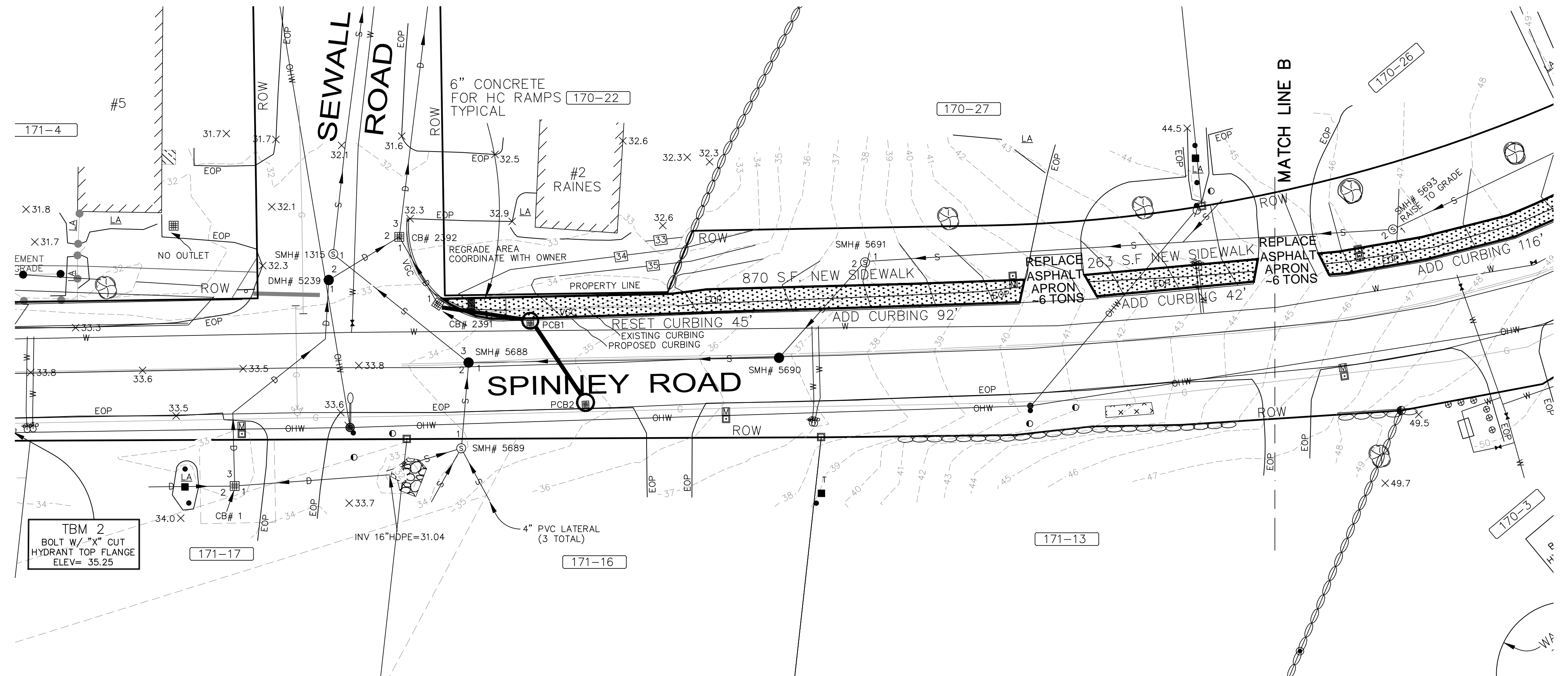


NOTES:

- THIS PLAN IS BASED ON A FIELD SURVEY BY JAMES VERRA AND ASSOC., INC. PERFORMED 3/2017.
- ON SITE HORIZONTAL CONTROL ESTABLISHED USING SURVEY GRADE GPS UNITS. HORIZONTAL DATUM: NAD 1983 (1986 ADJUSTMENT) PRIMARY BM: NHOOT 379-0150 VERTICAL DATUM: NAVD 1988 PRIMARY BM: CITY CONTROL POINT "MIDD" (NOW DESTROYED)
- ENGINEER OR CONTRACTOR TO VERIFY SITE BENCHMARKS BY LEVELING BETWEEN 2 BENCHMARKS PRIOR TO THE SETTING OR ESTABLISHMENT OF ANY GRADES/ELEVATIONS. DISCREPANCIES ARE TO BE REPORTED TO JAMES VERRA AND ASSOC., INC.
- THE LOCATION OF ALL UNDERGROUND UTILITIES SHOWN HEREON ARE APPROXIMATE AND ARE BASED UPON THE FIELD LOCATION OF ALL VISIBLE STRUCTURES (IE CATCH BASINS, MANHOLES, WATER GATES ETC.) AND INFORMATION COMPILED FROM PLANS PROVIDED BY UTILITY COMPANIES AND GOVERNMENTAL AGENCIES. ALL CONTRACTORS SHOULD NOTIFY, IN WRITING, SAID AGENCIES PRIOR TO ANY EXCAVATION WORK AND CALL DIG-SAFE @ 1-888-DIG-SAFE.
- LIMITED MARKINGS FOUND FOR GAS MAIN ON SPINNEY ROAD. NO GAS SERVICES MARKED OR INFORMATION FOR GAS SERVICES MADE AVAILABLE TO JAMES VERRA AND ASSOC., INC.
- WATER MAIN LOCATION PER INFORMATION PER PORTSMOUTH DPW GIS DATA.

REFERENCE PLANS:

- SITE PLAN, PORTSMOUTH, N.H., FOR FRANK ADDARIO, SCALE: 1"=10', DATED 12/11/1981, FILE NO. 39, PLAN NO. 50013, BY JOHN W. DURGIN ASSOC., INC., NOT RECORDED.
- CONDOMINIUM SITE PLAN, THE CONDOMINIUMS AT ROCK HILL, ISLINGTON STREET & SPINNEY ROAD, PORTSMOUTH, N.H., DATED 12/21/2006, RCRD PLAN D-34468.
- PLANS AND FIELD NOTES FOR WESTFIELD PARK, BY JOHN W. DURGIN CE.
- PLOT PLAN, NORTH CONGREGATIONAL CHURCH, PORTSMOUTH, N.H., PROGRESS DRAWING DATED 3/15/1961, BY CARTER AND WOODRUFF ARCHITECTS, NOT RECORDED.
- LOT LINE ADJUSTMENT/SUBDIVISION PLAN, THE FRANCES T. SANDERSON REV. TRUST, 342 SPINNEY ROAD, PORTSMOUTH, N.H., REVISED TO 11/30/2000, RCRD PLAN D-28581.
- SUBDIVISION AND LOT LINE ADJUSTMENT PLAN, SANDERSON FIELDS, SPINNEY ROAD & MIDDLE ROAD, SHEET C-5, REVISED TO 9/20/2012, RCRD PLAN D-37457
- SUBDIVISION AND LOT LINE ADJUSTMENT PLAN, SANDERSON FIELDS II, SPINNEY ROAD & ISLINGTON STREET, SHEET C-2, REVISED TO 9/24/2012, RCRD PLAN D-37456.
- LOT LINE ADJUSTMENT PLAN / RE-SUBDIVISION PLAN FOR SPINNEY ROAD LAND HOLDINGS, LLC, SPINNEY ROAD, PORTSMOUTH, N.H., REVISED TO 12/23/2014, RCRD PLAN D-38617.
- SUBDIVISION PLAN FOR SPINNEY ROAD LAND HOLDINGS, LLC, SPINNEY ROAD, PORTSMOUTH, N.H., REVISED TO 12/10/2014, RCRD PLAN D-38618.



LEGEND:

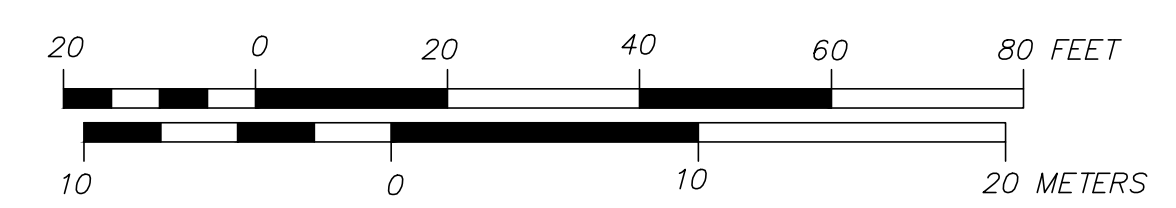
- | | |
|--|---|
| <ul style="list-style-type: none"> ----- STONE WALL ○----- IRON ROD ○----- IRON PIPE □----- BOUND as DESCRIBED ■----- WOOD HUB ▲----- SURVEY NAIL ●----- DRILL HOLE ●----- CHAIN LINK FENCE —○— POST & RAIL FENCE —○— PRIVACY FENCE PSNH-----PUBLIC SERVICE CO. OF NH EVS-----EVERSOURCE 110-5-----TAX SHEET - LOT NUMBER RCRD-----ROCKINGHAM COUNTY REGISTRY OF DEEDS EOP-----EDGE OF PAVEMENT SAC-----SLOPED FACED ASPHALT CURB SCC-----SLOPED FACED GRANITE CURB VCC-----VERTICAL FACED CONCRETE CURB VGC-----VERTICAL FACED GRANITE CURB ●----- BOLLARD —○— SIGN —○— DOUBLE POST SIGN ○----- UTILITY POLE ○----- UTILITY POLE W/TRANSFORMER ○----- UTILITY POLE WITH ARM & LIGHT ○----- GUY ●----- ELECTRICAL CONDUIT □----- ELECTRICAL BOX ■----- ELECTRIC METER □----- TELEPHONE RISER BS/CS-----BLACK STEEL/COATED STEEL GAS LINE PP/PL-----PLASTIC GAS LINE □----- GAS METER ○----- GAS SHUT OFF | <ul style="list-style-type: none"> ○----- GAS VALVE ○----- WATER GATE VALVE ○----- WATER SHUT OFF VALVE ○----- HYDRANT □----- CATCH BASIN □----- CATCH BASIN ○----- DRAIN MANHOLE ○----- SEWER MANHOLE ----- TREE LINE/BRUSH LINE ●----- CONIFEROUS TREE ●----- DECIDUOUS TREE ●----- CONIFEROUS SHRUB ●----- DECIDUOUS SHRUB — w — WATER LINE — s — SEWER LINE — D — DRAIN LINE — g — GAS LINE — UGE — UNDERGROUND ELECTRIC — UGC — UNDERGROUND COMMUNICATIONS — UGU — UNDERGROUND UTILITIES — OHW — OVERHEAD WIRES — OHE — OVERHEAD ELECTRIC ▨----- CEMENT CONCRETE ▨----- PAVERS ▨----- CRUSHED STONE ▨----- RIP RAP LA-----LANDSCAPED AREA ROW-----RIGHT OF WAY x12.5-----SPOT GRADE |
|--|---|

DRAIN TABLE

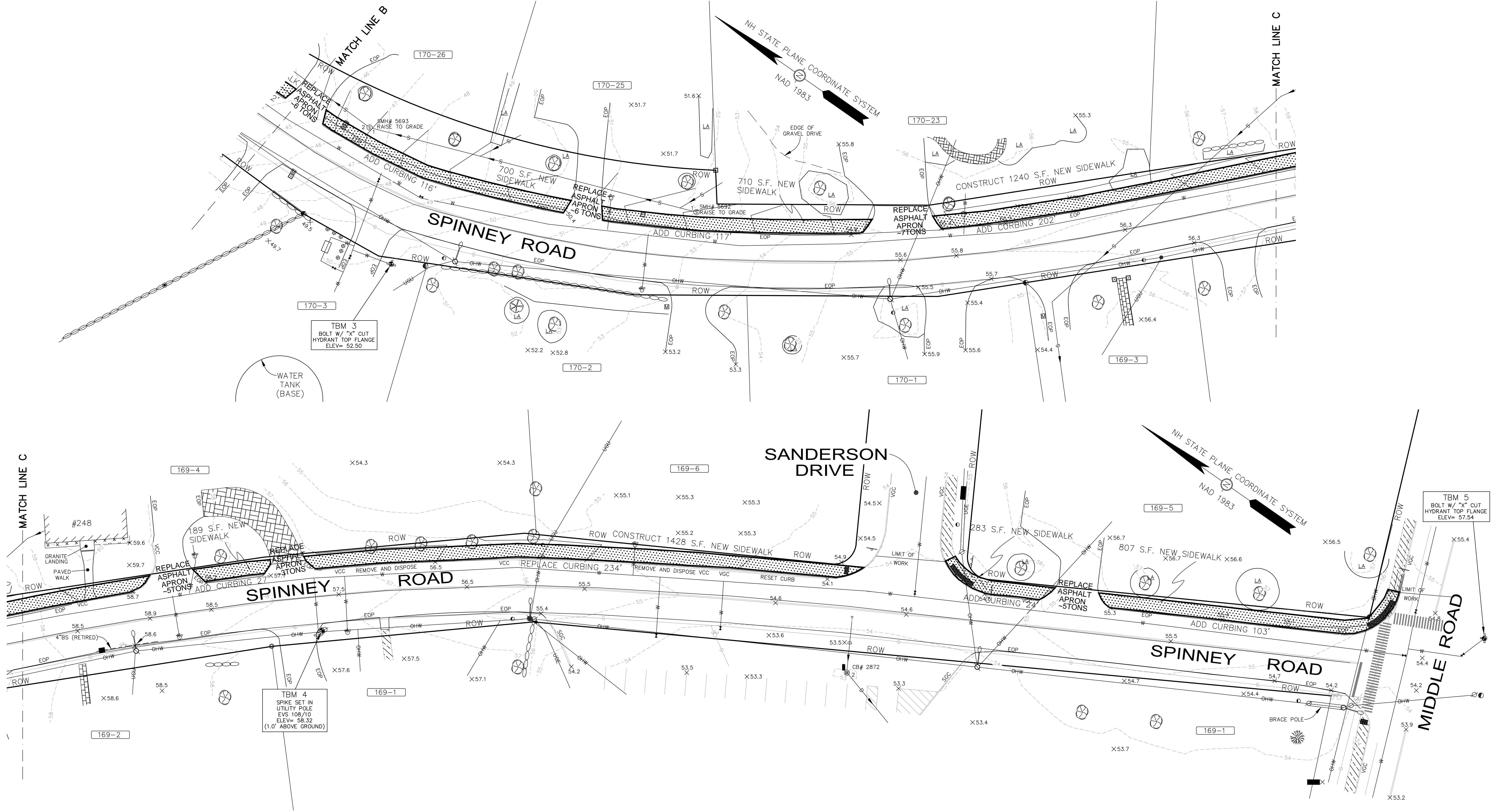
CB# 1 RIM EL= 32.70 (1) INV IN 15"HDPE= 29.80 (2) INV IN 6"PVC= 28.40 (3) INV OUT 15"HDPE= 27.05	CB# 2 RIM EL= 31.51 (1) INV OUT 4"PVC= 30.26	CB# 96 RIM EL= 29.04 (1) INV IN 6"VCP= 25.29	CB# 1163 RIM EL= 30.95 (1) INV OUT 6"PVC= 27.59	CB# 2391 RIM EL= 33.15 (1) INV OUT ??= 29.45	CB# 2392 RIM EL= 32.42 (1) INV IN 12"HDPE= 24.40 (2) INV IN 12"HDPE= 24.56 (3) INV OUT 12"HDPE= 24.48	CB# 2872 RIM EL= 52.94 (1) INV IN 12"VCP=49.39 (2) INV OUT 6"VCP= 48.84	DMH# 5239 RIM EL= 32.73 (1) INV IN 8"VCP= 24.76 (2) INV OUT 8"VCP= 24.75	PCB# 1 RIM EL= 34.25 PROP INVS. = 29.67	PCB# 2 RIM EL= 33.80 PROP INV OUT = 29.89
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SEWER TABLE

SMH# 1315 RIM EL= 32.56 (1) INV IN 8"PVC= 27.83	SMH# 5688 RIM EL= 34.24 (1) INV IN 8"PVC= 28.65 (2) INV IN 8"PVC= 28.92 (3) INV OUT 8"PVC= 28.69	SMH# 5689 RIM EL= 33.93 (1) INV OUT 8"PVC= 29.03 (HAS 3 - 4"PVC LATERALS)	SMH# 5690 RIM EL= 36.82 (UNABLE TO OPEN)	SMH# 5691 RIM EL= 37.76 (1) INV IN 8"PVC= 32.59 (2) INV OUT 8"PVC= 32.55	SMH# 5692 RIM EL= 51.97 (1) INV OUT 8"PVC= 44.68	SMH# 5693 RIM EL= 46.49 (1) INV IN 8"PVC= 39.01 (2) INV OUT 8"PVC= 39.05
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REV. NO.	DATE	DESCRIPTION	APPR'D
PROPOSED SIDEWALK PLAN SPINNEY ROAD SIDEWALK PROJECT PORTSMOUTH, NEW HAMPSHIRE for CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS			
DATE:		1/14/2019	
JOB NO:			
SCALE:		1" = 20'	
DWG NAME:			
PLAN NO:			
SHEET:		1 OF 5	

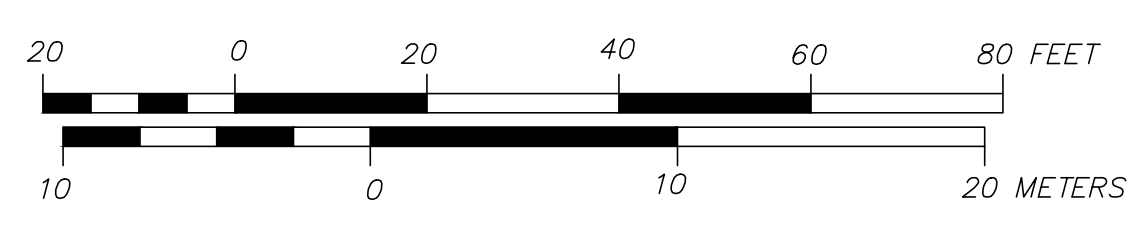


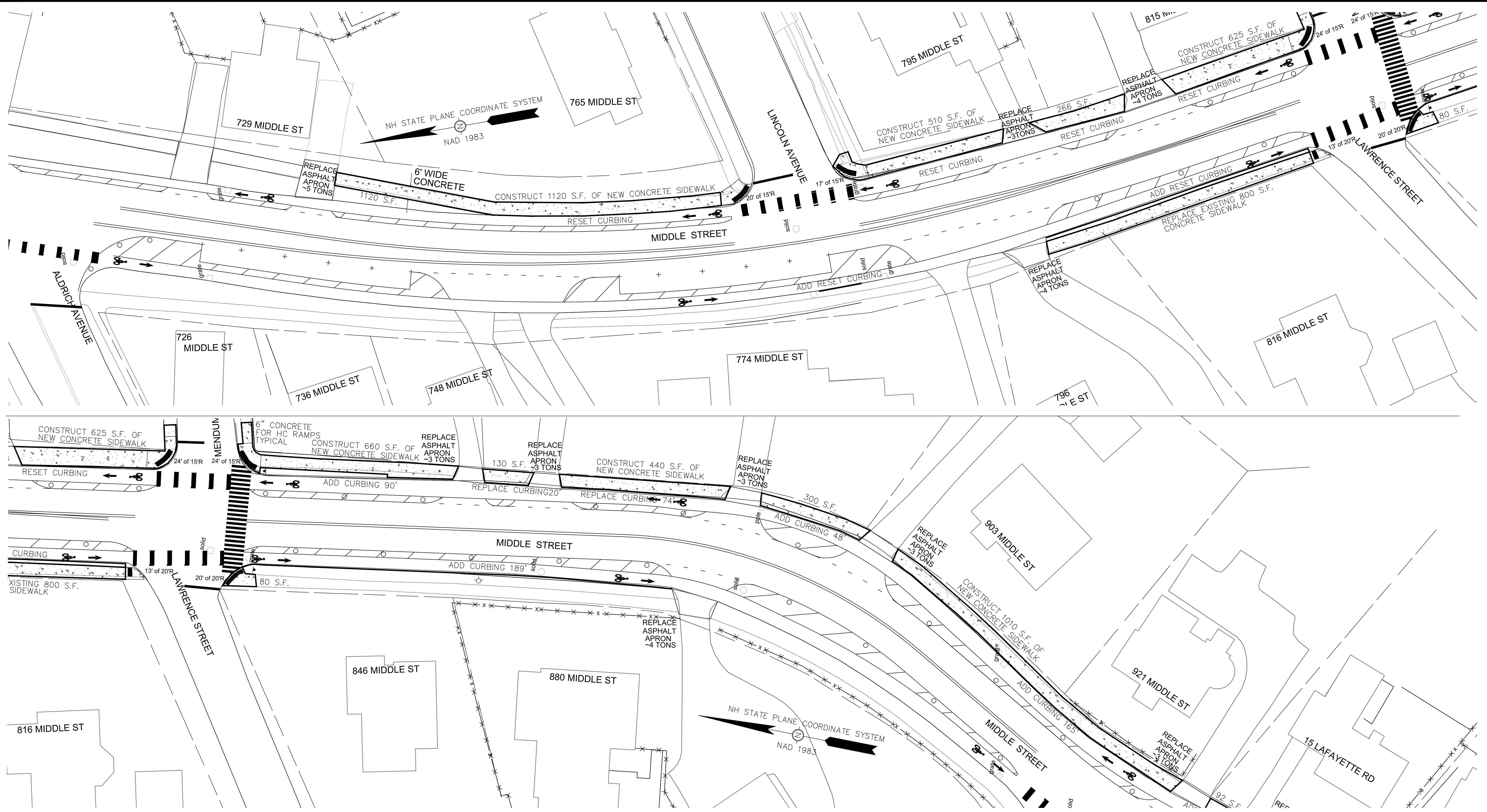
TBM 3
BOLT W/ "X" CUT
HYDRANT TOP FLANGE
ELEV= 52.50

TBM 4
SPIKE SET IN
UTILITY POLE
EVS 108/10
ELEV= 58.32
(1.0' ABOVE GROUND)

TBM 5
BOLT W/ "X" CUT
HYDRANT TOP FLANGE
ELEV= 57.54

REV. NO.	DATE	DESCRIPTION	APPR'D
PROPOSED SIDEWALK PLAN SPINNEY ROAD SIDEWALK PROJECT PORTSMOUTH, NEW HAMPSHIRE for CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS			
DATE:			1/14/2019
JOB NO.:			
SCALE:			1" = 20'
DWG NAME:			
PLAN NO.:			
SHEET:			2 OF 5





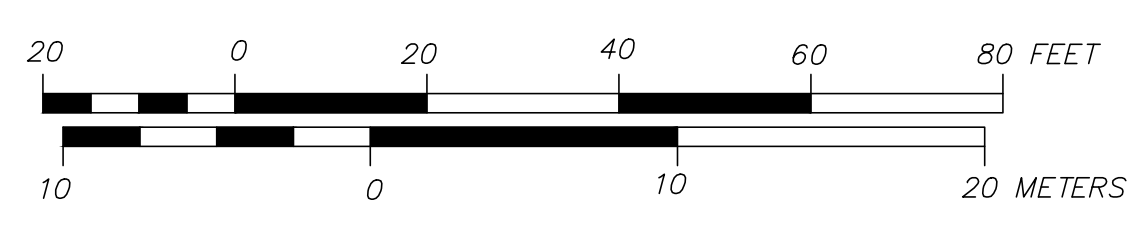
NH STATE PLANE COORDINATE SYSTEM
NAD 1983

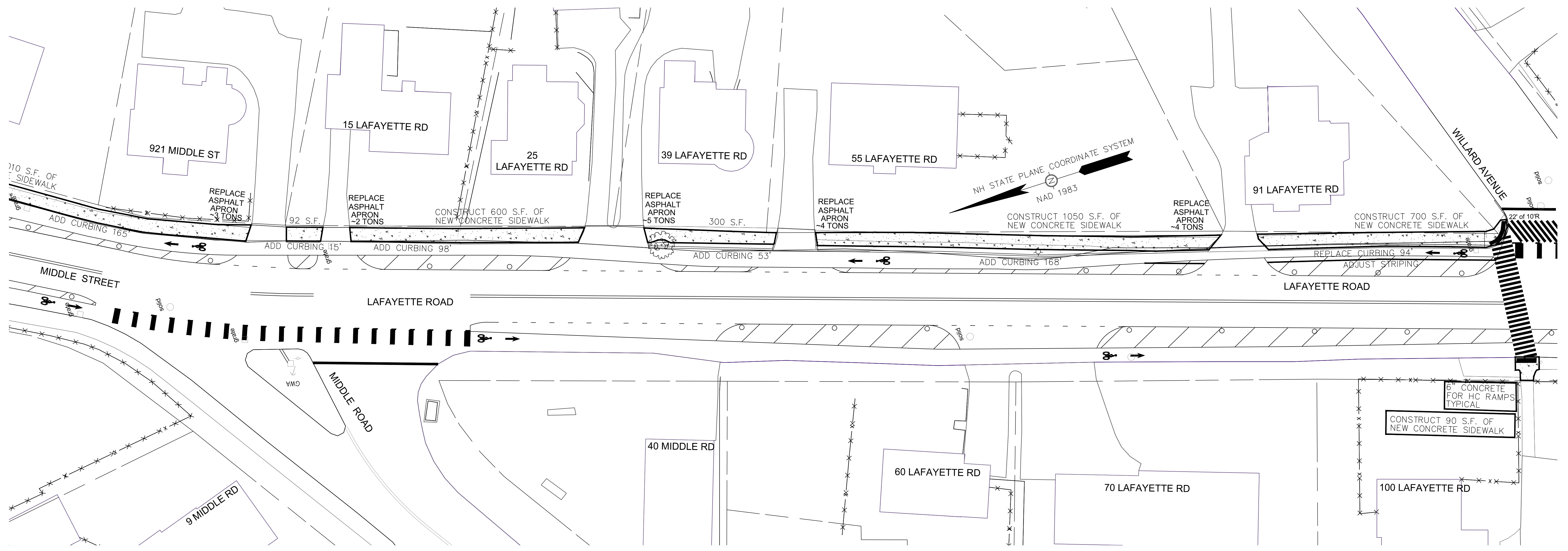
NH STATE PLANE COORDINATE SYSTEM
NAD 1983

REV. NO.	DATE	DESCRIPTION	APPRO'D
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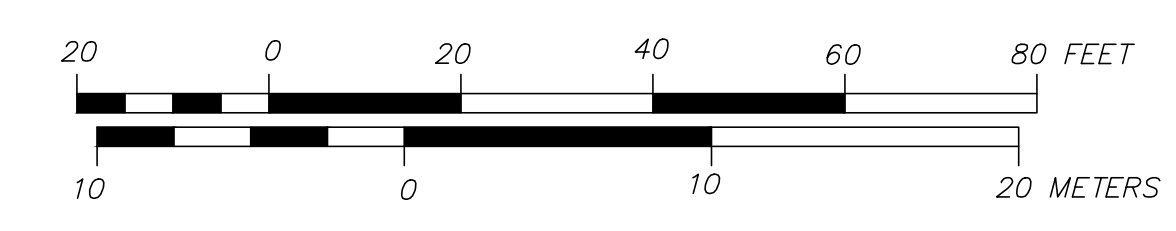
PROPOSED SIDEWALK PLAN
MIDDLE ST SIDEWALK PROJECT
PORTSMOUTH, NEW HAMPSHIRE
for
CITY OF PORTSMOUTH
DEPARTMENT OF PUBLIC WORKS

DATE:	1/14/2019
JOB NO:	7137
SCALE:	1" = 20'
DWG NAME:	
PLAN NO:	
SHEET:	3 OF 5





SEE SHEET 1 FOR NOTES, REFERENCE PLANS
LEGEND, DRAIN & SEWER TABLES



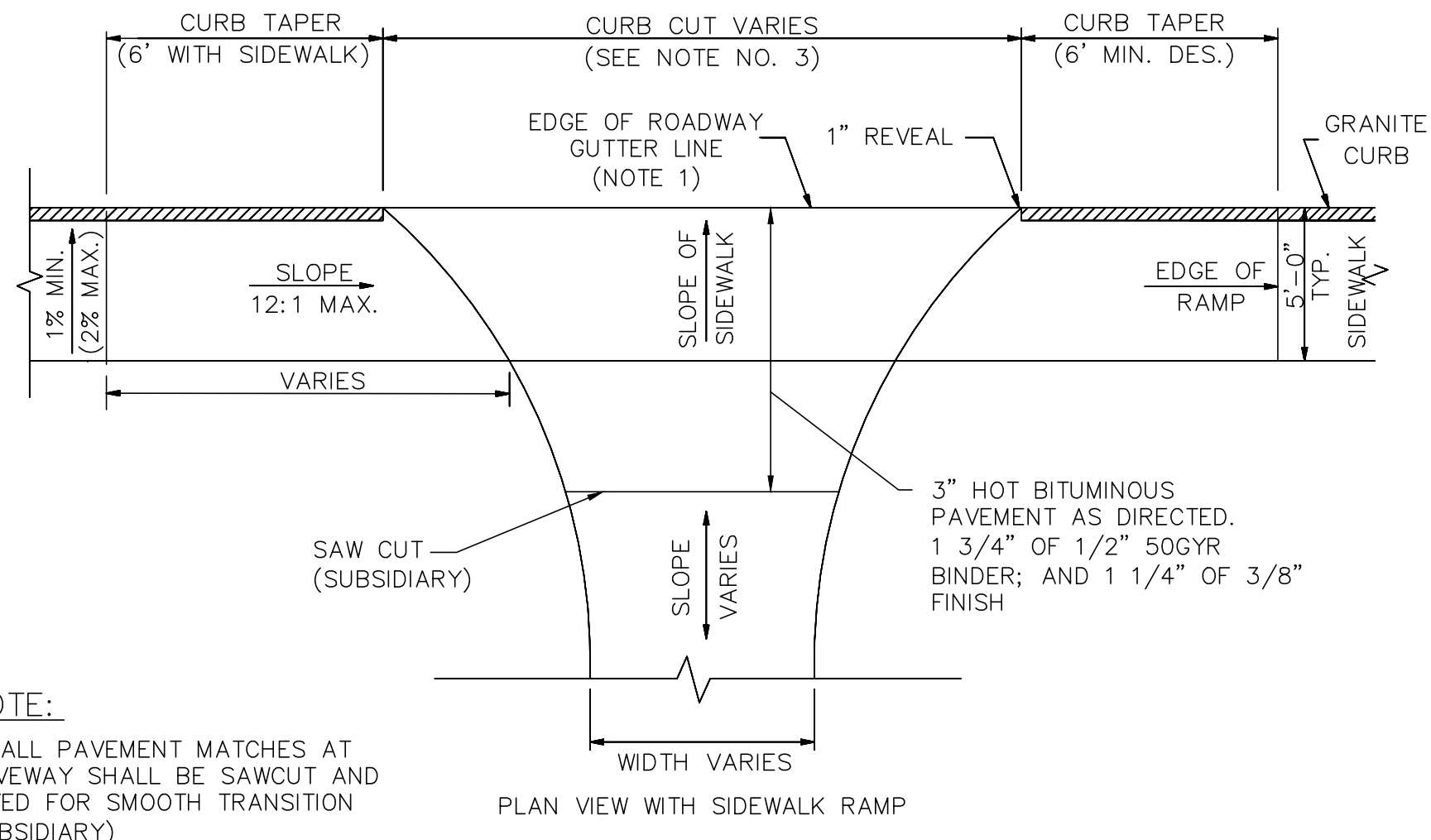
REV. NO.	DATE	DESCRIPTION	APPR'D
PROPOSED SIDEWALK PLAN LAFAYETTE ROAD SIDEWALK PROJECT PORTSMOUTH, NEW HAMPSHIRE for CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS			
		DATE:	1/14/2019
		JOB NO.:	
		SCALE:	1" = 20'
		DWG NAME:	
		PLAN NO.:	
		SHEET:	4 OF 5

STANDARD CB & MANHOLE NOTES:

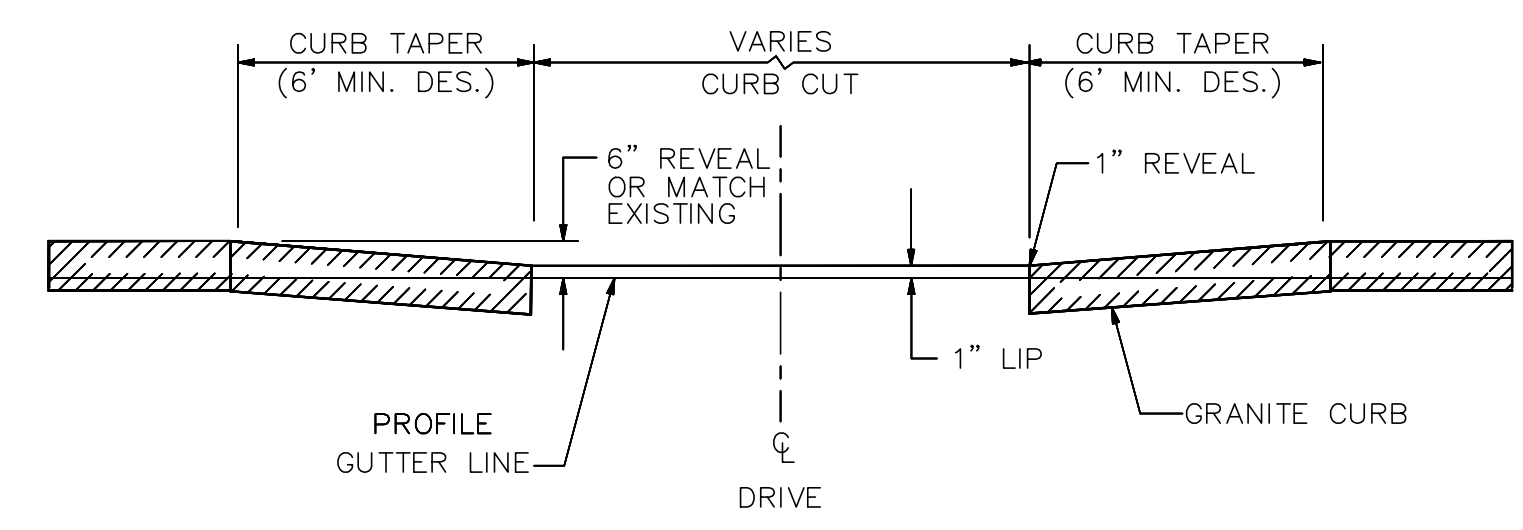
1. BARRELS AND TOP SECTIONS SHALL BE PRECAST REINFORCED CONCRETE.
2. PRECAST CONCRETE BARREL SECTIONS, CONES, AND BASES SHALL CONFORM TO ASTM C478.
3. INVERTS AND SHELVES: MANHOLES SHALL HAVE A BRICK PAVED SHELF AND INVERT. CONSTRUCTED TO CONFORM TO THE SIZE OF PIPE AND FLOW. CARE SHALL BE TAKEN TO INSURE THAT THE BRICK INVERT IS A SMOOTH CONTINUATION OF THE INVERT. INVERT BRICKS SHALL BE LAID ON EDGE. AT CHANGES IN DIRECTION, THE INVERTS SHALL BE LAID OUT IN CURVES OF THE LONGEST POSSIBLE TANGENT TO THE CENTER LINE OF THE PIPES. SHELVES SHALL BE CONSTRUCTED TO AN ELEVATION OF 1/2 THE PIPE DIA. AND SLOPE TO DRAIN TOWARD THE FLOWING THROUGH CHANNEL.
4. FRAMES AND COVERS: MANHOLE FRAMES AND COVERS SHALL BE OF HEAVY DUTY DESIGN AND PROVIDE A 30-INCH CLEAR OPENING. LETTER "D" OR WORD "DRAIN", IN 3-INCH LETTERS SHALL BE PLAINLY CAST INTO THE CENTER OF EACH COVER.
5. BEDDING: SCREENED GRAVEL AND/OR CRUSHED STONE FREE FROM CLAY, LOAM, ORGANIC MATTER AND MEETING ASTM C33. STONE SIZE NO. 67.
 - 100% PASSING 1 INCH SCREEN
 - 0-10% PASSING #4 SIEVE
 - 90-100% PASSING 3/4 INCH SCREEN
 - 0- 5% PASSING #8 SIEVE
 - 20- 55% PASSING 3/8 INCH SCREEN
6. SHALLOW MANHOLE: IN LIEU OF A CONE SECTION, WHEN MANHOLE IS LESS THAN 5 FEET, A REINFORCED CONCRETE SLAB COVER HAVING AN ECCENTRIC ENTRANCE AND CAPABLE OF SUPPORTING H=20 LOADS MAY BE USED.

LEGEND:

<ul style="list-style-type: none"> STONE WALL IRON ROD IRON PIPE BOUND as DESCRIBED WOOD HUB SURVEY NAIL DRILL HOLE CHAIN LINK FENCE POST & RAIL FENCE PRIVACY FENCE PSNH.....PUBLIC SERVICE CO. OF NH EVS.....EVERSOURCE 110-5.....TAX SHEET - LOT NUMBER RCRD.....ROCKINGHAM COUNTY REGISTRY OF DEEDS EOP.....EDGE OF PAVEMENT SAC.....SLOPED FACED ASPHALT CURB SGC.....SLOPED FACED GRANITE CURB VCC.....VERTICAL FACED CONCRETE CURB VGC.....VERTICAL FACED GRANITE CURB BOLLARD SIGN DOUBLE POST SIGN UTILITY POLE UTILITY POLE W/TRANSFORMER UTILITY POLE WITH ARM & LIGHT GUY ELECTRICAL CONDUIT ELECTRICAL BOX ELECTRIC METER TELEPHONE RISER BLACK STEEL/COATED STEEL GAS LINE PLASTIC GAS LINE GAS METER GAS SHUT OFF 	<ul style="list-style-type: none"> GAS VALVE WATER GATE VALVE WATER SHUT OFF VALVE HYDRANT CATCH BASIN CATCH BASIN DRAIN MANHOLE SEWER MANHOLE TREE LINE/BRUSH LINE CONIFEROUS TREE DECIDUOUS TREE CONIFEROUS SHRUB DECIDUOUS SHRUB WATER LINE SEWER LINE DRAIN LINE GAS LINE UNDERGROUND ELECTRIC UNDERGROUND COMMUNICATIONS UNDERGROUND UTILITIES OVERHEAD WIRES OVERHEAD ELECTRIC CEMENT CONCRETE PAVERS CRUSHED STONE RIP RAP LANDSCAPED AREA RIGHT OF WAY SPOT GRADE
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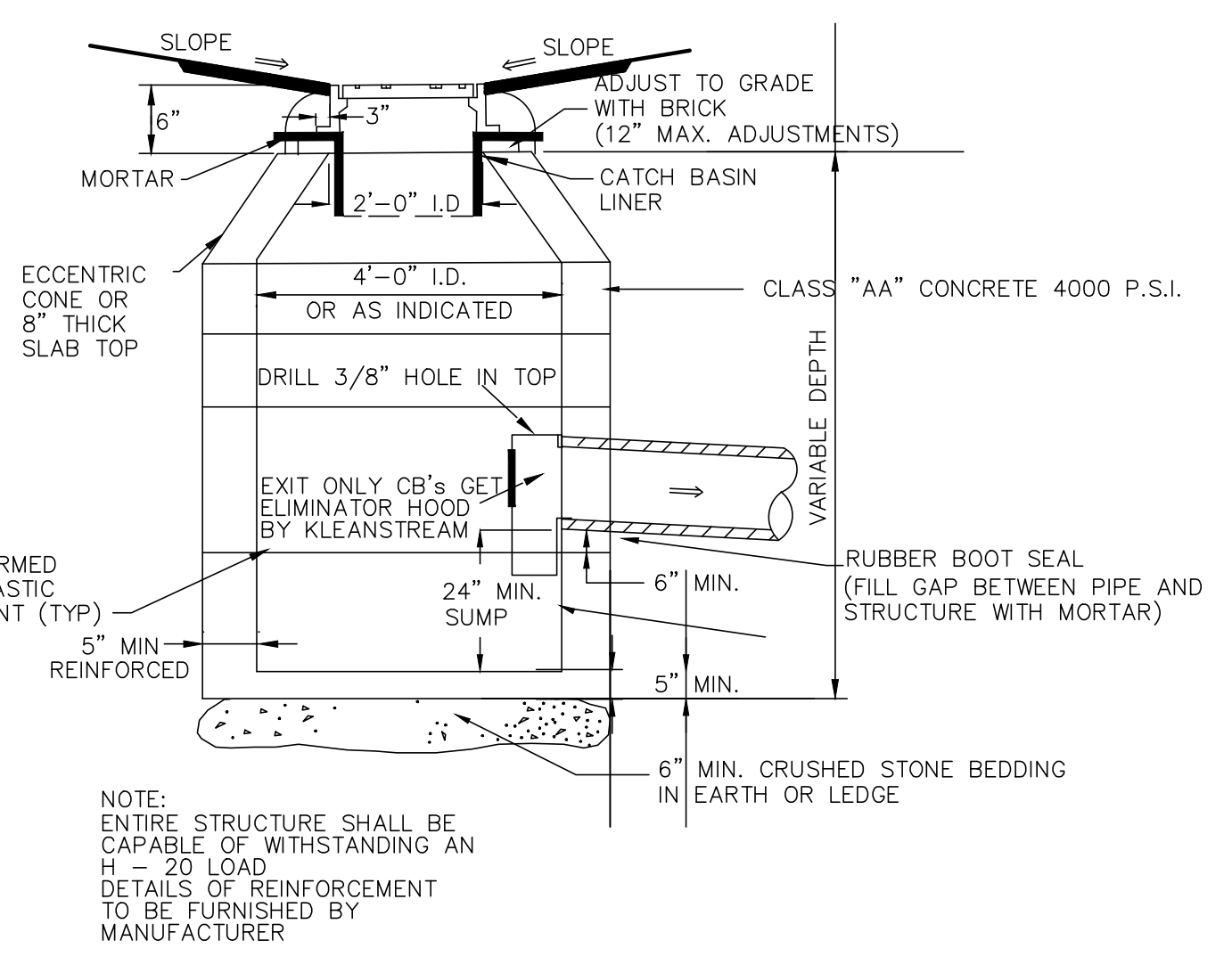
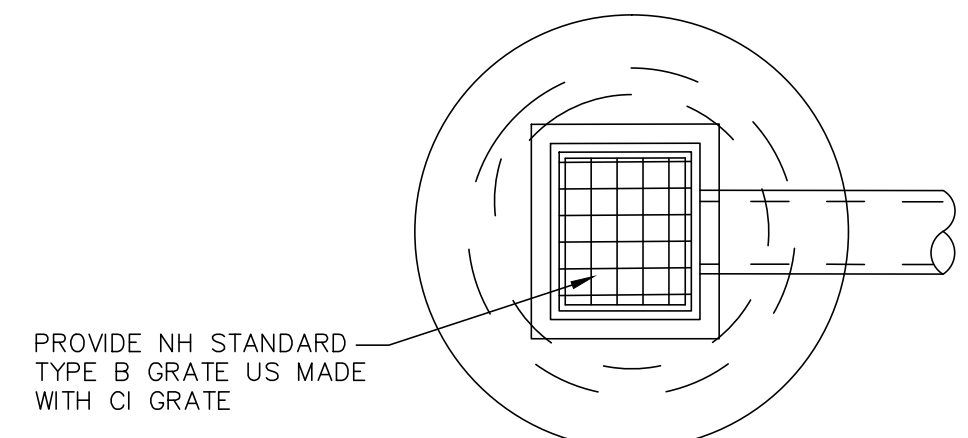
NOTE:
1.) ALL PAVEMENT MATCHES AT DRIVEWAY SHALL BE SAWCUT AND KEVED FOR SMOOTH TRANSITION (SUBSIDIARY)



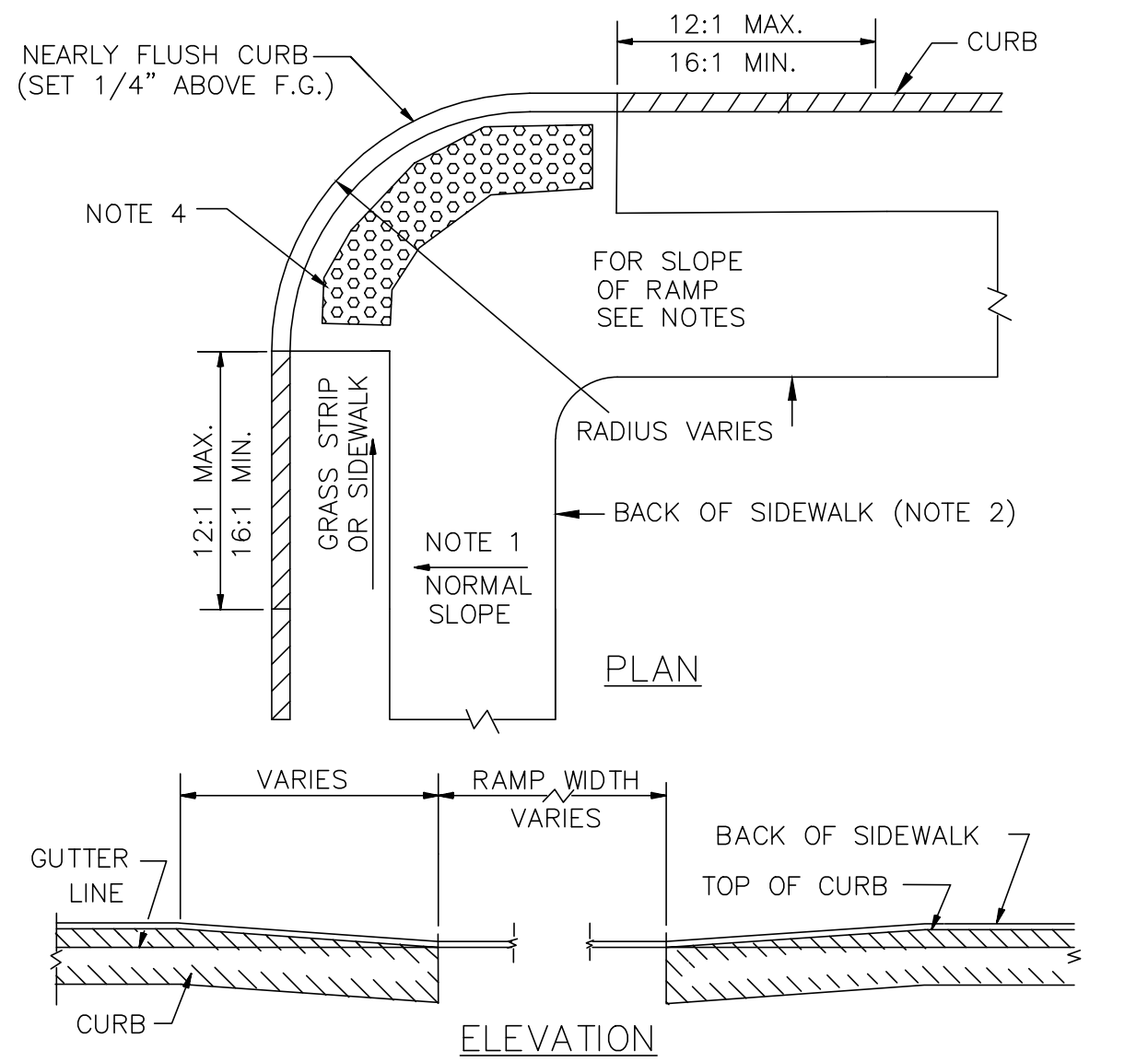
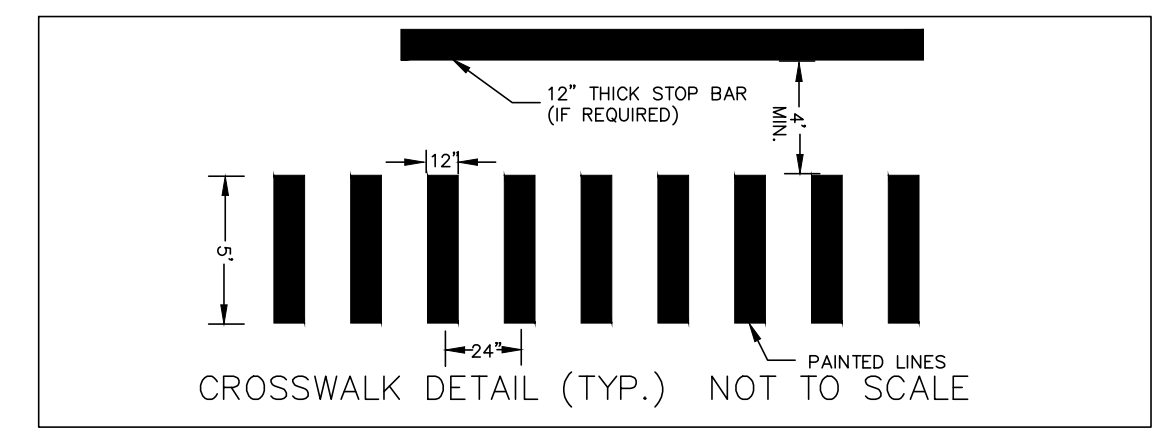
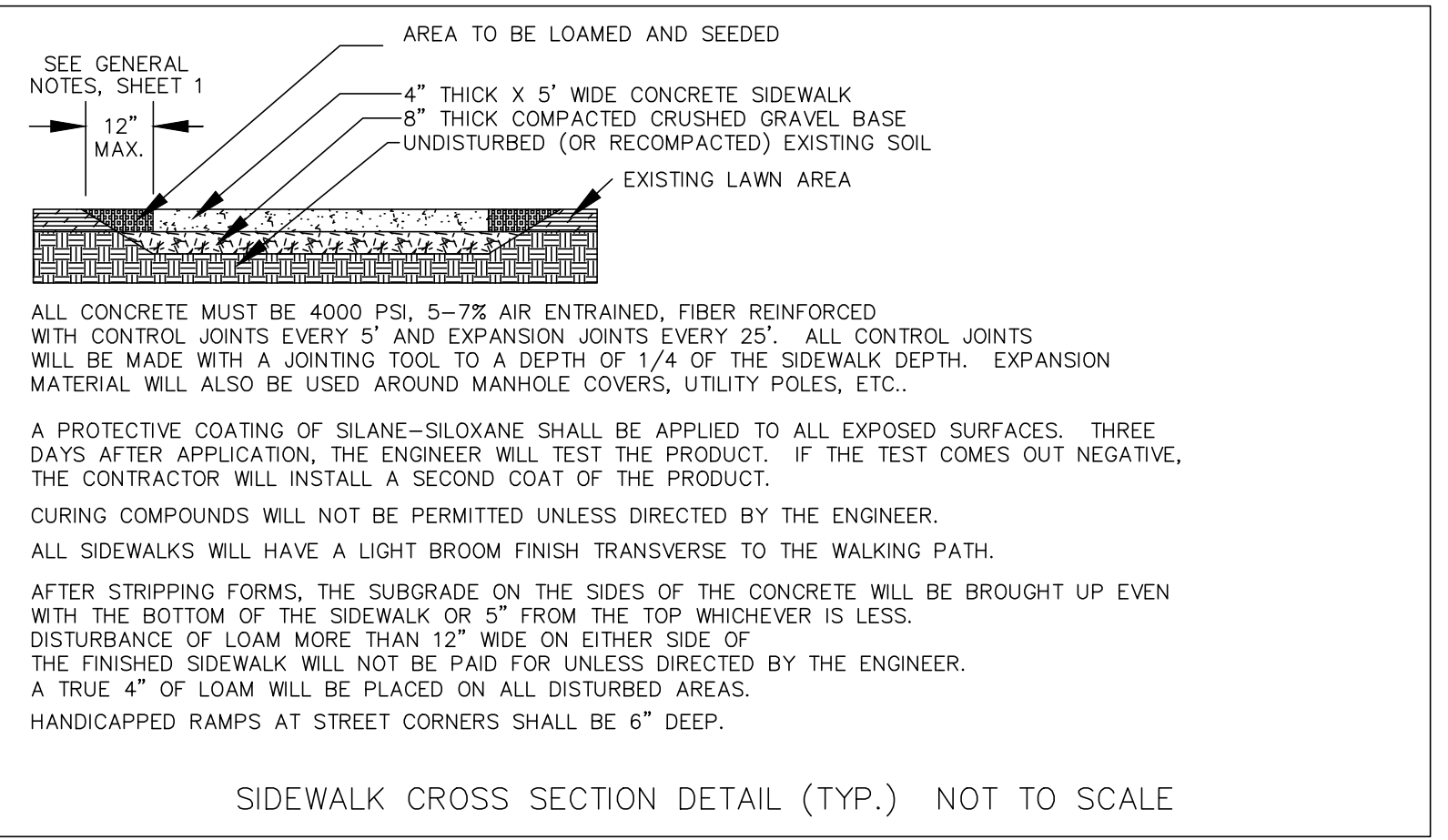
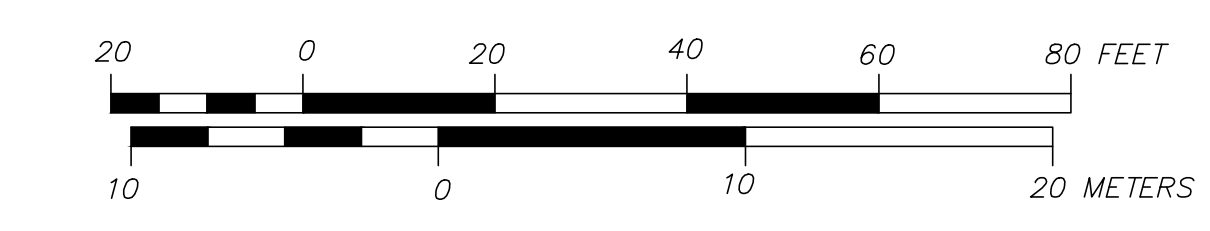
DRIVEWAY APRON/CURB CUT
NOT TO SCALE

DRIVEWAY NOTES

1. PAVEMENT & GRAVEL DEPTHS FOR RESIDENTIAL DRIVES SHALL BE 8" CRUSHED GRAVEL WITH 3.0" H.B.P. (HAND METHOD) IN TWO LIFTS 1 3/4" OF BINDER AND 1 1/4" OF TOP.
2. CURBING CAN BE FLARED TO FIT DRIVE RADII IF APPROPRIATE OR ENDED AS DETAILED ABOVE.
3. DRIVEWAY CURB CUTS SHALL MATCH EXISTING APRON WIDTHS UNLESS OTHERWISE DIRECTED.
4. FOR UNPAVED DRIVES, THE PAVED APRON NORMALLY ENDS AT THE RADIUS TANGENT POINT OR BACK OF SIDEWALK, WHICHEVER IS GREATER.



CATCH BASIN
NOT TO SCALE



GENERAL NOTES

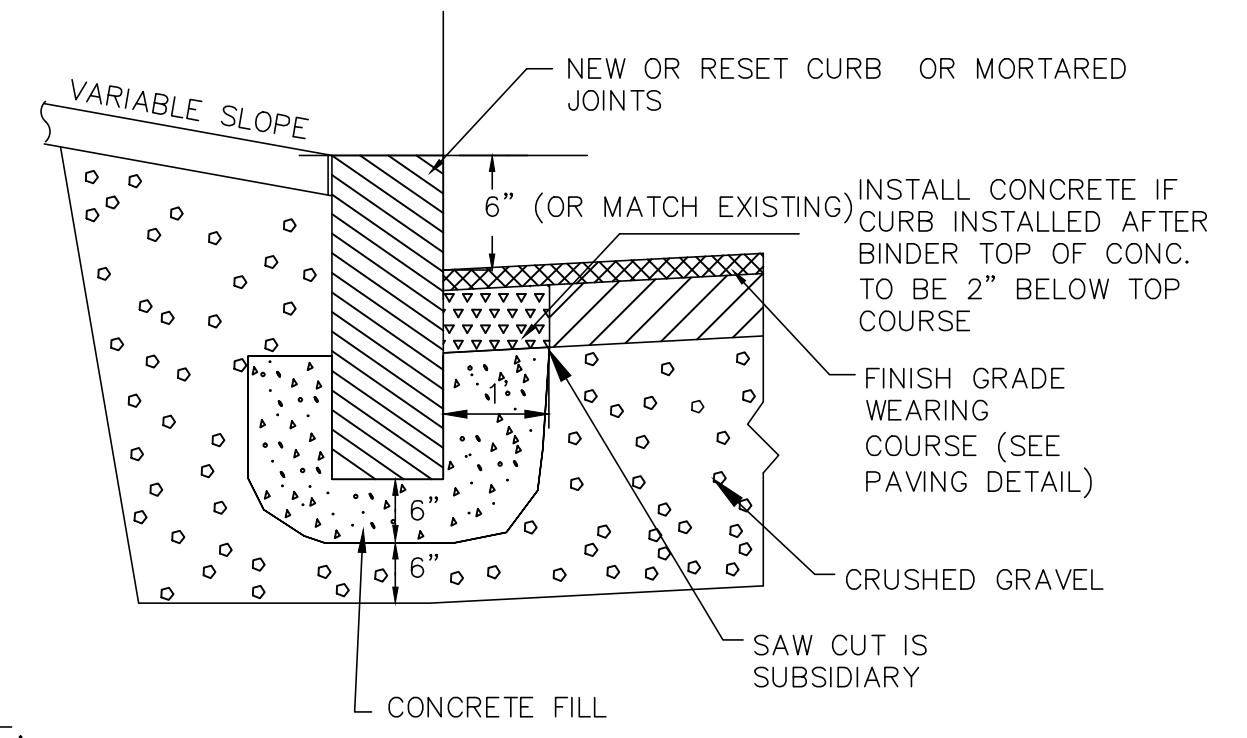
1. THE MAXIMUM RUNNING SLOPE OF ANY SIDEWALK CURB RAMP IS 12:1, THE MAXIMUM CROSS-SLOPE IS 2%.
2. TRANSITIONS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. REFER TO CROSS SECTION PLANS (TO BE PROVIDED) FOR ROADWAY SHOULDER SLOPES ADJOINING SIDEWALK.
3. THE BOTTOM OF THE SIDEWALK CURB RAMP OR LANDING, EXCLUSIVE OF THE FLARED SIDES, SHALL BE WHOLLY CONTAINED WITHIN THE LIMITS SHOWN ON THE DRAWINGS.
4. CORNER RAMPS ARE TO BE CONSTRUCTED WITH REINFORCED CONCRETE 6" DEPTH. TRUNCATED DOME PANEL SHALL BE FULL WIDTH OF RAMP AND SHALL BE CAST IRON. USE RADIUS PANELS (AS SHOWN ABOVE) FOR MULTIDIRECTIONAL CROSSWALKS AND RECTANGULAR PANELS FOR LINEAR CROSSINGS.

CORNER SIDEWALK RAMP
NOT TO SCALE

REV. NO.	DATE	DESCRIPTION	APPR'D
<p>PROPOSED SIDEWALK DETAILS SPINNEY/MIDDLE SIDEWALK PROJECT PORTSMOUTH, NEW HAMPSHIRE</p> <p>for CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS</p>			
DATE:		1/14/2019	
JOB NO:			
SCALE:		1" = 20'	
DWG NAME:			
PLAN NO:			
SHEET:		5 OF 5	

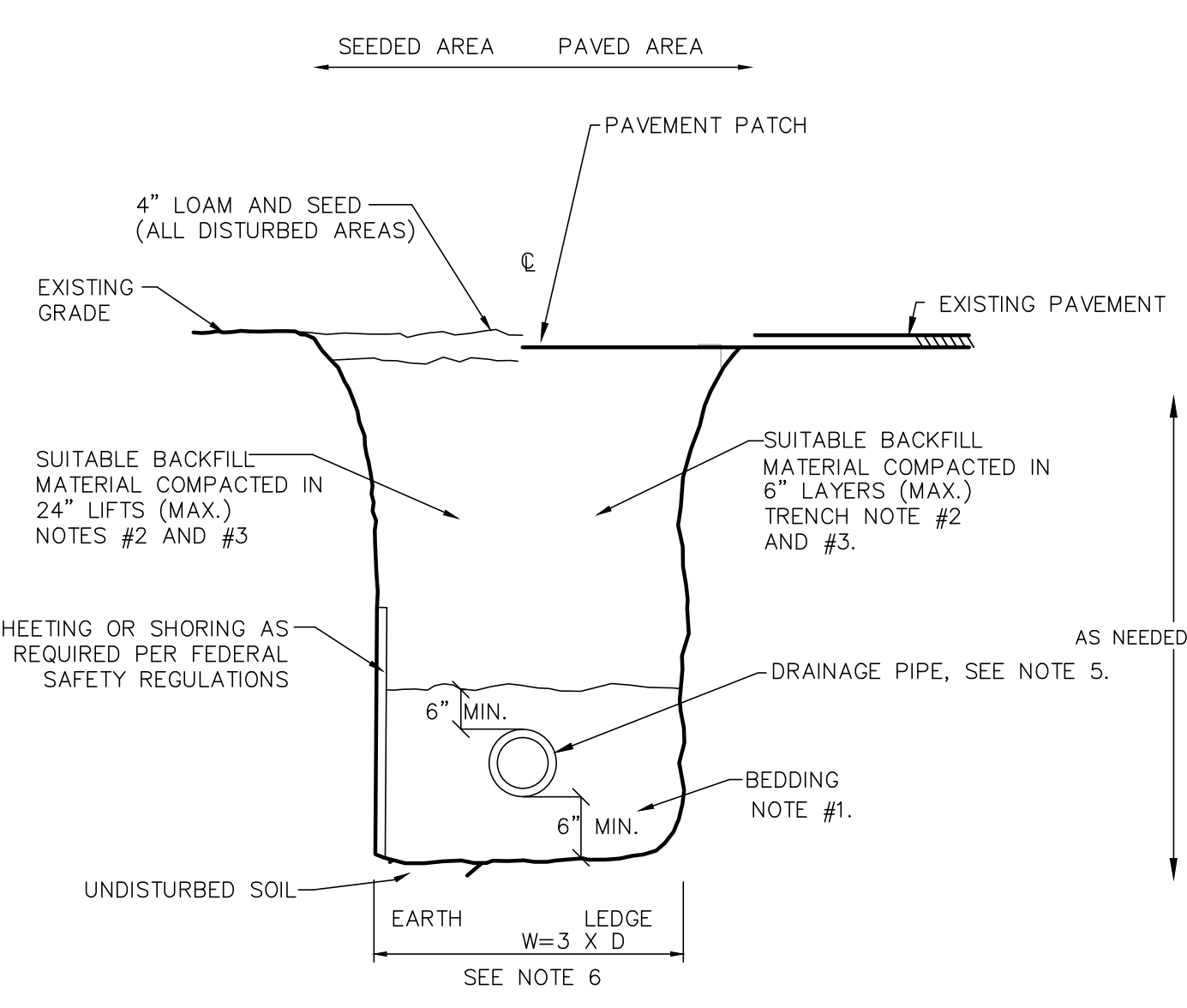
TRENCH NOTES - STORM DRAIN

1. **BEDDING**
BEDDING FOR PIPES SHALL CONSIST OF PREPARING THE BOTTOM OF THE TRENCH TO SUPPORT THE ENTIRE LENGTH OF THE PIPE AT A UNIFORM SLOPE AND ALIGNMENT. CRUSHED STONE SHALL BE USED TO BED THE PIPE TO THE ELEVATION SHOWN ON THE DRAWINGS. NORMAL PIPE BEDDING IS CRUSHED STONE TO THE HAUNCH OF THE PIPE AND SAND BEDDING 6" ABOVE THE CROWN. IF THE TOP OF THE PIPE IS LESS THAN 30" FROM FINISH GRADE, BED PIPE COMPLETELY IN STONE UP TO 6" ABOVE PIPE CROWN. UNDERDRAIN TO HAVE 4" MIN' OF STONE OVER PIPE OR AS NECESSARY TO BE IN CONTACT WITH GRAVEL LAYER OF SELECTS ABOVE.
2. **COMPACTION:**
ALL BACKFILL SHALL BE COMPACTED AT OR NEAR OPTIMUM MOISTURE CONTENT BY PNEUMATIC TAMPERS, VIBRATORY COMPACTORS OR OTHER APPROVED MEANS. BACKFILL BENEATH PAVED SURFACES SHALL BE CO-MPACTED TO NOT LESS THAN 95 PERCENT OF AASHTO 199, METHOD C.
3. **SUITABLE MATERIAL:**
IN ROADS, ROAD SHOULDERS, WALKWAYS AND TRAVELED WAYS, SUITABLE MATERIAL FOR TRENCH BACKFILL SHALL BE THE NATURAL MATERIAL EXCAVATED DURING THE COURSE OF CONSTRUCTION, BUT SHALL EXCLUDE DEBRIS; PIECES OF PAVEMENT; ORGANIC MATTER; TOP SOIL; ALL WET OR SOFT MUCK, PEAT, OR CLAY; ALL EXCAVATED LEDGE MATERIAL; ROCKS OVER 6 INCHES IN LARGEST DIMENSION; FROZEN EARTH AND ANY MATERIAL WHICH, AS DETERMINED BY THE ENGINEER, WILL NOT PROVIDE SUFFICIENT SUPPORT OR MAINTAIN THE COMPLETED CONSTRUCTION IN A STABLE CONDITION.
IN SEEDED AREAS, SUITABLE MATERIAL SHALL BE AS DESCRIBED ABOVE, EXCEPT THAT THE ENGINEER MAY PERMIT THE USE OF TOP SOIL, LOAM, ROCKS UNDER 12". FROZEN EARTH OR CLAY, IF HE/SHE IS SATISFIED THAT THE COMPLETED CONSTRUCTION WILL BE ENTIRELY STABLE AND PROVIDED THAT EASY ACCESS TO THE PIPE WILL BE PRESERVED.
4. **BASE COURSE AND PAVEMENT:**
SHALL MEET THE REQUIREMENTS OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION'S LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES - DIVISIONS 300 AND 400 RESPECTIVELY.
5. **DRAINAGE PIPE:**
PIPE MATERIALS SHALL BE POLYETHYLENE (SEE SPECIFICATIONS)
6. **W=MAXIMUM ALLOWABLE TRENCH WIDTH:**
W SHALL BE THE MAXIMUM PAYMENT WIDTH FOR ROCK EXCAVATION (TRENCH) AND FOR ORDERED EXCAVATION BELOW GRADE.

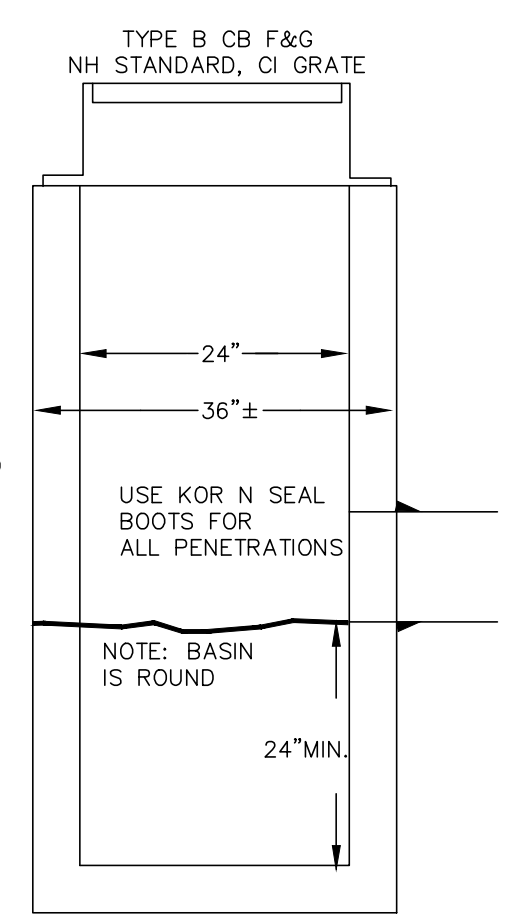


NOTE:
1. DAMAGED OR IMPACTED CURB IS TO BE REPLACED AT THE CONTRACTORS OWN EXPENSIVE, UNLESS OTHERWISE NOTED ON PLAN.
2. CLASS B CONCRETE FILL SHALL BE PLACED IN VOIDS IN FRONT, BEHIND, AND BELOW CURBING PRIOR TO INSTALLATION OF GRAVEL BACKING AND FINISH GRADE WEARING COURSE PAVEMENT.

VERTICAL CURB - RESET OR NEW
NOT TO SCALE



TRENCH DETAIL - STORM DRAIN
NOT TO SCALE



DI CATCH BASIN
NOT TO SCALE