

Addendum No. 3**Commerce Way Reconstruction
Bid #66-15
City of Portsmouth****Issued May 14, 2015**

This Addendum forms part of the original documents marked: **Bid #66-15 Commerce Way Reconstruction**. Acknowledge receipt of the Addendum within your bid proposal. Failure to acknowledge receipt of the Addendum may subject the Bidder to disqualification.

Contract Document and Specification Changes**Item 3-1 Proposal Form – Page 9**

Delete the Proposal Form in its entirety and **replace** with the revised Proposal Form issued with this Addendum. The following bid items were added:

Item #203.1 Common Excavation
Item #203.6 Embankment in Place
Item #206.20 Rock Structure Excavation
Item #304 1.5" Crushed Stone for Reclaimed Stabilized Base (Token)
Item #306.208 8" Reclaimed Stabilized Base Removed and Rehandled

Item 3-2 Special Provision – Amendment to Section 306 – Page 54

Delete the amended gradation. See response to Bidding Question #2 below.

Item 3-3 Section 02611 – Ductile Iron Pipe & Fittings – Page 71

As listed in Section 2.1E Polyethylene encasement is required for all new water main construction and it shall have an 8 mil thickness.

Drawing Changes**Item 3-4 Drawing R-3A– Roadway Plan and Profile**

Delete Sheet R-3A in its entirety and **replace** with the revised sheet issued with this Addendum. Missing vertical curve geometry has been added to the roadway profile. Revisions to the plan have been clouded.

Item 3-5 Drawing R-5A– Utilities Plan

Delete Sheet R-5A in its entirety and **replace** with the revised sheet issued with this Addendum. Please note the location of (3) existing sewer mains running beneath Commerce Way have been added to the plans along with Utility Note #23. The location of the connection to the existing 12" water main in Commerce Way has been revised. Revisions to the plan have been clouded.

Item 3-6 Drawing R-5B– Utilities Plan

Delete Sheet R-5B in its entirety and **replace** with the revised sheet issued with this Addendum. The location of the connection to the existing 12" water main in Commerce Way has been revised. Revisions to the plan have been clouded.

**Item 3-7 Drawing R-8– Details Sheet
Typical Standard Roadway Section/Typical Divided Roadway Section**

Delete the words "1.5" Superpave Wearing Course (3/8" 50 Gyration) and **replace** with the words "1.5" Superpave Wearing Course (3/8" 75 Gyration)"

Bidding Period Clarifications/Questions & Responses

The following responses/clarifications are based on questions raised during the bidding period.

1. Please confirm retainage of 10% will be held for the entire Guarantee Period of 12-month following Final Completion.

A maintenance bond in lieu of holding the 10% retainage can be requested. It is the City's prerogative whether to allow this or not.

2. Please clarify the intent of Item 306.108 – 8" Reclaimed Stabilized Base. The special provision on page 54 of the specifications is Item 306.208 – 8" Asphalt Stabilized Base Remove & Rehandle and the gradation listed implies the material will need to be removed and rehandled as well as screened. The construction requirements then lists the "road will be reclaimed, finish graded and compacted to a finish grade that will be approved by the engineer", but the cross sections suggest there will be grade changes sufficient enough to remove the reclaim and cut subgrade to the required elevation.

The intent is to reclaim Commerce Way in place. Based on geotechnical analysis of the existing asphalt and subbase/base material a reclamation depth of 8" would, in general, produce a material that meets the gradation requirements for NHDOT – 306 Reclaimed Stabilized Base. The amended gradation listed on page 54 of the Special Provisions has been removed. Depending on the gradation of the actual blended material, 1.5" minus stone may be required to meet the gradation specification for NHDOT 306 Reclaimed Stabilized Base. However, depending on subbase conditions and the extent of grade change, there may be locations where removal and rehandling of reclaimed materials is required in order to excavate to subgrade elevation. Item 306.208 – 8" Reclaimed Stabilized Base Removed and Rehandled was added to the bid proposal form to account for this occurrence.

3. Is there any geotechnical information or as-built plans for the existing Commerce Way? Rumor has it that Commerce Way was built with blast rock through the swamp/marsh area. This may affect our water main installation and dewatering.

Geotechnical Boring/Probe logs are included with this Addendum.

4. Will soils testing be the requirement of the Owner or the Contractor?

The Owner will be responsible for soils testing.

5. The maintenance and warranty for lawns as well as landscaping as listed in the specifications seems excessive. Please confirm the specifications for the maintenance and warranty of lawns and landscaping is correct.

The warranty and maintenance requirements listed in the Special Provision Section are correct.

6. The bid quantities for bid item #628.2 Saw Bituminous Pavement has a unit measurement of "Each". I believe you would want that to be "LF".

The unit measurement for Item 628.20 Saw Bituminous Pavement has been revised to linear foot (LF) and a new bid proposal form has been included with this Addendum.

END OF ADDENDUM NO. 3

Q:\2189B_Portsmouth_NH(CommerceWay-Road Design)\SPECS\2189B_Addendum #3\K0035_Commerce Way Addendum #3.docx

PROPOSAL FORM

Commerce Way Reconstruction

CITY OF PORTSMOUTH, N.H.

To the City of Portsmouth, New Hampshire, herein called the Owner.

The undersigned, as Bidder, herein referred to as singular and masculine declares as follows:

1. All interested in the Bid as Principals are named herein.
2. This bid is not made jointly, or in conjunction, cooperation or collusion with any other person, firm, corporation, or other legal entity;
3. No officer, agent or employee of the Owner is directly or indirectly interested in this Bid.
4. The bidder has carefully examined the sites of the proposed work and fully informed and satisfied himself as to the conditions there existing, the character and requirements of the proposed work, the difficulties attendant upon its execution and the accuracy of all estimated quantities stated in this Bid, and the bidder has carefully read and examined the Drawings, Agreement, Specifications and other Contract Documents therein referred to and knows and understands the terms and provisions thereof;
5. The bidder understands that the quantities of work calculated in the Bid or indicated on the Drawings or in the Specifications or other Contract Documents are approximate and are subject to increase or decrease or deletion as deemed necessary by the Director of Public Works. Any such changes will not result in or be justification for any penalty or increase in contract prices; and agrees that, if the Bid is accepted the bidder will contract with the Owner, as provided in the Contract Documents, this Bid Form being part of said Contract Documents, and that the bidder will supply or perform all labor, services, plant, machinery, apparatus, appliances, tools, supplies and all other activities required by the Contract Documents in the manner and within the time therein set forth, and that the bidder will take in full payment therefore the following item prices, to wit:

ITEM #	EST. QTY.	UNITS	ITEM DESCRIPTION & UNIT PRICE IN WORDS	UNIT PRICE IN FIGURES	ITEM TOTAL IN FIGURES
201.22	35	Ea	Remove Tree and Stump	\$ _____	\$ _____
202.3	420	Sy	Existing Sidewalk Removal (F)	\$ _____	\$ _____
202.41	300	Lf	Removal of misc. existing pipe as directed	\$ _____	\$ _____
202.6	1200	Lf	Remove all existing 4" x 12" curb and stockpile for reuse on adjacent lot (pieces 4' or longer get saved)	\$ _____	\$ _____

PROPOSAL FORM (continued)

ITEM #	EST. QTY.	UNITS	ITEM DESCRIPTION & UNIT PRICE IN WORDS	UNIT PRICE IN FIGURES	ITEM TOTAL IN FIGURES
203.1	600	Cy	Common Excavation	\$ _____	\$ _____
203.6	725	Cy	Embankment in Place	\$ _____	\$ _____
206.20	160	Cy	Rock Structure Excavation	\$ _____	\$ _____
214	14,600	Sy	Fine Grading (F)	\$ _____	\$ _____
304	100	Tons	1.5" Crushed Stone for Reclaimed Stabilized Base (Token)	\$ _____	\$ _____
304.3	410	Cy	Crushed Gravel in place	\$ _____	\$ _____
306.108	11,600	Sy	8" Reclaimed Stabilized Base (Assume 2 mobilizations)	\$ _____	\$ _____
306.208	3,000	Sy	8" Reclaimed Stabilized Base Removed and Rehandled (Assume 2 mobilizations)	\$ _____	\$ _____
403.11A	2040	Tons	Machine Method Bituminous Paving (2 1/2") (Binder 3/4" 50Gyr. Fine Binder)	\$ _____	\$ _____
403.11 B	1214	Tons	Machine Method Bituminous Paving (1 1/2") (Wearing Surface 3/8" 75 Gyr)	\$ _____	\$ _____
403.12	20	Tons	Hand Method Bituminous Paving	\$ _____	\$ _____

PROPOSAL FORM (continued)

ITEM #	EST. QTY.	UNITS	ITEM DESCRIPTION & UNIT PRICE IN WORDS	UNIT PRICE IN FIGURES	ITEM TOTAL IN FIGURES
417	1	LS	Cold Planing Bituminous Surfaces (1-1/2") (Woodbury Avenue Intersection trench repair)	\$ _____	\$ _____
520	140	Cy	Class B Curb Backfill	\$ _____	\$ _____
592.12	800	Sf	Mechanically Stabilized Precast Units	\$ _____	\$ _____
603.82212	745	Lf	12" HDPE Drain Pipe	\$ _____	\$ _____
604.0007	20	Ea	Polyethylene Liner for CB	\$ _____	\$ _____
604.1	14	Ea	Eliminator© systems Oil/Water Separator Hood	\$ _____	\$ _____
604.2	13	Ea	Core and boot existing drain structures	\$ _____	\$ _____
604.12	14	Ea	New Catch Basins (Type B Complete)	\$ _____	\$ _____
604.22	1	Ea	New Drop Inlet Basin (Type B Frame & Grate) (token)	\$ _____	\$ _____
604.51	6	Lf	Reconstruct sewer structures as necessary (Frame and Cover covered under 604.61 below)	\$ _____	\$ _____
604.52	18	Lf	Convert or reconstruct drainage structures (Frame and Cover covered under 604.62 or 604.72 below)	\$ _____	\$ _____
604.61	6	EA	Provide and Install Sewer Manhole Covers	\$ _____	\$ _____

PROPOSAL FORM (continued)

ITEM #	EST. QTY.	UNITS	ITEM DESCRIPTION & UNIT PRICE IN WORDS	UNIT PRICE IN FIGURES	ITEM TOTAL IN FIGURES
604.62	12	EA	Provide and Install Drain Manhole Covers (32" or 24" as appropriate)	\$ _____	\$ _____
604.72	6	EA	Provide and Install CB Frame & Grate (Existing Structures)	\$ _____	\$ _____
605.504	2226	Lf	4" Corrugated Perforated HDPE Underdrain	\$ _____	\$ _____
606.12	340	Lf	Beam Guardrail Standard Section (Steel Post)	\$ _____	\$ _____
606.147	2	Ea	Beam Guardrail Terminal Unit G-2	\$ _____	\$ _____
608.24	1850	Sy	4" Concrete Sidewalk	\$ _____	\$ _____
608.26	100	Sy	6" Concrete Sidewalk in Ramp Areas	\$ _____	\$ _____
608.52	15	Ea	Detectable Warning Surface Panels Brand: Armor Tile®, Color: Red	\$ _____	\$ _____
609.01	6400	Lf	New Straight Vertical Granite Curb 5" Wide	\$ _____	\$ _____
609.02	450	Lf	New Curved Vertical Granite Curb 5" Wide	\$ _____	\$ _____
609.5A	10	Lf	Reset Existing 5" x 18" Curb (Indeterminate quantity)	\$ _____	\$ _____

PROPOSAL FORM (continued)

ITEM #	EST. QTY.	UNITS	ITEM DESCRIPTION & UNIT PRICE IN WORDS	UNIT PRICE IN FIGURES	ITEM TOTAL IN FIGURES
609.5B	40	Lf	Reset Existing 4" x 12" Sloped Curb	\$ _____	\$ _____
611.05206	40	Lf	6" Cement Lined Ductile Iron Pipe Includes all misc. fittings	\$ _____	\$ _____
611.05212	1650	Lf	12" Cement Lined Ductile Iron Pipe Includes all misc. fittings	\$ _____	\$ _____
611.71006	1	Ea	6" Gate Valve and tapping Sleeve Assembly	\$ _____	\$ _____
611.71010	1	Ea	10" Gate Valve and tapping Sleeve Assembly	\$ _____	\$ _____
611.71012	1	Ea	12" Gate Valve and tapping Sleeve Assembly	\$ _____	\$ _____
611.71012	3	Ea	12" Gate Valve	\$ _____	\$ _____
611.81	1	Ea	New Hydrant Assembly Complete (Includes, tee, valve, 6" lateral & Hydrant)	\$ _____	\$ _____
611.811	1	Ea	Relocate Existing Hydrant Complete (Includes, tee, valve & 6" lateral piping)	\$ _____	\$ _____
611.90001	20	EA	Adjusting <u>Existing</u> Gate Valves and Stops to Finish Grade	\$ _____	\$ _____

PROPOSAL FORM (continued)

ITEM #	EST. QTY.	UNITS	ITEM DESCRIPTION & UNIT PRICE IN WORDS	UNIT PRICE IN FIGURES	ITEM TOTAL IN FIGURES
614	10	Ea	Electrical Pull Boxes	\$ _____	\$ _____
614.321	240	Lf	2" Steel Conduit	\$ _____	\$ _____
614.72114	2000	Lf	2" Schedule 40 PVC Conduit	\$ _____	\$ _____
614.72118	850	Lf	2" Sch. 80 PVC Conduit	\$ _____	\$ _____
614.73114	130	Lf	3" Sch. 40 PVC Conduit (service to cabinet)	\$ _____	\$ _____
614.74118	20	Lf	4" Sch. 80 PVC Conduit (token)	\$ _____	\$ _____
615	8	Ea	Traffic Sign Relocation	\$ _____	\$ _____
615.02	31	Sf	Traffic Signs	\$ _____	\$ _____
616	1	U	Electrical Work for Project (This item includes the control cabinet)	\$ _____	\$ _____
616.650	2	Ea	Permanent Traffic Signal Detector Loop	\$ _____	\$ _____
618.6	600	Hr	Uniformed Flaggers <u>seventeen dollars and no cents per hour</u> (Only Exact Cost will be paid, estimated cost)	<u>\$17.00</u>	<u>\$10,200.00</u>

PROPOSAL FORM (continued)

ITEM #	EST. QTY.	UNITS	ITEM DESCRIPTION & UNIT PRICE IN WORDS	UNIT PRICE IN FIGURES	ITEM TOTAL IN FIGURES
618.7	60	Hr	Portsmouth Police (Woodbury Avenue) <u>fifty dollars and no cents per hour</u> (Only Exact Cost will be paid, estimated cost)	<u>\$50.00</u>	<u>\$3,000.00</u>
619.1	1	U	Maintenance of Traffic	\$_____	\$_____
619.253	8	Week	Portable Message Board(s)	\$_____	\$_____
625.2	17	Ea	Light Pole Bases	\$_____	\$_____
625.52	17	Ea	Light Pole & Fixture	\$_____	\$_____
628.2	1120	Lf	Saw Bituminous Pavement	\$_____	\$_____
632.0104A	7900	Lf	4" Paint Striping (Chlorinated Rubber Paint)	\$_____	\$_____
632.0104B	108	Lf	4" Paint Striping (Parking Stalls)	\$_____	\$_____
632.3112	850	Lf	12" Thermoplastic Crosswalk	\$_____	\$_____
632.3118	50	Lf	18" Thermoplastic Stop Bars	\$_____	\$_____
632.32	65	Sf	Thermoplastic Symbol/Word	\$_____	\$_____

PROPOSAL FORM (continued)

ITEM #	EST. QTY.	UNITS	ITEM DESCRIPTION & UNIT PRICE IN WORDS	UNIT PRICE IN FIGURES	ITEM TOTAL IN FIGURES
645	20	Ea	Catch Basin Silt Sacks	\$ _____	\$ _____
645.531	3640	Lf	Silt Fencing or silt log	\$ _____	\$ _____
645.7	1	Ls	SWPPP	\$ _____	\$ _____
645.71	24	Hr	SWPPP Inspections	\$ _____	\$ _____
646.51	5000	Sy	Turf Establishment with Mulch, Tackifiers & 6" of Loam	\$ _____	\$ _____
650.1	2500	Sy	Construct new planting beds with 12" of Loam And mulch	\$ _____	\$ _____
650.2	1200	Sy	Planting beds amended with 3" of Compost And mulch	\$ _____	\$ _____
651.1	4	ea	Pinus flexilis 'Vanderwolf's Pyramid'	\$ _____	\$ _____
651.2	22	ea	Picea orientalis	\$ _____	\$ _____
652.1	1	ea	Acer Saccharum 'Green Mountain'	\$ _____	\$ _____
652.2	14	ea	Ulmus Americana 'Princeton American Elm'	\$ _____	\$ _____

PROPOSAL FORM (continued)

ITEM #	EST. QTY.	UNITS	ITEM DESCRIPTION & UNIT PRICE IN WORDS	UNIT PRICE IN FIGURES	ITEM TOTAL IN FIGURES
652.55	6	ea	Platanus Acerifolia 'London Planetree'	\$ _____	\$ _____
653.1	10	ea	Malus 'Spring Snow Crabapple'	\$ _____	\$ _____
653.89	8	ea	Pyrus Calleryana 'Chanticleer Flowering Pear'	\$ _____	\$ _____
654.1	18	ea	Juniperus Chinensis Pfitzeriana 'Compacta'	\$ _____	\$ _____
654.2	22	ea	Taxus media 'Tauntonii'	\$ _____	\$ _____
655.2	42	ea	Buxus 'Green Velvet'	\$ _____	\$ _____
655.3	30	ea	Clethra alnifolia 'Hummingbird'	\$ _____	\$ _____
655.4	47	ea	Comus alba 'Ivory Halo'	\$ _____	\$ _____
655.5	52	ea	Forsythia 'Broxensis'	\$ _____	\$ _____
655.6	8	ea	Fothergrilla gardenia	\$ _____	\$ _____
655.7	25	ea	Hydrangea arborescens 'Annabelle'	\$ _____	\$ _____

PROPOSAL FORM (continued)

ITEM #	EST. QTY.	UNITS	ITEM DESCRIPTION & UNIT PRICE IN WORDS	UNIT PRICE IN FIGURES	ITEM TOTAL IN FIGURES
655.9	101	ea	Hydrangea quercifolia 'Sikes Dwarf'	\$ _____	\$ _____
655.1	24	ea	Hydrangea macrophylla 'All Summer Beauty'	\$ _____	\$ _____
655.11	63	ea	Ilex glabra 'Shamrock'	\$ _____	\$ _____
655.12	37	ea	Ilex verticillata 'Red Sprite'	\$ _____	\$ _____
655.13	3	ea	Juniperus squamata 'Blue Star'	\$ _____	\$ _____
655.14	29	ea	Juniperus chinensis 'Sargentii'	\$ _____	\$ _____
655.15	3	ea	Viburnum plicatum tomentosum 'Mariesii'	\$ _____	\$ _____
655.16	11	ea	Microbiota decussate	\$ _____	\$ _____
655.17	18	ea	Deutzia gracilis	\$ _____	\$ _____
655.18	21	ea	Deutzia gracilis 'Nikko'	\$ _____	\$ _____
656.2	6	ea	Rhododendron 'P.J.M.'	\$ _____	\$ _____

PROPOSAL FORM (continued)

ITEM #	EST. QTY.	UNITS	ITEM DESCRIPTION & UNIT PRICE IN WORDS	UNIT PRICE IN FIGURES	ITEM TOTAL IN FIGURES
656.3	9	ea	Rhododendron yakushmanum	\$ _____	\$ _____
656.4	124	ea	Spirea Nipponica 'Snowmound'	\$ _____	\$ _____
656.4	37	ea	Rosa 'Double Knockout'	\$ _____	\$ _____
656.5	38	ea	Rosa 'Pink Double Knockout'	\$ _____	\$ _____
656.6	31	ea	Spiraea x bumalda 'Anthony Waterer'	\$ _____	\$ _____
656.7	125	ea	Spiraea x bumalda 'Goldmound'	\$ _____	\$ _____
656.8	12	ea	Syringa 'Bloomerang'	\$ _____	\$ _____
656.9	6	ea	Syringa vulgaris 'Charles Joy'	\$ _____	\$ _____
656.1	8	ea	Thuja occidentalis 'Nigra'	\$ _____	\$ _____
656.11	14	ea	Rhus aromatica 'Grow-Low'	\$ _____	\$ _____
657.1	36	ea	Miscanthus Virgatum 'Shenandoah'	\$ _____	\$ _____
657.2	184	ea	Hemerocallis 'Big Time Happy'	\$ _____	\$ _____

PROPOSAL FORM (continued)

ITEM #	EST. QTY.	UNITS	ITEM DESCRIPTION & UNIT PRICE IN WORDS	UNIT PRICE IN FIGURES	ITEM TOTAL IN FIGURES
657.5	170	ea	Anemone 'September Charm'	\$ _____	\$ _____
657.7	6	ea	Baptisia australis	\$ _____	\$ _____
657.8	11	ea	Calamagrostis acutifolia 'Karl Foster'	\$ _____	\$ _____
657.12	13	ea	Hosta 'Frances Williams'	\$ _____	\$ _____
657.13	12	ea	Hosta 'Guacamole'	\$ _____	\$ _____
657.17	36	ea	Vinca minor 'Bowles'	\$ _____	\$ _____
658	8	ea	Transplanted Crabapple	\$ _____	\$ _____
658	25	ea	Transplanted Rhododendron	\$ _____	\$ _____
661.1	5	ea	Bench w/ Concrete Pad	\$ _____	\$ _____
661.2	2	ea	Bus Shelter w/ Concrete Pad	\$ _____	\$ _____
692	1	U	Mobilization	\$ _____	\$ _____
1010.2	2000	\$	Asphalt Cement Adjustment	<u>\$2,000.00</u>	<u>\$2,000.00</u>

To Bidder:

The City reserves the right, after bid opening and prior to award of the contract, to modify the amount of the work in the event that bids exceed budgeted amounts and/or easements and agreements from one or more impacted property owners are not received.

It is the intention of this contract that the items listed above describe completely and thoroughly the entirety of the work as shown on the plans and as described in the specifications. All other items required to accomplish the above items are considered to be subsidiary work, unless shown as a pay item.

TOTAL FOR PROJECT AND BASIS OF AWARD

In Figures \$ _____

In Words \$ _____

The undersigned agrees that for extra work, if any, performed in accordance with the terms and provisions of the Contract Documents, the bidder will accept compensation as stipulated therein.

Date:

Company

By: _____
Signature

Business Address

Title: _____

City, State, Zip Code

Telephone: _____

We certify that the Company is currently pre-qualified with the State of New Hampshire for Road Construction.

By: _____
Signature & Title

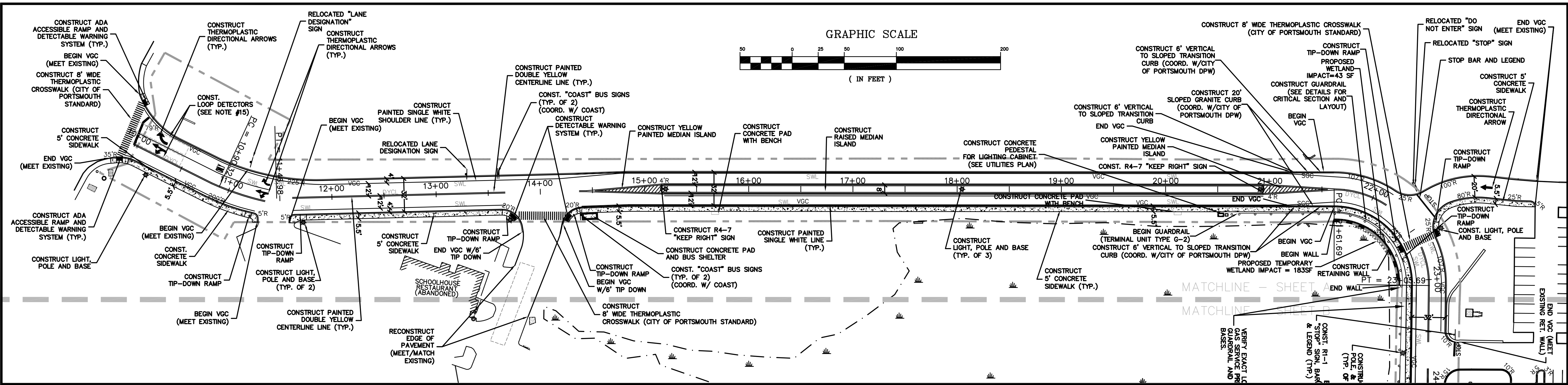
Date

The Bidder has received and acknowledged Addenda No. _____ through _____.

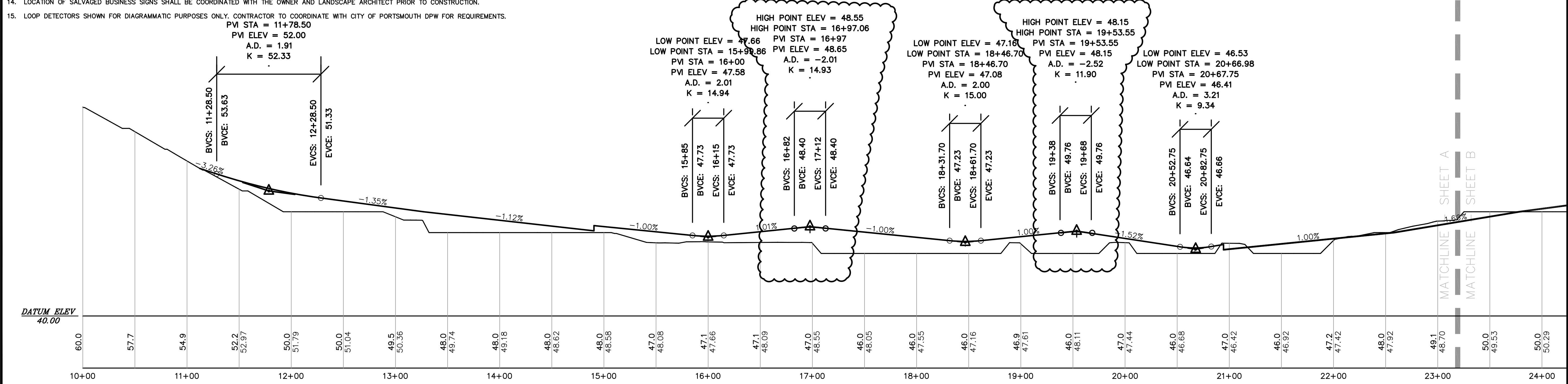
All Bids are to be submitted on this form and in a sealed envelope, plainly marked on the outside with the Bidder's name and address and the Project name as it appears at the top of the Proposal Form.

In order to follow the City's sustainability practices, future bid invitations/specifications may be sent electronically. Please provide an email address as to where I could email future bid invitations/specifications of this type. Thank you in advance for your cooperation.

Email Address: _____

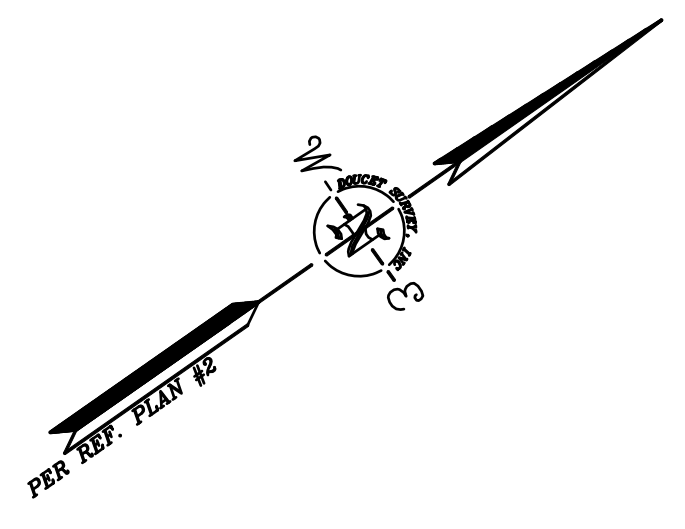


- SITE NOTES:**
- PAVEMENT MARKINGS AS SHOWN, INCLUDING STOP BARS, CROSS WALKS, ARROWS, AND LEGENDS SHALL BE THERMOPLASTIC MATERIAL. THERMOPLASTIC STRIPING SHALL MEET THE REQUIREMENTS OF AASHTO M249. CENTERLINES AND PAINTED ISLANDS SHALL BE CONSTRUCTED USING YELLOW TRAFFIC PAINT. SHOULDER AND LANE LINES SHALL BE CONSTRUCTED USING WHITE TRAFFIC PAINT. TRAFFIC PAINT SHALL MEET THE REQUIREMENTS OF AASHTO M248 TYPE "F".
 - ALL PAVEMENT MARKINGS AND SIGNS TO CONFORM TO "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS", AND THE AMERICANS WITH DISABILITIES ACT REQUIREMENTS, LATEST EDITIONS.
 - SEE DETAILS SIGN LEGEND AND SIGN POSTS.
 - CENTERLINES SHALL BE FOUR (4) INCH WIDE PAINTED YELLOW LINES. STOP BARS SHALL BE EIGHTEEN (18) INCH WIDE THERMOPLASTIC WHITE LINES.
 - PAINTED ISLANDS SHALL BE FOUR (4) INCH WIDE DIAGONAL LINES AT 3"-0" O.C. BORDERED BY FOUR (4) INCH WIDE LINES.
 - THE CONTRACTOR SHALL EMPLOY A NEW HAMPSHIRE LICENSED ENGINEER/SURVEYOR TO DETERMINE ALL LINES AND GRADES.
 - CLEAN AND COAT VERTICAL FACE OF EXISTING PAVEMENT AT SAWCUT LINE WITH RS-1 EMULSION IMMEDIATELY PRIOR TO PLACING NEW BITUMINOUS CONCRETE.
 - ALL MATERIALS AND CONSTRUCTION SHALL CONFORM WITH APPLICABLE FEDERAL, STATE AND/OR TOWN CODES & SPECIFICATIONS.
 - CONTRACTOR TO SUBMIT AS-BUILT PLANS ON REPRODUCIBLE MYLARS AND IN DIGITAL FORMAT (DWG FILE) ON DISK TO THE OWNER, ENGINEER, AND CITY OF PORTSMOUTH UPON COMPLETION OF THE PROJECT. AS-BUILTS SHALL BE PREPARED AND CERTIFIED BY A LAND SURVEYOR OR PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW HAMPSHIRE.
 - ALL WORK SHALL CONFORM TO THE CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS, STANDARD SPECIFICATIONS.
 - ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
 - EXISTING GRANITE CURB IS TO BE STOCKPILED AND INSPECTED BY THE CITY OF PORTSMOUTH FOR PIECES THAT ARE ACCEPTABLE FOR RE-USE.
 - ROADWAY LIGHT POLE, BASE, AND FIXTURE SHALL MATCH EXISTING ON PORTSMOUTH BOULEVARD. TRANSFORMER, METER & ELECTRIC SERVICE REQUIREMENTS FOR ROADWAY LIGHTING SHALL BE COORDINATED WITH THE CITY OF PORTSMOUTH AND PSNH.
 - LOCATION OF SALVAGED BUSINESS SIGNS SHALL BE COORDINATED WITH THE OWNER AND LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
 - LOOP DETECTORS SHOWN FOR DIAGRAMMATIC PURPOSES ONLY. CONTRACTOR TO COORDINATE WITH CITY OF PORTSMOUTH DPW FOR REQUIREMENTS.



LEGEND:

	PROPOSED CITY R.O.W. LINE
	PROPOSED SIGN
	PROPOSED CONCRETE SIDEWALK
	PROPOSED VERTICAL GRANITE CURB
	PROPOSED SLOPED GRANITE CURB
	PROPOSED GUARDRAIL
	PROPOSED THERMOELASTIC ARROW
	PROPOSED THERMOELASTIC ONLY LEGEND
	PROPOSED 8' THERMOELASTIC CROSSWALK
	PROPOSED LIGHT POLE & BASE
	PROPOSED WETLAND IMPACT=43 SF
	PROPOSED TEMPORARY WETLAND IMPACT=183 SF
	PROPOSED DOUBLE YELLOW CENTERLINE
	PROPOSED PAINTED SINGLE WHITE LINE
	PROPOSED ADA DETECTABLE WARNING
	PROPOSED CURB RADII

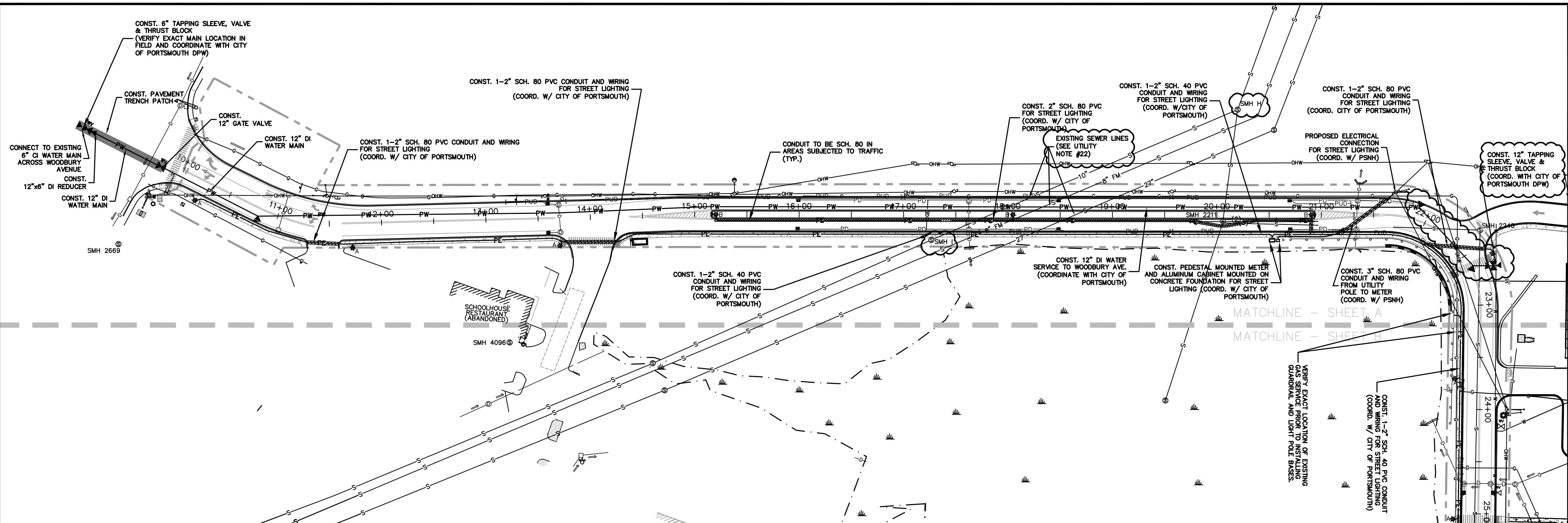


No.	Description	Date
6.	ISSUED WITH ADDENDUM #3	05/11/15
5.	BID DRAWINGS	03/21/14
4.	REVISE PER DPW DIRECTOR COMMENTS	07/26/12
3.	PLANNING BOARD SUBMISSION	03/26/12
2.	PLAN SET FOR CITY COUNCIL	12/19/11
1.	REVISED DRIVEWAY ENTRANCES & UTILITIES	11/14/11

DATE: FEBRUARY 3, 2010
 SCALE: **PM**
 DESIGNED BY: **KAM**
 DRAWN BY: **PM**
 APPROVED BY: **2189B**
 PROJECT NO.: **2189B**
 FILE NO.: **2189B-SITE-ROAD.dwg**

PROPOSED ROADWAY IMPROVEMENTS
COMMERCE WAY
PORTSMOUTH, NH

Tighe & Bond
 Consulting Engineers
 177 CORPORATE DRIVE
 PORTSMOUTH, NEW HAMPSHIRE
 03801 (603) 433-8818
 info@tgbond.com



5.	ISSUED WITH ADDENDUM #3	PMc	05/11/15	Date
4.	BID DRAWINGS	PMc	03/21/14	
3.	PLANNING BOARD SUBMISSION	PMc	03/26/12	
2.	PLAN SET FOR CITY COUNCIL	PMc	12/19/11	
1.	REVISED DRIVEWAY ENTRANCES & UTILITIES	PMc	11/14/11	
No.	Description	Appd		

DATE: FEBRUARY 3, 2010
 SCALE: PMc
 DESIGNED BY: KAM
 DRAWN BY: PMc
 APPROVED BY: 2189B
 PROJECT NO.: 2189B
 FILE NO.: 2189B-SITE-ROAD.dwg

UTILITY NOTES:

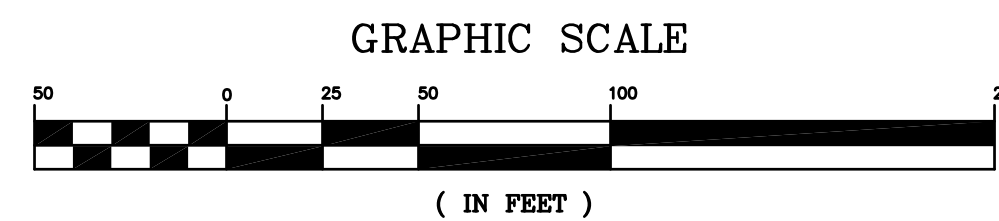
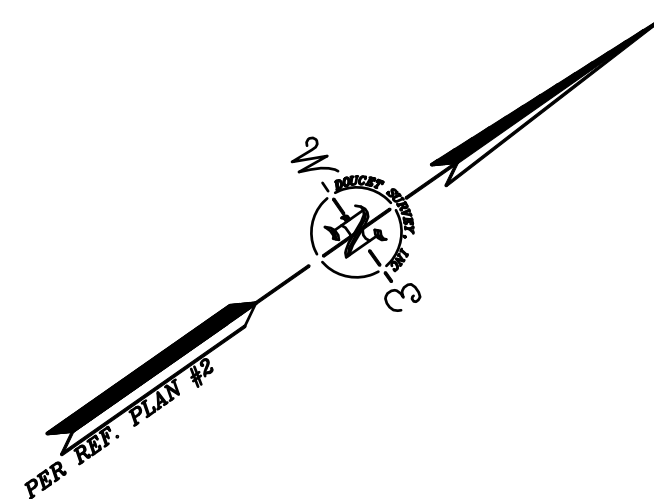
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- SEE EXISTING CONDITIONS PLAN FOR BENCHMARK INFORMATION.
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LEGEND:

- UGE — EXISTING UNDERGROUND ELECTRIC & COMMUNICATION
- W — EXISTING WATER MAIN
- S — EXISTING SANITARY SEWER
- D — EXISTING STORM DRAIN
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- PD — PROPOSED STORM DRAIN
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- PC — PROPOSED UNDERGROUND COMMUNICATION
- EXISTING CATCHBASIN
- PROPOSED CATCHBASIN
- ⊙ PROPOSED DRAIN MANHOLE
- ⊙ EXISTING SEWER MANHOLE
- ⊙ EXISTING ELECTRIC MANHOLE
- ⚡ TRAFFIC SIGNAL
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- ▲ PROPOSED THRUST BLOCK
- ▨ PVC CONDUIT TO BE SCH. 80 IN VEHICULAR TRAVELWAYS
- ★ PROPOSED LIGHT POLE (SINGLE LUMINAIRE)
- ★ PROPOSED LIGHT POLE (DOUBLE LUMINAIRE)

SEWER STRUCTURE TABLE

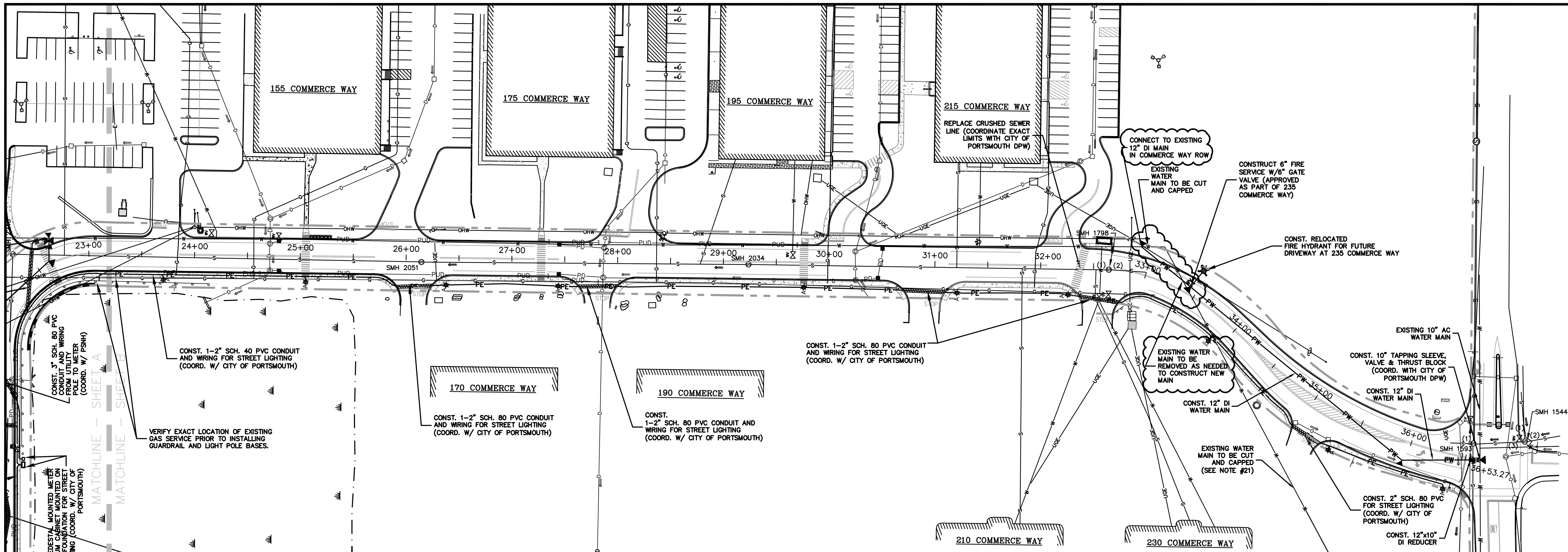
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UTILITIES PLAN

**PROPOSED ROADWAY IMPROVEMENTS
COMMERCE WAY
PORTSMOUTH, NH**

Tighe & Bond
 Consulting Engineers
 177 CORPORATE DRIVE
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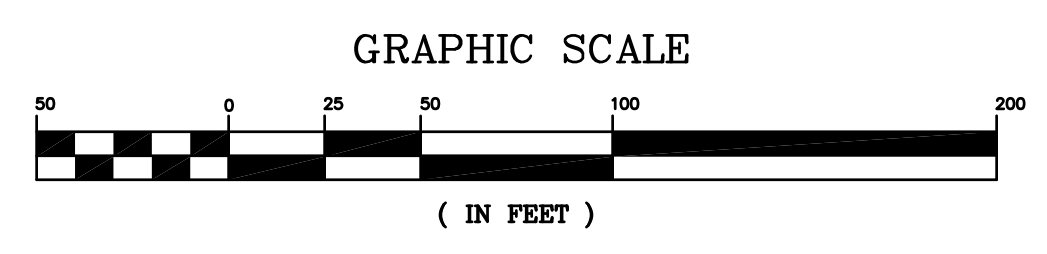
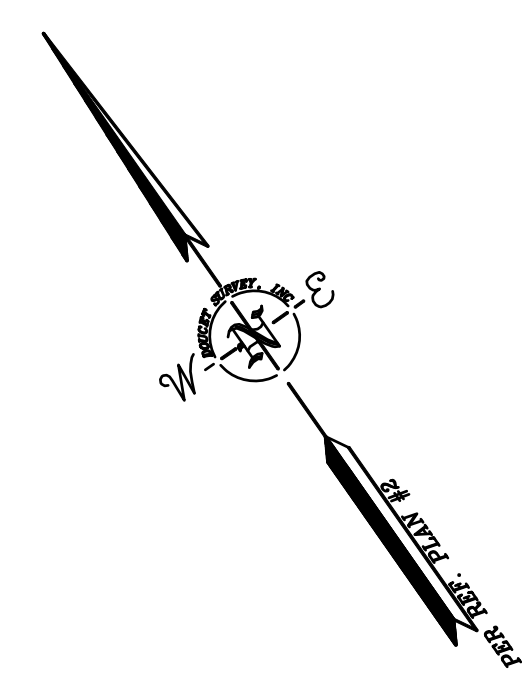
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No.	Description	Date
7.	ISSUED WITH ADDENDUM #3	PMc 05/11/15
6.	BID DRAWINGS	PMc 03/21/14
5.	REMOVAL OF PORTSMOUTH BLVD SCOPE	PMc 12/20/13
4.	REVISE PER DPW DIRECTOR COMMENTS	PMc 07/26/12
3.	PLANNING BOARD SUBMISSION	PMc 03/26/12
2.	PLAN SET FOR CITY COUNCIL	PMc 12/19/11
1.	REVISED DRIVEWAY ENTRANCES & UTILITIES	PMc 11/14/11

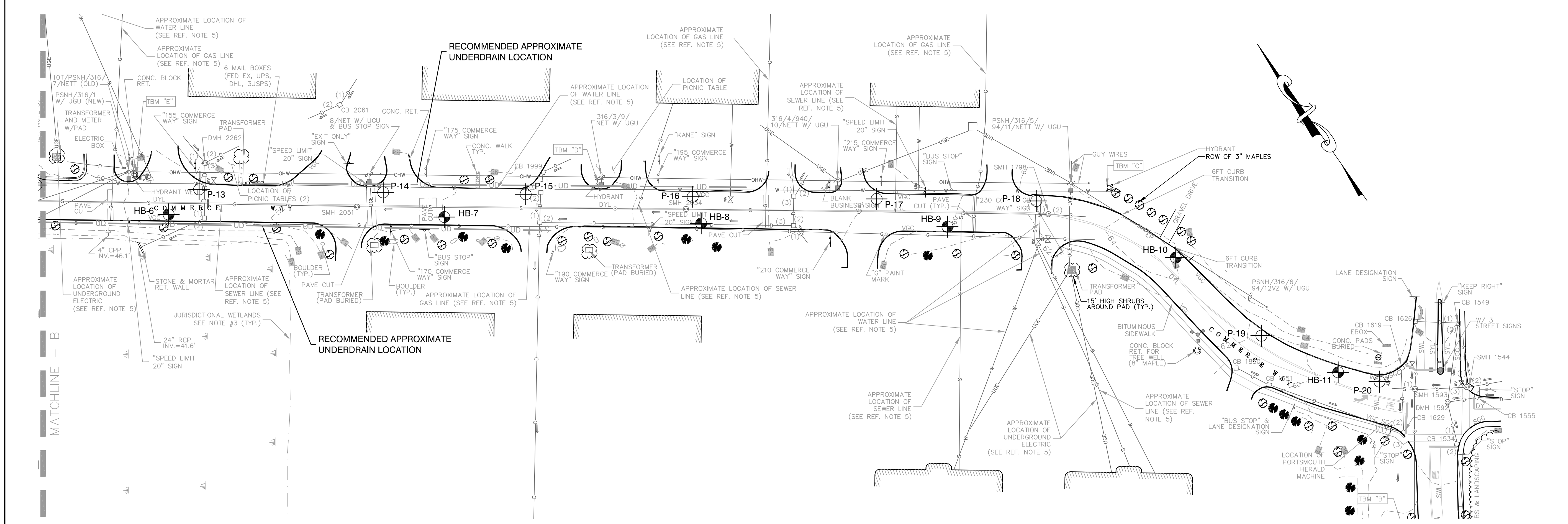
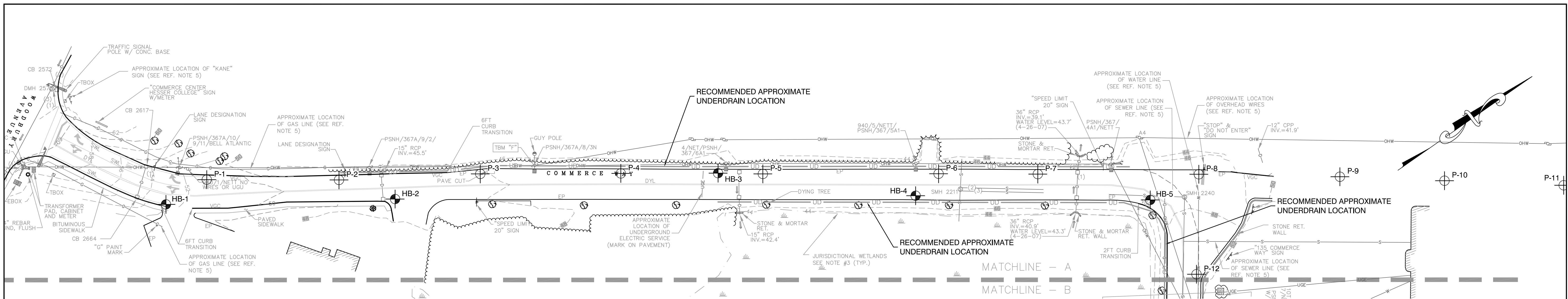
DATE: FEBRUARY 3, 2010
 SCALE: PMc
 DESIGNED BY: KAM
 DRAWN BY: PMc
 APPROVED BY: 2189B
 PROJECT NO.: 2189B-SITE-ROAD.dwg
 FILE NO.:

PROPOSED ROADWAY IMPROVEMENTS COMMERCE WAY PORTSMOUTH, NH

Tighe & Bond
 Consulting Engineers
 177 CORPORATE DRIVE
 PORTSMOUTH, NEW HAMPSHIRE
 03801 (603) 433-8818
 info@tighetobond.com

UTILITIES PLAN

R-5B



- LEGEND:**
- APPROXIMATE PROBE LOCATION
 - APPROXIMATE HAND BORING LOCATION
 - RECOMMENDED APPROXIMATE UNDERDRAIN LOCATION

- NOTES:**
1. EXPLORATION LOCATION PLAN WAS PREPARED FROM AN EXISTING CONDITIONS PLAN OF THE SITE PREPARED BY APPLIEDORE ENGINEERING, INC., RECEIVED VIA E-MAIL ON MAY 6, 2008.
 2. THE BORINGS AND PROBES WERE LOCATED IN THE FIELD BY TAPED MEASUREMENTS FROM EXISTING SITE FEATURES.
 3. THIS PLAN SHOULD BE USED IN CONJUNCTION WITH THE ASSOCIATED GEOTECHNICAL REPORT.
 4. THE PURPOSE OF THIS PLAN IS ONLY TO DEPICT THE LOCATION OF THE EXPLORATIONS IN RELATION TO THE EXISTING CONDITIONS AND PROPOSED CONSTRUCTION AND IS NOT TO BE USED FOR CONSTRUCTION.

NO.	DATE	DESCRIPTION	BY
2	07/25/08	ADD UNDERDRAIN	CEM
1	5/23/08	ADD HAND BORINGS HB-1 THROUGH HB-11	CEM

S.W. COLE
ENGINEERING, INC.

THE KANE COMPANY
EXPLORATION LOCATION PLAN
PROPOSED ROADWAY IMPROVEMENTS
COMMERCE WAY
PORTSMOUTH, NEW HAMPSHIRE



Job No. 07-1084 Scale 1"=50'
Date: 02/05/08 Sheet 1



PROBE DATA

PROJECT: **PROPOSED ROADWAY IMPROVEMENTS**
CLIENT: **THE KANE COMPANY**
LOCATION: **COMMERCE WAY / PORTSMOUTH, NEW HAMPSHIRE**
DATE: **1/31/2008**

PROBE NUMBER	DEPTH TO REFUSAL (FT)	ESTIMATED DEPTH TO SATURATED SOILS (FT)
P-1	12.0	9.0
P-2	7.0	NOT OBSERVED
P-3	17.0	5.5
P-4	14.5	5.0
P-5	14.0	5.0
P-6	20.0 (NO REFUSAL)	6.0
P-7	20.0 (NO REFUSAL)	5.5
P-8	20.0 (NO REFUSAL)	NOT OBSERVED
P-9	4.2	NOT OBSERVED
P-10	12.0	11.0
P-11	19.0 (NO REFUSAL)	14.0
P-12	5.0	NOT OBSERVED
P-13	3.0	NOT OBSERVED
P-14	14.0	5.0
P-15	20.0 (NO REFUSAL)	5.0
P-16	14.5	5.0
P-17	3.0	NOT OBSERVED
P-18	3.0	NOT OBSERVED
P-19	3.0	NOT OBSERVED
P-20	5.0	NOT OBSERVED

PROJECT / CLIENT: PROPOSED ROADWAY IMPROVEMENTS / THE KANE COMPANY

LOCATION: COMMERCE WAY, PORTSMOUTH, NEW HAMPSHIRE

PROJECT NO. 07-1084

HAND BORING <u>HB-1</u>			
DATE: <u>05-01-08</u>		SURFACE ELEVATION: <u>52' +/-</u>	
		LOCATION: <u>SEE SHEET 1</u>	
SAMPLE NO.	DEPTH (IN)	STRATUM DESCRIPTION	TEST RESULTS
	2.5	BITUMINOUS ASPHALT PAVEMENT (WEARING COURSE)	w=3.12%
S-1	6.0"	DARK BROWN GRAVELLY SAND WITH SOME/TRACE SILT AND RECLAIMED ASPHALT (2" MINUS CRUSHED BASE MATERIAL)	
	10.5		
	12.0	BITUMINOUS ASPHALT PAVEMENT	
S-2	18.0"	BROWN GRAVELLY SAND WITH SOME SILT (4" MINUS BANK RUN SUBBASE MATERIAL)	
	27.0	BOTTOM OF EXPLORATION @ 27.0"	
COMPLETION DEPTH: <u>27.0"</u> DEPTH TO WATER: <u>WATER NOT OBSERVED</u>			

HAND BORING <u>HB-2</u>			
DATE: <u>05-01-08</u>		SURFACE ELEVATION: <u>48' +/-</u>	
		LOCATION: <u>SEE SHEET 1</u>	
SAMPLE NO.	DEPTH (IN)	STRATUM DESCRIPTION	TEST RESULTS
	3.5	BITUMINOUS ASPHALT PAVEMENT (2.0" WEARING COURSE, 1.5" BINDER COURSE)	
	10.0	DARK BROWN GRAVELLY SAND WITH SOME/TRACE SILT AND RECLAIMED ASPHALT (2" MINUS CRUSHED BASE MATERIAL)	
	21.0	BROWN GRAVELLY SAND WITH SOME SILT (4" MINUS BANK RUN SUBBASE MATERIAL)	
	23.0	GRAY SILTY SAND WITH SOME GRAVEL (SUBGRADE)	
		BOTTOM OF EXPLORATION @ 23.0"	
COMPLETION DEPTH: <u>23.0"</u> DEPTH TO WATER: <u>SATURATED SOILS @ 21.0"</u>			

PROJECT / CLIENT: PROPOSED ROADWAY IMPROVEMENTS / THE KANE COMPANY

LOCATION: COMMERCE WAY, PORTSMOUTH, NEW HAMPSHIRE

PROJECT NO. 07-1084

HAND BORING <u>HB-3</u>			
DATE: <u>05-01-08</u>		SURFACE ELEVATION: <u>48' +/-</u>	LOCATION: <u>SEE SHEET 1</u>
SAMPLE NO.	DEPTH (IN)	STRATUM DESCRIPTION	TEST RESULTS
	4.0	BITUMINOUS ASPHALT PAVEMENT (1.25" WEARING COURSE, 2.75" BINDER COURSE)	w=5.0%
S-1	12.0	BROWN GRAVELLY SAND WITH SOME/TRACE SILT (4" MINUS BANK RUN BASE/SUBBASE MATERIAL)	
	21.0	BROWN SILTY SAND WITH SOME GRAVEL (SUBGRADE)	
	24.0	BOTTOM OF EXPLORATION @ 24.0"	
COMPLETION DEPTH: <u>24.0"</u>		DEPTH TO WATER: <u>FREE WATER @ 22.0"</u>	

HAND BORING <u>HB-4</u>			
DATE: <u>05-01-08</u>		SURFACE ELEVATION: <u>48' +/-</u>	LOCATION: <u>SEE SHEET 1</u>
SAMPLE NO.	DEPTH (IN)	STRATUM DESCRIPTION	TEST RESULTS
	3.0	BITUMINOUS ASPHALT PAVEMENT (1.25" WEARING COURSE, 1.75" BINDER COURSE)	
	27.0	BROWN GRAVELLY SAND WITH SOME SILT (4" MINUS BANK RUN BASE/SUBBASE MATERIAL)	
		BOTTOM OF EXPLORATION @ 27.0"	
COMPLETION DEPTH: <u>27.0"</u>		DEPTH TO WATER: <u>WATER NOT OBSERVED</u>	

PROJECT / CLIENT: PROPOSED ROADWAY IMPROVEMENTS / THE KANE COMPANY

LOCATION: COMMERCE WAY, PORTSMOUTH, NEW HAMPSHIRE

PROJECT NO. 07-1084

HAND BORING HB-5			
DATE: <u>05-01-08</u>		SURFACE ELEVATION: <u>48' +/-</u>	LOCATION: <u>SEE SHEET 1</u>
SAMPLE NO.	DEPTH (IN)	STRATUM DESCRIPTION	TEST RESULTS
	3.25	BITUMINOUS ASPHALT PAVEMENT (1.25" WEARING COURSE, 2.0" BINDER COURSE)	
	24.0	BROWN GRAVELLY SAND WITH SOME SILT (4" MINUS BANKRUN BASE/SUBBASE MATERIAL)	
	26.0	GRAY SILTY SAND WITH SOME GRAVEL AND TRACE ORGANICS (SUBGRADE)	
		BOTTOM OF EXPLORATION @ 26.0"	
COMPLETION DEPTH: <u>26.0"</u>		DEPTH TO WATER: <u>WATER NOT OBSERVED</u>	

HAND BORING HB-6			
DATE: <u>05-01-08</u>		SURFACE ELEVATION: <u>50' +/-</u>	LOCATION: <u>SEE SHEET 1</u>
SAMPLE NO.	DEPTH (IN)	STRATUM DESCRIPTION	TEST RESULTS
	4.25	BITUMINOUS ASPHALT PAVEMENT (1.5" WEARING COURSE, 2.75" BINDER COURSE)	w=4.4%
S-1	12.0"	BROWN GRAVELLY SAND WITH SOME SILT (8" MINUS BANKRUN BASE/SUBBASE MATERIAL) ~ LOOSE ~	
	20.0	BROWN SILT AND SAND WITH SOME GRAVEL (SUBGRADE)	
	24.0	BOTTOM OF EXPLORATION @ 24.0"	
COMPLETION DEPTH: <u>24.0"</u>		DEPTH TO WATER: <u>SATURATED SOILS @ 20.0"</u>	

PROJECT / CLIENT: PROPOSED ROADWAY IMPROVEMENTS / THE KANE COMPANY

LOCATION: COMMERCE WAY, PORTSMOUTH, NEW HAMPSHIRE

PROJECT NO. 07-1084

HAND BORING <u>HB-7</u>			
DATE: <u>05-01-08</u>		SURFACE ELEVATION: <u>54' +/-</u>	LOCATION: <u>SEE SHEET 1</u>
SAMPLE NO.	DEPTH (IN)	STRATUM DESCRIPTION	TEST RESULTS
	3.75	BITUMINOUS ASPHALT PAVEMENT (1.5" WEARING COURSE, 2.25" BINDER COURSE)	
	18.0	BROWN GRAVELLY SAND WITH SOME SILT (4" MINUS BANK RUN BASE/SUBBASE MATERIAL)	
	20.0	BROWN SILT AND SAND WITH SOME GRAVEL (SUBGRADE)	
		BOTTOM OF EXPLORATION @ 20.0"	
COMPLETION DEPTH: <u>20.0"</u>		DEPTH TO WATER: <u>FREE WATER @ 12.0"</u>	

HAND BORING <u>HB-8</u>			
DATE: <u>05-01-08</u>		SURFACE ELEVATION: <u>57' +/-</u>	LOCATION: <u>SEE SHEET 1</u>
SAMPLE NO.	DEPTH (IN)	STRATUM DESCRIPTION	TEST RESULTS
	3.5	BITUMINOUS ASPHALT PAVEMENT (1.5" WEARING COURSE, 2.0" BINDER COURSE)	
	9.0	DARK BROWN GRAVELLY SAND WITH SOME SILT (1.5" MINUS CRUSHED BASE MATERIAL)	
	24.0	BROWN GRAVELLY SAND WITH SOME SILT (8" MINUS BANK RUN SUBBASE MATERIAL)	
		BOTTOM OF EXPLORATION @ 24.0"	
COMPLETION DEPTH: <u>24.0"</u>		DEPTH TO WATER: <u>WATER NOT OBSERVED</u>	

PROJECT / CLIENT: PROPOSED ROADWAY IMPROVEMENTS / THE KANE COMPANY

LOCATION: COMMERCE WAY, PORTSMOUTH, NEW HAMPSHIRE

PROJECT NO. 07-1084

HAND BORING HB-9			
DATE: <u>05-01-08</u>		SURFACE ELEVATION: <u>60' +/-</u>	LOCATION: <u>SEE SHEET 1</u>
SAMPLE NO.	DEPTH (IN)	STRATUM DESCRIPTION	TEST RESULTS
	4.0	BITUMINOUS ASPHALT PAVEMENT (1.25" WEARING COURSE, 2.75" BINDER COURSE)	w=1.7%
	8.0	DARK BROWN GRAVELLY SAND WITH SOME SILT (1.5" MINUS CRUSHED BASE MATERIAL)	
S-1	14.0"	BROWN GRAVEL AND SAND WITH SOME SILT (4" MINUS BANK RUN SUBBASE MATERIAL)	
	19.0	BROWN SILTY SAND WITH SOME GRAVEL (SUBGRADE)	
	21.0	BOTTOM OF EXPLORATION @ 21.0"	
COMPLETION DEPTH: <u>21.0"</u>		DEPTH TO WATER: <u>WATER NOT OBSERVED</u>	

HAND BORING HB-10			
DATE: <u>05-01-08</u>		SURFACE ELEVATION: <u>64' +/-</u>	LOCATION: <u>SEE SHEET 1</u>
SAMPLE NO.	DEPTH (IN)	STRATUM DESCRIPTION	TEST RESULTS
	3.3	BITUMINOUS ASPHALT PAVEMENT (1.25" WEARING COURSE, 2.0" BINDER COURSE)	w=11.0%
	9.5	DARK BROWN GRAVELLY SAND WITH SOME SILT WITH RECLAIMED ASPHALT (1.5" MINUS CRUSHED BASE MATERIAL)	
	13.0	BROWN GRAVELLY SAND WITH SOME SILT (4" MINUS SUBBASE MATERIAL)	
S-1	14.0"	BROWN SILTY SAND WITH SOME GRAVEL (SUBGRADE)	
	15.0	BOTTOM OF EXPLORATION @ 15.0"	
COMPLETION DEPTH: <u>15.0"</u>		DEPTH TO WATER: <u>WATER NOT OBSERVED</u>	

