

Ross Engineering, LLC
Civil / Structural Engineering

909 Islington Street
Portsmouth, NH 03801

603-433-7560
alexross@comcast.net

806 US Route 1 Bypass
Project Description

April 5, 2022

This site review application is for minor improvements to an existing fully developed site. The existing lot includes a retail building and an asphalt parking lot. A 400 SF walk-in cooler is proposed off the rear of the existing building. The entire 400 SF footprint is currently asphalt. Currently, there is a drainage line underneath the existing building. The line would be cut, and filled with concrete, with new catch basins and lines installed to direct the flow around the building rather than under it. No increase in impervious surface is proposed.

Improvements include:

- Re-routing and correcting odd drainage line configuration
- Create fenced in dumpster location
- Configure parking on site
- Add landscaping
- Square off rear of building for addition

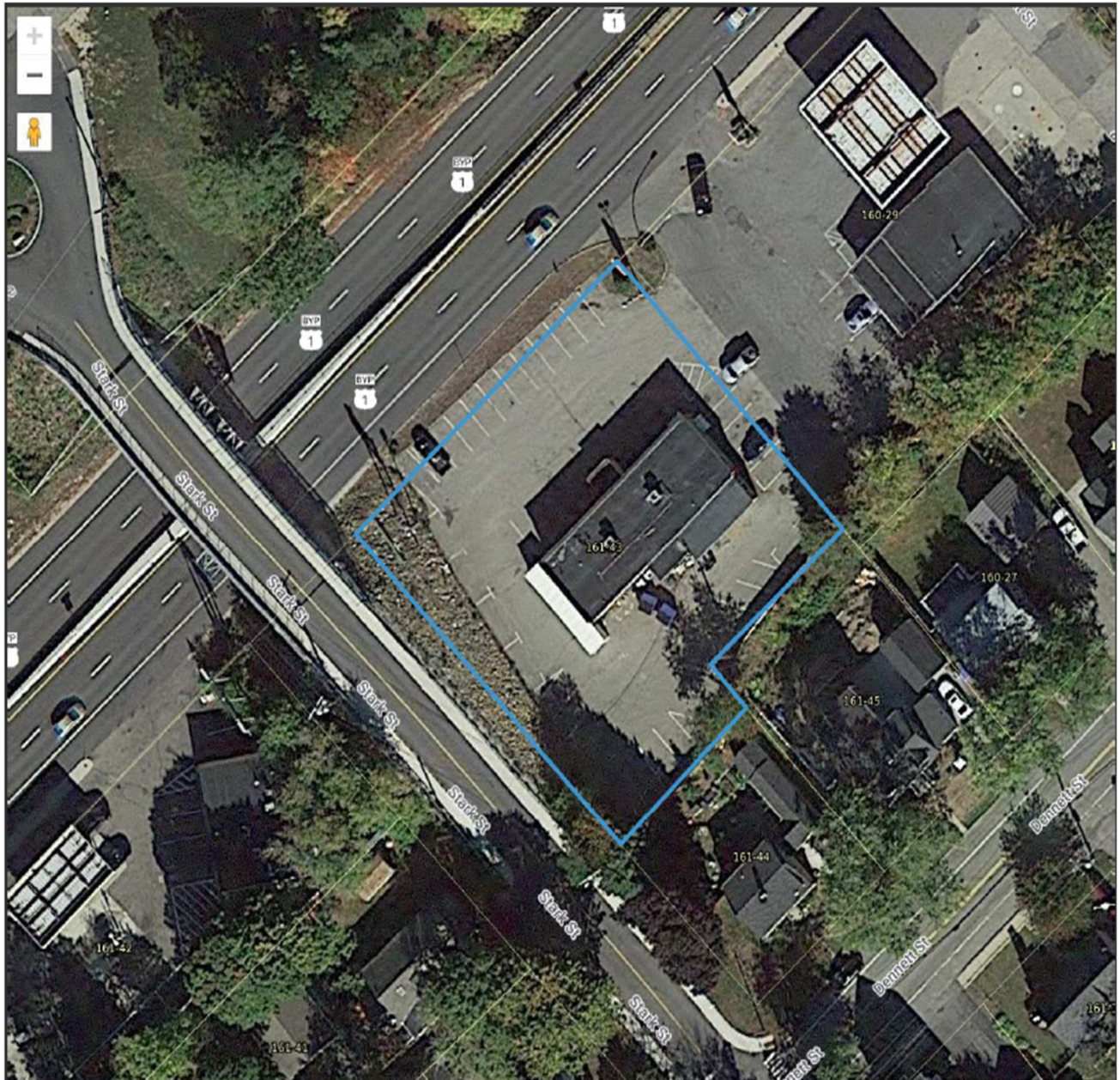
Sincerely,

Alex Ross, P.E.

Ross Engineering
Civil / Structural Engineering

909 Islington Street
Portsmouth, NH 03801

603-433-7560
alexross@comcast.net



**Ross Engineering
Civil / Structural Engineering**

**909 Islington Street
Portsmouth, NH 03801**

**603-433-7560
alexross@comcast.net**



**Ross Engineering
Civil / Structural Engineering**

909 Islington Street
Portsmouth, NH 03801

603-433-7560
alexross@comcast.net



View of existing building looking to the southwest



View of front of existing building looking to the southeast

**Ross Engineering
Civil / Structural Engineering**

909 Islington Street
Portsmouth, NH 03801

603-433-7560
alexross@comcast.net



View of right front side of existing building looking to the southeast



View of existing building looking to the east

**Ross Engineering
Civil / Structural Engineering**

**909 Islington Street
Portsmouth, NH 03801**

**603-433-7560
alexross@comcast.net**



View of southwest corner of parking lot



View of existing building looking to the southwest

**Ross Engineering
Civil / Structural Engineering**

**909 Islington Street
Portsmouth, NH 03801**

**603-433-7560
alexross@comcast.net**



View of rear of existing building looking to the north

Site Plan Review

806 Route 1 Bypass

Portsmouth, New Hampshire

PREPARED FOR:

RIGZ ENTERPRISES LLC

PREPARED BY:

ROSS ENGINEERING, LLC

Civil/Structural Engineering
& Surveying

909 Islington St.
Portsmouth, NH 03801
(603) 433-7560

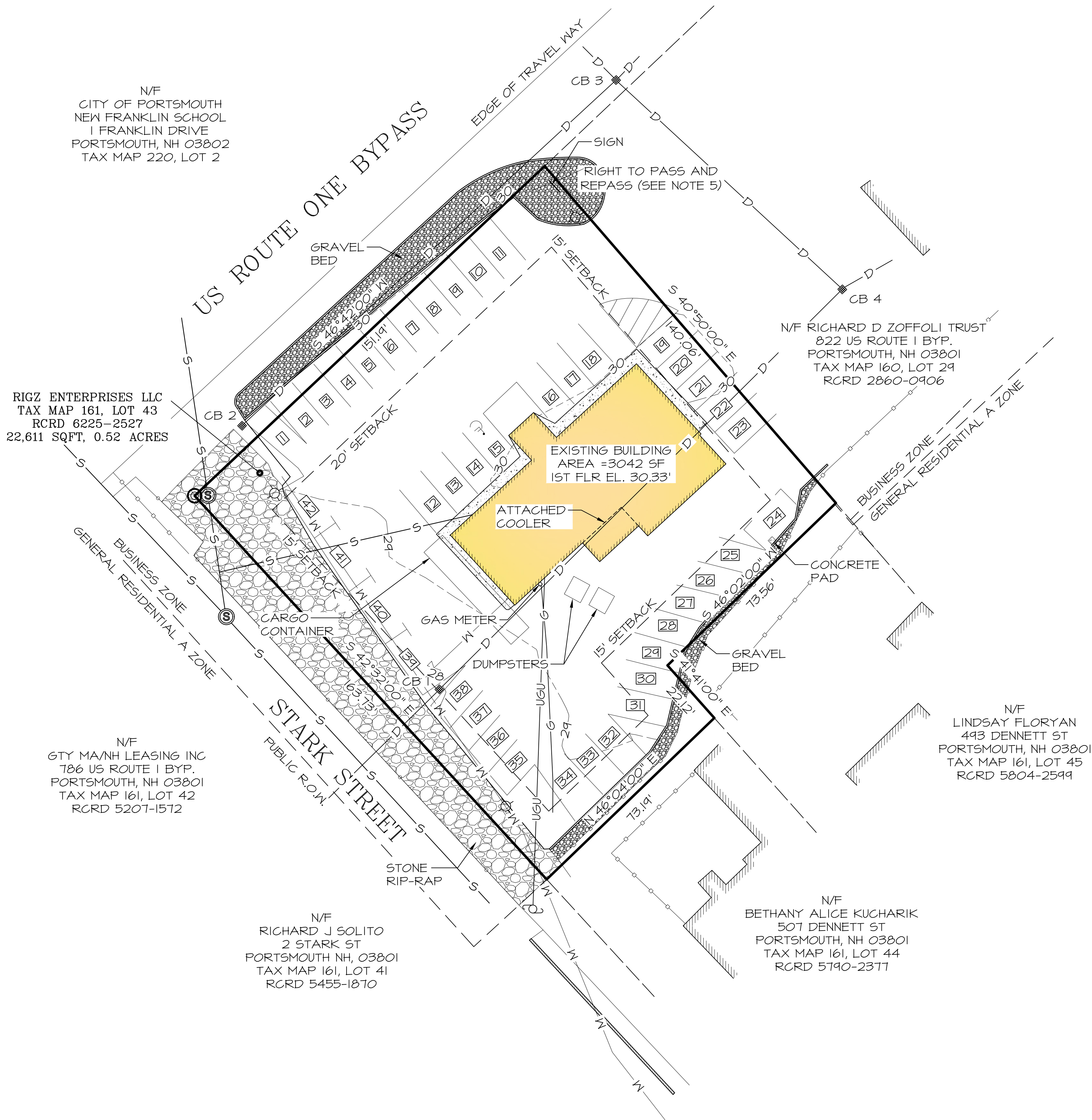
LIST OF PROJECT PLANS:

SITE PLAN SET

- 1 - Existing Conditions Plan
- 2 - Site Plan
- 3 - Utility Plan
- 4 - Landscape Plan
- 5 - Notes & Details

APRIL 5, 2022

SEE NOTE 2



LEGEND

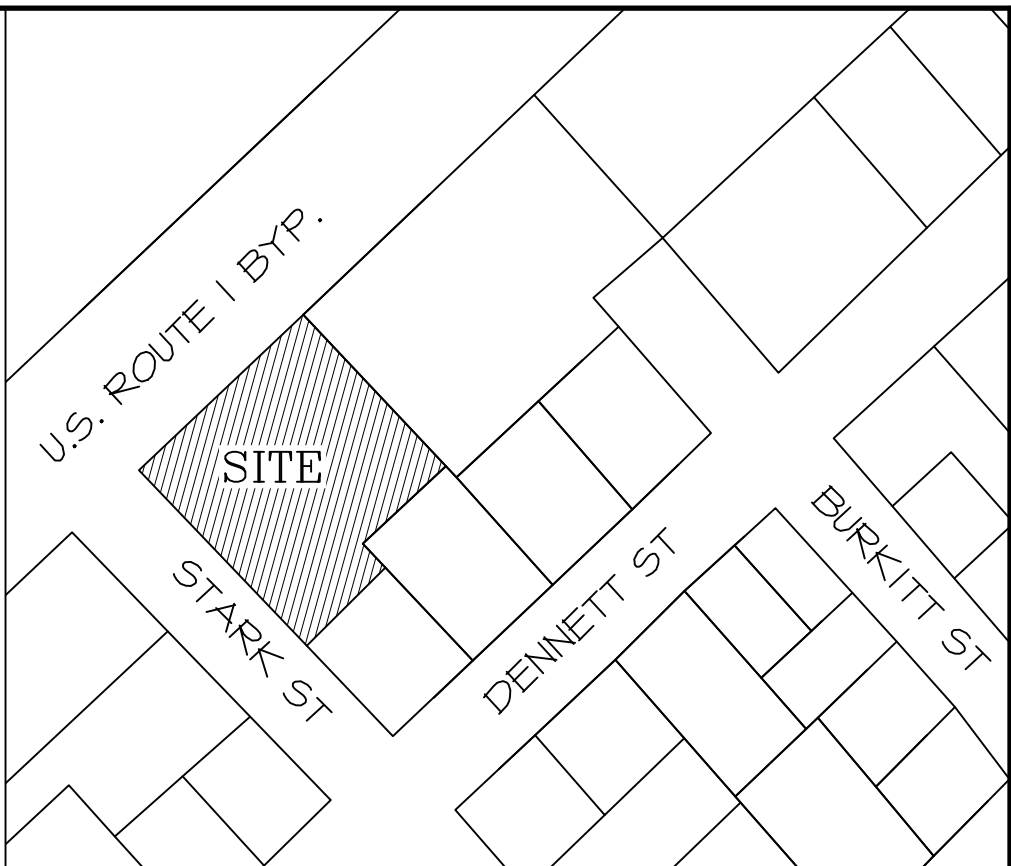
- MONUMENT FOUND
- 6' STOCKADE FENCE
- VERTICAL GRANITE CURB
- 6' CHAIN LINK FENCE
- UTILITY POLE
- CATCH BASIN
- WATER VALVE

EXISTING STRUCTURES
CATCH BASIN

- CB 1
RIM EL. 27.49
INV. IN 21.86 (20" PIPE) SW
INV. OUT 20.91 (20" PIPE) NE
- CB 2
RIM EL. 29.46
INV. OUT 25.81 (12" CMP)
- CB 3
RIM EL. 29.27
INV. IN 23.83 (12" CMP) SW
INV. IN 22.72 (12" CMP) NE
INV. IN 22.68 (20" RCP) NW
INV. OUT 22.62 (20" RCP) SE
- CB 4
RIM EL. 30.48
INV. IN 18.20 (20" RCP) SW
INV. IN 18.20 (20" RCP) NW
INV. OUT 18.15 (20" RCP) NE

REFERENCE PLANS

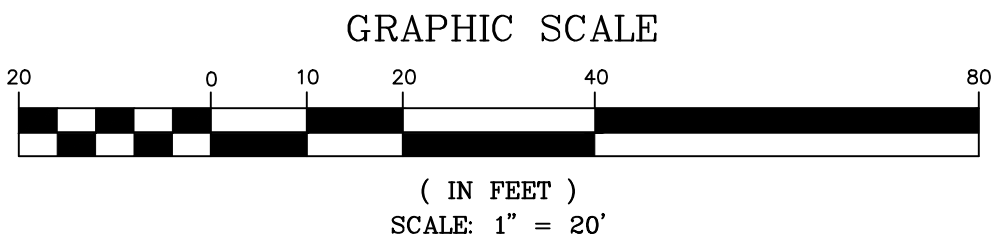
- 1) "SITE PLAN FOR HENRY S. DUTKOWSKI
MOMMA D'S CASA DI PASTA, 806 US
ROUTE 1 BYPASS & STARK STREET" BY
MILLETTE, SPRAGUE & COLWELL, INC.
DATED JULY 15, 2004.



LOCUS PLAN
N.T.S.

NOTES

- 1) OWNER OF RECORD:
RIGZ ENTERPRISES
TAX MAP 161, LOT 43
806 US ROUTE 1 BYPASS
PORTSMOUTH, NH 03801
RCRD: 6225-2527
AREA: 22,611 SF, 0.52 ACRES
- 2) BASIS OF BEARING HELD FROM PLAN REFERENCE #1.
- 3) PARCEL IS IN BUSINESS ZONE (B):
MINIMUM LOT AREA.....20,000 SF
MIN. LOT AREA PER DWELLING UNIT.....2,500 SF
MINIMUM FRONTAGE.....100 FT
MINIMUM DEPTH.....80 FT
SETBACKS:
FRONT.....20 FT
SIDE.....15 FT
REAR.....15 FT
MAXIMUM BUILDING HEIGHT.....50 FT
MAXIMUM BUILDING COVERAGE.....35%
MINIMUM OPEN SPACE.....15%
- 4) THE PARCEL IS NOT WITHIN A FEMA FLOOD ZONE,
AS PER FLOOD INSURANCE RATE MAP
#33015C0259F, PANEL 259 OF 681, DATED
JANUARY 29, 2021. VERTICAL DATUM IS NAVD 1988.
- 5) A RIGHT TO PASS AND REPASS FROM THE
INTERSTATE HIGHWAY USING THE EXITS IN COMMON
WITH OTHERS LOCATED ON LAND FORMERLY OF D.
RICHARD ZOFFOLI FOR PURPOSES OF PASSING
AND REPASSING TO THE INTERSTATE HIGHWAY
EXISTS TO THE BENEFIT OF LOT 43 OVER LAND OF
LOT 29. SEE RCRD 2781-1490.



1	4/5/2022	FOR TAC
ISS.	DATE	DESCRIPTION OF ISSUE
SCALE	1" = 20'	
CHECKED	A.ROSS	
DRAWN	L.C.A.	
CHECKED		
ROSS ENGINEERING, LLC Civil/Structural Engineering & Surveying 909 Islington St. Portsmouth, NH 03801 (603) 433-7560		
CLIENT DAVID GRZYBOWSKI		
TITLE EXISTING CONDITIONS PLAN 806 US-1 BYP. PORTSMOUTH, NH 03801 TAX MAP 161, LOT 43		
JOB NUMBER	DWG. NO.	ISSUE
21-072	1 OF 5	1



N/F
CITY OF PORTSMOUTH
NEW FRANKLIN SCHOOL
1 FRANKLIN DRIVE
PORTSMOUTH, NH 03802
TAX MAP 220, LOT 2

RIGZ ENTERPRISES LLC
TAX MAP 161, LOT 43
RCRD 6225-2527
22,611 SQFT, 0.52 ACRES

N/F
GTY MA/NH LEASING INC
186 US ROUTE 1 BYP.
PORTSMOUTH, NH 03801
TAX MAP 161, LOT 42
RCRD 5207-1572

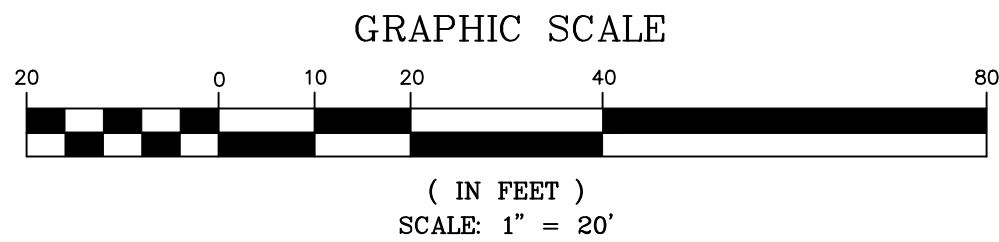
N/F
RICHARD J SOLITO
2 STARK ST
PORTSMOUTH, NH 03801
TAX MAP 161, LOT 41
RCRD 5455-1870

N/F
BETHANY ALICE KUCHARIK
507 DENNETT ST
PORTSMOUTH, NH 03801
TAX MAP 161, LOT 44
RCRD 5190-2377

N/F RICHARD D ZOFFOLI TRUST
822 US ROUTE 1 BYP.
PORTSMOUTH, NH 03801
TAX MAP 160, LOT 29
RCRD 2860-0906

N/F
LINDSAY FLORYAN
493 DENNETT ST
PORTSMOUTH, NH 03801
TAX MAP 161, LOT 45
RCRD 5804-2599

ALL CONDITIONS ON THIS PLAN
SHALL REMAIN IN EFFECT IN
PERPETUITY PURSUANT TO THE
REQUIREMENTS OF THE SITE PLAN
REVIEW REGULATIONS.



CITY OF PORTSMOUTH PLANNING BOARD

CHAIRPERSON

DATE

NOTES

1) OWNER OF RECORD:
RIGZ ENTERPRISES
18 DIXON LANE
DERRY, NH 03038
RCRD: 6225-2527
806 US ROUTE 1 BYPASS, TAX MAP 161, LOT 43
AREA: 22,611 SQ FT, 0.52 ACRES

2) PARCEL IS IN BUSINESS ZONE (B):
MINIMUM LOT AREA.....20,000 SF
MIN. LOT AREA PER DWELLING UNIT.....2,500 SF
MINIMUM FRONTAGE.....100 FT
MINIMUM DEPTH.....80 FT
SETBACKS:
FRONT.....20 FT
SIDE.....15 FT
REAR.....15 FT
MAXIMUM BUILDING HEIGHT.....50 FT
MAXIMUM BUILDING COVERAGE.....35%
MINIMUM OPEN SPACE.....15%

3) COVERAGES:
BUILDING COVERAGE
EXISTING BUILDING COVERAGE
BUILDING # COOLER.....3,042 SF
EXISTING STRUCTURE.....3,042 SF
BUILDING COVERAGE= 3,042 / 22,611 = 13.5%

PROPOSED BUILDING COVERAGE
BUILDING # COOLER.....3,442 SF
BUILDING COVERAGE 3,442 / 22,611 = 15.2%

OPEN SPACE
EXISTING OPEN SPACE
BUILDING COVERAGE.....3,042 SF
CONCRETE SIDEWALK.....455 SF
ASPHALT.....15,958 SF
GRANITE CURB.....83 SF
STONE RIP-RAP.....2,063 SF
CONCRETE PAD.....3 SF
TOTAL LOT COVERAGE.....21,604 SF
EXISTING OPEN SPACE= 22,611-21,604 = 1,007 SF
EXISTING OPEN SPACE= 1,007 / 22,611 = 4.5%

PROPOSED OPEN SPACE
BUILDING COVERAGE.....3,442 SF
CONCRETE SIDEWALK.....455 SF
PARKING LOT.....14,521 SF
GRANITE CURB.....83 SF
STONE RIP-RAP.....2,063 SF
CONCRETE PAD.....3 SF
TOTAL LOT COVERAGE.....20,567 SF
PROPOSED OPEN SPACE=22,611-20,567=2,044 SF
PROPOSED OPEN SPACE = 2,044 / 22,611 = 9.0%

4) PARKING SPACES:
AS PER PORTSMOUTH ZONING ORDINANCE
10.1112.321, PARKING SPACES FOR RETAIL USE
SHALL BE 1 SPACE PER 300 SF GROSS FLOOR
AREA.
3,442 SF / 300 SF/SPACE = 11.47 = 12 SPACES
12 SPACES REQUIRED
31 SPACES PROVIDED

LEGEND

- MONUMENT FOUND
- 6' STOCKADE FENCE
- VERTICAL GRANITE CURB
- 6' CHAIN LINK FENCE
- UTILITY POLE
- CATCH BASIN
- WATER VALVE
- SEWER MANHOLE
- LAMP POST
- UNDERGROUND UTILITIES
- GAS LINE
- DRAIN LINE
- WATER LINE
- SEWER LINE

1	4/5/2022	FOR TAC	
ISS.	DATE	DESCRIPTION OF ISSUE	
SCALE	1" = 20'		
CHECKED	A.ROSS		
DRAWN	D.D.D.		
CHECKED			
ROSS ENGINEERING, LLC			
Civil/Structural Engineering & Surveying 909 Islington St. Portsmouth, NH 03801 (603) 433-7560			
CLIENT DAVID GRZYBOWSKI			
TITLE 806 US-1 BYP. PORTSMOUTH, NH 03801 TAX MAP 161, LOT 43			
JOB NUMBER	DWG. NO.	ISSUE	
21-072	2 OF 5	1	



N/F
CITY OF PORTSMOUTH
NEW FRANKLIN SCHOOL
1 FRANKLIN DRIVE
PORTSMOUTH, NH 03802
TAX MAP 220, LOT 2

RIGZ ENTERPRISES LLC
TAX MAP 161, LOT 43
RCRD 6225-2527
22,611 SQFT, 0.52 ACRES

N/F
GTY MA/NH LEASING INC
786 US ROUTE 1 BYP.
PORTSMOUTH, NH 03801
TAX MAP 161, LOT 42
RCRD 5207-1572

N/F
RICHARD J SOLITO
2 STARK ST
PORTSMOUTH, NH 03801
TAX MAP 161, LOT 41
RCRD 5455-1870

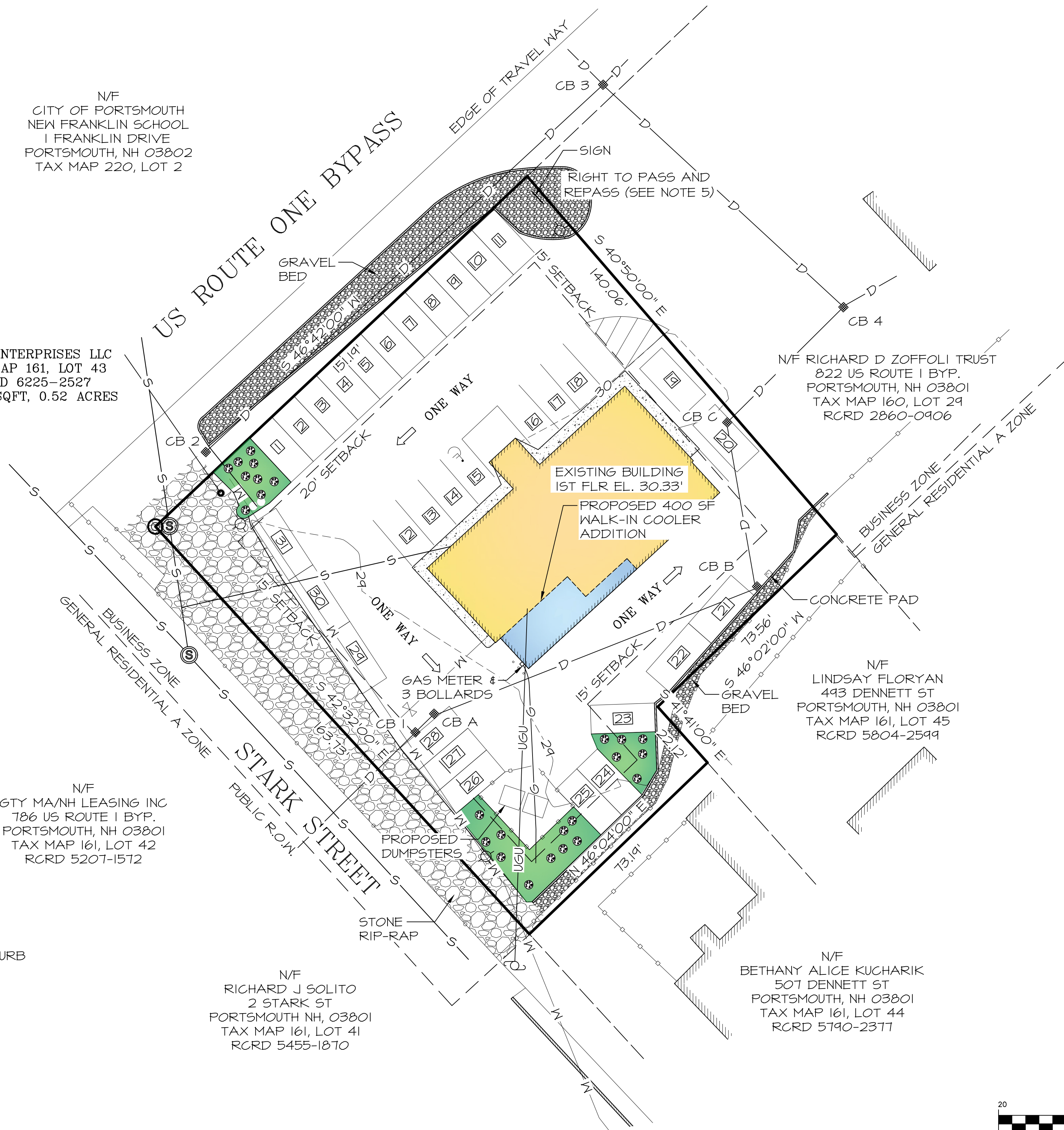
N/F
BETHANY ALICE KUCHARIK
507 DENNETT ST
PORTSMOUTH, NH 03801
TAX MAP 161, LOT 44
RCRD 5790-2377

N/F
LINDSAY FLORYAN
493 DENNETT ST
PORTSMOUTH, NH 03801
TAX MAP 161, LOT 45
RCRD 5804-2599

N/F RICHARD D ZOFFOLI TRUST
822 US ROUTE 1 BYP.
PORTSMOUTH, NH 03801
TAX MAP 160, LOT 29
RCRD 2860-0906

LEGEND

- MONUMENT FOUND
- 6' STOCKADE FENCE
- VERTICAL GRANITE CURB
- 6' CHAIN LINK FENCE
- UTILITY POLE
- CATCH BASIN
- WATER VALVE
- SEWER MANHOLE
- LAMP POST
- UNDERGROUND UTILITIES
- GAS LINE
- DRAIN LINE
- WATER LINE
- SEWER LINE



UTILITIES:

CONTACT LIST:

STORMWATER: PORTSMOUTH DPW:603-427-1530

PROPOSED UTILITIES:

- STORMWATER
EXISTING DRAINAGE LINE UNDER THE BUILDING TO BE TAKEN OUT OF SERVICE AND FILLED WITH CONCRETE.

SILTSACKS TO BE INSTALLED ON CATCH BASINS 1 & 4 PRIOR TO CONSTRUCTION.
SILTSACKS TO REMAIN IN PLACE UNTIL DRAINAGE SYSTEM IS FULLY OPERATIONAL.

3 NEW CATCH BASINS TO BE INSTALLED CONNECTED EXISTING CBI TO EXISTING CB4.
SILTSACKS TO BE INSTALLED ON ALL 3 PROPOSED CATCH BASINS DURING CONSTRUCTION UNTIL DRAINAGE SYSTEM IS FULLY OPERATIONAL.

ALL PROPOSED DRAINAGE LINE SIZES TO MATCH EXISTING DRAINAGE LINE SIZES.
EXISTING DRAINAGE LINE SIZE IS ±20".
- GAS:
A NEW METER WILL BE INSTALLED ON THE SIDE OF THE WALK-IN COOLER. THE EXISTING GAS LINE WILL BE RE-ROUTED TO THE NEW METER.

GENERAL NOTES

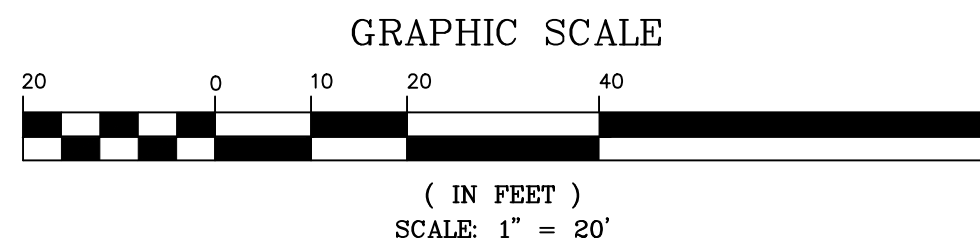
- CONTRACTOR TO REVIEW ALL SURFACING TYPES, AND MATERIAL SPECIFICATIONS WITH COMMISSIONER OF PUBLIC WORKS.
- ALL NECESSARY NHDOT, NHDES & TOWN PERMITS MUST BE OBTAINED.
- ALL CONSTRUCTION SHALL BE PER NH-DOT, STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION. LATEST REVISION.
- CONTRACTOR SHALL MEET STATE AND TOWN REQUIREMENTS, TO ASSURE TYPE, SEPARATION, COVER, ETC. ALWAYS CALL DIGSAFE PRIOR TO DIGGING. UTILITIES SHOWN ARE APPROXIMATE AND MUST BE VERIFIED.
- SIZE ALL LINES AS PER REQUIREMENTS AND ASSURE THAT PROPOSED HOUSE LOADING AND PRESSURE DEMANDS WILL BE MET.

EXISTING STRUCTURES CATCH BASIN

- CB 1
RIM EL. 27.49
INV. IN 21.86 (±20" PIPE) SW
INV. OUT 20.91 (±20" PIPE) NE
- CB 2
RIM EL. 29.46
INV. OUT 25.81 (12" CMP)
- CB 3
RIM EL. 29.27
INV. IN 23.83 (12" CMP) SW
INV. IN 22.72 (12" CMP) NE
INV. IN 22.68 (±20") NW
INV. OUT 22.62 (±20") SE
- CB 4
RIM EL. 30.48
INV. IN 18.20 (±20") SW
INV. IN 18.20 (±20") NW
INV. OUT 18.15 (±20") NE

PROPOSED STRUCTURES CATCH BASIN

- CB A
RIM EL.
INV. IN 20.82
INV. OUT 20.75
STRUCTURE: 4' Ø CONCRETE BASIN
- CB B
RIM EL.
INV. IN 19.72
INV. OUT 19.60
STRUCTURE: 4' Ø CONCRETE BASIN
- CB C
RIM EL.
INV. IN 19.15
INV. OUT 18.91
STRUCTURE: 4' Ø CONCRETE BASIN



1	4/5/2022	FOR TAC
ISS.	DATE	DESCRIPTION OF ISSUE
SCALE	1" = 20'	
CHECKED	A.ROSS	
DRAWN	D.D.D.	
CHECKED		
ROSS ENGINEERING, LLC		
Civil/Structural Engineering & Surveying		
909 Islington St. Portsmouth, NH 03801 (603) 433-7560		
CLIENT DAVID GRZYBOWSKI		
TITLE UTILITY PLAN		
806 US-1 BYP. PORTSMOUTH, NH 03801 TAX MAP 161, LOT 43		
JOB NUMBER	DWG. NO.	ISSUE
21-072	3 OF 5	1



N/F
CITY OF PORTSMOUTH
NEW FRANKLIN SCHOOL
1 FRANKLIN DRIVE
PORTSMOUTH, NH 03802
TAX MAP 220, LOT 2

RIGZ ENTERPRISES LLC
TAX MAP 161, LOT 43
RCRD 6225-2527
22,611 SQFT, 0.52 ACRES

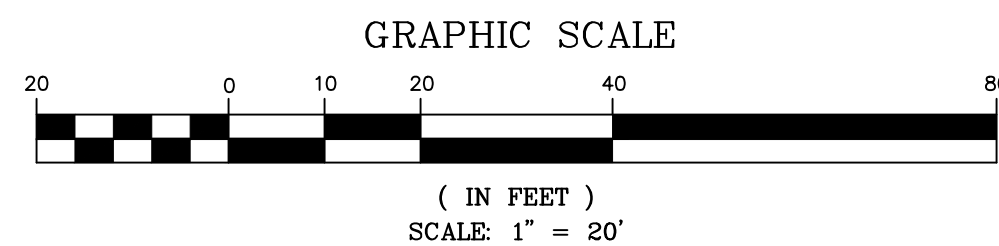
THUJA O. 'TECHNY',
MISSION ARBORVITAE
AT 5' TO 6' (TYP.)

N/F
GTY MA/NH LEASING INC
786 US ROUTE 1 BYP.
PORTSMOUTH, NH 03801
TAX MAP 161, LOT 42
RCRD 5207-1572

N/F
RICHARD J SOLITO
2 STARK ST
PORTSMOUTH NH, 03801
TAX MAP 161, LOT 41
RCRD 5455-1870

N/F
BETHANY ALICE KUCHARIK
507 DENNETT ST
PORTSMOUTH, NH 03801
TAX MAP 161, LOT 44
RCRD 5790-2377

ALL CONDITIONS ON THIS PLAN
SHALL REMAIN IN EFFECT IN
PERPETUITY PURSUANT TO THE
REQUIREMENTS OF THE SITE PLAN
REVIEW REGULATIONS.

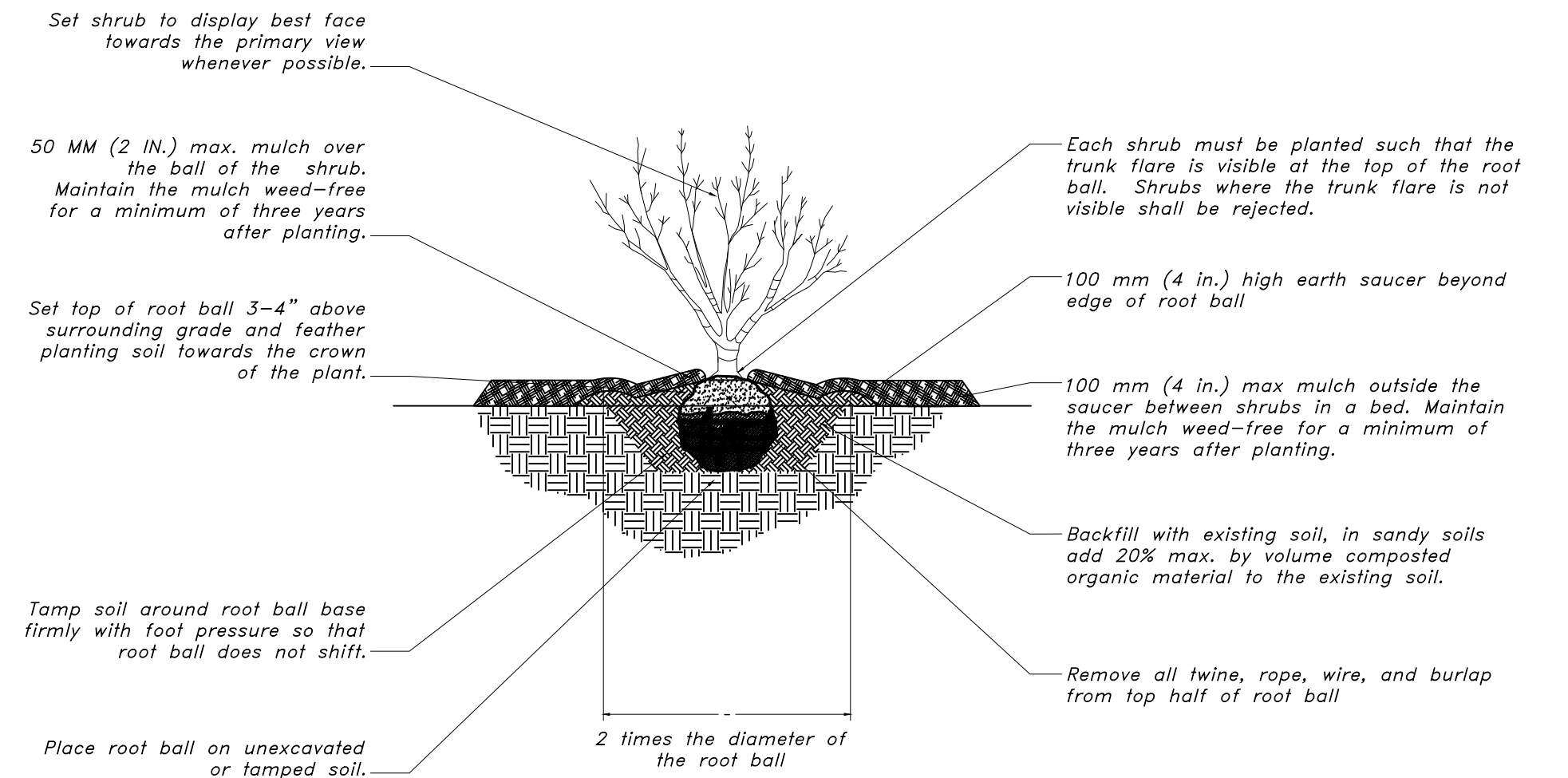


CITY OF PORTSMOUTH PLANNING BOARD

CHAIRPERSON

DATE _____

Shrub Detail



NOTES

- 1) THIS SITE PLAN SHALL BE RECORDED IN THE ROCKINGHAM COUNTY REGISTRY OF DEEDS.
- 2) ALL IMPROVEMENTS SHOWN ON THIS SITE PLAN SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE PLAN BY THE PROPERTY OWNER AND ALL FUTURE PROPERTY OWNERS. NO CHANGES SHALL BE MADE TO THIS SITE PLAN WITHOUT THE EXPRESS APPROVAL OF THE PORTSMOUTH PLANNING DIRECTOR.

INSTALLATION REQUIREMENTS:

1. THE INSTALLATION OF A DRIP IRRIGATION SYSTEM IS RECOMMENDED TO ASSURE WELL GROWN PLANTS.
2. IN CASE OF DROUGHT (DEFINED AS TWO WEEK PERIOD WITHOUT RAIN) ALL NEW PLANTS SHALL BE WATERED THROUGH NOVEMBER 1ST DURING THE FIRST SEASON IN WHICH THE ARE INSTALLED. THEY SHALL BE WATERED ONE TIME PER DAY FOR THE FIRST WEEK AFTER INSTALLATION AND THREE TIMES PER WEEK FOR THE REMAINDER OF THE SEASON. AFTER THE FIRST SEASON WHEN THE ROOTS OF THE PLANTS ARE ESTABLISHED THEY WILL NOT REQUIRE WATERING.
3. SOAKER HOSES WOUND THROUGH THE BED NEAR THE BASE OF EACH PLANT ARE THE RECOMMENDED METHOD OF WATERING DURING THE FIRST SEASON. THESE CA BE REMOVED AFTER NOVEMBER 30TH WHEN THE PLANTS ARE ESTABLISHED.

PLANTING NOTES

1. ALL PLANT MATERIALS SHALL BE FIRST QUALITY NURSERY GROWN STOCK.
2. ALL PLANTS SHALL BE PLANTED IN ACCORDANCE WITH NEW HAMPSHIRE LANDSCAPE ASSOCIATION STANDARDS AND GUARANTEED FOR ONE YEAR BY THE LANDSCAPE CONTRACTOR.
3. AFTER PLANTING, ALL PLANTS SHALL BE FLOODED AT THE BASE WITH WATER FROM A SLOW-RUNNING HOSE FOR 5 MINUTES EACH.
4. ALL PLANTS SHALL BE INSTALLED BEFORE ANY GRASS IS SEEDED.
5. ALL SHRUBS AND PLANTING BEDS SHALL BE MULCHED WITH 3" OF DARK BROWN AGED BARK MULCH AS A FINAL STEP. MULCH MUST BE KEPT 2" AWAY FROM BASE OF EACH PLANT.
6. THE PROPERTY OWNER AND ALL FUTURE PROPERTY OWNERS SHALL BE RESPONSIBLE FOR THE MAINTENANCE, REPAIR, AND REPLACEMENT OF ALL REQUIRED SCREENING AND LANDSCAPE MATERIALS.
7. ALL REQUIRED PLANT MATERIALS SHALL BE TENDED AND MAINTAINED IN A HEALTHY GROWING CONDITION, REPLACED WHEN NECESSARY, AND KEPT FREE OF REFUSE AND DEBRIS. ALL REQUIRED FENCES AND WALLS SHALL BE MAINTAINED IN GOOD REPAIR.
8. THE PROPERTY OWNER IS RESPONSIBLE FOR REMOVING AND REPLACING DEAD OR DISEASED PLANT MATERIALS IMMEDIATELY WITH THE SAME TYPE, SIZE, AND QUANTITY OF PLANT MATERIALS AS ORIGINALLY INSTALLED, UNLESS ALTERNATIVE PLANTINGS ARE REQUESTED, JUSTIFIED, AND APPROVED BY THE PLANNING BOARD OR PLANNING DIRECTOR.

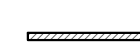
LEGEND



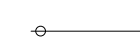
MONUMENT FOUND



6' STOCKADE FENCE



VERTICAL GRANITE CURB



6' CHAIN LINK FENCE



UTILITY POLE



CATCH BASIN



WATER VALVE

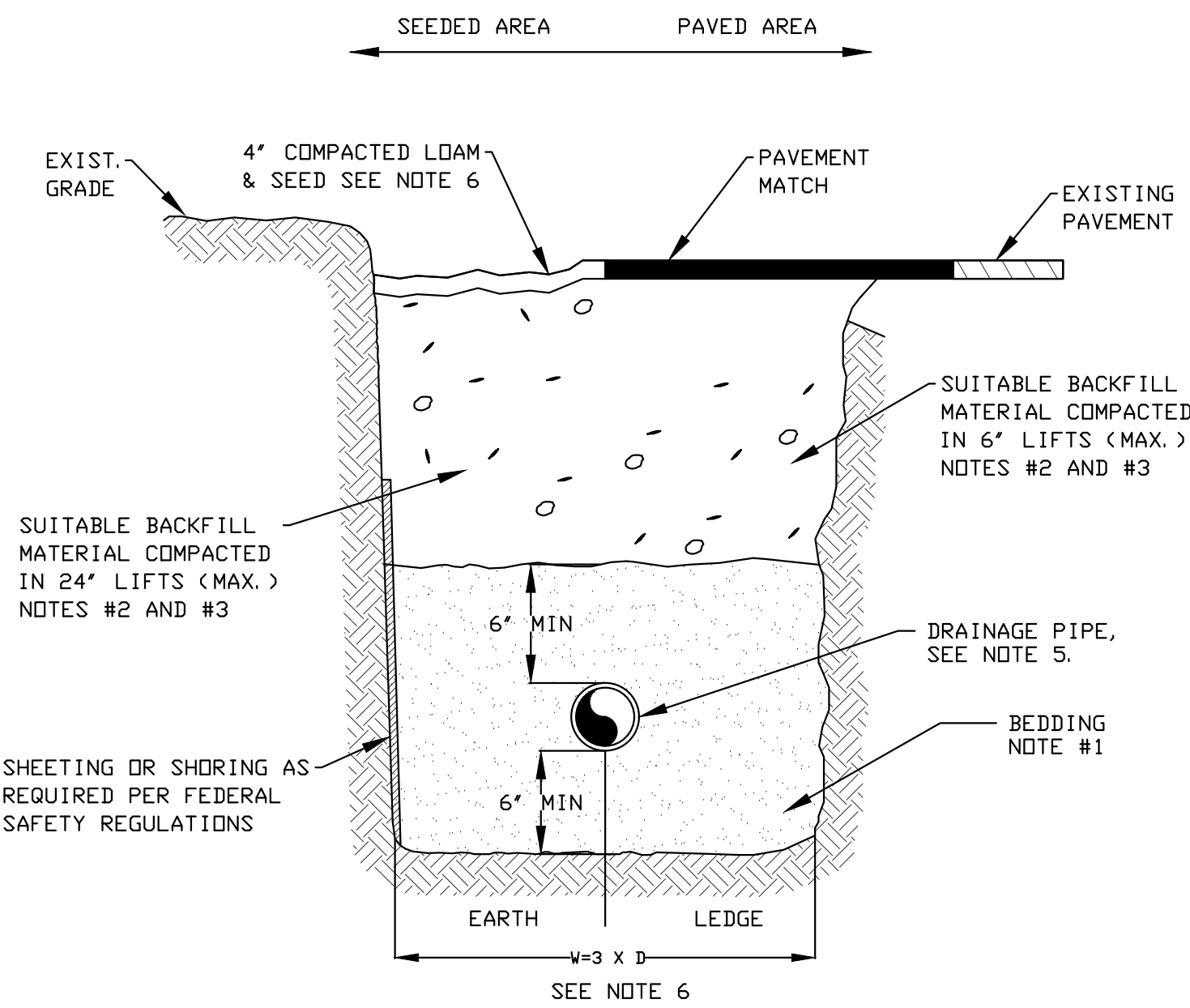


SEWER MANHOLE

ISS.	DATE	FOR TAC	
SCALE	1" = 20'		
CHECKED	A. ROSS		
DRAWN	D.D.D.		
CHECKED			
<u>ROSS ENGINEERING, LLC</u> Civil/Structural Engineering & Surveying 909 Islington St. Portsmouth, NH 03801 (603) 433-7560			
CLIENT	DAVID GRZYBOWSKI		
TITLE LANDSCAPE PLAN 806 US-1 B.Y.P. PORTSMOUTH, NH 03801 TAX MAP 161, LOT 43			
JOB NUMBER	DWG. NO.		ISSUE
21-072	4 OF 5		1

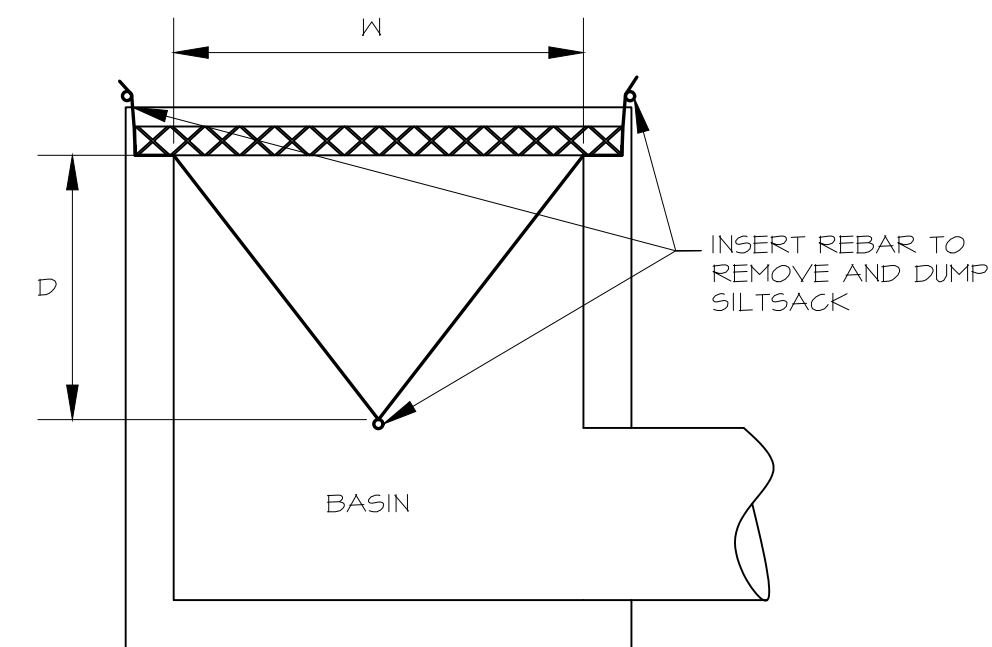
TRENCH NOTES - STORM DRAIN:

- 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. NDRMAL 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. FILTER FABRIC TO BE PLACED IN BETWEEN ALL STONE BEDDING MATERIAL AND SUBSEQUENT LAYERS OF FILL MATERIAL.
- 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 COZMPACTED TO NOT LESS THAN 95 PERCENT OF AASHTO T99, 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 CDOURSE 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, LOAD, ROCKS UNDER 12", FROZEN EARTH OR CLAY, IF HE/SHE IS SATISFIED THAT THE COMPLETED CONSTRUCTION WILL BE ENTIRELY STABLE AND PROVIDED THAT EAST 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.



TRENCH DETAIL-STORM DRAIN

Scale : N.T.S.

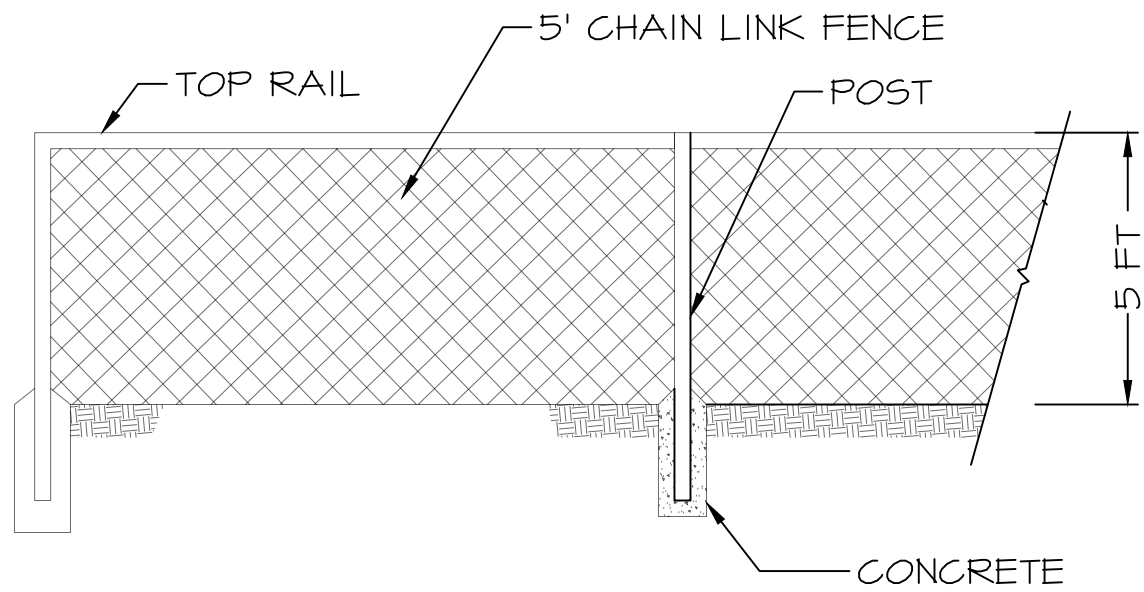


SILTSACK IS TO BE SECURED BY WEIGHT OF BASIN GRATE TO PREVENT SEDIMENT FROM ENTERING THE DRAIN LINE

INSTALL SILTSACK TO CATCH BASINS 1 & 4 PRIOR TO CONSTRUCTION & TO CATCH BASINS A, B, & C DURING CONSTRUCTION. DO NOT REMOVE SILTSACK UNTIL CONSTRUCTION IS COMPLETE AND DRAINAGE LINE IS FULLY OPERATIONAL (SEE SHEET 3)

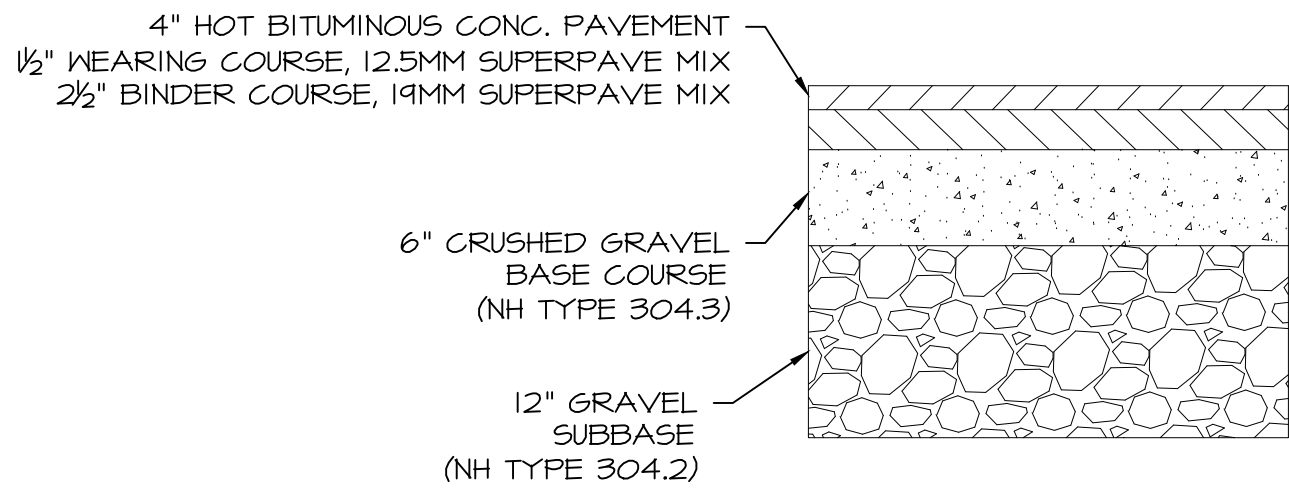
Siltsack

N.T.S.



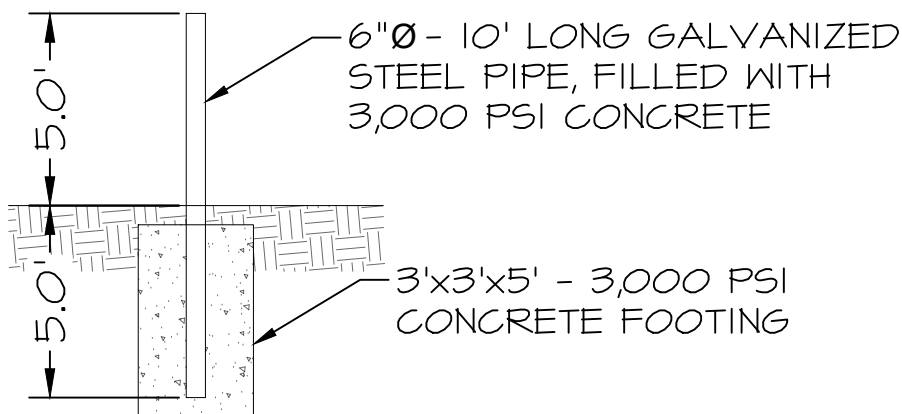
CHAIN LINK FENCE DETAIL

SCALE: NTS



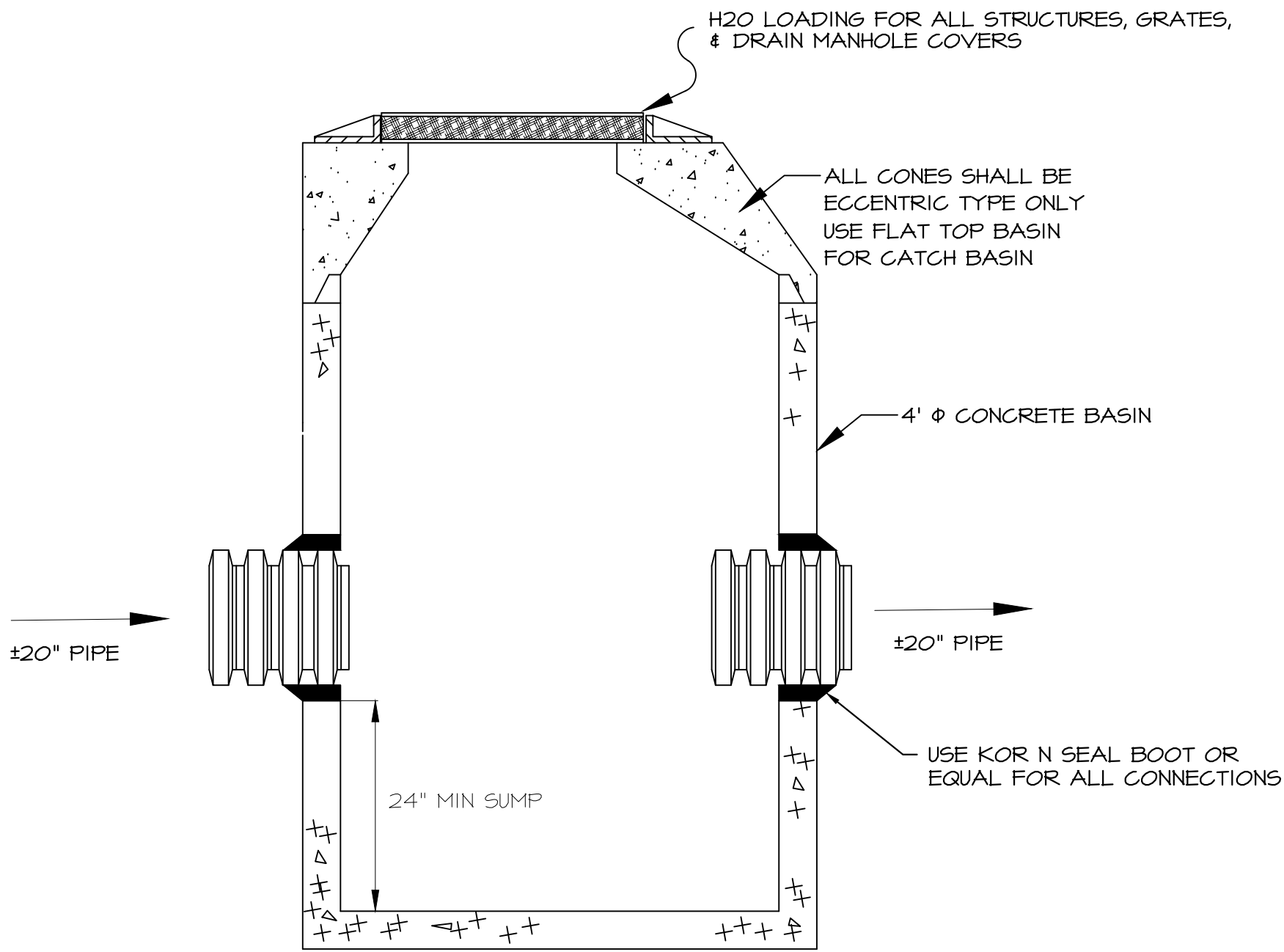
ASPHALT PAVEMENT DETAIL

Scale : N.T.S.



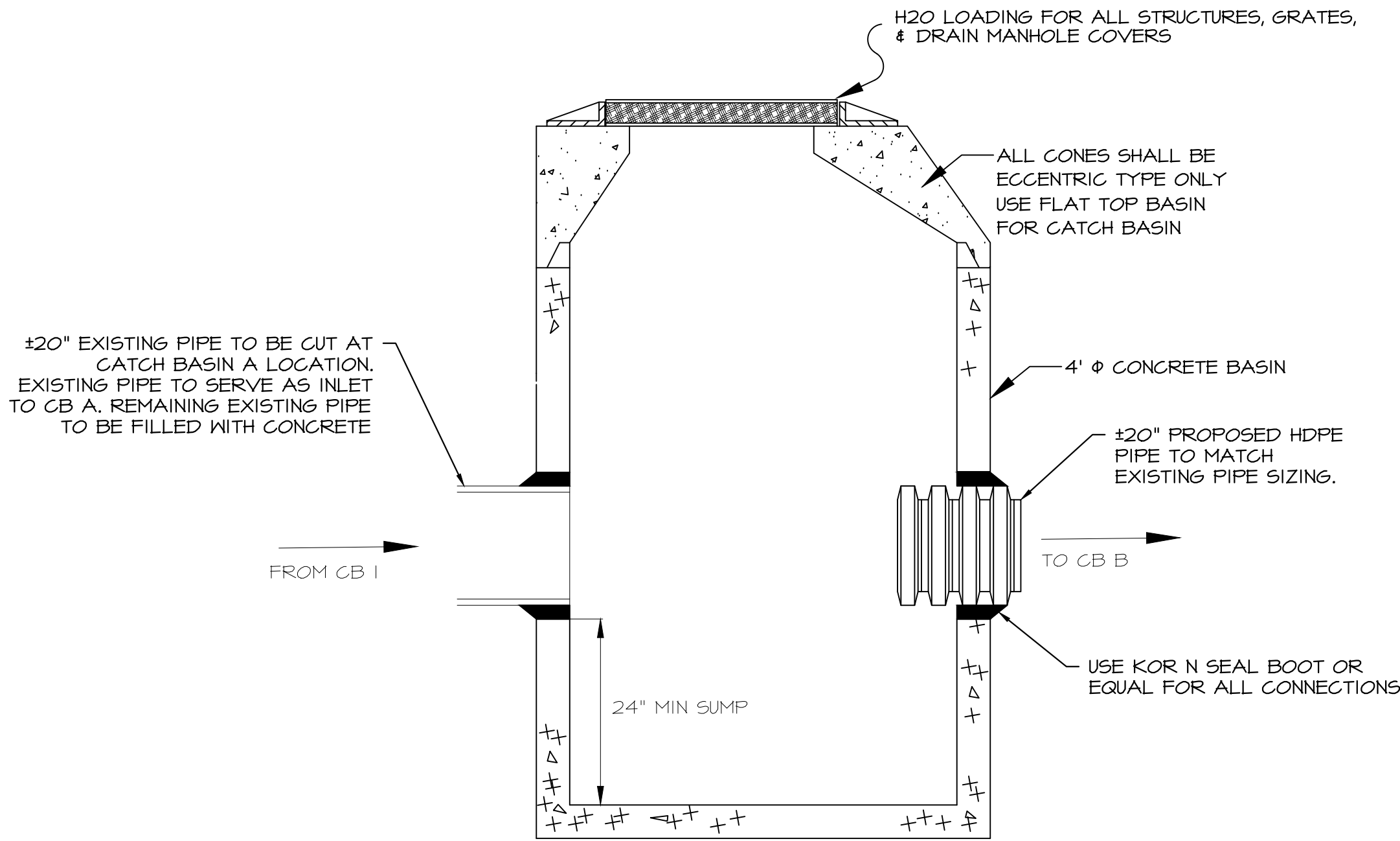
BOLLARD DETAIL

SCALE: NTS



PROPOSED CATCH BASIN (TYP.)

NTS



CATCH BASIN A CONNECTION DETAIL

NTS

1	4/5/2022	FOR TAC	
ISS.	DATE	DESCRIPTION OF ISSUE	
SCALE	1" = 20'		
CHECKED	A.ROSS		
DRAWN	D.D.D.		
CHECKED			
ROSS ENGINEERING, LLC Civil/Structural Engineering & Surveying 909 Islington St. Portsmouth, NH 03801 (603) 433-7560			
CLIENT DAVID GRZYBOWSKI			
TITLE NOTES & DETAILS 806 US-1 BYP. PORTSMOUTH, NH 03801 TAX MAP 161, LOT 43			
JOB NUMBER	DWG. NO.	ISSUE	
21-072	5 OF 5	1	