

WALNUT HILL INVESTMENTS

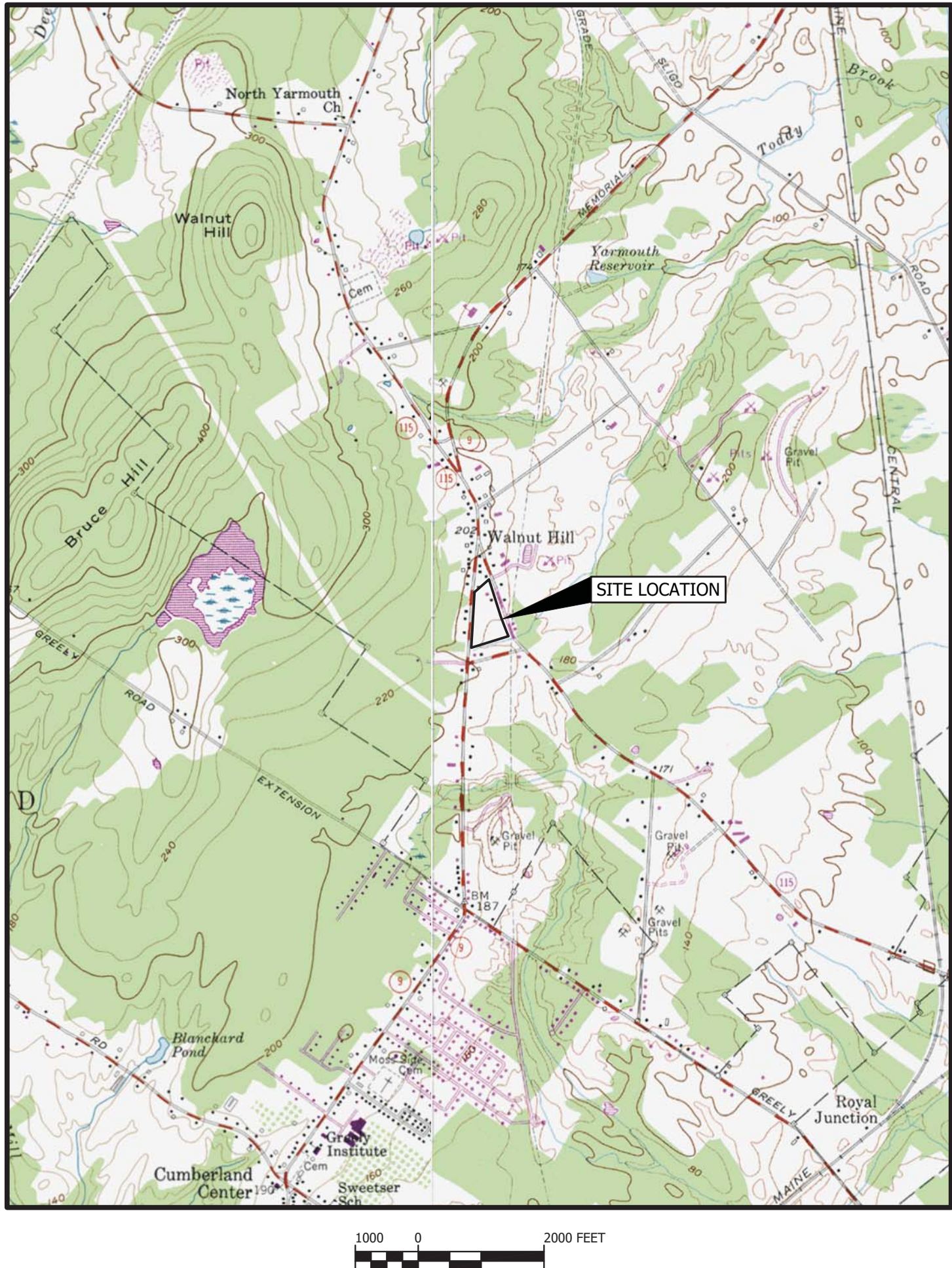
CROSSROAD APARTMENTS

352 WALNUT HILL ROAD

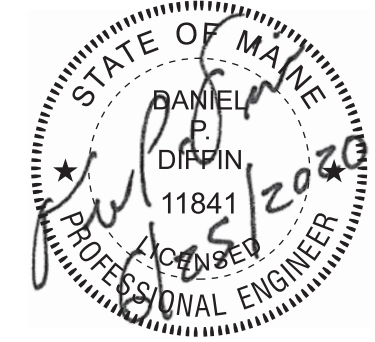
NORTH YARMOUTH, MAINE

TITLE	DWG NO
COVER SHEET	
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BOUNDARY SURVEY	Drwg. No. 1

LOCATION MAP



ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE
 4 Blanchard Road, PO Box 85A, Cumberland Center, Maine 04021
 Phone 207.829.5016 • Fax 207.829.5692 • smemaine.com



GENERAL SITE NOTES:

- EXISTING TOPOGRAPHY FROM PLAN TITLED "BOUNDARY SURVEY ON ROUTE 9 & ROUTE 115, NORTH YARMOUTH, MAINE, MADE FOR ROBERT C. HAZELTON, 352 WALNUT HILL ROAD, NORTH YARMOUTH, MAINE, PREPARED BY OWEN HASKELL, INC., DATED AUGUST 27, 2017, LATEST REVISION, 1/24/2020. STRUCTURES AND VEGETATION HAVE BEEN REMOVED SINCE SURVEY WAS PERFORMED, FIELD VERIFY PRIOR TO CONSTRUCTION.
- EXCAVATE AND STOCKPILE ON-SITE TOPSOIL. TOPSOIL IS TO REMAIN THE PROPERTY OF THE OWNER DURING CONSTRUCTION, AND SHALL NOT BE REMOVED FROM THE SITE. AFTER FINAL LOAM AND SEED EXCESS TOPSOIL SHALL BE REMOVED FROM SITE BY CONTRACTOR.
- PAVEMENT EDGES SHALL BE TRUE TO LINE. SAWCUT EXISTING PAVEMENT IN SMOOTH STRAIGHT LINE WHERE NEW PAVEMENT JOINS, PROVIDE TACK COAT LAYER AS SPECIFIED.
- PROVIDE TRAFFIC CONTROL SIGNAGE AND STRIPING AS SHOWN AND IN ACCORDANCE WITH U.S.D.O.T. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD MOST RECENT VERSION).
- HORIZONTAL DATUM: ASSUMED. VERTICAL DATUM: NAVD 88. THE EXISTING CONTOURS SHOWN ARE TAKEN FROM LIDAR AS AVAILABLE FROM MAINE GIS WEBSITE. NORTH ROTATION IS MAGNETIC, 1984.

GRADING NOTES:

- ADD 4" LOAM, SEED AND MULCH TO DISTURBED AREAS UNLESS OTHERWISE NOTED. PROVIDE EROSION CONTROL MESH ON ALL SLOPES STEEPER THAN 3:1, AND ALONG DITCH CHANNELS.
- MAINTAIN TEMPORARY EROSION CONTROL MEASURES FOR THE FULL DURATION OF CONSTRUCTION. INSPECT WEEKLY AND AFTER EACH STORM AND REPAIR AS NEEDED. REMOVE SEDIMENTS FROM THE SITE. PLACE IN AREA OF LOW EROSION POTENTIAL, AND STABILIZE WITH SEED AND MULCH.
- PLACE TEMPORARY SOIL STABILIZATION WITHIN 7 DAYS OF INITIAL DISTURBANCE. PLACE PERMANENT SOIL STABILIZATION WITHIN 7 DAYS OF FINAL GRADING.

UTILITY NOTES:

- THE ACCURACY AND COMPLETENESS OF SUBSURFACE INFORMATION IS NOT GUARANTEED. VERIFY SITE CONDITIONS INCLUDING TEST PITS FOR LOCATIONS AND INVERTS OF UTILITIES AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO PROCEEDING WITH THAT PORTION OF THE WORK.
- COORDINATE WORK ON UTILITY LINES OR WITHIN ROAD RIGHT-OF-WAY WITH THE UTILITY COMPANIES AND TOWN ROAD DEPARTMENT AND STATE MDT.
- ALL PIPING AND DRAINAGE STRUCTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE TOWN OF NORTH YARMOUTH MUNICIPAL STANDARDS.

SURVEYORS NOTES:

- OWNER OF RECORD: BRUCE W. HAZELTON
352 WALNUT HILL ROAD, NORTH YARMOUTH, MAINE
TAX MAP 4 LOT 18
CCRD BOOK 2851 PAGE 356
- BEARINGS ARE BASED ON PLAN REFERENCE 1, MAGNETIC 1984.
- ROUTE 9 RIGHT OF WAY IS BASED ON MARKERS FOUND ON PLAN REFERENCE 2. ROUTE 115 RIGHT OF WAY IS BASED ON AN ASSUMED SIDELINE AND PLAN REFERENCE 1.
- WETLANDS AND TEST PIT DATA PROVIDED BY MARK CENCI GEOLOGIC, INC. ON JULY 10, 2017.

SURVEYOR PLAN REFERENCES:

- STANDARD BOUNDARY SURVEY ON ROUTE 115, NORTH YARMOUTH, MAINE MADE FOR ROBERT W. HAZELTON BY OWEN HASKELL, INC. DATED AUGUST 24, 1998.
- STATE OF MAINE DEPARTMENT OF TRANSPORTATION RIGHT OF WAY MAP STATE AID HIGHWAY NO. 2 (ROUTE 9) NORTH YARMOUTH CUMBERLAND COUNTY DATED JUNE 2004 D.O.T. FILE NO. 3-506

YARMOUTH WATER DISTRICT GENERAL NOTES:

- THE DEVELOPER SHALL BE RESPONSIBLE FOR OBTAINING ROAD OPENING PERMITS. THE DISTRICT WILL OBTAIN LOCATION PERMITS AS NECESSARY.
- ALL WORK AND MATERIALS SHALL MEET APPLICABLE AWWA/ANSI STANDARDS UNLESS OTHERWISE MODIFIED BY THE DISTRICT IN THE DISTRICT'S GUIDELINES, POLICIES, DETAILS, OR MATERIAL SPECIFICATIONS.
- TEST PITS SHALL BE EXCAVATED AT CROSSINGS WITH OTHER UTILITIES IN ADVANCE OF WATER MAIN CONSTRUCTION TO DETERMINE LOCATION AND DEPTH SUFFICIENTLY TO PERMIT ADJUSTMENT OF WATER MAIN ALIGNMENT AND DEPTH BY PIPE DEFLECTION.
- MINIMUM DEPTH OF COVER FOR ALL WATER MAINS AND SERVICES SHALL BE 5.5' - 6' FROM FINISHED GRADE UNLESS OTHERWISE DIRECTED BY THE DISTRICT.
- PROPOSED PIPELINE, VALVE, AND HYDRANT LOCATIONS ARE APPROXIMATE. FINAL LOCATION MAY BE ADJUSTED, WITH WRITTEN DISTRICT PERMISSION, AS REQUIRED TO AVOID CONFLICTS WITH OTHER UTILITIES AND STRUCTURES.
- EXISTING WATER MAINS TO BE ABANDONED IN PLACE SHALL BE CUT AND CAPPED WITH END PLUG OR END CAP.
- ALL FITTINGS, VALVES, AND HYDRANTS SHALL HAVE MECHANICAL JOINTS RESTRAINED WITH "GRIP-RINGS", "MEGALUG", "ROMAGRIP", OR OTHER PREVIOUSLY APPROVED RESTRAINERS.
- ANY PUSH-ON BELL JOINT WITHIN TWENTY FEET OF A FITTING REQUIRES A FIELD-LOK GASKET.
- CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING THE MAIN IN ACCORDANCE WITH AWWA C600, EXCEPTING THAT MAXIMUM PIPE DEFLECTION SHALL NOT EXCEED 75 PERCENT OF THE MAXIMUM ALLOWABLE DEFLECTION SPECIFIED.
- THE COMPLETED PIPING SYSTEM SHALL BE FILLED, FLUSHED, PRESSURE TESTED, AND DISINFECTED BY THE CONTRACTOR IN THAT ORDER. THESE TESTS ARE DETAILED IN ANSI/AWWA C651 AND AWWA C600. ONCE ALL TESTS HAVE PASSED THE MAIN CAN BE ACTIVATED. CHLORINATED WATER SHALL BE DECHLORINATED AND DISCHARGED IN COMPLIANCE WITH ALL LOCAL, STATE, AND FEDERAL STANDARDS AND REGULATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY DISTRICT VALVE OR HYDRANT WITHOUT THE EXPRESSED PRIOR PERMISSION OF THE DISTRICT.

DIG SAFE NOTES:

PRIOR TO EXCAVATION, VERIFY THE UNDERGROUND UTILITIES, PIPES, STRUCTURES AND FACILITIES. PROVIDE THE FOLLOWING MINIMUM MEASURES:

- PRE-MARK THE BOUNDARIES OF PLANNED EXCAVATION WITH WHITE PAINT, FLAGS OR STAKES, SO UTILITY CREWS KNOW WHERE TO MARK THEIR LINES.
- CALL DIG SAFE, AT 811, AT LEAST THREE BUSINESS DAYS - BUT NO MORE THAN 30 CALENDAR DAYS - BEFORE STARTING WORK. DO NOT ASSUME SOMEONE ELSE WILL MAKE THE CALL.
- IF BLASTING, NOTIFY DIG SAFE AT LEAST ONE BUSINESS DAY IN ADVANCE.
- WAIT THREE BUSINESS DAYS FOR LINES TO BE LOCATED AND MARKED WITH COLOR-CODED PAINT, FLAGS OR STAKES. NOTE THE COLOR OF THE MARKS AND THE TYPE OF UTILITIES THEY INDICATE. TRANSFER THESE MARKS TO THE AS-BUILT DRAWINGS.
- CONTACT THE LANDOWNER AND OTHER "NON-MEMBER" UTILITIES (WATER, SEWER, GAS, ETC.). FOR THEM TO MARK THE LOCATIONS OF THEIR UNDERGROUND FACILITIES. TRANSFER THESE MARKS TO THE AS-BUILT DRAWINGS.
- RE-NOTIFY DIG SAFE AND THE NON-MEMBER UTILITIES IF THE DIGGING, DRILLING OR BLASTING DOES NOT OCCUR WITHIN 30 CALENDAR DAYS, OR IF THE MARKS ARE LOST DUE TO WEATHER CONDITIONS, SITE WORK ACTIVITY OR ANY OTHER REASON.
- HAND DIG WITHIN 18 INCHES IN ANY DIRECTION OF ANY UNDERGROUND LINE UNTIL THE LINE IS EXPOSED. MECHANICAL METHODS MAY BE USED FOR INITIAL SITE PENETRATION, SUCH AS REMOVAL OF PAVEMENT OR ROCK.
- DIG SAFE REQUIREMENTS ARE IN ADDITION TO TOWN, CITY, AND/OR STATE DOT STREET OPENING PERMIT REQUIREMENTS.
- FOR COMPLETE DIG SAFE REQUIREMENTS, CALL THE PUC OR VISIT THEIR WEBSITE.
- IF YOU DAMAGE, DISLOCATE OR DISTURB ANY UNDERGROUND UTILITY LINE, IMMEDIATELY NOTIFY THE AFFECTED UTILITY. IF DAMAGE CREATES SAFETY CONCERNS, CALL THE FIRE DEPARTMENT AND TAKE IMMEDIATE STEPS TO SAFEGUARD HEALTH AND PROPERTY.
- ANY TIME AN UNDERGROUND LINE IS DAMAGED OR DISTURBED OR IF LINES ARE IMPROPERLY MARKED, YOU MUST FILE AN INCIDENT REPORT WITH THE P.U.C. FOR AN INCIDENT REPORT FORM VISIT WWW.STATE.ME.US/MPUC OR CALL THE PUC AT 1-800-452-4699.

TYPICAL ABBREVIATIONS:

ACOMP	ASPHALT COATED CMP	EA	EACH	OC	ON CENTER
ACP	ASBESTOS CEMENT PIPE	EG	EXISTING GROUND OR GRADE	OD	OUTSIDE DIAMETER
AC	ACRE	ELEC	ELECTRIC	PC	POINT OF CURVE
AGG	AGGREGATE	EL	ELEVATION	PD	PERIMETER DRAIN
ALUM	ALUMINUM	ELB	ELBOW	PI	POINT OF INTERSECTION
APPO	APPROVED	EOP	EDGE OF PAVEMENT	PV	POST INDICATOR VALVE
APPROX	APPROXIMATE	EQUIP	EQUIPMENT	PJ	PACK JOINT
ARMH	AIR RELEASE MANHOLE	EST	ESTIMATED	PT	POINT OF TANGENT
ASB	ASBESTOS	EXC	EXCAVATE	PERF	PERFORATED
ASP	ASPHALT	EXIST	EXISTING	PP	POWER POLE
AUTO	AUTOMATIC			PSI	POUNDS PER SQUARE INCH
AUX	AUXILIARY	FI	FIELD INLET	PVC	POLYVINYL CHLORIDE
AVE	AVENUE	FG	FINISH GRADE	PVMT	PAVEMENT
AZ	AZIMUTH	FBRGL	FIBERGLASS		
		FDN	FOUNDATION	QTY	QUANTITY
		FLEX	FLEXIBLE	RCP	REINFORCED CONCRETE PIPE
BCOMP	BITUMINOUS COATED CMP	FLG	FLANGE	ROW	RIGHT OF WAY
BM	BENCH MARK	FLR	FLOOR	RAD	RADIUS
BIT	BITUMINOUS	FPS	FEET PER SECOND	REQD	REQUIRED
BLDG	BUILDING	FT OR	FEET	RT	RIGHT
BOT	BOTTOM	FTG	FOOTING	RTE	ROUTE
BRG	BEARING			S	SLOPE
BV	BALL VALVE	GA	GAUGE	SCH	SCHEDULE
		GAL	GALLON	SF	SQUARE FEET
CB	CATCH BASIN	GALV	GALVANIZED	SHT	SHEET
CEN	CENTER	GPD	GALLONS PER DAY	SMH	SANITARY MANHOLE
CEM LIN	CEMENT LINED	GPM	GALLONS PER MINUTE	ST	STREET
CMP	CORRUGATED METAL PIPE			STA	STATION
CO	CLEAN OUT	HDP	HIGH DENSITY POLYETHYLENE	SY	SQUARE YARD
CO	CUBIC FEET	HORIZ	HORIZONTAL	TAN	TANGENT
CFS	CUBIC FEET PER SECOND	HP	HORSEPOWER	TDH	TOTAL DYNAMIC HEAD
CI	CAST IRON	HP	HORSEPOWER	TEMP	TEMPORARY
CL	CLASS	HYD	HYDRANT	TYP	TYPICAL
CONC	CONCRETE			UD	UNDERDRAIN
CONST	CONSTRUCTION	ID	INSIDE DIAMETER	V	VOLTS
CONTR	CONTRACTOR	IN OR	INCHES	VA TEE	VALVE ANCHORING TEE
CS	CURS STOP	INV	INVERT	VERT	VERTICAL
CTR	CENTER	INV EL	INVERT ELEVATION		
CTS	COPPER TUBING SIZE			WG	WATER GATE
CJ	COPPER	LB	POUND	W/	WITH
CY	CUBIC YARD	LC	LEACHATE COLLECTION	W/O	WITHOUT
		LD	LEAK DETECTION	YD	YARD
D	DEGREE OF CURVE	LD	LEAK DETECTION		
DBL	DOUBLE	LF	LINEAR FEET		
DEG OR °	DEGREE	LOC	LOCATION		
DEPT	DEPARTMENT	LT	LEACHATE TRANSPORT		
DI	DUCTILE IRON	MH	MANHOLE		
DIA OR □	DIAMETER	MJ	MECHANICAL JOINT		
DIM	DIMENSION	MAX	MAXIMUM		
DIST	DISTANCE	MFR	MANUFACTURE		
DN	DOWN	MIN	MINIMUM		
DR	DRAIN	MR	MALE IRON PIPE		
DWG	DRAWING	MISC	MISCELLANEOUS		
		MON	MONUMENT		
		NITC	NOT IN THIS CONTRACT		
		NTS	NOT TO SCALE		
		N/F	NOW OR FORMERLY		
		NO OR #	NUMBER		

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE	
	SETBACK	
	EASEMENT	
	IRON PIPE	
	BUILDING	
	EDGE OF PAVEMENT	
	VERTICAL CURB	
	WALKING PATH	
	CONTOUR	
	SPOT GRADE	
	FENCE	
	STORM DRAIN	
	CULVERT	
	UNDERDRAIN	
	CATCH BASIN	
	UTILITY POLE	
	UNDERGROUND UTILITY	
	TRANSFORMER	
	WATER LINE	
	HYDRANT	
	BLOW OFF VALVE	
	GATE VALVE	
	SIGN	
	CLUSTER MAILBOX	
	RIPRAP	
	TREELINE	
	TEST PIT	
	WETLAND	
	DRAINAGE FLOW	
	POTENTIAL SEPTIC BED	
	SEPTIC TANK OR FUJI CLEAN	
	PUMP STATION	

EROSION CONTROL LEGEND

	CATCH BASIN PROTECTION WITH SILTSACK
	SILT FENCE
	CHECK DAM
	STABILIZED ENTRANCE

	WALNUT HILL INVESTMENTS	
	CROSSROAD APARTMENTS 352 WALNUT HILL ROAD NORTH YARMOUTH, MAINE	
GENERAL NOTES, LEGEND, AND ABBREVIATIONS		
	DESIGN BY:	DPD
	DRAWN BY:	SJM
DATE:	5/2020	
CHECKED BY:	BDP	
LMN:	NONE	
CTB:	SME-STD	
ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE		
4 Blanchard Road, PO Box 85A, Cumberland, Maine 04021		
Phone 207.829.5016 • Fax 207.829.5692 • smemaine.com		
JOB NO. 19303.01	DWG FILE GEN-NOTES	C-100

REV.	BY	DATE	STATUS
	DPD	6/2020	REVISED PER PLANNING BOARD REVIEW COMMENTS
	DPD	5/2020	ISSUED TO TOWN FOR PLANNING BOARD REVIEW
REV.	BY	DATE	STATUS

EROSION CONTROL NOTES:

A. GENERAL

- All soil erosion and sediment control will be done in accordance with: (1) the Maine Erosion and Sediment Control Handbook: Best Management Practices, Maine Department of Environmental Protection (MDEP), October 2016.
- The site Contractor (to be determined) will be responsible for the repair/replacement/maintenance of all erosion control measures until all disturbed areas are stabilized.
- Disturbed areas will be permanently stabilized within 7 days of final grading. Disturbed areas not to be worked upon within 14 days of disturbance will be temporarily stabilized within 7 days of the disturbance.
- In all areas, removal of trees, bushes and other vegetation, as well as disturbance of topsoil will be kept to a minimum while allowing proper site operations.
- Any suitable topsoil will be stripped and stockpiled for reuse as directed by the Owner. Topsoil will be stockpiled in a manner such that natural drainage is not obstructed and no off-site sediment damage will result. In any event, stockpiles will not be located within 100 feet of wetlands and will be at least 50 feet upgradient of the stockpile's perimeter silt fence. The sideslopes of the topsoil stockpile will not exceed 2:1. Silt fence will be installed around the perimeter of all topsoil stockpiles. Topsoil stockpiles will be surrounded with siltation fencing and will be temporarily seeded with Aroostook rye, annual or perennial ryegrass within 7 days of formation, or temporarily mulched.

B. TEMPORARY MEASURES

1. STABILIZED CONSTRUCTION ENTRANCE/EXIT

A crushed stone stabilized construction entrance/exit will be placed at any point of vehicular access to the site, in accordance with the detail shown on this sheet.

2. SILT FENCE

- Silt fence will be installed prior to all construction activity, where soil disturbance may result in erosion. Silt fence will be erected at locations shown on the plans and/or downgradient of all construction activity.
- Silt fences will be removed when they have served their useful purpose, but not before the upgradient areas have been permanently stabilized.
- Silt fences will be inspected immediately after each rainfall and at least daily during prolonged rainfall. They will be inspected if there are any signs of erosion or sedimentation below them. Any required repairs will be made immediately. If there are signs of undercutting at the center or the edges, or impounding of large volumes of water behind them, they will be replaced with a temporary crushed stone check dam.
- Sediment deposits will be removed after each storm event if significant build-up has occurred or if deposits exceed half the height of the barrier.

3. STONE CHECK DAMS

Stone check dams will be installed in grass-lined swales and ditches during construction.

4. BARK MULCH SEDIMENT BARRIER

- Where approved, bark mulch sediment barriers may be used as a substitute for silt fence. See the details in this drawing set for specifications.
- Rock Filter Berms: To provide more filtering capacity or to act as a velocity check dam, a berm's center can be composed of clean crushed rock ranging in size from the french drain stone to riprap.

5. TEMPORARY SEEDING

Stabilize disturbed areas that will not be brought to final grade for a year or less and reduce problems associated with mud and dust production from exposed soil surface during construction with temporary vegetation.

6. TEMPORARY MULCHING

Use temporary mulch in the following locations and/or circumstances:

- In sensitive areas (within 100 feet of streams, wetlands and in lake watersheds) temporary mulch will be applied within 7 days of exposing spill or prior to any storm event.
- Apply temporary mulch within 14 days of disturbance or prior to any storm event in all other areas.
- Areas which have been temporarily or permanently seeded will be mulched immediately following seeding.
- Areas which cannot be seeded within the growing season will be mulched for over-winter protection and the area will be seeded at the beginning of the growing season.
- Mulch can be used in conjunction with tree, shrub, vine, and ground cover plantings.
- Mulch anchoring will be used on slopes greater than 5 percent in late fall (past October 15), and over-winter (October 15 - April 15).

The following materials may be used for temporary mulch:

- Hay or Straw material shall be air-dried, free of seeds and coarse material. Apply 2 bales/1,000 sf or 1.5 to 2 tons/acre to cover 90% of ground surface.
- Erosion Control Mix: It can be used as a stand-alone reinforcement:
 - on slopes 2 horizontal to 1 vertical or less;
 - on frozen ground or forested areas; and
 - at the edge of gravel parking areas and areas under construction.
- Erosion control mix alone is not suitable:
 - on slopes with groundwater seepage;
 - at low points with concentrated flows and in gullies;
 - at the bottom of steep perimeter slopes exceeding 100 feet in length;
 - below culvert outlet aprons; and around catch basins and closed storm systems.

d. Chemical Mulches and Soil Binders: Wide ranges of synthetic spray-on materials are marketed to protect the soil surface. These are emulsions that are mixed with water and applied to the soil. They may be used alone, but most often are used to hold wood fiber, hydro-mulches or straw to the soil surface.

e. Erosion Control Blankets and Mats: Mats are manufactured combinations of mulch and netting designed to retain soil moisture and modify soil temperature. During the growing season (April 15 to October 15) use mats indicated on drawings or North American Green (NAG) S75 (or mulch and netting) on:

- the base of grassed waterways;
- steep slopes (15 percent or greater); and
- any disturbed soil within 100 feet of lakes, streams, or wetlands.

During the late fall and winter (October 15 to April 15) use heavy grade mats indicated on drawings for NAG SC250 on all areas noted above plus use lighter grade mats NAG S75 (or mulch and netting) on:

- sideslopes of grassed waterways; and moderate slopes (between 8 and 15 percent).

C. TEMPORARY DUST CONTROL

To prevent the blowing and movement of dust from exposed soil surfaces, and reduce the presence of dust, use water or calcium chloride to control dusting by preserving the moisture level in the road surface materials.

D. CONSTRUCTION DE-WATERING

- Water from construction de-watering operations shall be cleaned of sediment before reaching wetlands, water bodies, streams or site boundaries. Utilize temporary sediment basins, erosion control soil filter berms backed by staked hay bales, A Dirt Bag 55" sediment filter bag by ACF Environmental, or other approved Best Management Practices (BMP's).
- In sensitive areas near streams or ponds, discharge the water from the de-watering operation into a temporary sediment basin created by a surrounding filter berm of uncompacted erosion control mix immediately backed by staked hay bales (see the site details). Locate the temporary sediment basin at least 100 feet from the nearest water body, such that the filtered water will flow through undisturbed vegetated soil areas prior to reaching the water body or property line.

E. PERMANENT MEASURES

- Riprapped Aprons: All storm drain pipe outlets and the inlet and outlet of culverts will have riprap aprons to protect against scour and deterioration.
- Topsoil, Seed, and Mulch: All areas disturbed during construction, but not subject to other restoration (paving, riprap, etc.) will be loamed, limed, fertilized, seeded, and mulched.

Seeded Preparation: Use stockpiled materials spread to the depths shown on the plans, if available. Approved topsoil substitutes may be used. Grade the site as needed.

- Seeding will be completed by August 15 of each year. Late season seeding may be done between August 15 and October 15. Areas not seeded or which do not obtain satisfactory growth by October 15, will be seeded with Aroostook Rye or mulched. After November 1, or the first killing frost, disturbed areas will be seeded at double the specified application rates, mulched, and anchored.

PERMANENT SEEDING SPECIFICATIONS

Mixture:	Roadside (lbs/acre)	Lawn (lbs/acre)
Kentucky Bluegrass	20	55
White Clover	5	0
Creeping Red Fescue	20	55
Perennial Ryegrass	5	15

- Mulch in accordance with specifications for temporary mulching.

c. If permanent vegetated stabilization cannot be established due to the season of the year, all exposed and disturbed areas not to undergo further disturbance are to have dormant seeding applied and be temporarily mulched to protect the site.

3. Ditches and Channels: All ditches on-site will be lined with North American Green S75 erosion control mesh (or an approved equal) upon installation of loam and seed.

F. WINTER CONSTRUCTION AND STABILIZATION

1. Winter excavation and earthwork will be completed so as to minimize exposed areas while satisfactorily completing the project. Limit exposed areas to those areas in which work is to occur during the following 15 days and that can be mulched in one day prior to any snow event. All areas will be considered denuded until the subbase gravel is installed in roadway areas or the areas of future loam and seed have been loamed, seeded, and mulched.

Install any added measures necessary to control erosion/sedimentation. The particular measure used will be dependent upon site conditions, the size of the area to be protected, and weather conditions.

To minimize areas without erosion control protection, continuation of earthwork operations on additional areas will not begin until the exposed soil surface on the area being worked has been stabilized.

2. Natural Resource Protection: During winter construction, a double-row of sediment barriers (i.e., silt fence backed with hay bales or erosion control mix) will be placed between any natural resource and the disturbed area. Projects crossing the natural resource will be protected a minimum distance of 100 feet on either side from the resource.

3. Sediment Barriers: During frozen conditions, sediment barriers may consist of erosion control mix berms or any other recognized sediment barriers as frozen soil prevents the proper installation of hay bales or silt fences.

4. Mulching:

- All areas will be considered to be denuded until seeded and mulched. Hay and straw mulch will be applied at a rate of twice the normal accepted rate.
- Mulch will not be spread on top of snow.
- After each day of final grading, the area will be properly stabilized with anchored hay or straw or erosion control matting.
- Between the dates of November 1 and April 15, all mulch will be anchored by either mulch netting, emulsion chemical, tracking or wood cellulose fiber.

5. Soil Stockpiling: Stockpiles of soil or subsoil will be mulched for over-winter protection with hay or straw at twice the normal rate or with a 4-inch layer of erosion control mix. This will be done within 24 hours of stocking and re-established prior to any rainfall or snowfall. Any soil stockpiles shall not be placed (even covered with mulch) within 100 feet from any natural resources.

6. Seeding: Dormant seeding may be placed prior to the placement of mulch or erosion control blankets. If dormant seeding is used for the site, all disturbed areas will receive 4 inches of loam and seed at an application rate of three times the rate for permanent seeding. All areas seeded during the winter will be inspected in the spring for adequate catch. All areas insufficiently vegetated (less than 75 percent catch) will be revegetated by replacing loam, seed, and mulch.

If dormant seeding is not used for the site, all disturbed areas will be revegetated in the spring.

7. Maintenance: Maintenance measures will be applied as needed during the entire construction season. After each rainfall, snow storm, or period of thawing and runoff, the site Contractor will perform a visual inspection of all installed erosion control measures and perform repairs as needed to ensure their continuous function.

Following the temporary and/or final seeding and mulching, the Contractor will, in the spring, inspect and repair any damages and/or bare spots. An established vegetative cover means a minimum of 85 to 90 percent of areas vegetated with vigorous growth.

G. OVER-WINTER CONSTRUCTION EROSION CONTROL MEASURES

- Stabilization of Disturbed Soil: By October 15, all disturbed soils on areas having a slope less than 15 percent will be seeded and mulched. If the Contractor fails to stabilize these soils by this date, then the Contractor shall stabilize the soil for late fall and winter, by using either temporary seeding or mulching.

2. Stabilization of Disturbed Slopes: All slopes to be vegetated will be completed by October 15. The Owner will consider any area having a grade greater than 15 percent (6.5H:1V) to be a slope. Slopes not vegetated by October 15 will receive one of the following actions to stabilize the slope for late fall and winter:

- Stabilize the soil with temporary vegetation and erosion control mesh.
- Stabilize the slope with erosion control mix.
- Stabilize the slope with stone riprap.

3. Stabilization of Ditches and Channels: All stone-lined ditches and channels to be used to convey runoff through the winter will be constructed and stabilized by November 15. Grass-lined ditches and channels will be complete by September 15. Grass-lined ditches not stabilized by September 15 shall be lined with either sod or riprap.

H. MAINTENANCE PLAN

1. Routine Maintenance: Inspection will be performed as outlined in the project's Erosion Control Plan. Inspection will be by a qualified person during wet weather to ensure that the facility performs as intended. Inspection priorities will include checking erosion controls for accumulation of sediments.

1. Housekeeping

1. Spill prevention. Controls must be used to prevent pollutants from being discharged from materials on site, including storage practices to minimize exposure of the materials to stormwater, and appropriate spill prevention, containment, and response planning and implementation.

2. 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.

3. Fugitive sediment and dust. Actions must be taken to ensure that activities do not result in noticeable erosion of soils or fugitive dust emissions during or after construction. Oil may not be used for dust control.

4. Debris and other materials. Litter, construction debris, and chemicals exposed to stormwater must be prevented from becoming a pollutant source.

5. Trench or foundation de-watering. Trench 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 must be removed from the ponded area, either through gravity or pumping, and 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.

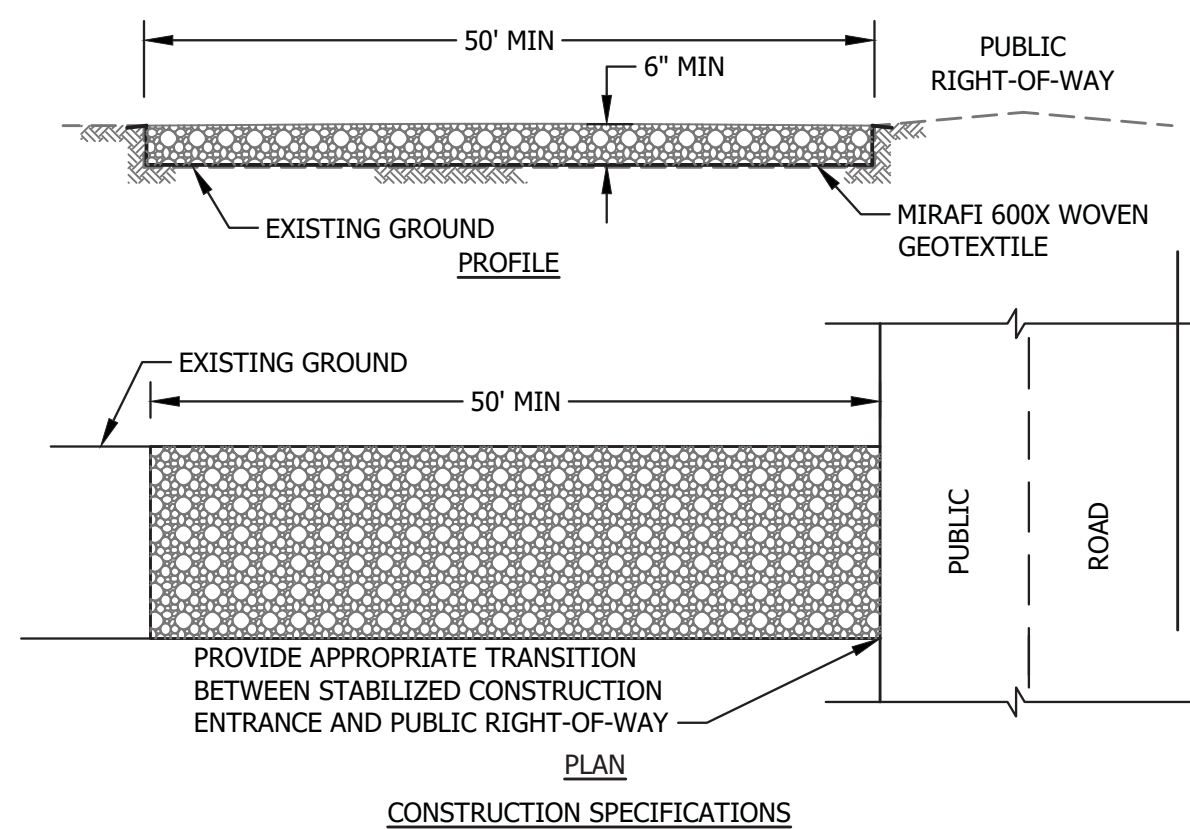
6. Non-stormwater discharges. Identify and prevent contamination by non-stormwater discharges.

7. Additional requirements. Additional requirements may be applied on a site-specific basis.

3. CONSTRUCTION SEQUENCE

In general, the expected sequence of construction for each phase is provided below. Construction is proposed to start in Spring 2019 and be complete in Fall 2019.

- Mobilization
- Install temporary erosion control measures
- Clearing and grubbing
- Construct access drive, site drainage, and utilities
- Site stabilization, pavement, loam and seed, and complete installation of level spreader
- Remove temporary erosion control measures after site stabilization



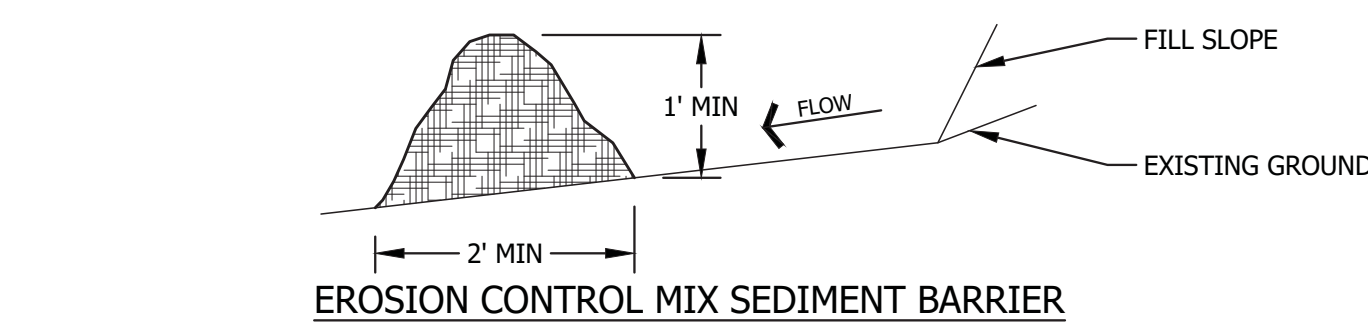
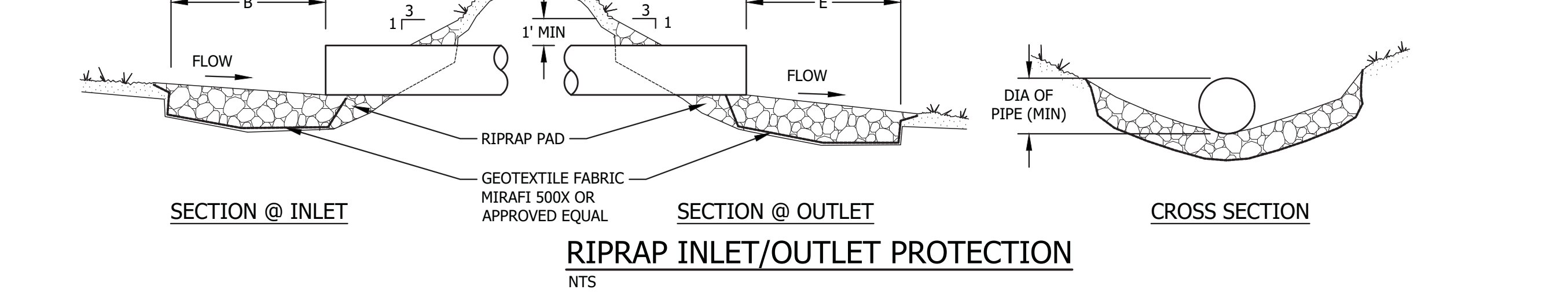
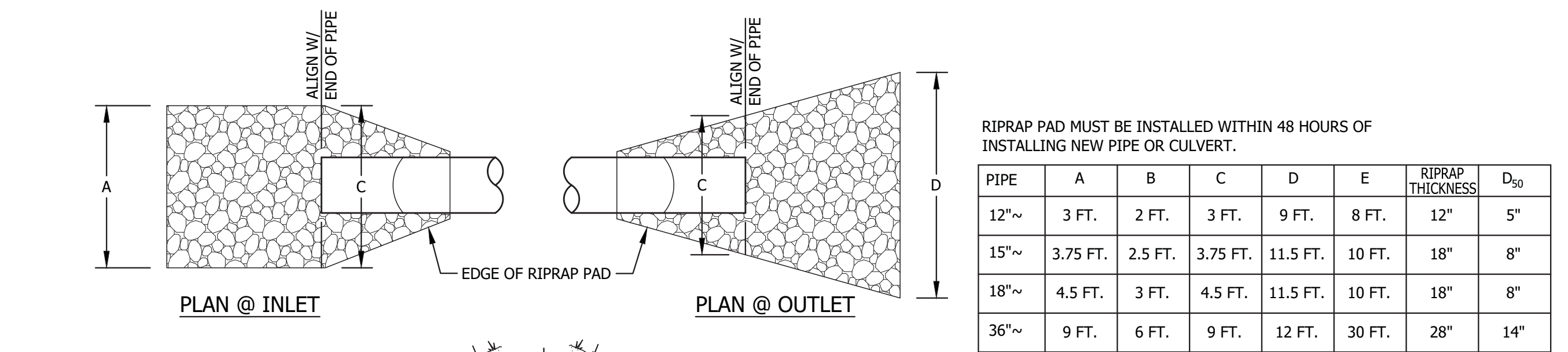
CONSTRUCTION SPECIFICATIONS

- STONE SIZE - 2" TO 3" STONE OR RECLAIMED OR RECYCLED CONCRETE, OR EQUIVALENT.
- LENGTH - AS EFFECTIVE, BUT NOT LESS THAN 50 FEET.
- THICKNESS - NOT LESS THAN SIX (6) INCHES.
- WIDTH - 10 FEET MINIMUM, OR NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.

6. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC REPAIR AND TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

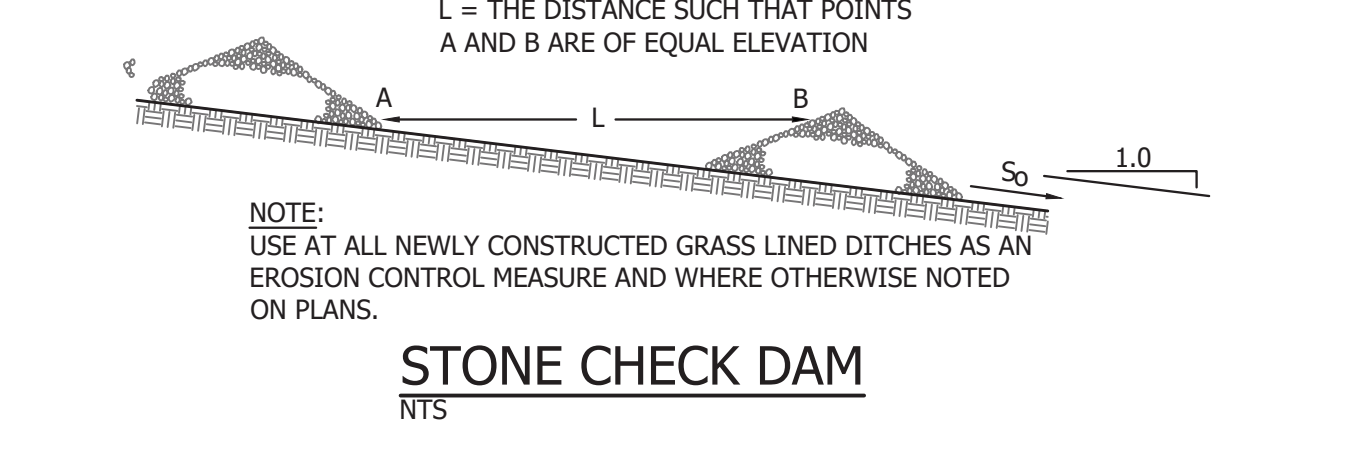
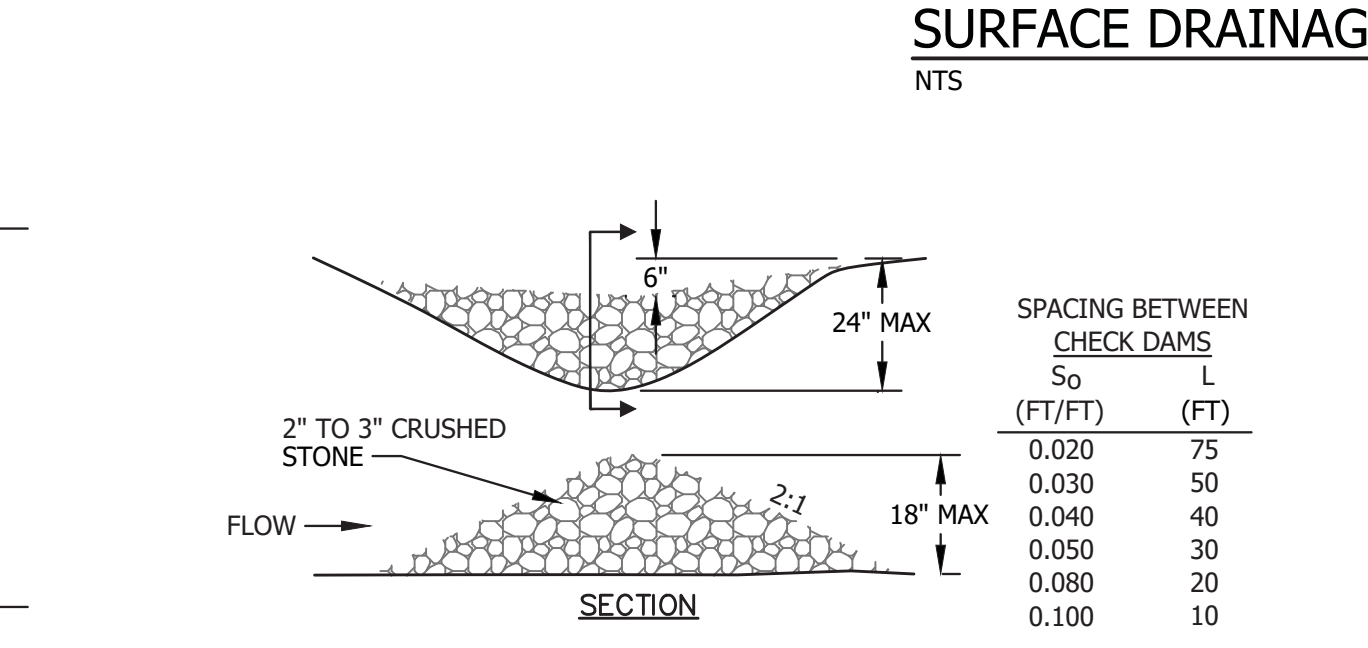
STABILIZED CONSTRUCTION ENTRANCE/EXIT

NTS



NOTES:

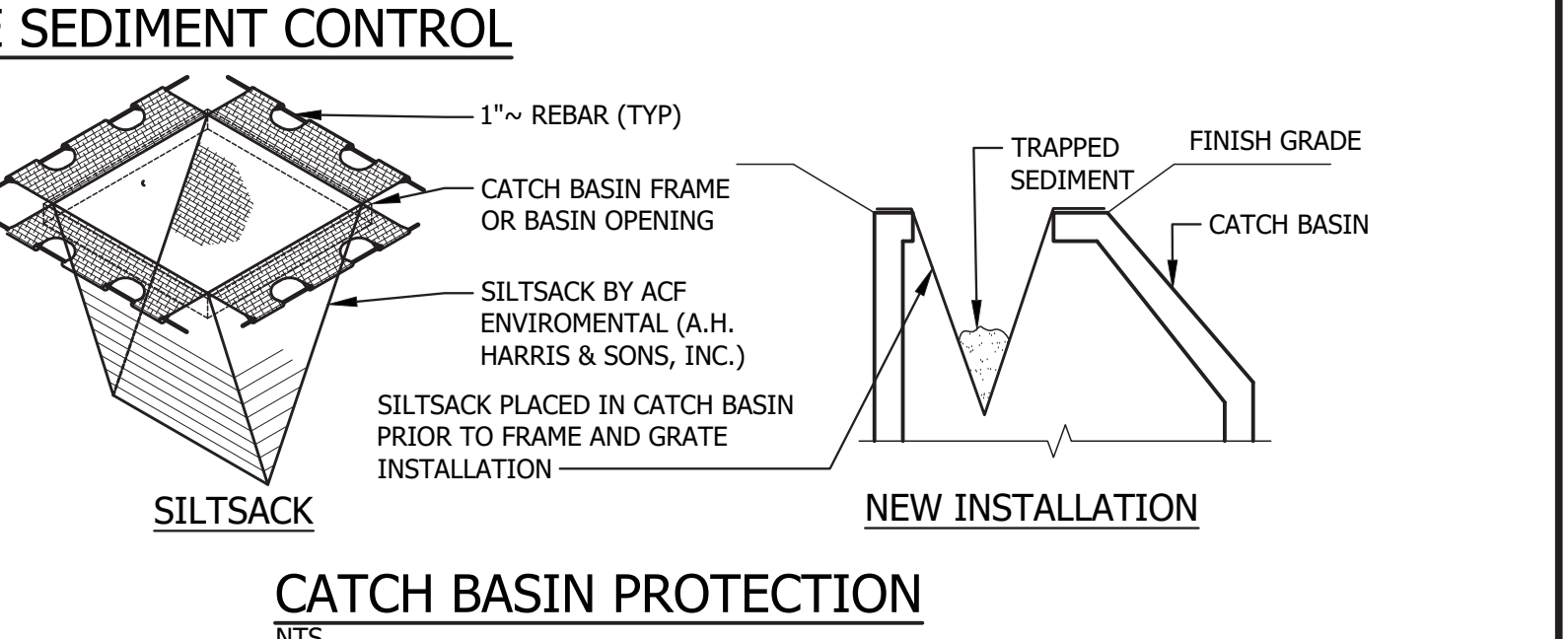
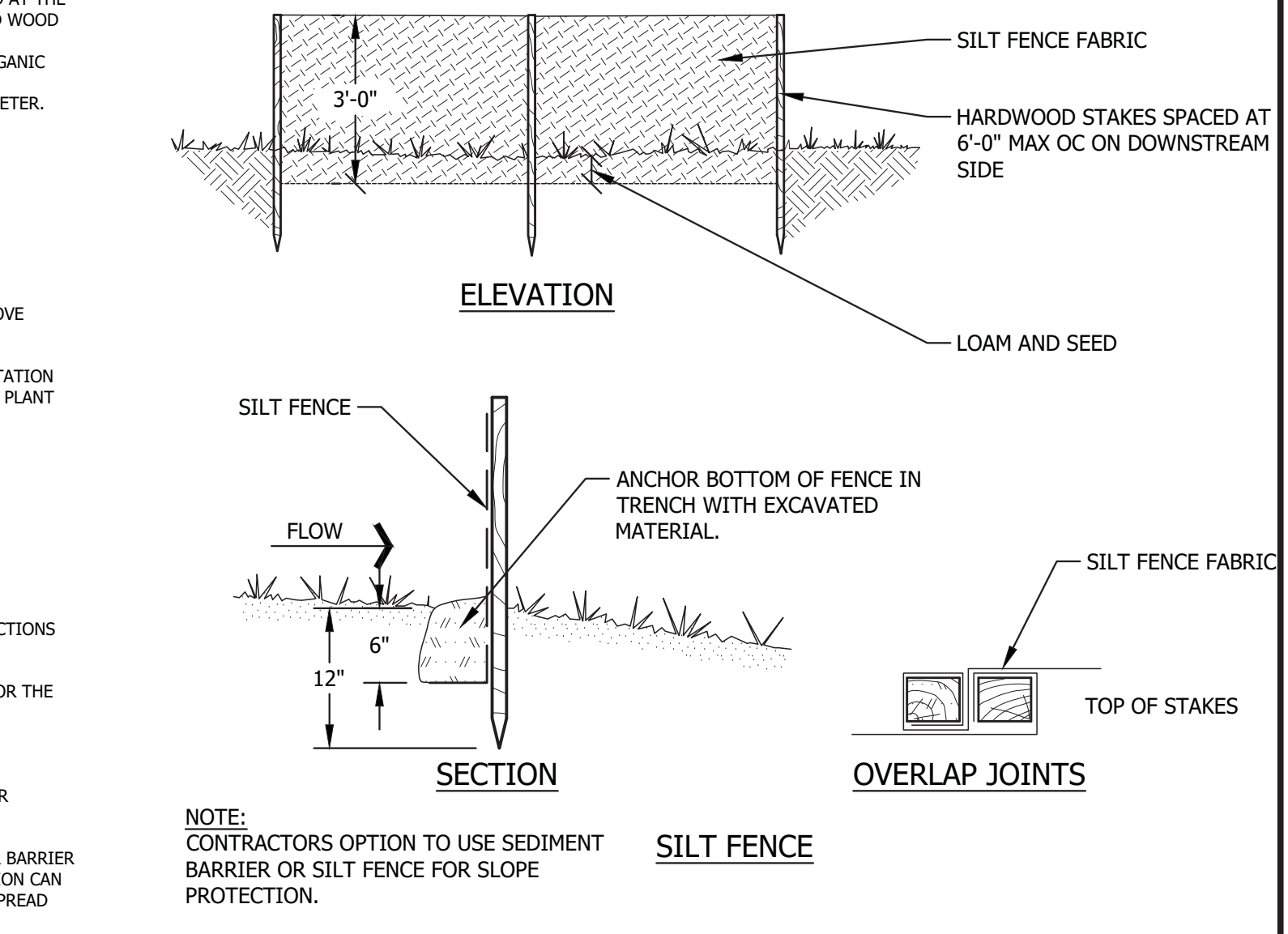
- EROSION CONTROL MIX CAN BE MANUFACTURED ON OR OFF THE SITE. IT MUST CONSIST PRIMARILY OF ORGANIC MATERIAL SEPARATED AT THE POINT OF GENERATION, AND MAY INCLUDE: SHREDDED BARK, STUMP GRINDINGS, COMPOSTED BARK, OR FLUME GRIT AND FRAGMENTED WOOD GENERATED FROM WATER-FLUME LOG HANDLING SYSTEMS. WOOD CHIPS, GROUND CONSTRUCTION DEBRIS, REPROCESSED WOOD PRODUCTS OR BARK CHIPS WILL NOT BE ACCEPTABLE AS THE ORGANIC COMPONENT OF THE MIX. EROSION CONTROL MIX SHALL CONTAIN A WELL-GRADED MIXTURE OF PARTICLE SIZES AND MAY CONTAIN ROCKS LESS THAN 4" IN DIAMETER. EROSION CONTROL MIX MUST BE FREE OF REFUSE, PHYSICAL CONTAMINANTS, AND MATERIAL TOXIC TO PLANT GROWTH. THE MIX COMPOSITION SHALL MEET THE FOLLOWING STANDARDS:
 - ORGANIC MATERIAL: BETWEEN 20% - 100% (DRY WEIGHT BASIS)
 - PARTICLE SIZE: BY WEIGHT, 100% PASSING 6" SCREEN, 70-85% PASSING 0.75" SCREEN
 - THE ORGANIC PORTION NEEDS TO BE FIBROUS AND ELONGATED.
 - LARGE PORTIONS OF SILTS, CLAYS OR FINE SANDS ARE NOT ACCEPTABLE IN THE MIX.
 - SOLUBLE SALTS CONTENT SHALL BE LESS THAN 4.0 MMHOS/CM.
 - PH: 5.0 - 8.0
- ON SLOPES LESS THAN 5% OR AT THE BOTTOM OF SLOPES 2:1 OR LESS UP TO 20 FEET LONG, THE BARRIER MUST CONFORM TO THE ABOVE DIMENSIONS. ON THE LONGER OR STEEPER SLOPES, THE BARRIER SHOULD BE WIDER TO ACCOMMODATE THE ADDITIONAL FLOW.
- THE BARRIER MUST BE PLACED ALONG A RELATIVELY LEVEL ELEVATION. IT MAY BE NECESSARY TO CUT TALL GRASSES OR WOODY VEGETATION TO AVOID CREATING VOIDS AND BRIDGES THAT WOULD ENABLE FINES TO WASH UNDER THE BARRIER THROUGH THE GRASS BLADES OR PLANT STEMS.
- LOCATIONS WHERE OTHER BMP'S SHOULD BE USED:
 - AT LOW POINTS OF CONCENTRATED FLOW
 - BELOW CULVERT OUTLET APRONS
 - WHERE A PREVIOUS STAND-ALONE EROSION CONTROL MIX APPLICATION HAS FAILED
 - AT THE BOTTOM OF STEEP PERIMETER SLOPES THAT ARE MORE THAN 50 FEET FROM TOP TO BOTTOM (LARGE UPGRADIENT WATERHEAD)
 - AROUND CATCH BASINS AND CLOSED STORM DRAIN SYSTEMS.
- THE EROSION CONTROL MIX BARRIERS SHOULD BE INSPECTED REGULARLY AND AFTER EACH LARGE RAINFALL. REPAIR ALL DAMAGED SECTIONS OF BERM IMMEDIATELY BY REPLACING OR ADDING ADDITIONAL MATERIAL PLACED ON THE BERM TO THE DESIRED HEIGHT AND WIDTH.
- IT MAY BE NECESSARY TO REINFORCE THE BARRIER WITH SILT FENCE OR STONE CHECK DAMS IF THERE ARE SIGNS OF UNDERCUTTING OR THE IMPOUNDMENT OF LARGE VOLUMES OF WATER.
- SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
- REPLACE SECTIONS OF BERM THAT DECOMPOSE, BECOME CLOGGED WITH SEDIMENT OR OTHERWISE BECOME INEFFECTIVE. THE BARRIER SHOULD BE RESHAPED AS NEEDED.
- EROSION CONTROL MIX BARRIERS CAN BE LEFT IN PLACE AFTER CONSTRUCTION. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER BARRIER IS NO LONGER REQUIRED SHOULD BE SPREAD TO CONFORM TO THE EXISTING GRADE AND BE SEEDED AND MULCHED. WOODY VEGETATION CAN BE PLANTED INTO THE BARRIERS, OR THEY CAN BE OVER-SEEDDED WITH LEGUMES. IF THE BARRIER NEEDS TO BE REMOVED, IT CAN BE SPREAD OUT INTO THE LANDSCAPE.



STONE CHECK DAM

NTS

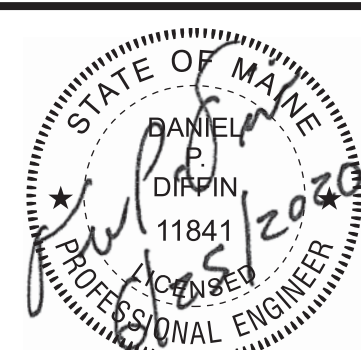
REV.	BY	DATE	STATUS
	DPD	6/2020	REVISED PER PLANNING BOARD REVIEW COMMENTS
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CATCH BASIN PROTECTION

NTS

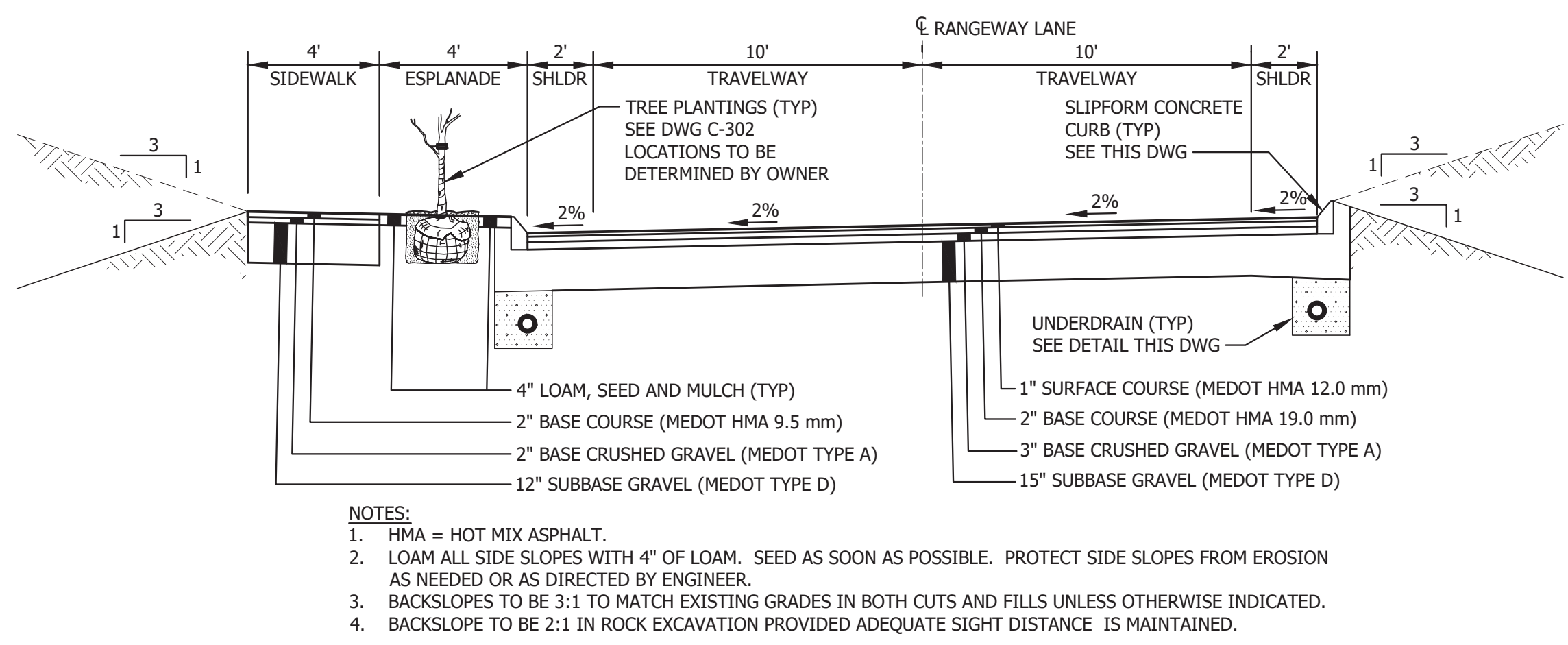
DESIGN BY:	JTR
DRAWN BY:	SJM
DATE:	5/2020
CHECKED BY:	BDP
LMN:	NONE
CTB:	SME-STD
JOB NO. 19303.016	DWG FILE DETAILS
C-300	



WALNUT HILL INVESTMENTS
CROSSROAD APARTMENTS
 352 WALNUT HILL ROAD
 NORTH YARMOUTH, MAINE

EROSION CONTROL NOTES AND DETAILS

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 4 Blanchard Road, PO Box 85A, Cumberland, Maine 04021
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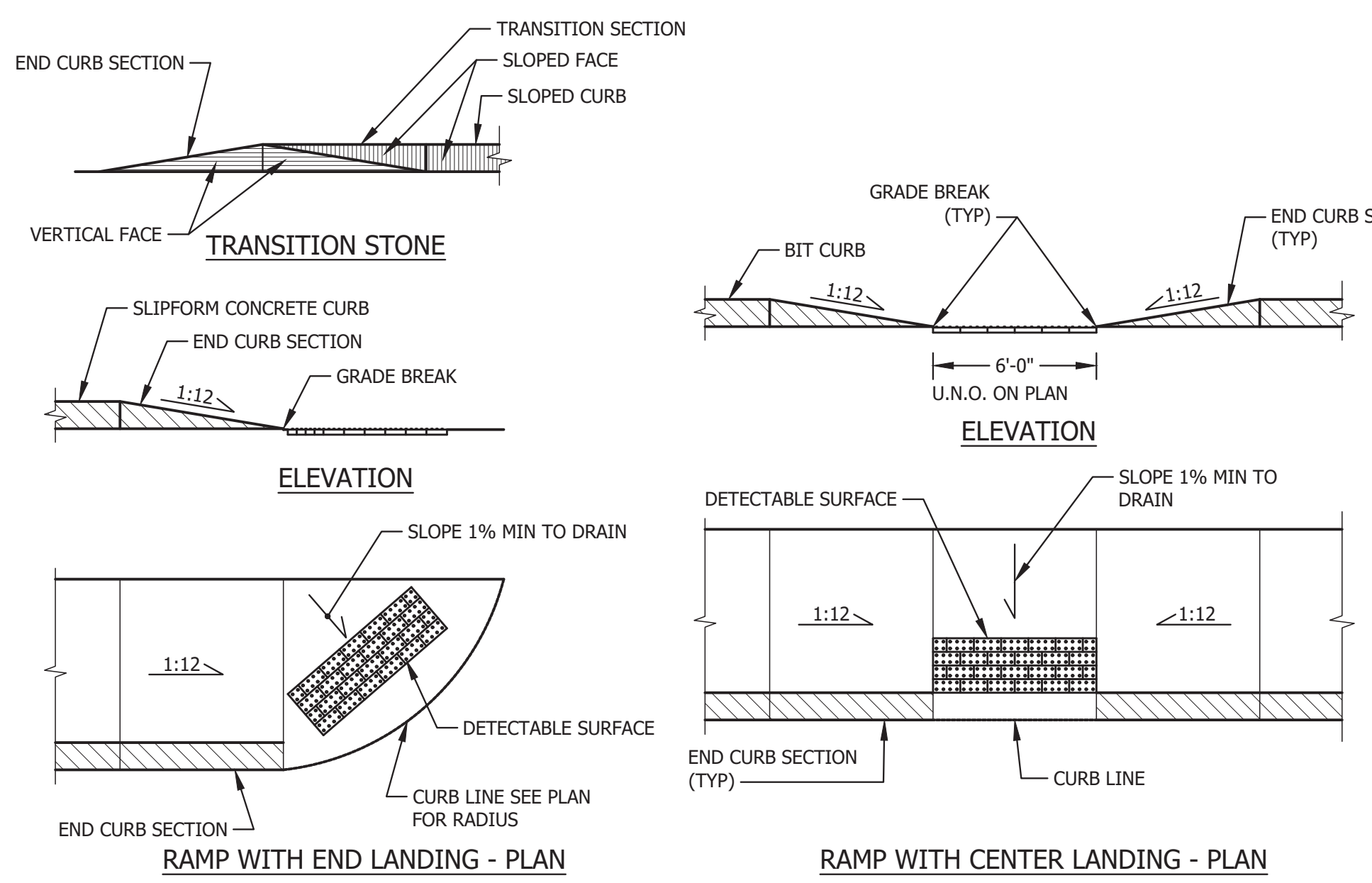
- NOTES:**
- HMA = HOT MIX ASPHALT.
 - LOAM ALL SIDE SLOPES WITH 4" OF LOAM. SEED AS SOON AS POSSIBLE. PROTECT SIDE SLOPES FROM EROSION AS NEEDED OR AS DIRECTED BY ENGINEER.
 - BACKSLOPES TO BE 3:1 TO MATCH EXISTING GRADES IN BOTH CUTS AND FILLS UNLESS OTHERWISE INDICATED.
 - BACKSLOPE TO BE 2:1 IN ROCK EXCAVATION PROVIDED ADEQUATE SIGHT DISTANCE IS MAINTAINED.

ACCESS DRIVE - TYPICAL ROAD SECTION
NTS

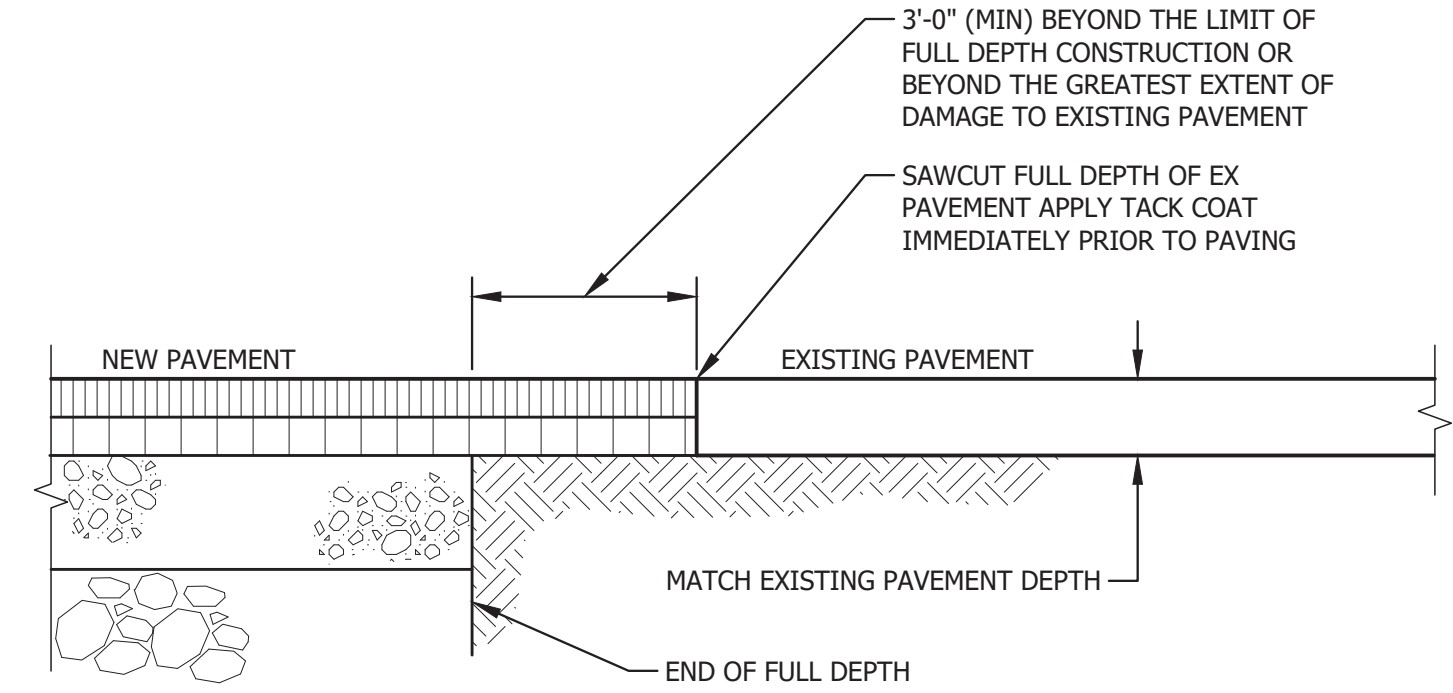
CONSTRUCTION	USE
<ul style="list-style-type: none"> 1" HMA MDOT 9.5mm 2" HMA MDOT 19.0mm 3" BASE CRUSHED GRAVEL, MDOT 703.06(a) TYPE A 15" SUBBASE GRAVEL, MDOT 703.06(b) TYPE D COMPACTED SUBGRADE 	BITUMINOUS ACCESS ROAD PARKING LOT
<ul style="list-style-type: none"> 2" BASE COURSE (HMA MDOT 9.5mm) 2" BASE CRUSHED GRAVEL (MEDOT TYPE A) 12" SUBBASE GRAVEL (MEDOT TYPE D) COMPACTED SUBGRADE 	BITUMINOUS SIDEWALKS
<ul style="list-style-type: none"> 8" CONC. SLAB W/ #4 @ 12" E.W. @ MIDHEIGHT OF SLAB THICKENED SLAB 2 - #4 CONT. 12" COMPACTED AGGREGATE BASE, MDOT 703.06(a) TYPE A 12" COMPACTED SUBGRADE 	CONCRETE EQUIPMENT PADS
<ul style="list-style-type: none"> 4" TOPSOIL, NO STONES OVER 3/4" DIA. GRANULAR MATERIAL IN FILL AREAS COMPACTED SUBGRADE 	GRASS ALL DISTURBED AREAS

- NOTES:**
- HMA = HOT MIX ASPHALT.
MDOT = MAINE DEPARTMENT OF TRANSPORTATION.
 - ALL COURSE THICKNESS AFTER FINAL COMPACTION.

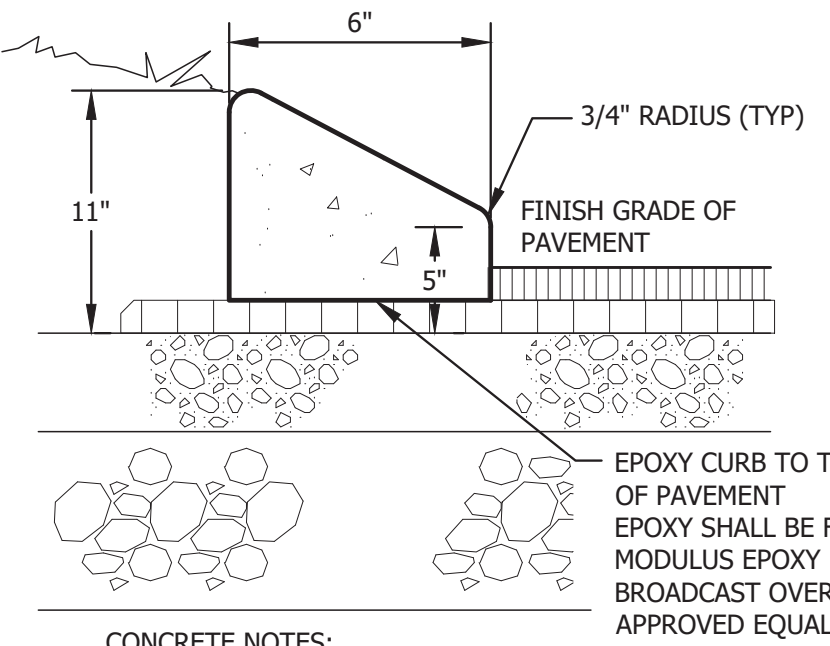
SCHEDULE OF SURFACE FINISHES
NTS



SIDEWALK RAMP WITH DETECTABLE WARNING
NTS

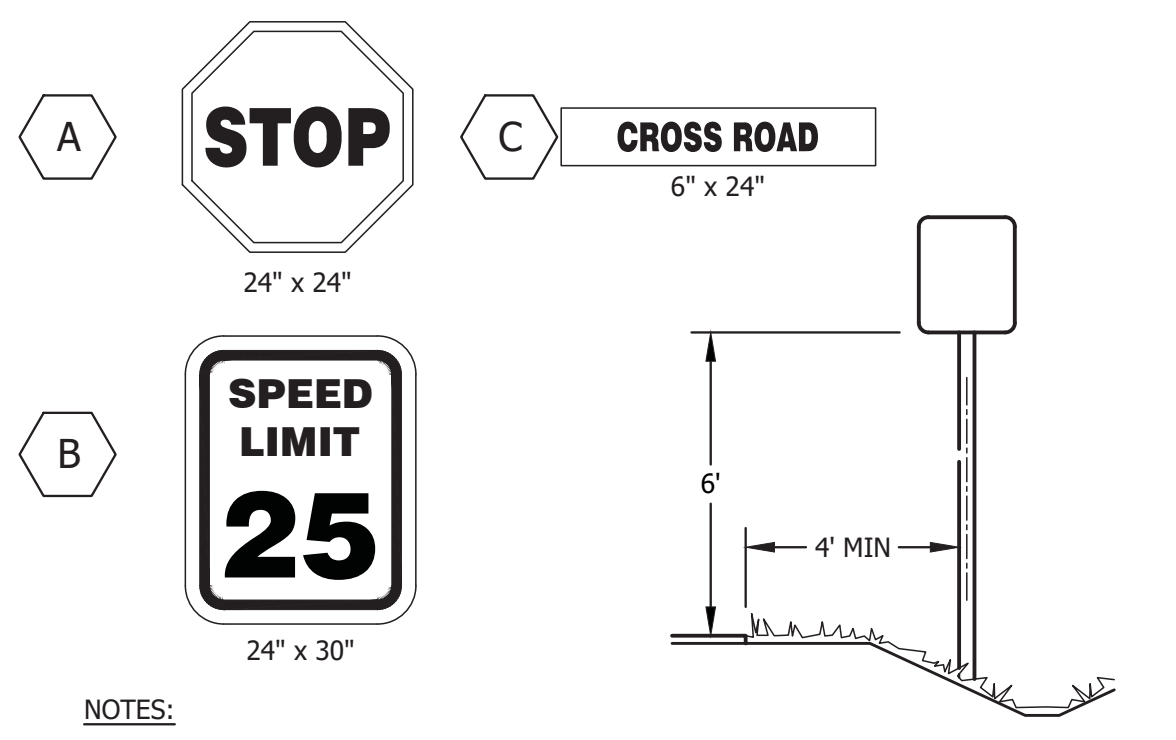


PAVEMENT CUTTING AND MATCHING
NTS



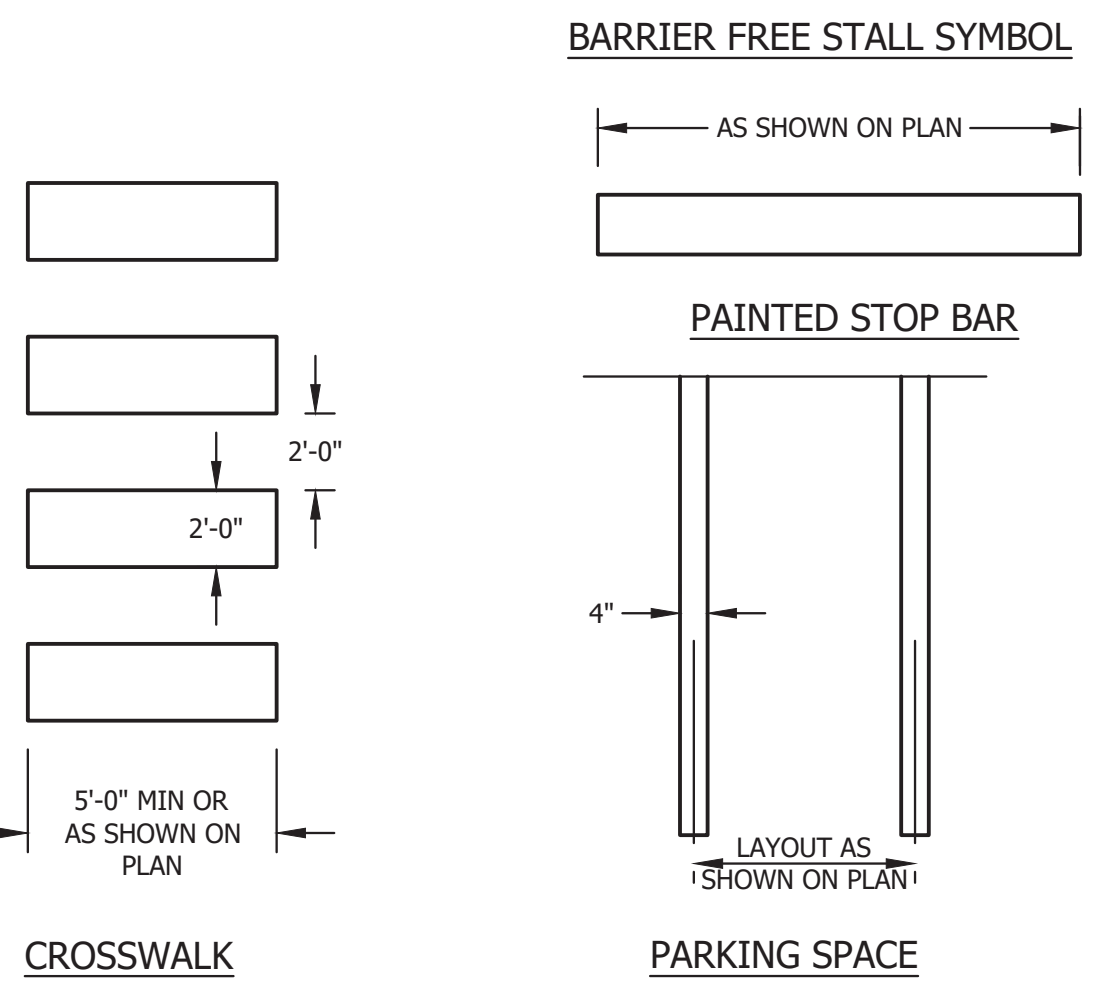
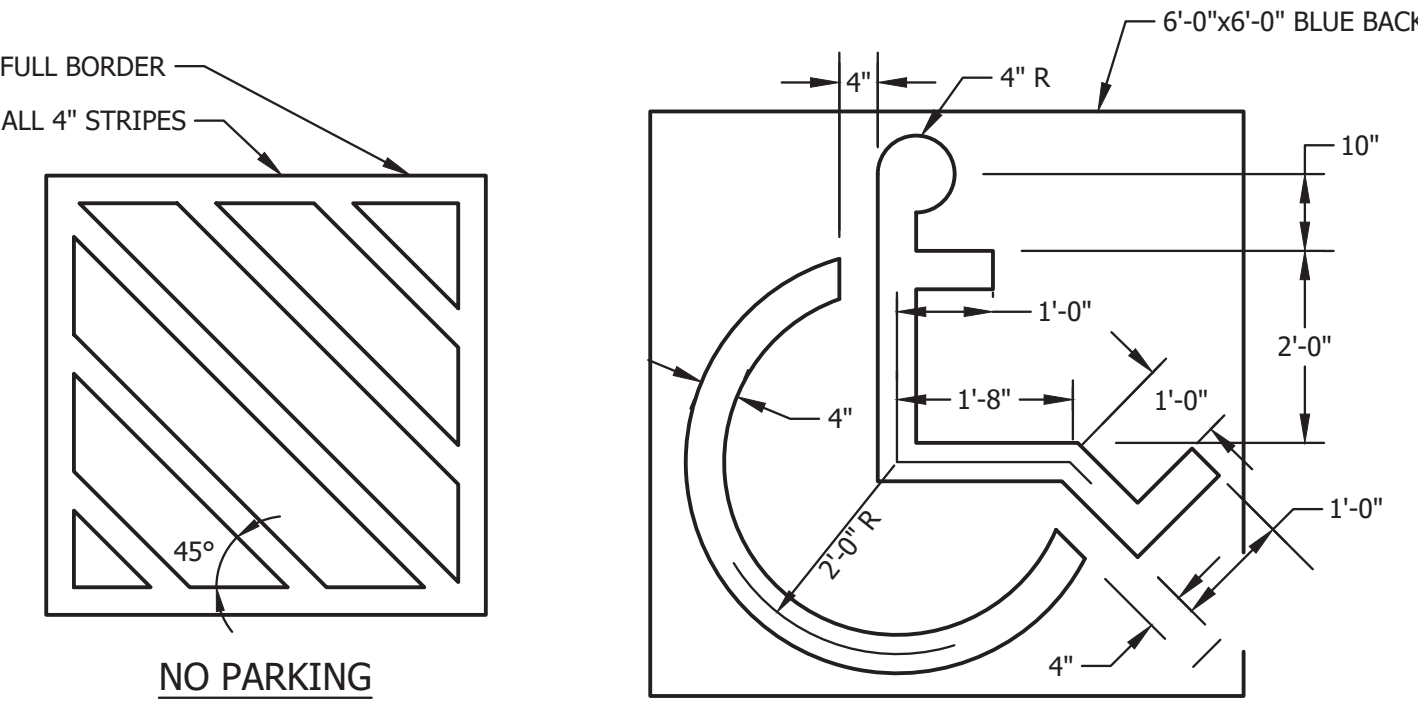
- CONCRETE NOTES:**
- MINIMUM 28 DAY COMPRESSIVE STRENGTH: 4,000 PSI
 - AIR ENTRAINMENT: 4% TO 6%
 - REINFORCING: FIBERMESH OR EQUIVALENT GRACE PRODUCT
 - STRAND LENGTH 1-1/2", 1" TO 1-1/2 LB/CUBIC YARD
 - SLUMP: 1" TO 1-1/2"
 - FINISH:
 - VERTICAL AND TOP FACES: SMOOTH SLIPFORM
 - SLOPED FACES: BROOM
 - JOINTS: SAWCUT 10' OC 3" DEEP THE DAY AFTER PLACING
 - SEALER: SALTGUARD OR EQUAL WATER BASED SEALER

SLIPFORM CONCRETE CURB
NTS



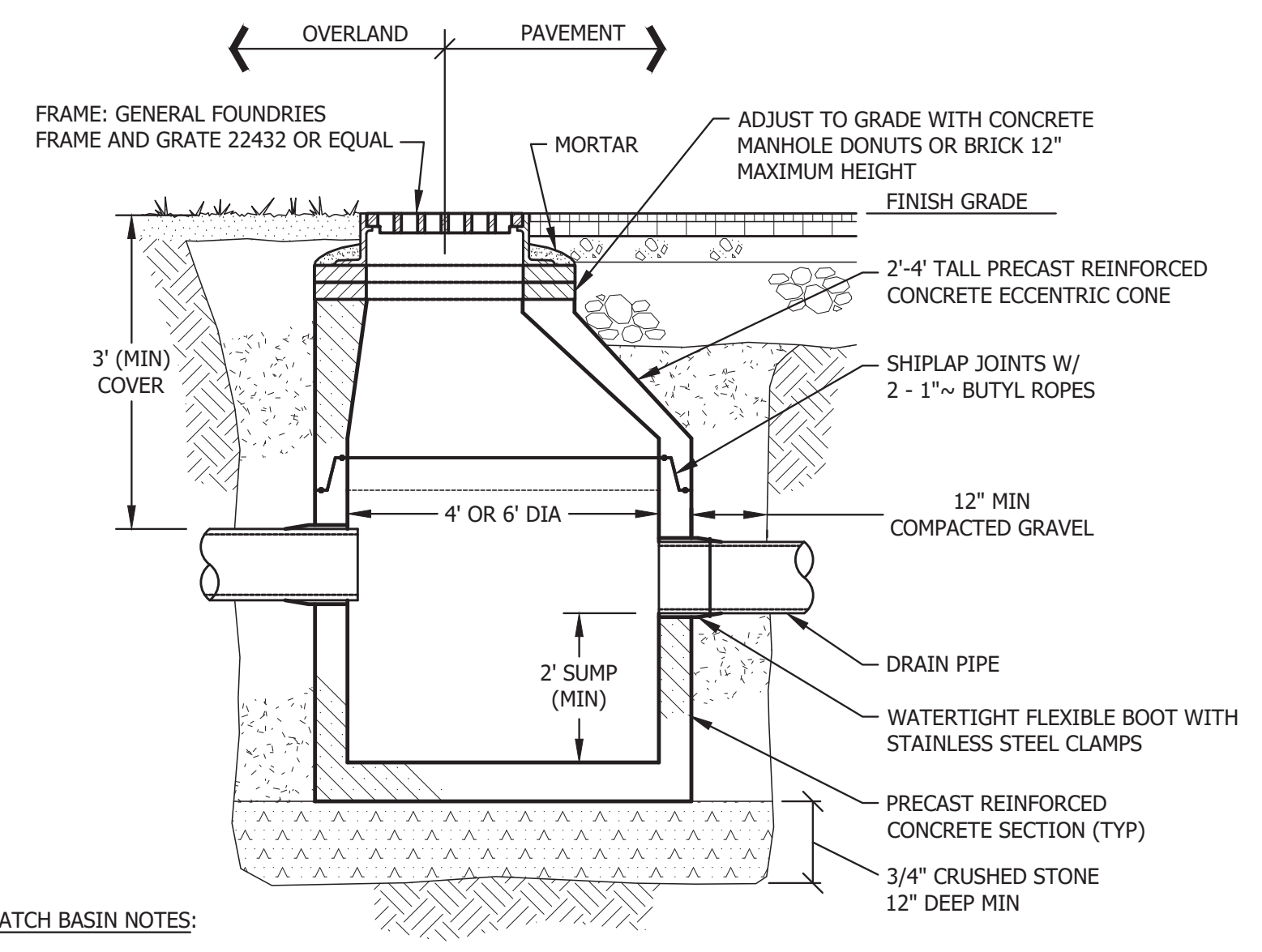
- NOTES:**
- SIGNS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, HIGHWAYS AND BRIDGES REVISION OF DECEMBER 2002, SECTION 645.
 - ALL PERMANENT SIGNS ON THIS PROJECT ARE CLASSIFIED UNDER SECTION 645.03(b) TYPE 1 REGULATORY WARNING AND ROUTE MARKER ASSEMBLY SIGNS.
 - SIGN MATERIAL SHALL BE AS SPECIFIED IN SECTION 719 OF THE MDOT STANDARD SPECIFICATIONS.
 - POSTS SHALL BE METAL CHANNELS AS SPECIFIED IN SECTION 720.08. ALTERNATE POSTS MAY BE 4"x6" WOOD AS SPECIFIED IN SECTION 720.12, AS APPROVED BY ENGINEER.
 - POSTS IN THE PUBLIC RIGHT-OF-WAY TO BE ON BREAKAWAY POSTS AS SPECIFIED IN SECTION 720 OF THE MDOT STANDARD SPECIFICATIONS.

ROAD SIGN LEGEND
NTS



CROSSWALK
PARKING SPACE

PAVEMENT STRIPING AND MARKINGS
NTS

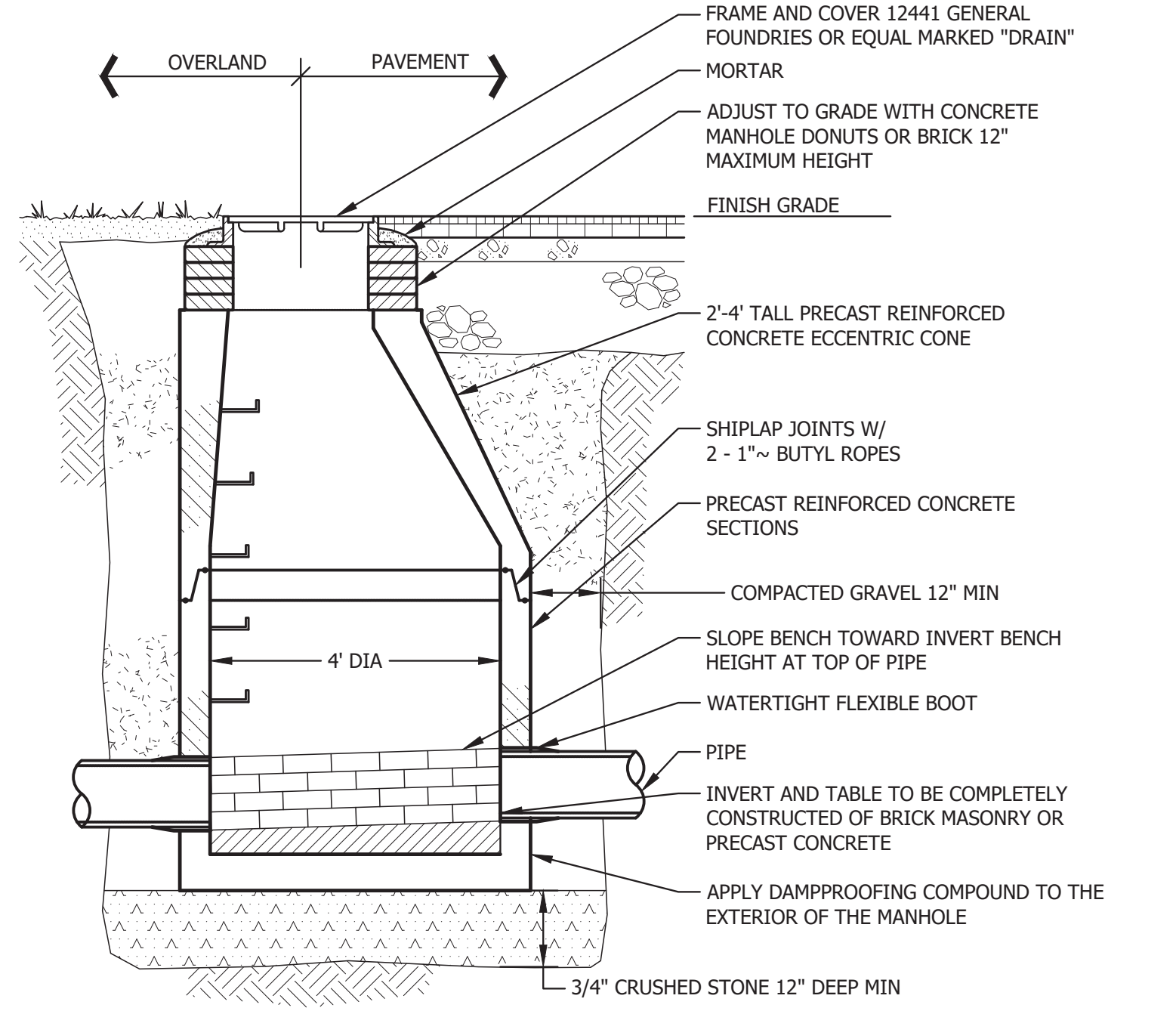


CATCH BASIN NOTES:
THE CONTRACTOR SHALL PROVIDE SUBMITTALS TO THE ENGINEER FOR APPROVAL. SUBMITTALS SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWING:

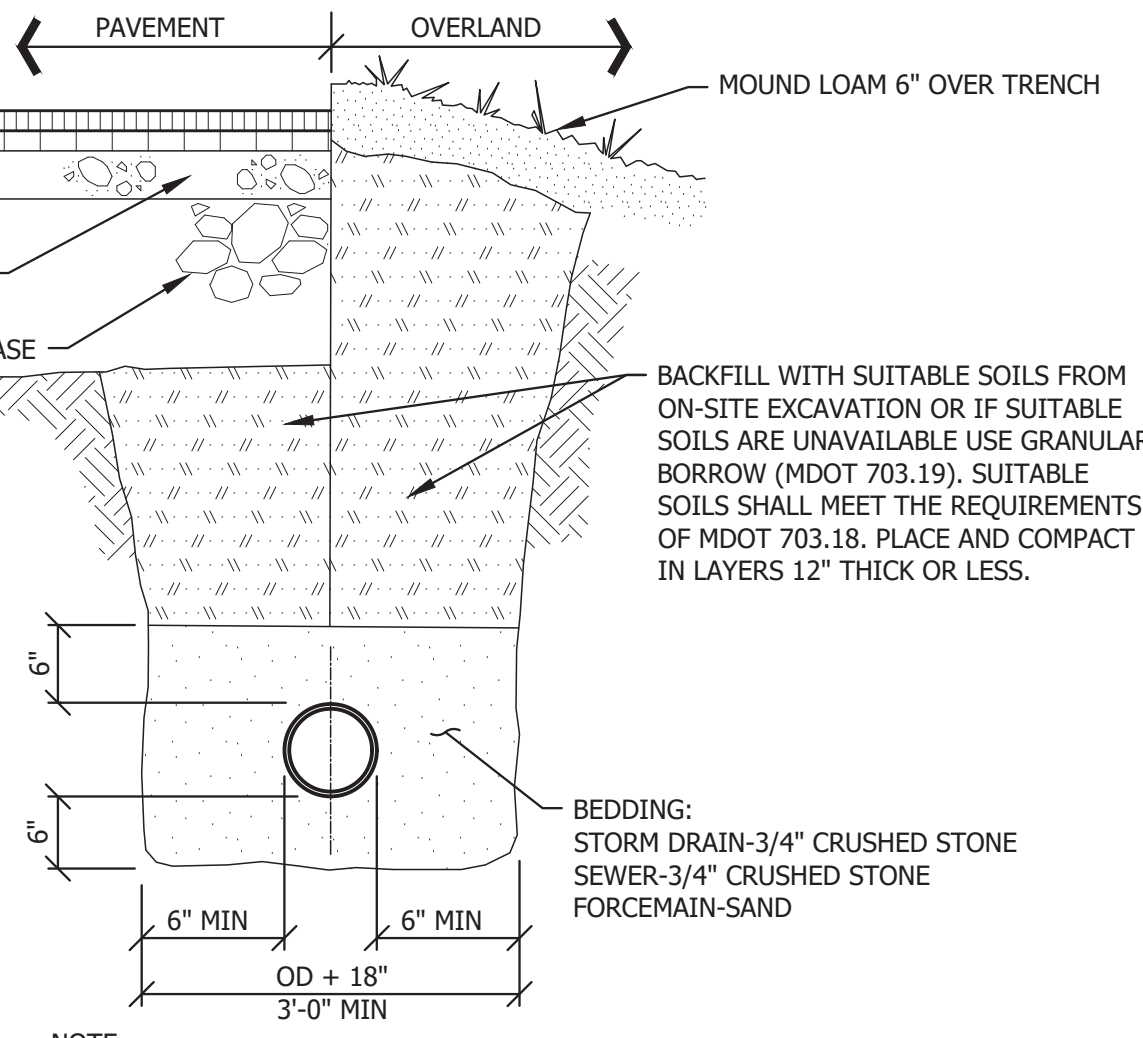
PRODUCT DATA: SUBMIT PRODUCT DATA FOR ALL MATERIALS USED ON THE JOB FOR REVIEW FOR LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH INFORMATION GIVEN AND DESIGN CONCEPT EXPRESSED IN CONTRACT DOCUMENTS.

SHOP DRAWINGS: SUBMIT FOR REVIEW SHOP DRAWINGS OF ALL PRECAST UNITS. MANUFACTURER'S INFORMATION SHALL BE SUBMITTED FOR JOINT SEALANTS AND WATERPROOFING. MANUFACTURE SHALL PROVIDE ANTI-FLOTATION DESIGN SHOP DRAWINGS AND CALCULATIONS, INCLUDING ANY EXTENDED BASE SLABS AS NECESSARY, FOR PROPOSED MANHOLES. MANUFACTURER SHALL ASSUME GROUNDWATER LEVELS EQUAL TOP OF GROUND ELEVATIONS AND PROVIDE FOR A 1.2 FACTOR OF SAFETY AGAINST FLOTATION.

CATCH BASIN
NTS



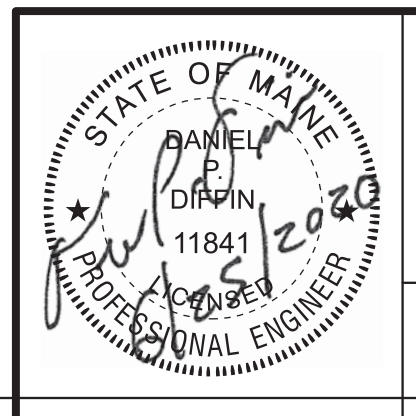
DRAINAGE MANHOLE
NTS



NOTE: MAINTAIN 5" MINIMUM COVER FOR ALL WATER MAINS. IF MINIMUM COVER NOT POSSIBLE, PROVIDE 2" RIGID EXTRUDED POLYSTYRENE INSULATION OVER PIPE. VERIFY WITH ENGINEER AND YARMOUTH WATER DISTRICT.

PIPE TRENCH
NTS

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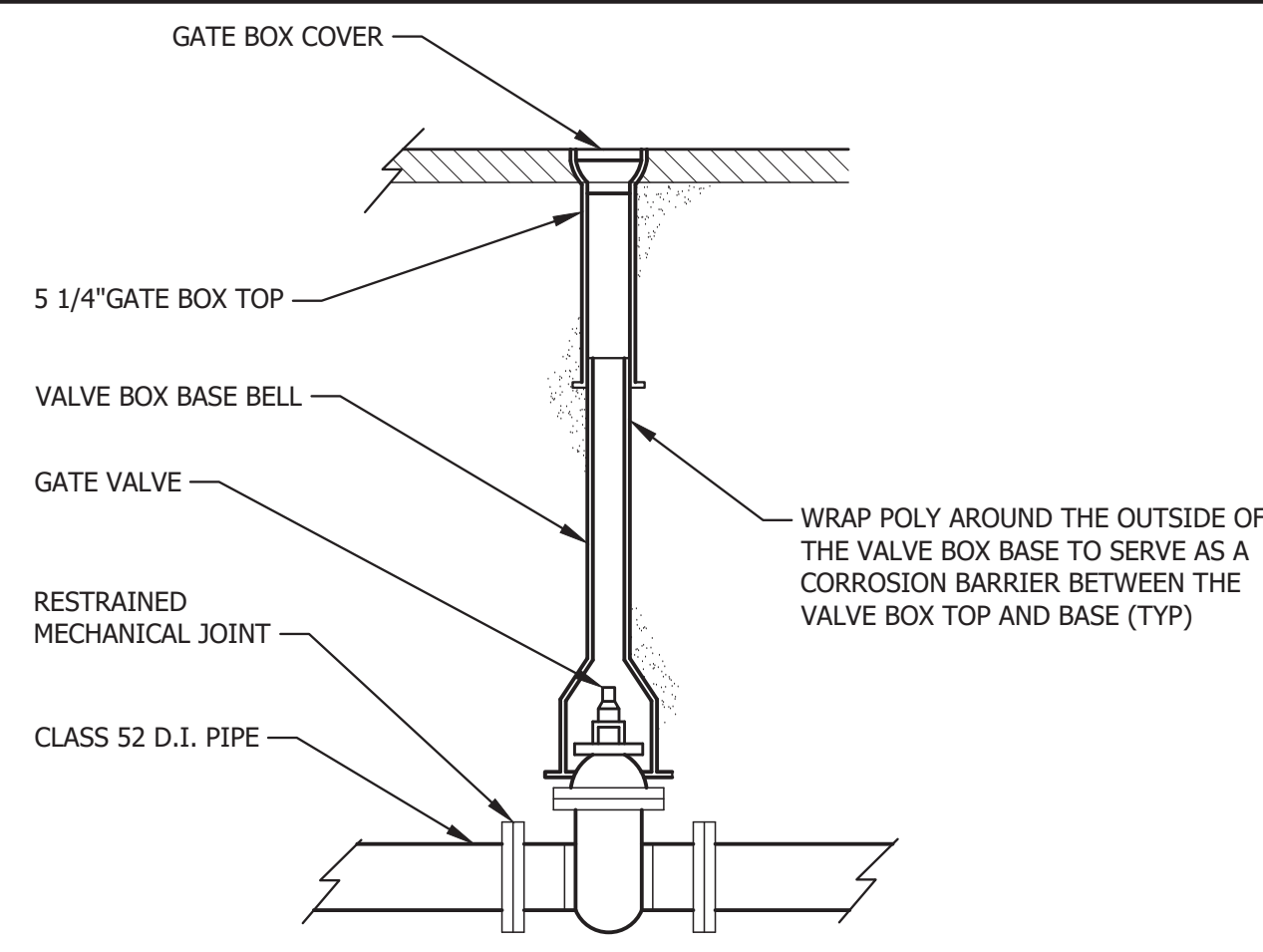
WALNUT HILL INVESTMENTS
CROSSROAD APARTMENTS
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NORTH YARMOUTH, MAINE

SECTIONS AND DETAILS

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DESIGN BY: JTR
DRAWN BY: SJM
DATE: 5/2020
CHECKED BY: BDP
LMN: NONE
CTB: SME-STD

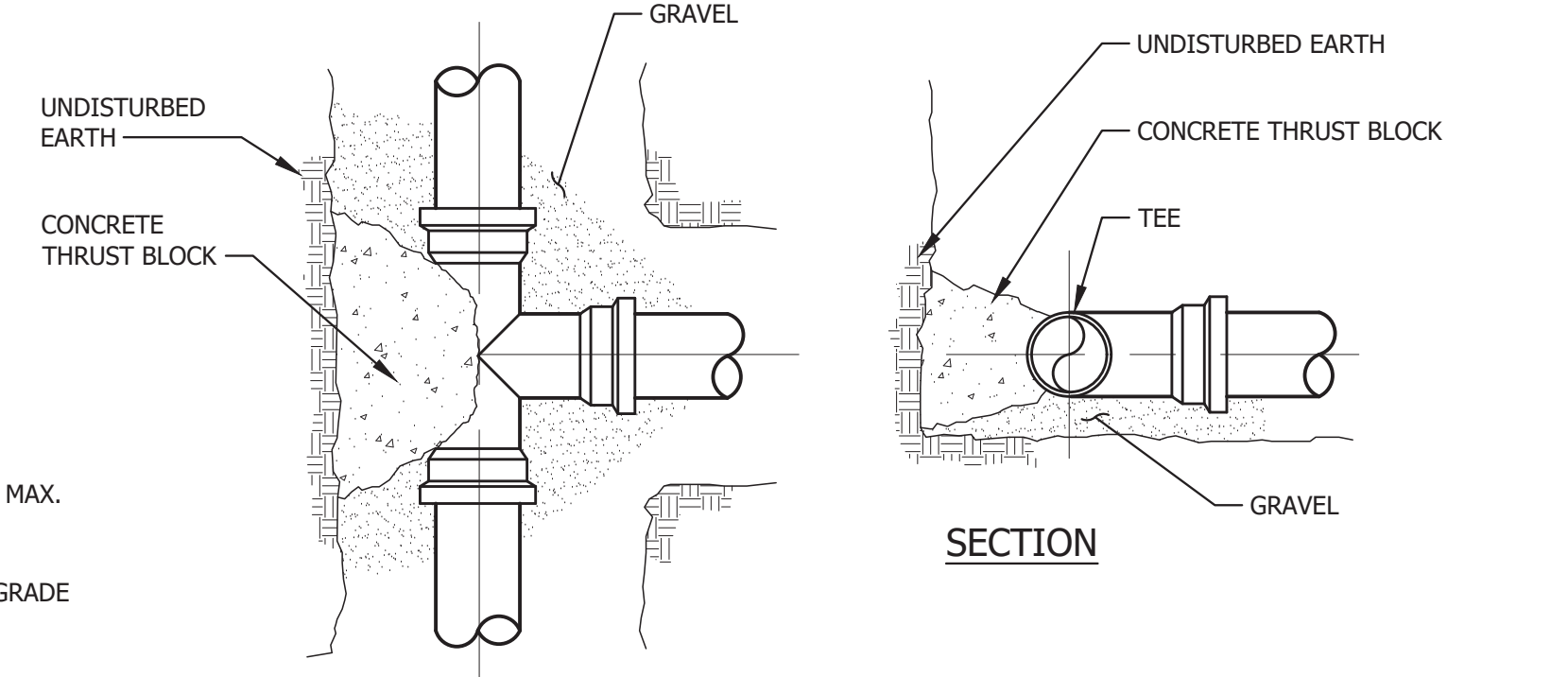
JOB NO. 19303.01 DWG FILE DETAILS **C-301**



GATE VALVE
NTS

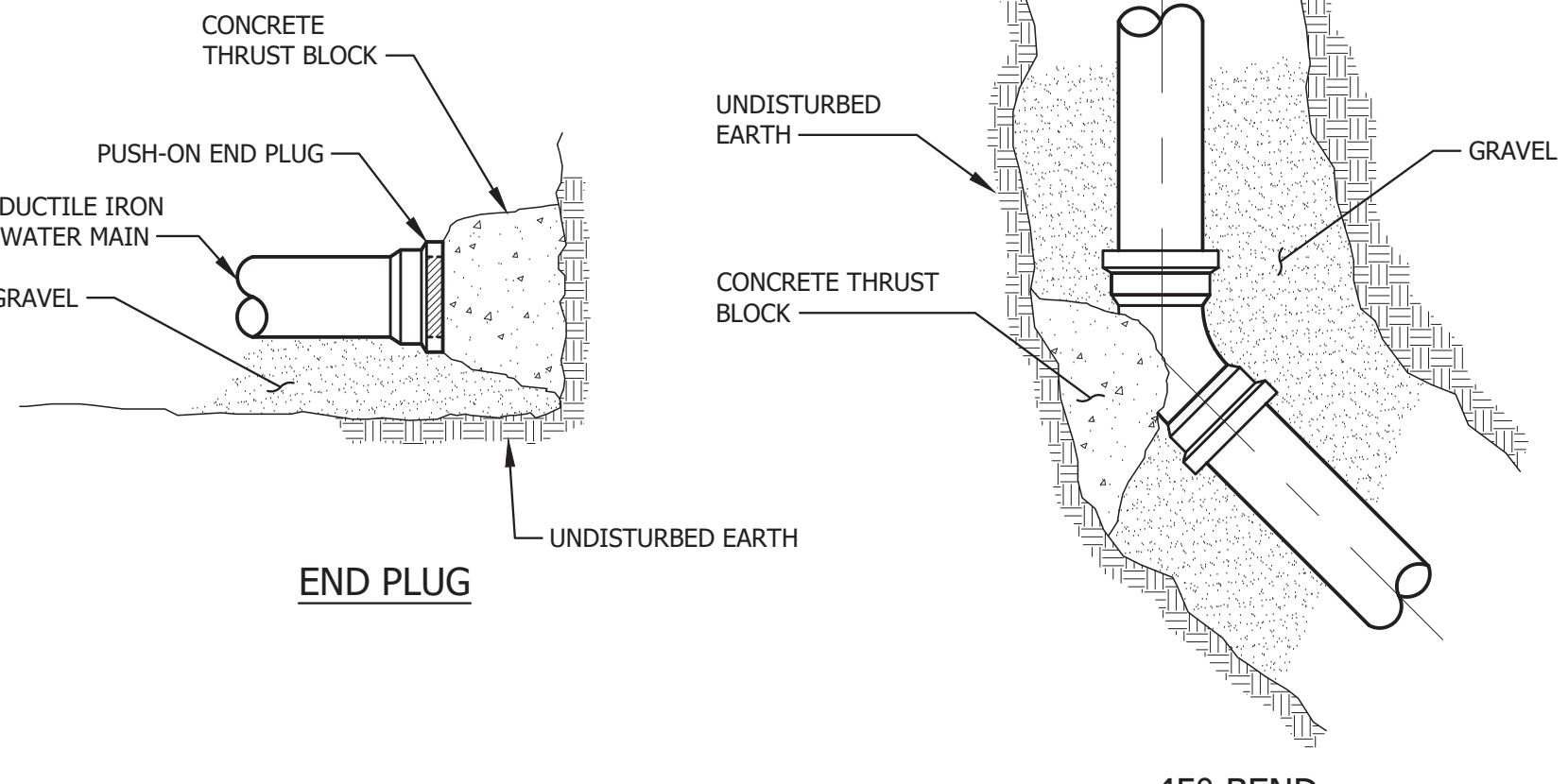
CONCRETE THRUST BLOCK SIZE REQUIREMENTS				
		SQ. FT. OF BEARING ON UNDISTURBED SOIL		
FITTINGS		90°BENDS	45°BENDS	TEES AND PLUGS
PIPE SIZE	6"	4.0	2.0	3.0
	8"	8.0	4.0	6.0
	12"	15	9	12
	16"	26	14	19
	20"	40	22	28

BASED ON SOIL BEARING PRESSURE OF 2000PSF AND 100PSI LINE PRESSURE. COMPACT COURSE TO FINE SANDS AND CLAYS REQUIRE ENGINEERED BLOCKS. ENGINEERED BLOCKS WILL TYPICALLY REQUIRE REINFORCING STEEL OF #5 AT 12".



SECTION

PLAN

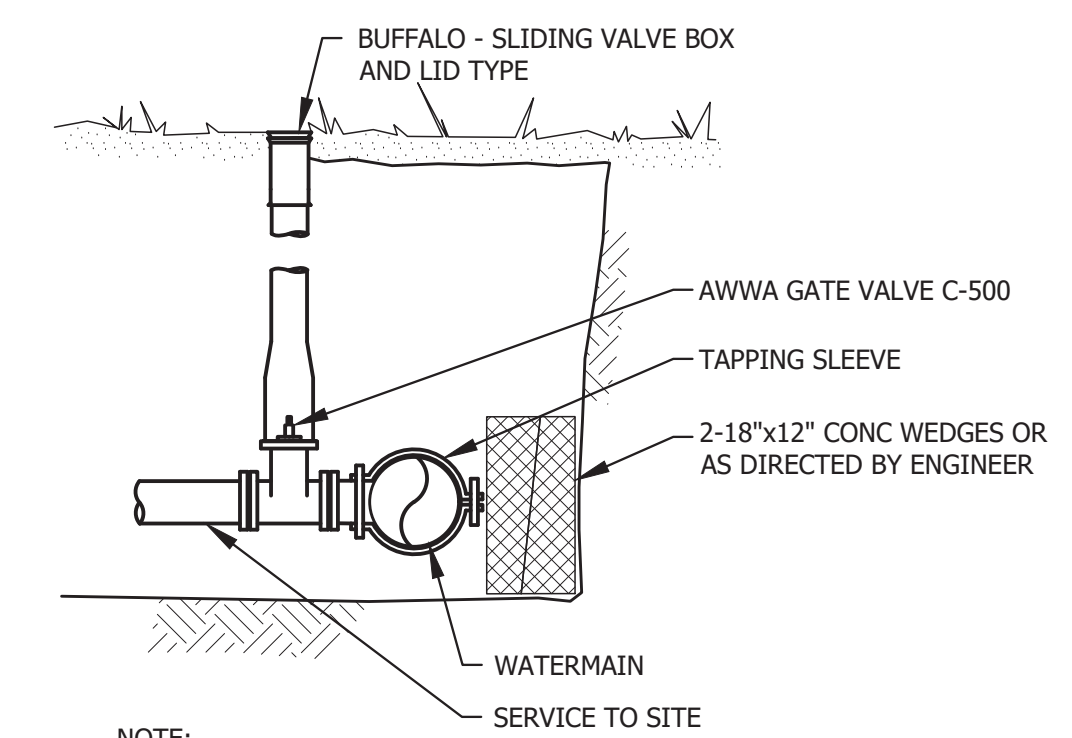


END PLUG

45° BEND

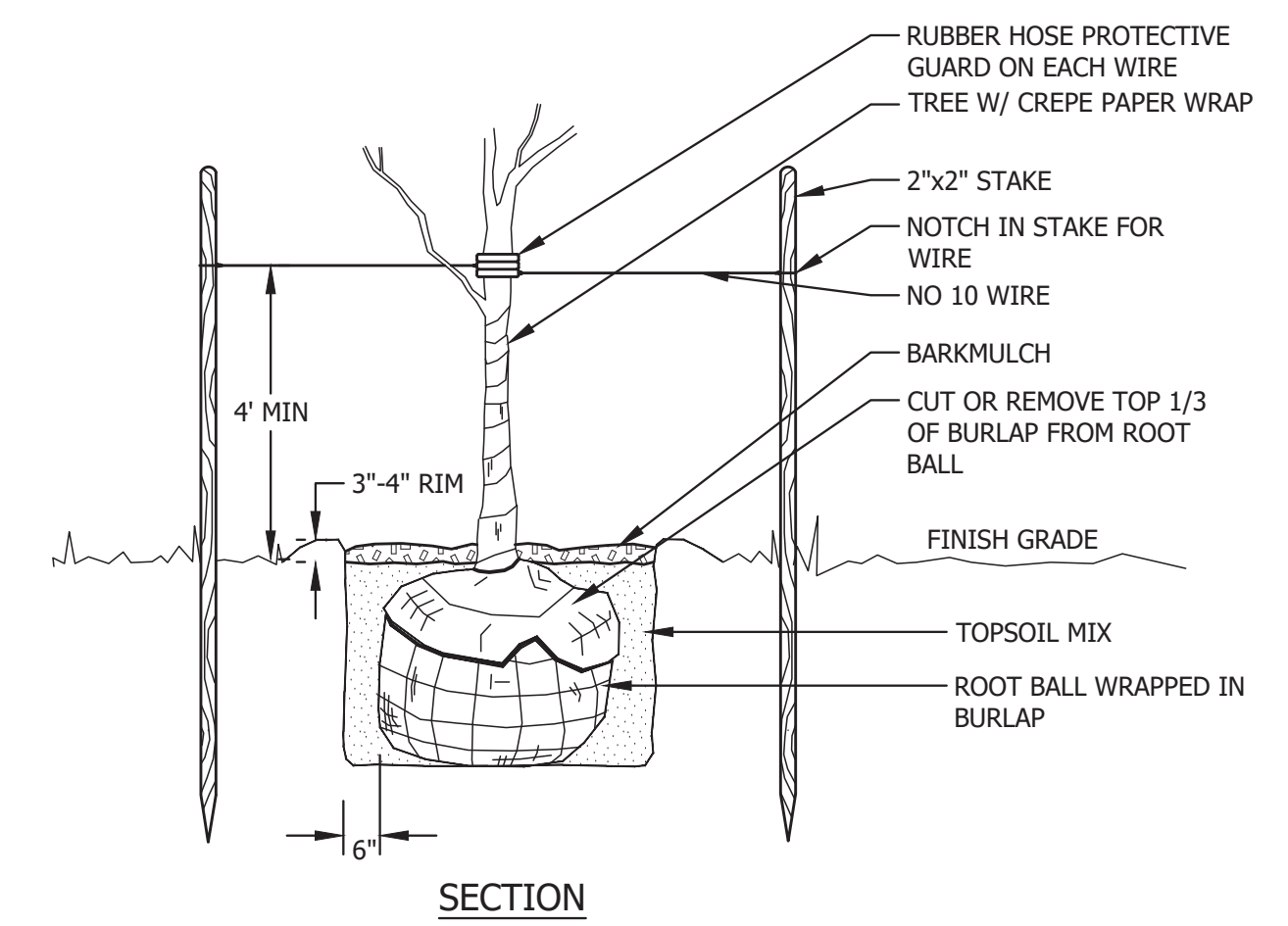
NOTE: PLACE 6 MIL (MIN) POLYETHENE SHEETING BETWEEN PIPE AND CONCRETE.

THRUST BLOCK
NTS

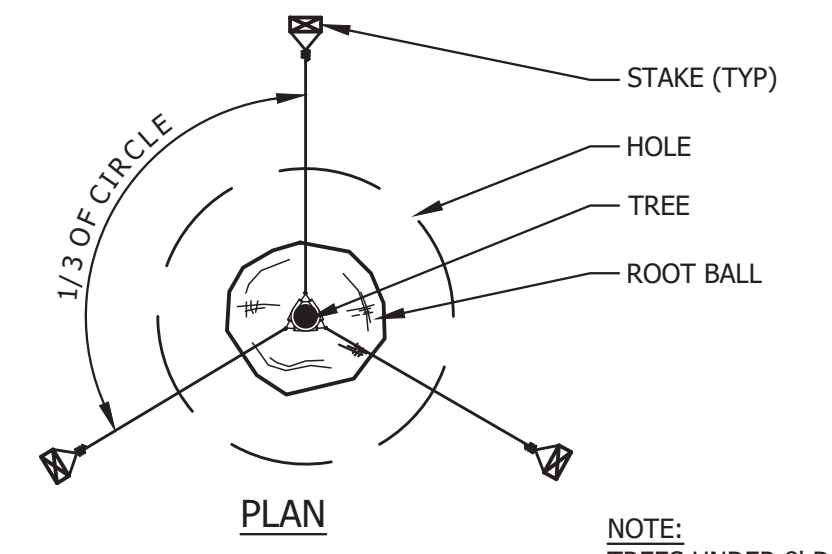


TYPICAL TAPPING SLEEVE AND GATE VALVE
NTS

NOTE: INSTALL IN ACCORDANCE WITH YARMOUTH WATER DISTRICT STANDARDS.



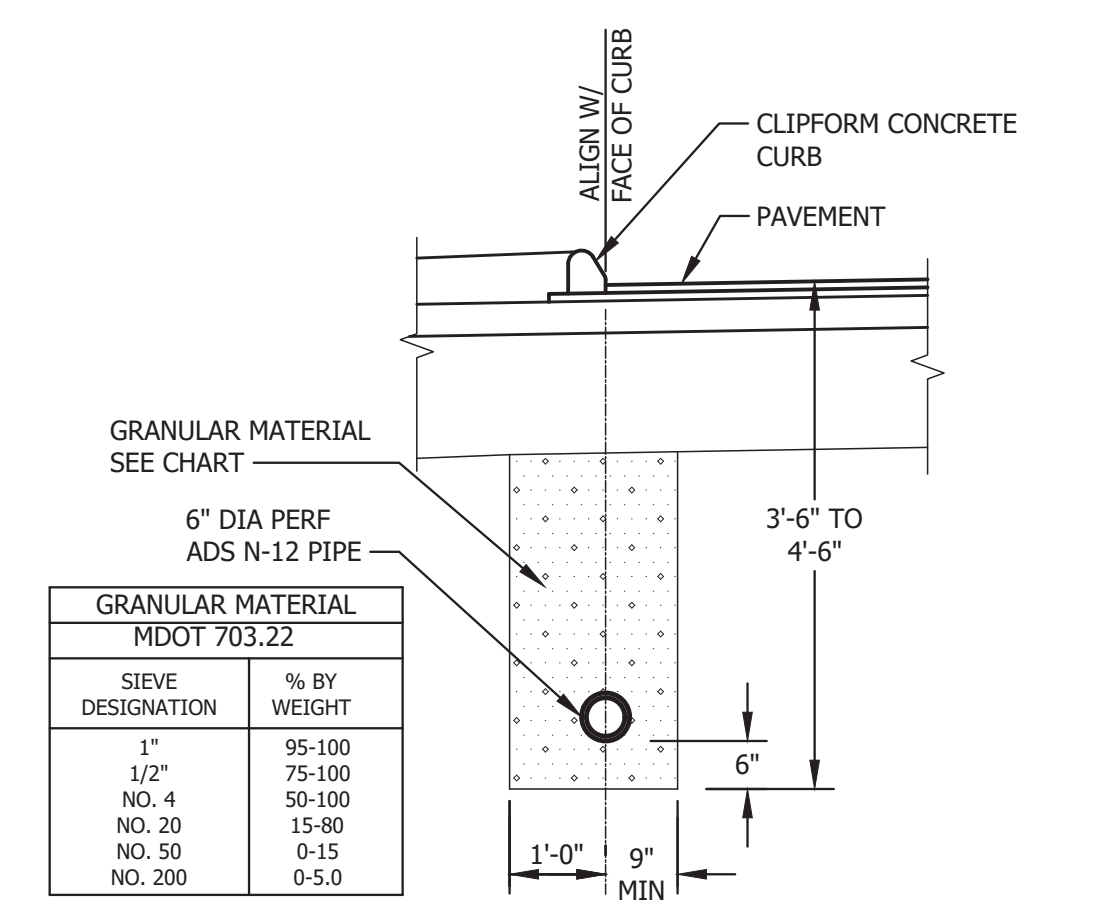
SECTION



PLAN

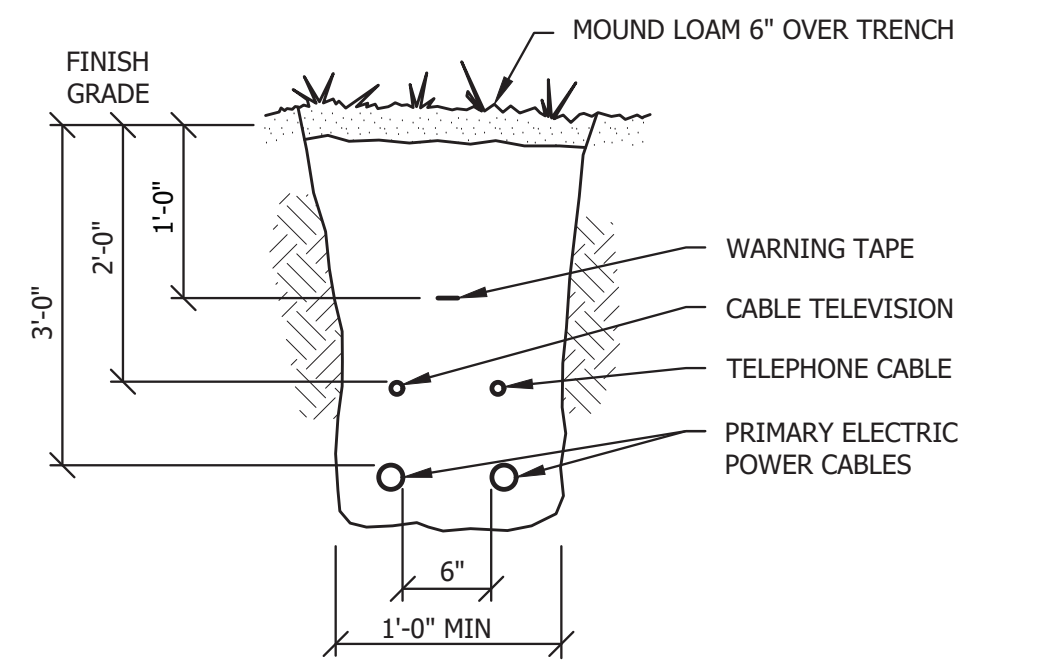
NOTE: TREES UNDER 8' DO NOT REQUIRE STAKING.

TREE PLANTING
NTS



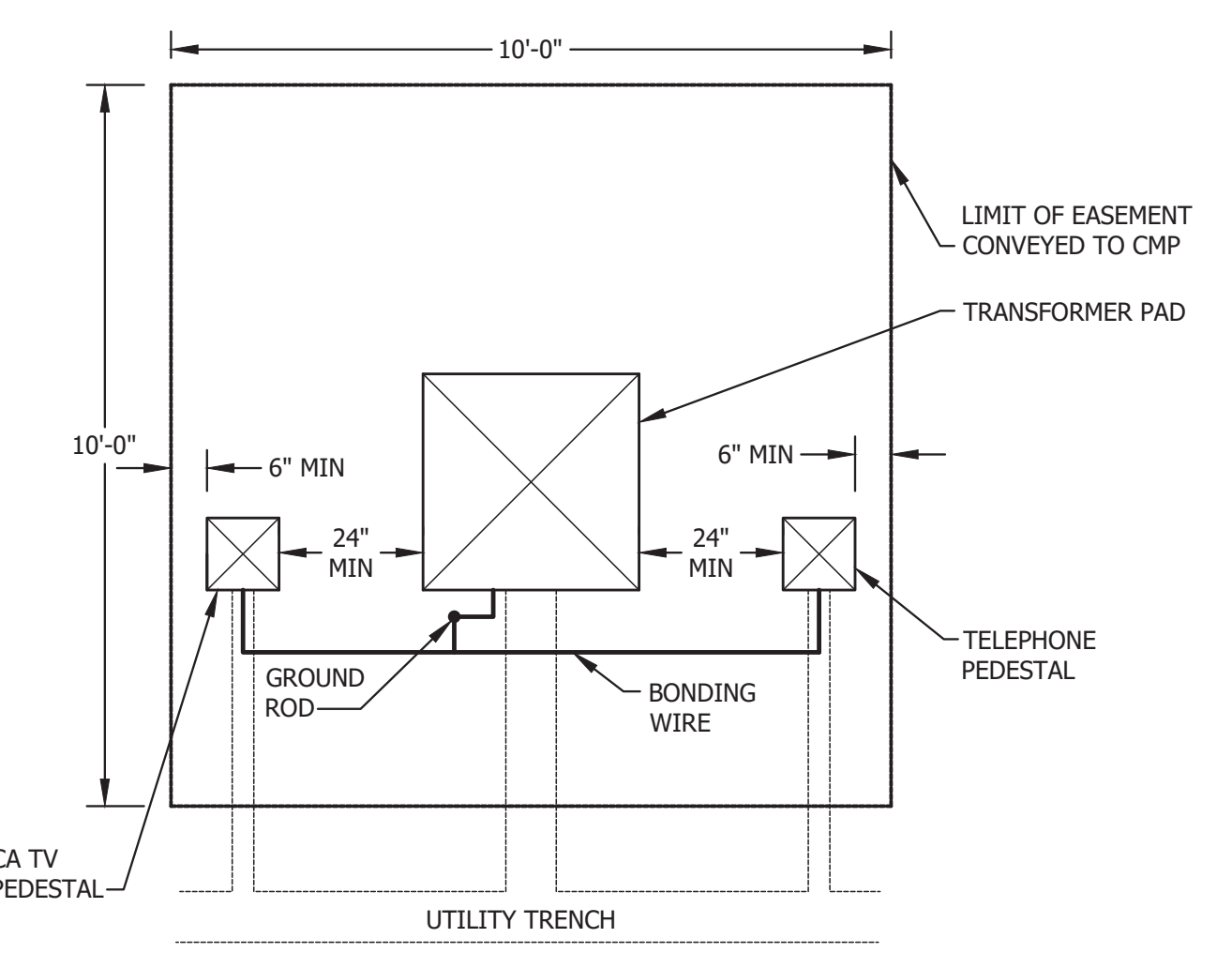
GRANULAR MATERIAL MDOT 703.22	
SIEVE DESIGNATION	% BY WEIGHT
1"	95-100
1/2"	75-100
NO. 4	50-100
NO. 20	15-80
NO. 50	0-15
NO. 200	0-5.0

UNDERDRAIN TRENCH
NTS



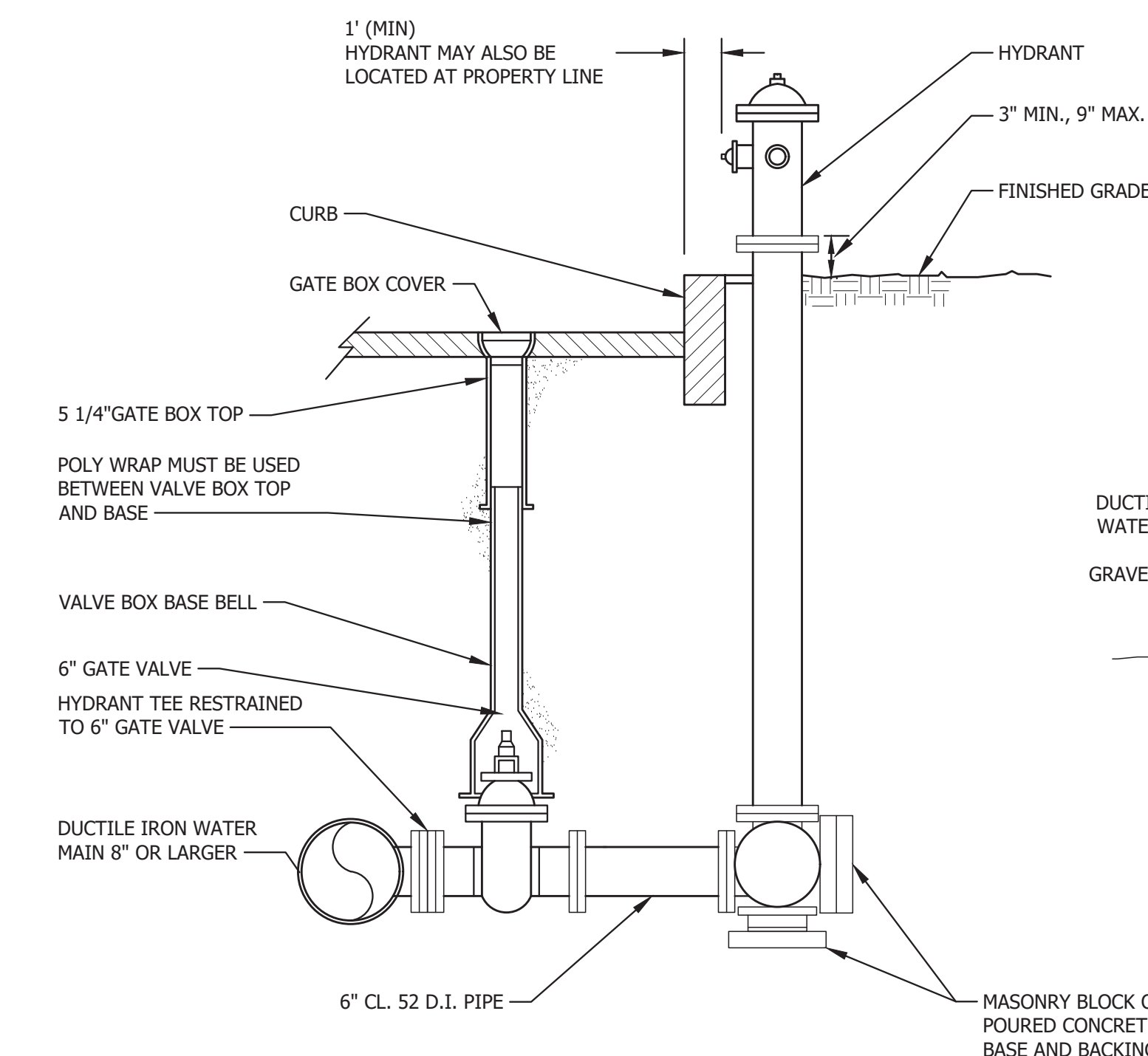
NOTES:
1. SEE CMP CO. STANDARD TRENCH FOR BACKFILL MATERIAL REQUIREMENTS.
2. DIRECT BURY CABLES EXCEPT UNDER PAVED AREAS. PROVIDE SCH. 40 PVC CONDUIT UNDER PAVED AREAS, EXTEND CONDUIT 5' BEYOND EDGE OF PAVEMENT.

UNDERGROUND UTILITY TRENCH
NTS

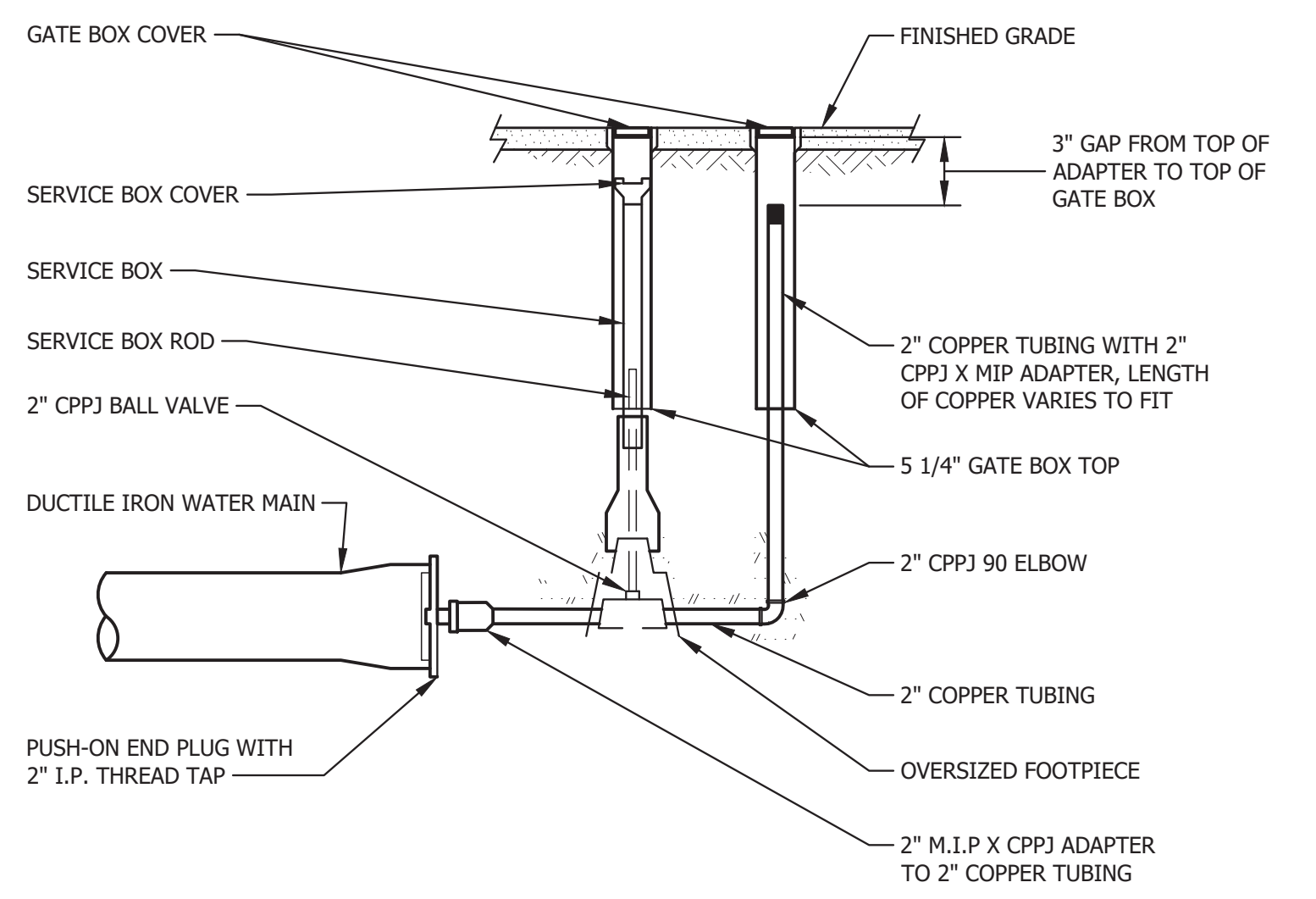


TYPICAL TRANSFORMER EASEMENT LAYOUT
NTS

NOTE: CONCRETE PAD AND INSTALLATION PER CMP STANDARDS

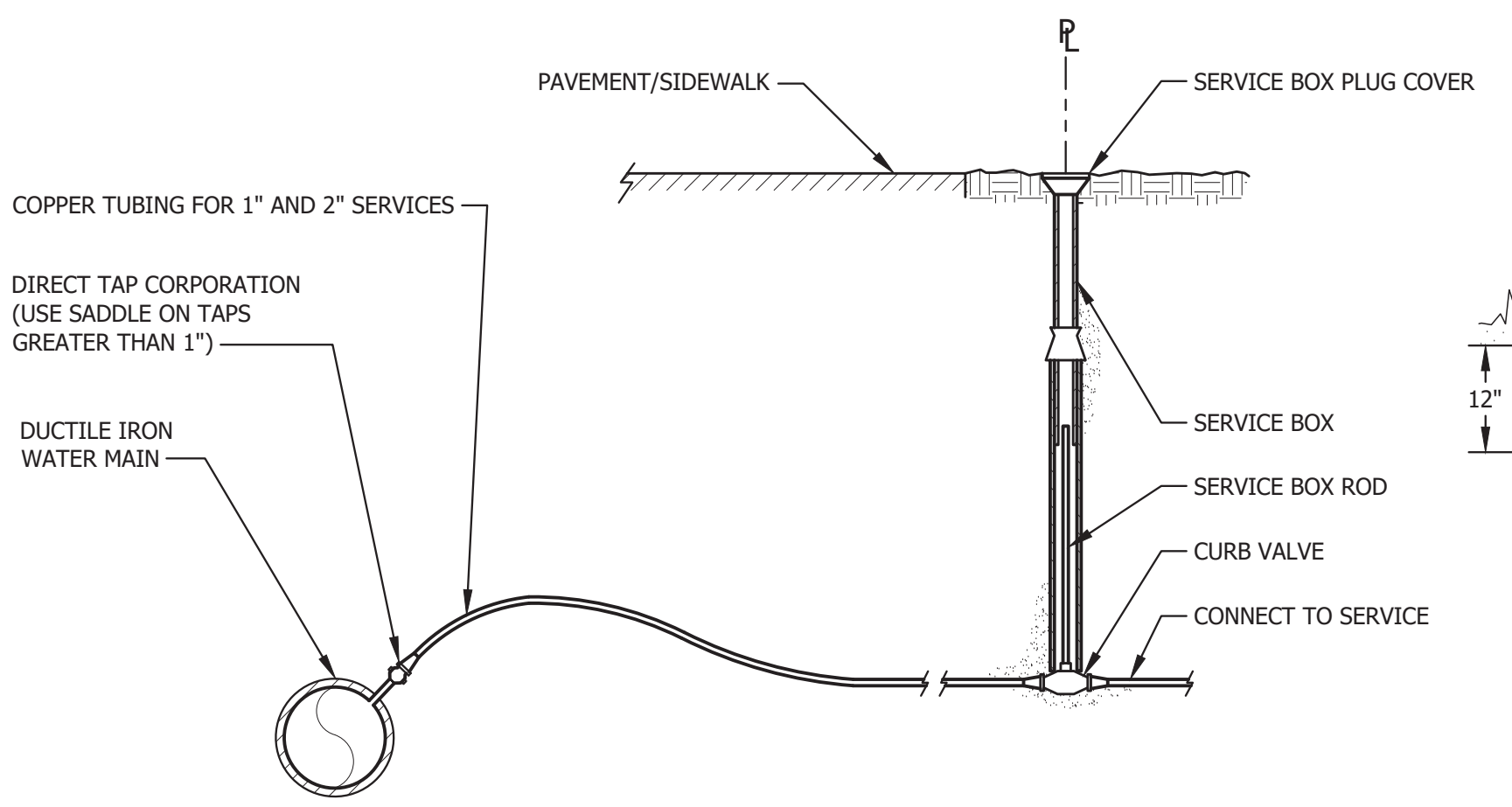


FIRE HYDRANT
NTS

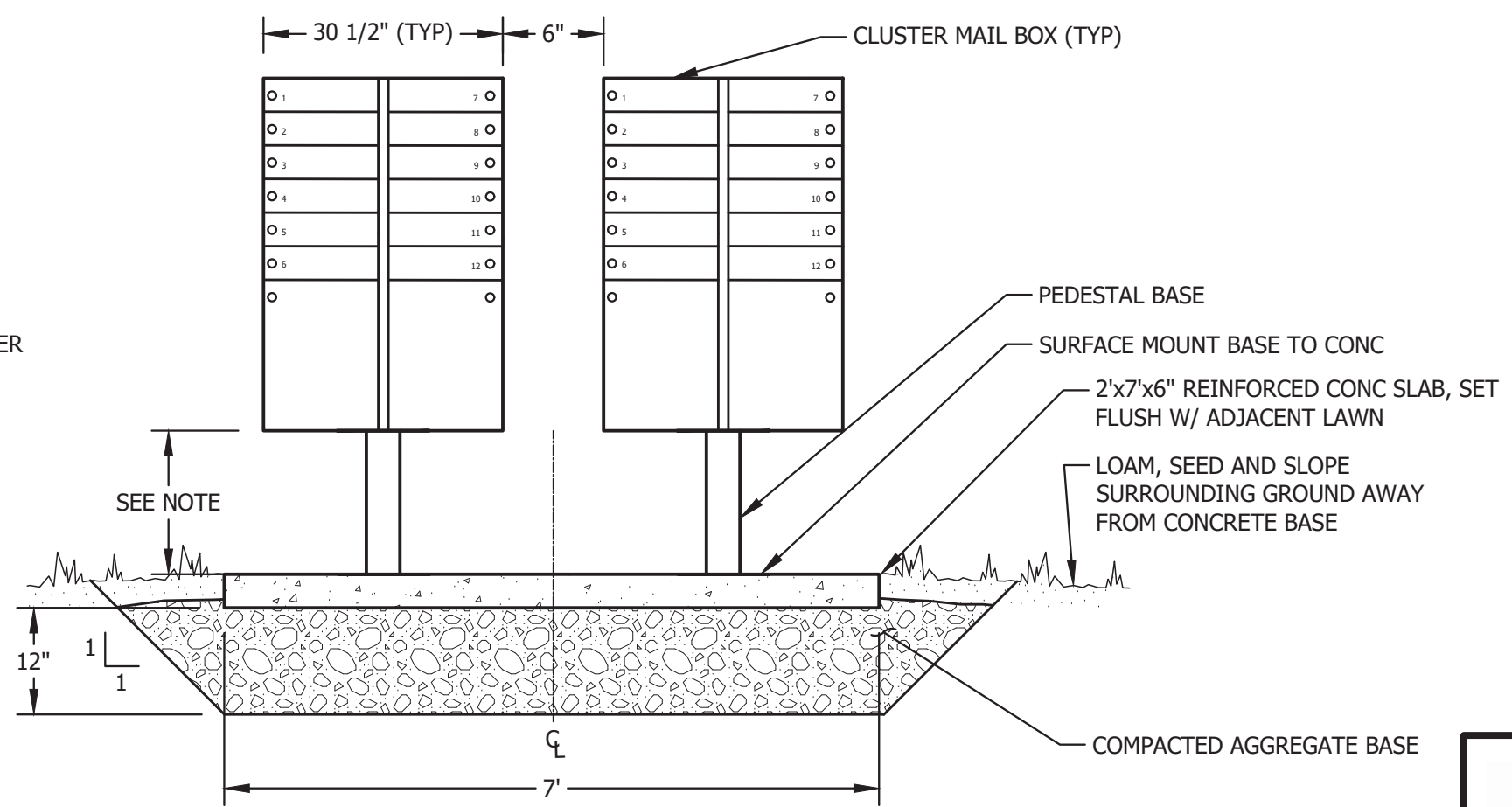


BLOW-OFF ASSEMBLY
NTS

NOTE: PLUGS REQUIRE THREADED ROD RESTRAINED TO BELL AND SLOTTED DUCTILE IRON PIPE TO FIT AROUND BRASS AS BASE TO APPROVED THRUST BLOCK.



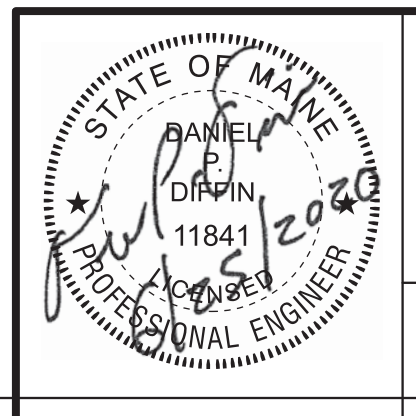
WATER SERVICE
NTS



CLUSTER MAIL BOX INSTALLATION
NTS

NOTE: 15" MINIMUM IF LOWER UNIT IS PARCEL BOX. 28" MINIMUM IF LOWER UNIT IS RESIDENTIAL MAIL SLOT.

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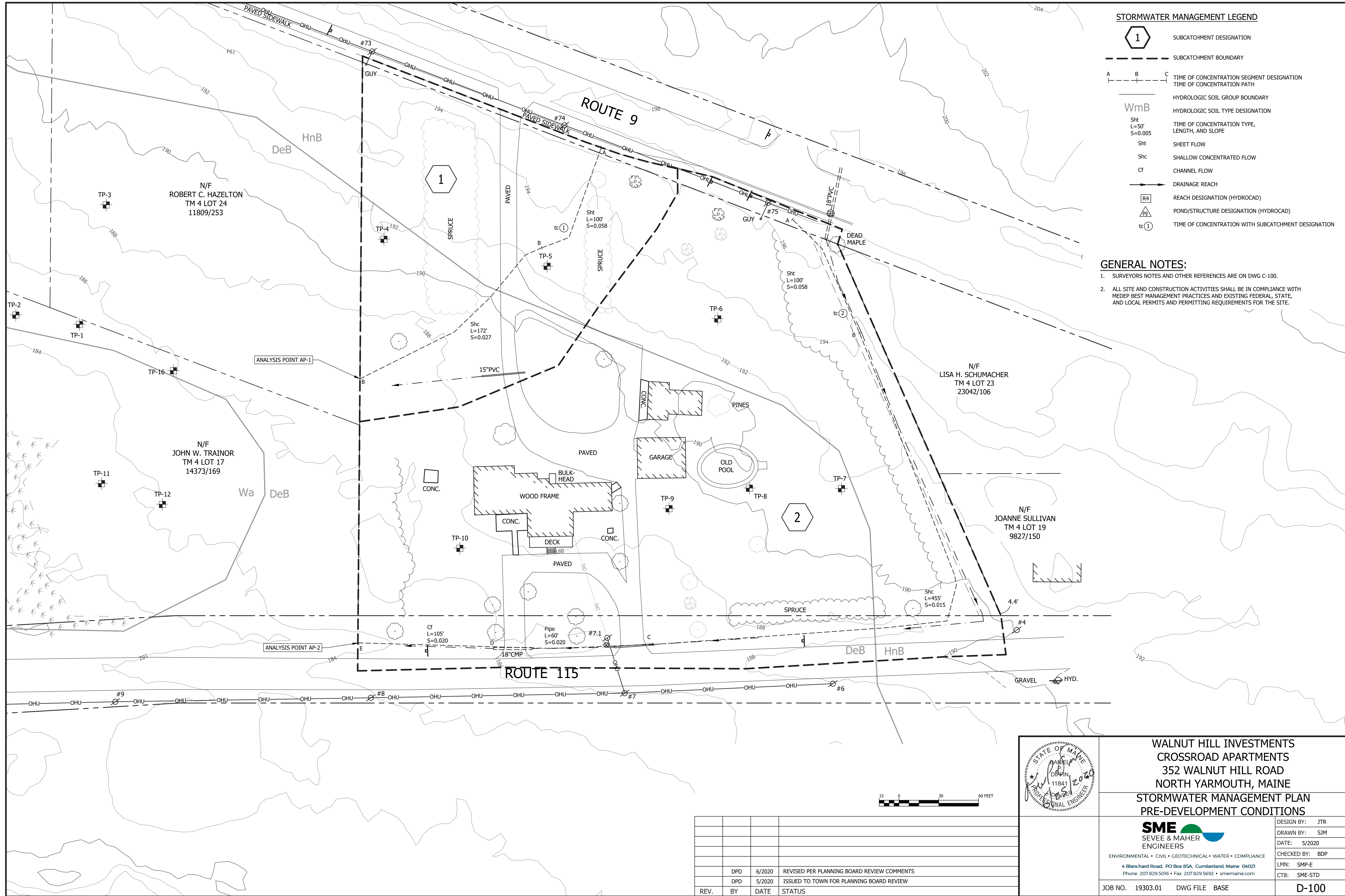
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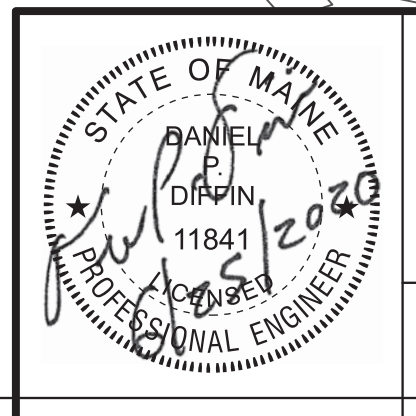
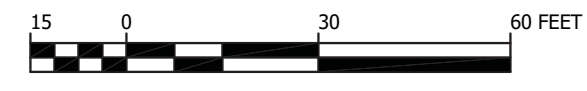
JOB NO. 19303.01 DWG FILE DETAILS **C-302**



- STORMWATER MANAGEMENT LEGEND**
- 1 SUBCATCHMENT DESIGNATION
 - SUBCATCHMENT BOUNDARY
 - A---B---C TIME OF CONCENTRATION SEGMENT DESIGNATION
TIME OF CONCENTRATION PATH
 - HYDROLOGIC SOIL GROUP BOUNDARY
 - WmB HYDROLOGIC SOIL TYPE DESIGNINATION
 - Sht L=50' S=0.005 TIME OF CONCENTRATION TYPE, LENGTH, AND SLOPE
 - Sht SHEET FLOW
 - Shc SHALLOW CONCENTRATED FLOW
 - Cf CHANNEL FLOW
 - DRAINAGE REACH
 - R4 REACH DESIGNATION (HYDROCAD)
 - △ POND/STRUCTURE DESIGNATION (HYDROCAD)
 - tc 1 TIME OF CONCENTRATION WITH SUBCATCHMENT DESIGNATION

- GENERAL NOTES:**
1. SURVEYORS NOTES AND OTHER REFERENCES ARE ON DWG C-100.
 2. ALL SITE AND CONSTRUCTION ACTIVITIES SHALL BE IN COMPLIANCE WITH MEDEP BEST MANAGEMENT PRACTICES AND EXISTING FEDERAL, STATE, AND LOCAL PERMITS AND PERMITTING REQUIREMENTS FOR THE SITE.

REV.	BY	DATE	STATUS
DPD	6/2020	REVISED PER PLANNING BOARD REVIEW COMMENTS	
DPD	5/2020	ISSUED TO TOWN FOR PLANNING BOARD REVIEW	



WALNUT HILL INVESTMENTS
CROSSROAD APARTMENTS
 352 WALNUT HILL ROAD
 NORTH YARMOUTH, MAINE

STORMWATER MANAGEMENT PLAN
PRE-DEVELOPMENT CONDITIONS

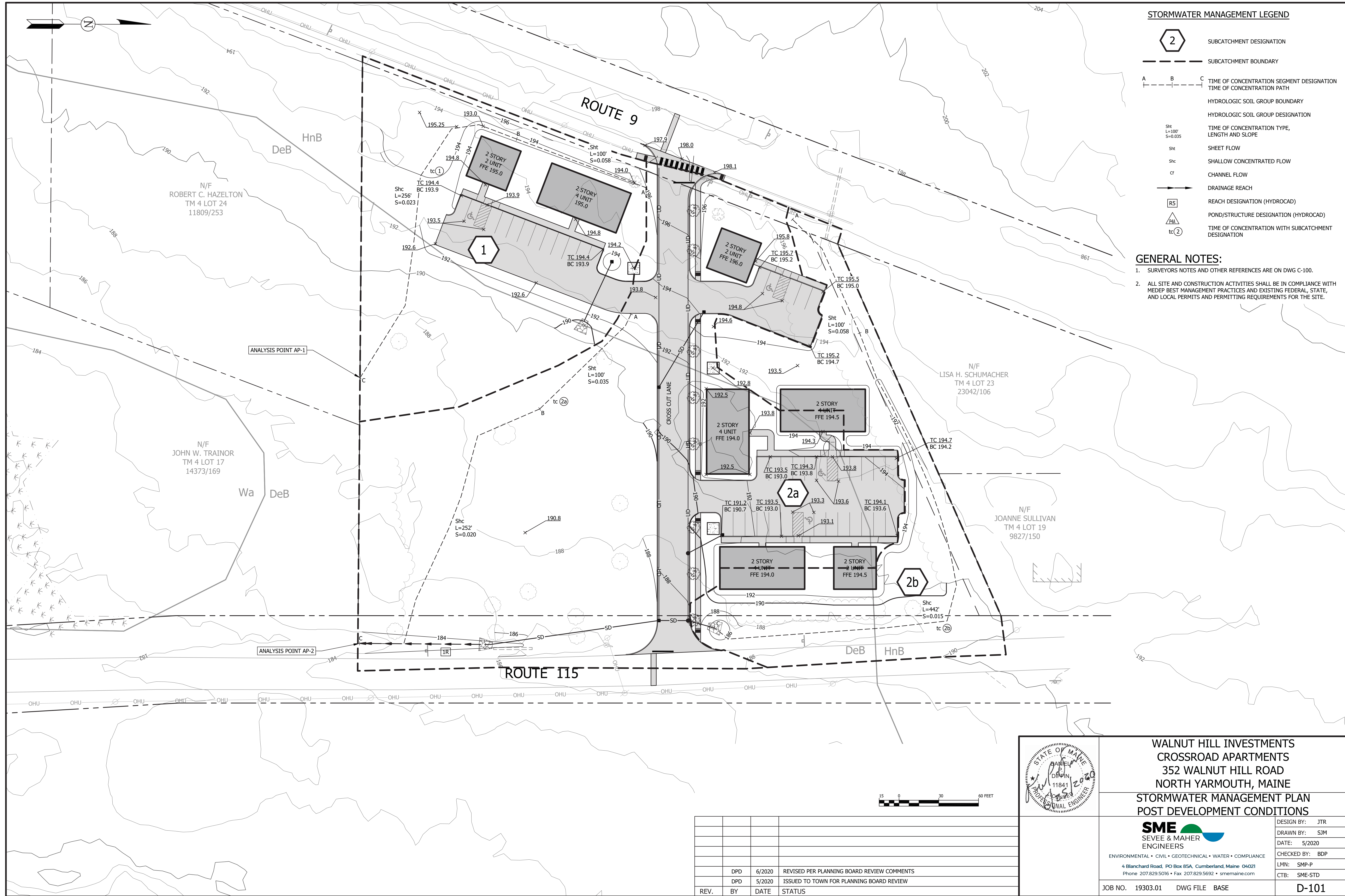
SME
SEVEE & MAHER
ENGINEERS

ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE

4 Blanchard Road, PO Box 85A, Cumberland, Maine 04021
Phone 207.829.5016 • Fax 207.829.5692 • smemaine.com

DESIGN BY: JTR
 DRAWN BY: SJM
 DATE: 5/2020
 CHECKED BY: BDP
 LMN: SMP-E
 CTB: SME-STD

JOB NO. 19303.01 DWG FILE BASE **D-100**

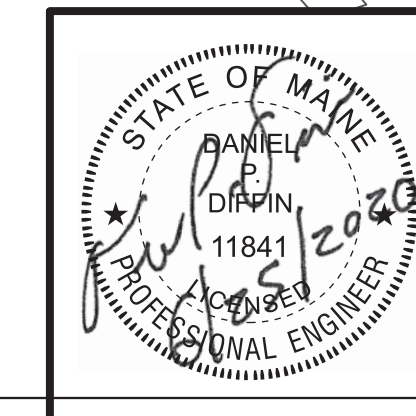


STORMWATER MANAGEMENT LEGEND

- SUBCATCHMENT DESIGNATION
- SUBCATCHMENT BOUNDARY
- TIME OF CONCENTRATION SEGMENT DESIGNATION
- TIME OF CONCENTRATION PATH
- HYDROLOGIC SOIL GROUP BOUNDARY
- HYDROLOGIC SOIL GROUP DESIGNATION
- TIME OF CONCENTRATION TYPE, LENGTH AND SLOPE
- SHEET FLOW
- SHALLOW CONCENTRATED FLOW
- CHANNEL FLOW
- DRAINAGE REACH
- REACH DESIGNATION (HYDROCAD)
- POND/STRUCTURE DESIGNATION (HYDROCAD)
- TIME OF CONCENTRATION WITH SUBCATCHMENT DESIGNATION

GENERAL NOTES:

1. SURVEYORS NOTES AND OTHER REFERENCES ARE ON DWG C-100.
2. ALL SITE AND CONSTRUCTION ACTIVITIES SHALL BE IN COMPLIANCE WITH MEDEP BEST MANAGEMENT PRACTICES AND EXISTING FEDERAL, STATE, AND LOCAL PERMITS AND PERMITTING REQUIREMENTS FOR THE SITE.



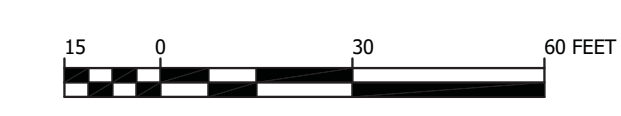
WALNUT HILL INVESTMENTS
CROSSROAD APARTMENTS
352 WALNUT HILL ROAD
NORTH YARMOUTH, MAINE
STORMWATER MANAGEMENT PLAN
POST DEVELOPMENT CONDITIONS

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SEVEE & MAHER
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4 Blanchard Road, PO Box 85A, Cumberland, Maine 04021
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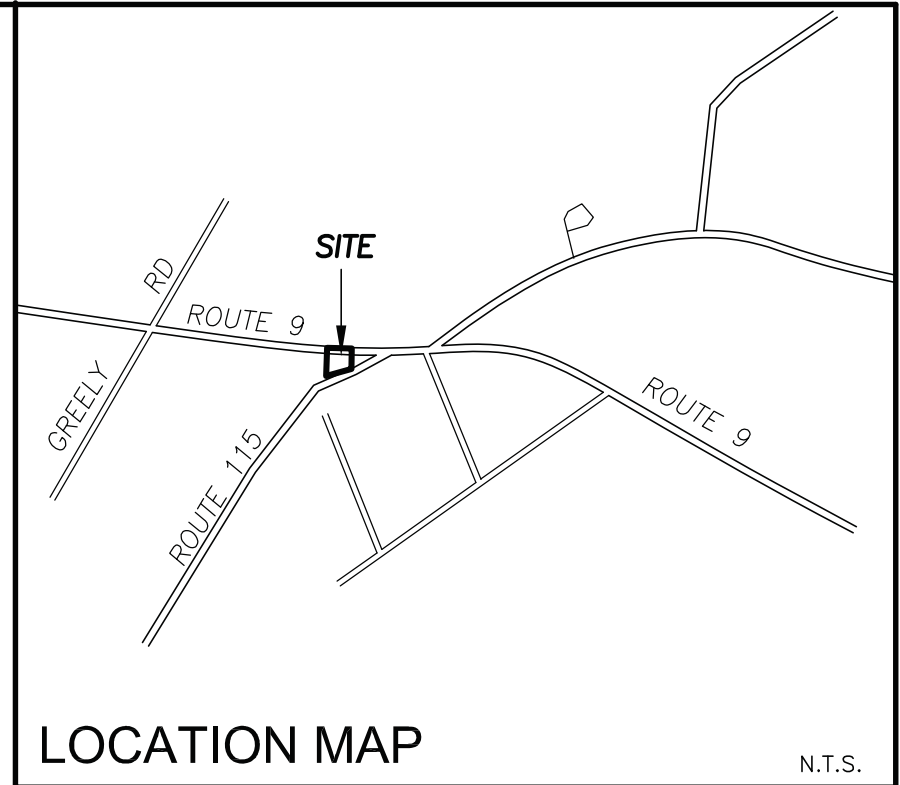
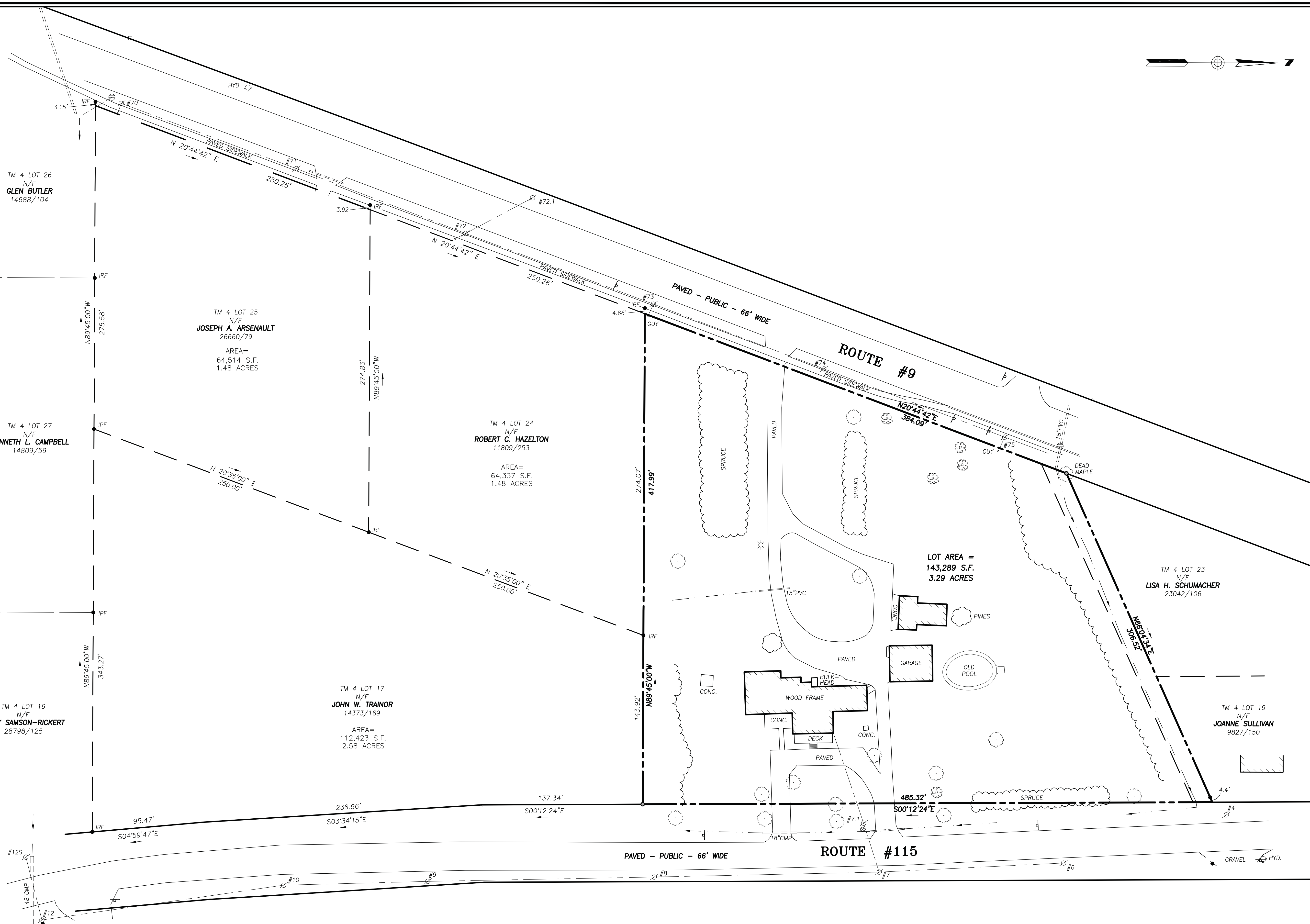
DESIGN BY: JTR
 DRAWN BY: SJM
 DATE: 5/2020
 CHECKED BY: BDP
 LMN: SMP-P
 CTB: SME-STD

JOB NO. 19303.01 DWG FILE BASE **D-101**

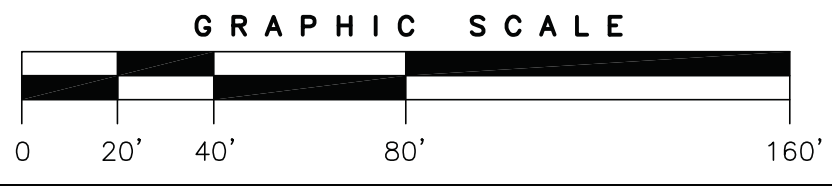
REV.	BY	DATE	STATUS
DPD	6/2020	6/2020	REVISED PER PLANNING BOARD REVIEW COMMENTS
DPD	5/2020	5/2020	ISSUED TO TOWN FOR PLANNING BOARD REVIEW



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- LEGEND**
- CAPPED IRON ROD SET
 - IRON PIPE OR ROD FOUND
 - ⊕ UTILITY POLE
 - ⊥ SIGN
 - ⊕ CATCH BASIN
 - ⊕ HYDRANT
 - ⊕ WATER VALVE OR SHUTOFF
 - ⊕ LIGHT POLE
 - DECIDUOUS TREE
 - CONIFEROUS TREE
 - CURB
 - CULVERT
 - DITCH
 - OVERHEAD WIRES
 - N/F NOW OR FORMERLY
 - 000/000 DEED BOOK AND PAGE
 - IPF/IRF IRON PIPE OR ROD FOUND
 - CONC. CONCRETE
 - TM TAX MAP



PLAN REFERENCES

- STANDARD BOUNDARY SURVEY ON ROUTE 115, NORTH YARMOUTH, MAINE MADE FOR ROBERT W. HAZELTON BY OWEN HASKELL, INC. DATED AUGUST 24, 1998.
- STATE OF MAINE DEPARTMENT OF TRANSPORTATION RIGHT OF WAY MAP STATE AID HIGHWAY NO. 2 (ROUTE 9) NORTH YARMOUTH CUMBERLAND COUNTY DATED JUNE 2004 D.O.T. FILE NO. 3-506

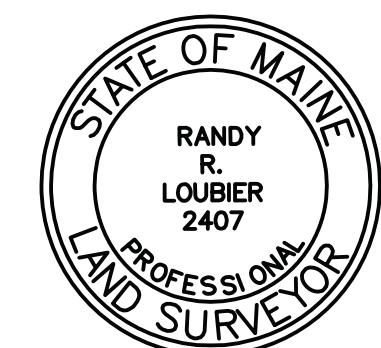
GENERAL NOTES

- OWNER OF RECORD: BRUCE W. HAZELTON
352 WALNUT HILL ROAD, NORTH YARMOUTH, MAINE
TAX MAP 4 LOT 18
C.C.R.D. BOOK 2851 PAGE 356
- BEARINGS ARE BASED ON PLAN REFERENCE 1, MAGNETIC 1984.
- ROUTE 9 RIGHT OF WAY IS BASED ON MARKERS FOUND ON PLAN REFERENCE 2. ROUTE 115 RIGHT OF WAY IS BASED ON AN ASSUMED SIDELINE AND PLAN REFERENCE 1.

CERTIFICATE

OWEN HASKELL, INC. HEREBY CERTIFIES THAT THIS PLAN IS BASED ON, AND THE RESULT OF, AN ON THE GROUND FIELD SURVEY AND THAT TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, IT CONFORMS TO THE BOARD OF LICENSURE FOR PROFESSIONAL LAND SURVEYORS CURRENT STANDARDS OF PRACTICE.

4/9/19
DATE
Randy R. Loubier, PLS NO. 2407



REV.2	4/9/19	ADDED COURSES AND AREAS
REV.1	3/1/19	REVISED ROUTE 9 RIGHT OF WAY LINE
BOUNDARY SURVEY		
ON ROUTE 9 & ROUTE 115, NORTH YARMOUTH, MAINE		
MADE FOR ROBERT C. HAZELTON		
352 WALNUT HILL ROAD, NORTH YARMOUTH, MAINE		
OWEN HASKELL, INC.		
390 U.S. ROUTE ONE, FALMOUTH, ME 04105 (207) 774-0424 PROFESSIONAL LAND SURVEYORS		
Drwn By	RRL	Date
Trace By	JLW	AUGUST 29, 2017
Check By	JWS	Scale
Book No.	1000	1" = 40'
		Job No.
		94223 NY
		Drwg. No.
		1