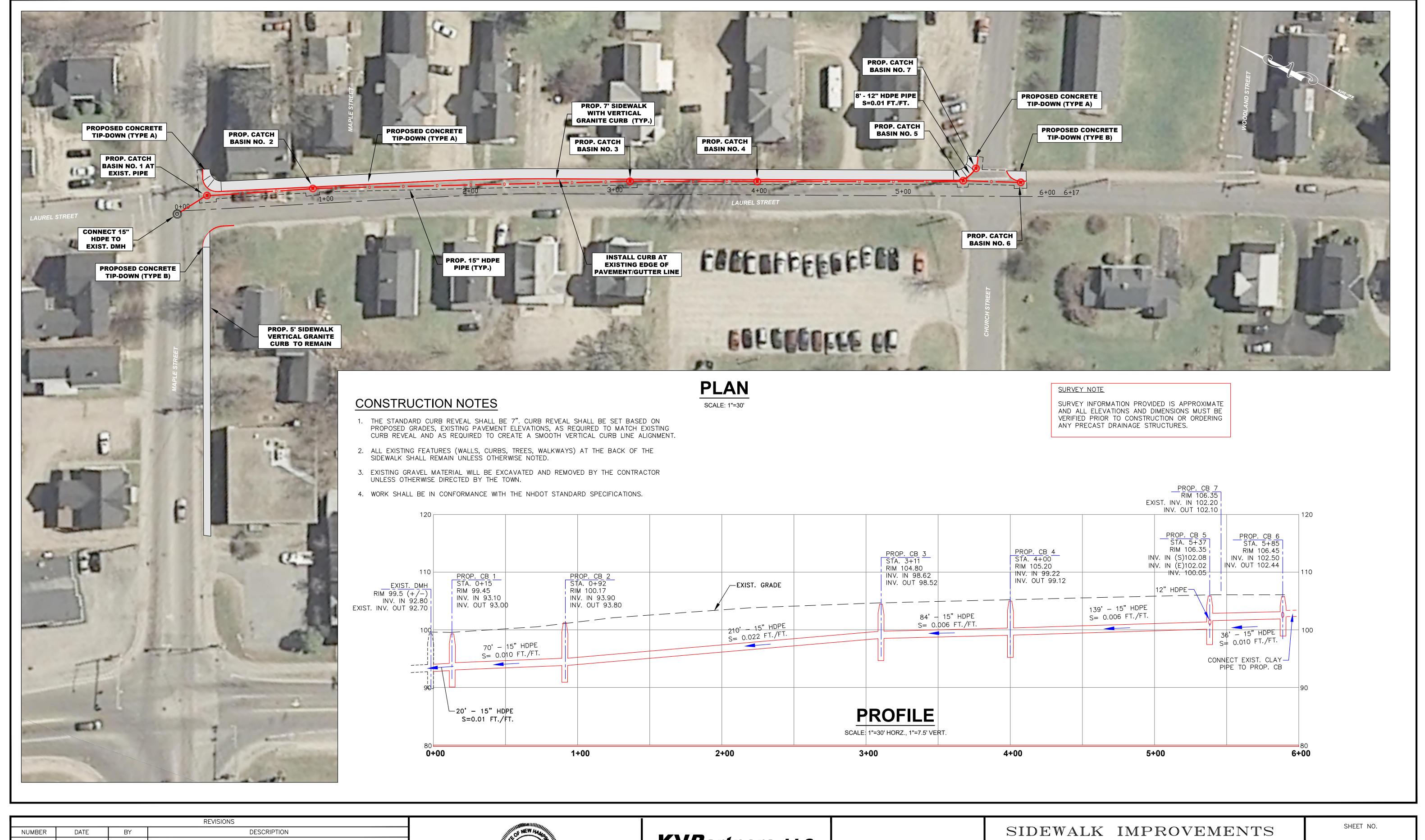
SIDEWALK IMPROVEMENTS 2020

7

SHEET NO.

GENERAL NOTES AND LEGENDS

NEWPORT, NEW HAMPSHIRE



REVISIONS			
NUMBER	DATE	BY	DESCRIPTION



KVPartners LLC

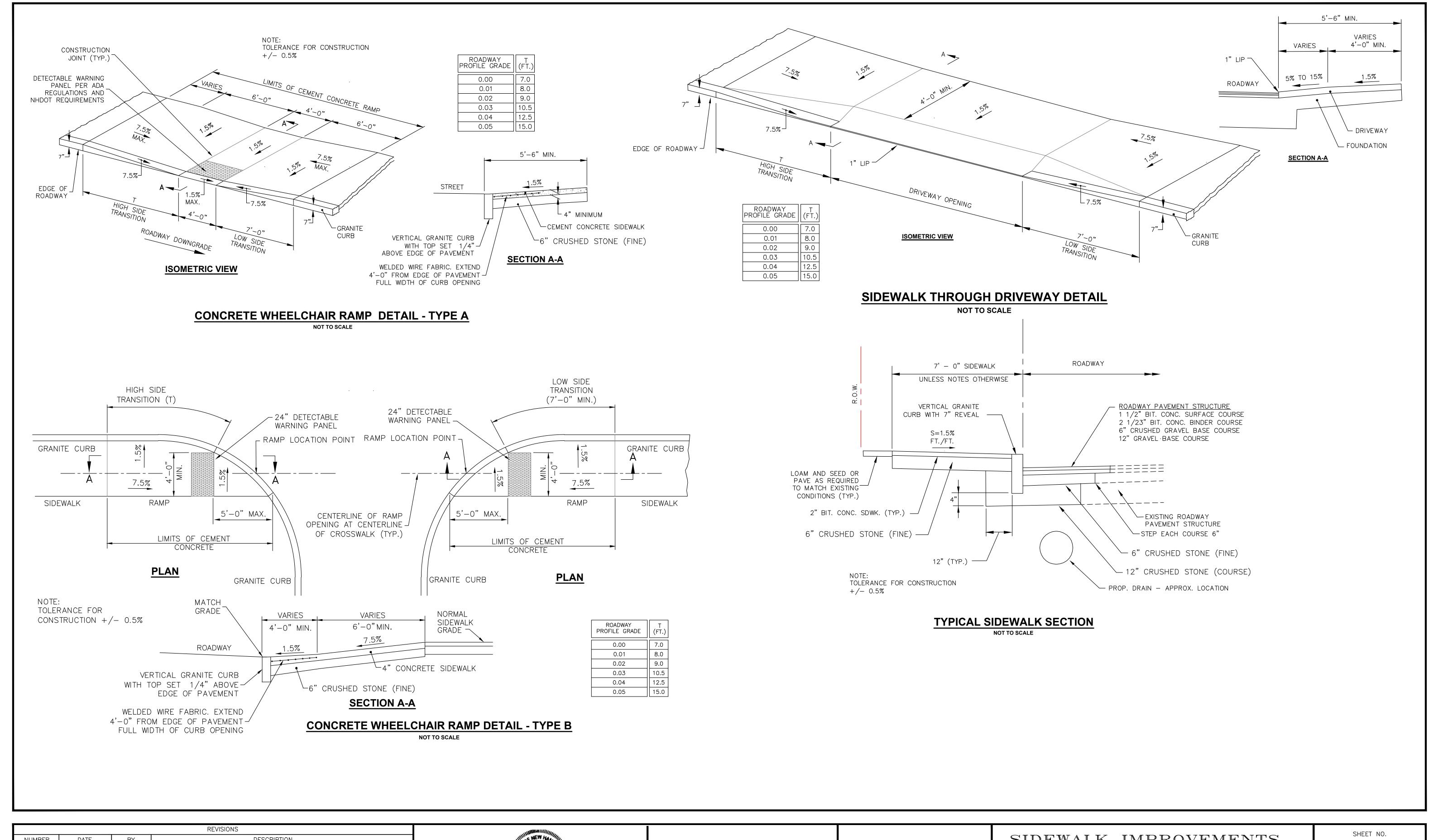
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30	0	30	60
	SCALE	1" = 30'	

SIDEWALK	IMPROVEMENTS
	2020

NEWPORT, NEW HAMPSHIRE

CONSTRUCTION PLAN



			REVISIONS
NUMBER	DATE	BY	DESCRIPTION



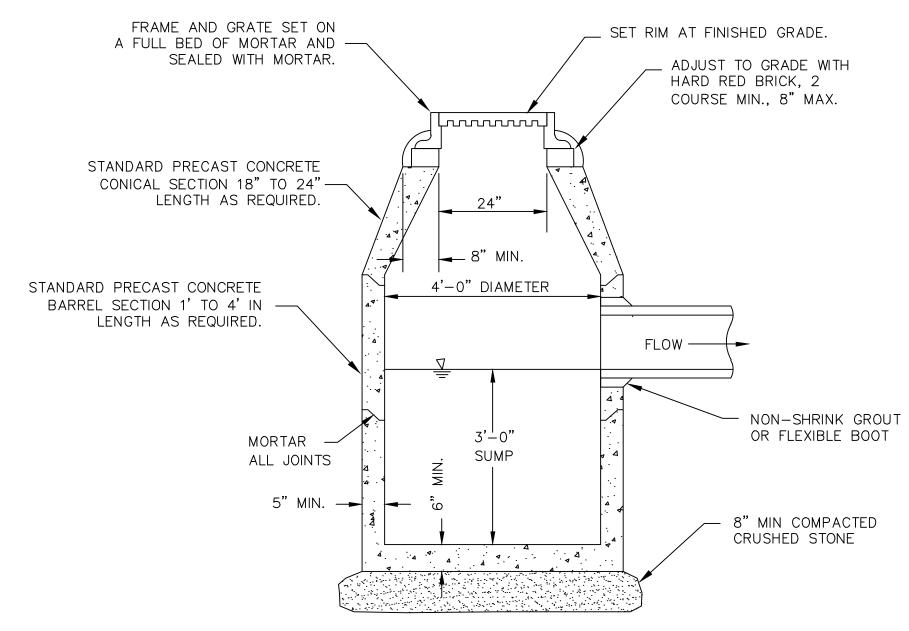
KVPartners LLC

P.O. Box 432 New Boston, NH 03070 (603) 413-6650

SIDEWALK	IMPF 2020		S
NEWPORT	, NEW	HAMPSHIRE	

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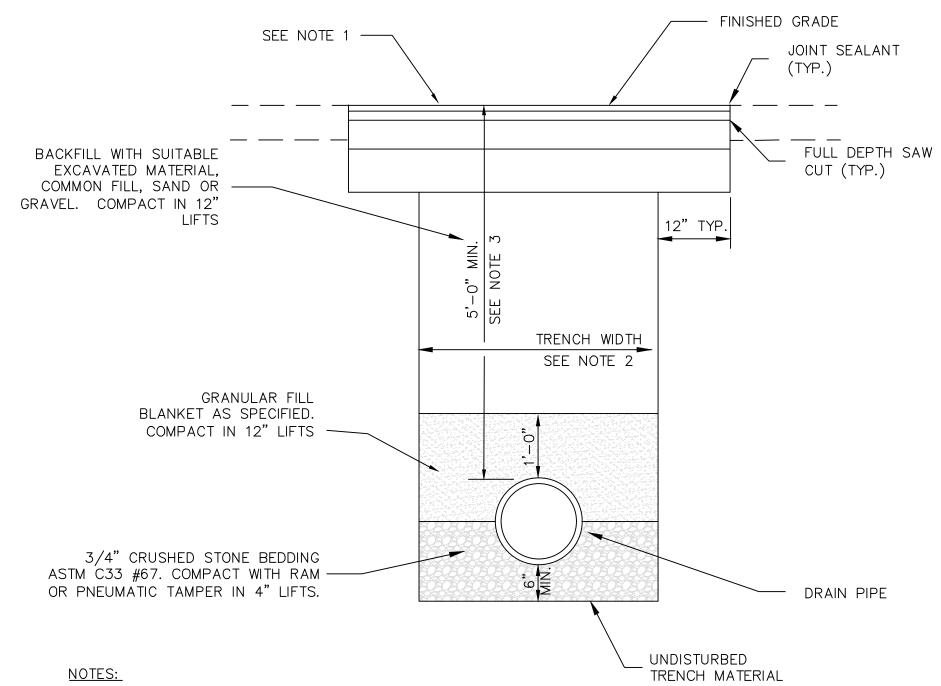
CONSTRUCTION DETAILS - 1



NOTES:

1. PRECAST CONCRETE SECTION ASSEMBLIES SHALL WITHSTAND H-20 LOADING AND SHALL CONFORM TO ASTM C478.

TYPICAL CATCH BASIN DETAIL NOT TO SCALE

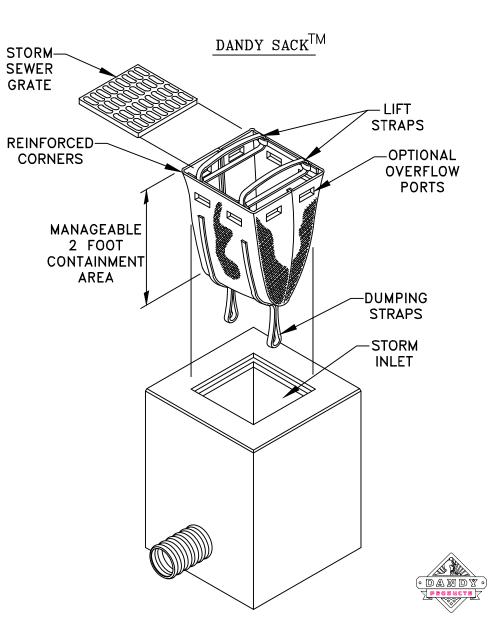


- 1. REFER TO TYPICAL SECTIONS.
- 2. ALLOWABLE TRENCH WIDTH:
- a. FOR PIPE LESS THAN OR EQUAL TO 12 INCHES IN DIAMETER, THE ALLOWABLE TRENCH WIDTH AT PLANE 12 INCHES ABOVE PIPE SHALL BE NO MORE THAN 36 INCHES. b. FOR PIPE GREATER THAN 12 INCHES IN DIAMETER THE ALLOWABLE TRENCH WIDTH SHALL BE
- EQUAL TO THE PIPE OUTSIDE DIAMETER PLUS 24 INCHES.

3. MINIMUM PIPE COVER SHALL BE 2'-0"

TYPICAL DRAIN PIPE TRENCH DETAIL

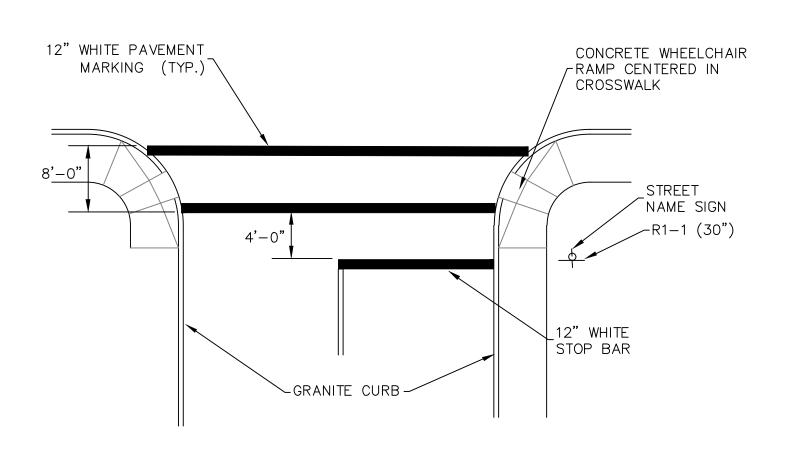
NOT TO SCALE



NOTES:

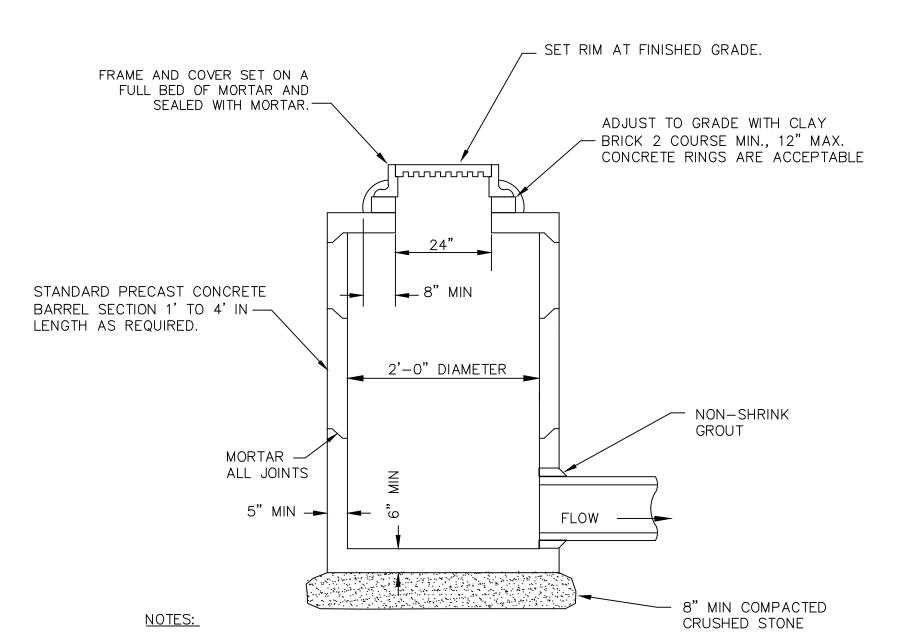
1. INLET PROTECTION WILL BE PRODUCT SHOWN ABOVE OR APPROVED EQUAL.

CATCH BASIN INLET SEDIMENT FILTER NOT TO SCALE



- 1. ALL PAVEMENT MARKINGS AND SIGNS SHALL CONFORM TO THE LATEST VERSION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) INCLUDING ALL ADDENDA.
- 2. PAVEMENT MARKINGS SHALL BE RETROREFLECTIVE PAINT IN ACCORDANCE WITH NHDOT STANDARDS UNLESS OTHERWISE DIRECTED BY THE TOWN.

TYPICAL SIDE STREET PAVEMENT **MARKINGS AND SIGNING** NOT TO SCALE

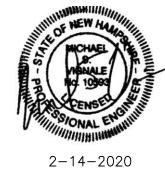


1. PRECAST CONCRETE SECTION AND SLAB TOP ASSEMBLIES SHALL WITHSTAND H-20 LOADING AND SHALL CONFORM TO ASTM C478.

TYPICAL DROP INLET DETAIL

NOT TO SCALE

REVISIONS NUMBER DATE BY DESCRIPTION



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SCALE AS NOTED

	IMPROVEMENTS 2020
NEWPORT	, NEW HAMPSHIRE

SHEET NO.

CONSTRUCTION DETAILS -