



CITY OF YONKERS

GENERAL ENGINEERING AGREEMENT NO. 2022-00000777

This GENERAL AGREEMENT (the "General Agreement") is made and entered into this 25th day of April in 2022 by and between the CITY OF YONKERS, a Municipal Corporation of the State of New York ("City") and PALADINO CONCRETE CREATIONS CORP., located at 315 N. MacQuesten PKWY, Mount Vernon, NY 10550, hereinafter called the "Contractor";

WITNESSETH: That the City and the Contractor for the consideration stated herein mutually agree as follows:

ARTICLE 1. STATEMENT OF WORK:

The Contractor shall and will well and sufficiently furnish and provide all the labor, materials and equipment required for:

IFB-6751: 2022 PUBLIC RIGHT OF WAY IMPROVEMENTS

The Contractor shall furnish all supervision, technical personnel, labor, materials, machinery, tools, appurtenances, equipment and services, including utility and transportation services and perform and complete all work and required supplemental work for the completion of this Contract in strict accordance with the hereinafter referenced Contract Documents including all addenda thereto, if any, all as prepared by the City of Yonkers, New York.

ARTICLE 2. COMPENSATION TO BE PAID TO CONTRACTOR:

The City will pay and the Contractor will accept in full consideration for the performance of the Contract, subject to any additions, deductions and retainages as provided herein, in the current funds a sum not to exceed:

Written in words: **ONE MILLION DOLLARS**

Written in Figures: **\$1,000,000.00**

Payments shall be made in accordance with the payment provisions herein. In no event shall the City be required to make payment to the Contractor for the work hereunder for any claim or damages except as provided in the Contract Documents.

ARTICLE 3. THE CONTRACT DOCUMENTS:

A. Except for titles, subtitles, headings, running headlines, tables of contents, and indices (all of which are printed herein merely for convenience) the following, except for such portions thereof as may be specifically excluded, shall be deemed to be part of this Contract:

a. This Agreement	f. Signed copy of Bid, with all attachments required for the Bidding, including Bidder's Affidavit
b Schedule "A" to the General Agreement	g. Technical Specification
c. All addenda issued by the City	h. Performance & Payment Bonds
d. Information For Bidders	i. Certificates of Insurance
e. Exhibits not included as part of the documents as listed above; if any	j. All provisions required by law to be inserted in this Contract whether inserted or not

Where indicated by an (x), Insurance in the amounts specified below are required under this Contract.

(x)	Worker's Compensation	Statutory
(x)	Employer's Liability	\$1,000,000 each Accident

(x) Commercial General Liability – Combined Single Limit-Bodily Injury and Property Damage:

- \$1,000,000 per occurrence
- \$1,000,000 Products/Completed Operations Aggregate
- \$2,000,000 General Aggregate
- \$25,000 Maximum Deductible

(x) Automobile Liability – Combined Single Limit – Bodily Injury and Property Damage:

- \$1,000,000 per person each occurrence for Bodily Injury
- \$100,000 per occurrence Property Damage

The following coverage must be provided:

(x) Comprehensive (x) Owned (x) Hired (x) Non-Owned

In addition, if indicated by an (x), the following hazards must be covered:

Excess Insurance _____

Other _____

(x) Additional Named Insured:

City of Yonkers; City of Yonkers School District; Yonkers Board of Education

ATTACHMENT "A" - Itemized Bid Schedule of Prices			
IFB-6751: 2022 PUBLIC RIGHT-OF-WAY IMPROVEMENTS			
ITEM NUMBER	ITEM DESCRIPTION	UNIT BID PRICES	
		DOLLARS	CENTS
Group #1 Pipe and Fittings			
1.1	L.F., 4" XH CIP House Connection Drain (Sanitary or Storm) furnished and installed (Excavation, sheeting, crushed stone, backfill, restoration, etc. to be paid for under respective bid items).	30	00
1.2	L.F., 6" XH CIP House Connection Drain (Sanitary or Storm) furnished and installed (Excavation, sheeting, crushed stone, backfill, restoration, etc. to be paid for under respective bid items).	45	00
1.3	L.F., 4" DIP Class 54 (Sanitary / Storm / Water Main) furnished and installed (Excavation, sheeting, crushed stone, backfill, restoration, etc. to be paid for under respective bid items).	40	00
1.4	L.F., 6" DIP Class 54 (Sanitary / Storm / Water Main) furnished and installed (Excavation, sheeting, crushed stone, backfill, restoration, etc. to be paid for under respective bid items).	37	00
1.5	L.F., 8" DIP Class 54 (Sanitary / Storm / Water Main) furnished and installed (Excavation, sheeting, crushed stone, backfill, restoration, etc. to be paid for under respective bid items).	52	00
1.6	L.F., 12" DIP Class 54 (Sanitary / Storm / Water Main) furnished and installed (Excavation, sheeting, crushed stone, backfill, restoration, etc. to be paid for under respective bid items).	80	00
1.7	L.F., 16" DIP Class 54 (Sanitary / Storm / Water Main) furnished and installed (Excavation, sheeting, crushed stone, backfill, restoration, etc. to be paid for under respective bid items).	120	00
1.8	L.F., 18" DIP Class 54 (Sanitary / Storm / Water Main) furnished and installed (Excavation, sheeting, crushed stone, backfill, restoration, etc. to be paid for under respective bid items).	135	00
1.9	L.F., 24" DIP Class 54 (Sanitary / Storm / Water Main) furnished and installed (Excavation, sheeting, crushed stone, backfill, restoration, etc. to be paid for under respective bid items).	195	00
1.10	Each, 6" X 6" DIP Class 54 Wye, furnished and installed to include three (3) - 6" mechanical joint kits.	700	00
1.11	Each, 8" X 6" DIP Class 54 Wye, furnished and installed to include two (2) - 8" mechanical joint kits and one (1) - 6" mechanical joint kit.	800	00
1.12	Each, 12" X 6" DIP Class 54 Wye, furnished and installed to include two (2) - 12" mechanical joint kits and one (1) - 6" mechanical joint kit.	1,800	00
1.13	Each, 16" X 6" DIP Class 54 Wye, furnished and installed to include two (2) - 16" mechanical joint kits and one (1) - 6" mechanical joint kit.	2,200	00
1.14	Each, 18" X 6" DIP Class 54 Wye, furnished and installed to include two (2) - 18" mechanical joint kits and one (1) - 6" mechanical joint kit.	4,000	00
1.15	Each, 24" X 6" DIP Class 54 Wye, furnished and installed to include two (2) - 24" mechanical joint kits and one (1) - 6" mechanical joint kit.	13,000	00

ITEM NUMBER	ITEM DESCRIPTION	UNIT BID PRICES	
		DOLLARS	CENTS
1.16	Each, 4" Model US Sealtite Type "U" Multi-Range Tee Sewer Saddle, or approved equal, furnished and installed including core drilling of sewer main and full encasement with hand mix concrete.	400	00
1.17	Each, 6" Model US Sealtite Type "U" Multi-Range Tee Sewer Saddle, or approved equal, furnished and installed including core drilling of sewer main and full encasement with hand mix concrete.	600	00
1.18	Lbs., XH CIP Fittings (4" and 6"), furnish and install to include all necessary gaskets and mechanical joint kits. For use on laterals and to construct clean outs to grade. (Weight of fitting to be determined from fitting Manufacturers specifications).	6	00
1.19	Lbs., Class 54 DIP Fittings (6" and 8"), furnished and installed, including all necessary mechanical joint kits. For fittings not specifically described in other items. (Elbows, Reducers, Etc.)	5	00
1.20	Lbs., Class 54 DIP Fittings (12", 16", 18", and 24"), furnished and installed, including all necessary mechanical joint kits. For fittings not specifically described in other items. (Elbows, Reducers, Etc.)	6	00
1.21	Each, 4" Shielded No-Hub Coupling, furnished and installed to include full encasement in hand mixed concrete.	25	00
1.22	Each, 6" Shielded No-Hub Coupling, furnished and installed to include full encasement in hand mixed concrete.	60	00
1.23	Each, 6" FERNCO Type Coupling, furnished and installed to include full encasement in hand mixed concrete.	52	00
1.24	Each, 8" FERNCO Type Coupling, furnished and installed to include full encasement in hand mixed concrete.	75	00
1.25	Each, 12" FERNCO Type Coupling, furnished and installed to include full encasement in hand mixed concrete.	135	00
1.26	Each, 16" FERNCO Type Coupling, furnished and installed to include full encasement in hand mixed concrete.	300	00
1.27	Each, 18" FERNCO Type Coupling, furnished and installed to include full encasement in hand mixed concrete.	625	00
1.28	Each, 24" FERNCO Type Coupling, furnished and installed to include full encasement in hand mixed concrete.	900	00
1.29	L.F., 8" HDPE Solid Pipe.	6	00
1.30	L.F., 12" HDPE Solid Pipe.	9	00
1.31	L.F., 15" HDPE Solid Pipe.	14	00
1.32	L.F., 18" HDPE Solid Pipe.	18	00
1.33	L.F., 24" HDPE Solid Pipe.	30	00
1.34	L.F., 6" HDPE Perforated Pipe.	4	50
1.35	L.F., 8" HDPE Perforated Pipe.	6	00
1.36	L.F., 4" SDR 35 Solid Pipe.	3	00
1.37	L.F., 6" SDR 35 Solid Pipe.	7	00
1.38	L.F., 4" Schedule 40 Solid Pipe.	4	00
1.39	L.F., 6" Schedule 40 Solid Pipe.	7	00

ITEM NUMBER	ITEM DESCRIPTION	UNIT BID PRICES	
		DOLLARS	CENTS
1.40	L.F., 4" PVC Pipe.	2	00
1.41	Each, 4" and 6" SDR 35 Fittings.	8	00
1.42	Each, 4" and 6" Schedule 40 Fittings.	8	00
1.43	Each, 4" PVC Fittings.	6	00
1.44	Each, Filing Permits with the City of Yonkers Plumbing Department and Installation/Repair of private house service lateral to be completed by a licensed plumber, (materials to be paid for under respective contract bid items listed), as directed by the Engineer. (NOTE: A plumbing permit must be filed for any work on a private service).	300	00
Sub-total		\$26,855	50
Contractor's Markup for Pipe and Fitting Items (%)		80%	
Grand Total for Pipe and Fitting Items (Sub-total X %)		48,339.90	
NOTE: ALL PUMPING TO MAINTAIN FLOW IN ORDER TO INSTALL THE ITEMS IN THIS SECTION IS TO BE DEEMED INCLUDED UNDER THE UNIT BID ITEM PRICES			

ITEM NUMBER	ITEM DESCRIPTION	UNIT BID PRICES	
		DOLLARS	CENTS
Group #2 Water Main & Water Service Items			
2.1	Each, 4" Resilient Wedge Gate Valve (open clockwise), including mechanical joint accessories	540	00
2.2	Each, 6" Resilient Wedge Gate Valve (open clockwise), including mechanical joint accessories	720	00
2.3	Each, 8" Resilient Wedge Gate Valve (open clockwise), including mechanical joint accessories	1,080	00
2.4	Each, 12" Resilient Wedge Gate Valve (open clockwise), including mechanical joint accessories	1,910	00
2.5	Each, 16" Resilient Wedge Gate Valve (open clockwise), including mechanical joint accessories	7,965	00
2.6	Each, 18" Resilient Wedge Gate Valve (open clockwise), including mechanical joint accessories	10,710	00
2.7	L.F., 3/4" Type K Copper Tubing	3	50
2.8	L.F., 1" Type K Copper Tubing	4	50
2.9	L.F., 1-1/2" Type K Copper Tubing	7	00
2.10	L.F., 2" Type K Copper Tubing	11	00
2.11	Each, 3/4" Corporation Stop Valve (flared fitting), to include wet tap into water main	60	00
2.12	Each, 1" Corporation Stop Valve (flared fitting), to include wet tap into water main	75	00
2.13	Each, 1-1/2" Corporation Stop Valve (flared fitting), to include wet tap into water main	175	00
2.14	Each, 2" Corporation Stop Valve (flared fitting), to include wet tap into water main	285	00
2.15	Each, 3/4" Curb Valve (flared X flared)	88	00
2.16	Each, 1" Curb Valve (flared X flared)	130	00
2.17	Each, 1-1/2" Curb Valve (flared X flared)	300	00
2.18	Each, 2" Curb Valve (flared X flared)	440	00
2.19	Each, Water Service Valve Box for Services 3/4" - 1-1/2"	75	00
2.20	Each, Water Service Valve Box for Services 2" and greater and water main valves (to include pre-cast concrete bottom section and manhole frame and cover)	1,000	00
2.21	Each, Fire Hydrant (4' bury depth)	3,225	00
2.22	Each, Fire Hydrant (5' bury depth)	3,650	00
2.23	Each, Fire Hydrant (6' bury depth)	3,900	00
Sub-total:		\$36,354	00
Contractor's Markup for Water Main and Water Service Items (%):		2%	
Grand Total for Water Main and Water Service Items (Sub-total X %):		37,081	08

ITEM NUMBER	ITEM DESCRIPTION	UNIT BID PRICES	
		DOLLARS	CENTS
Group #3 Pre-Cast Concrete Structures			
3.1	Each, Type - 1 Standard Catch Basin with Curb Piece complete furnished and installed.	4,500	00
3.2	Each, Type - 2 Standard Catch Basin without Curb Piece complete furnished and installed.	4,250	00
3.3	Each, Type - 3 Standard Catch Basin with Curb Piece complete furnished and installed.	6,500	00
3.4	Each, Furnish and Install Type A-1 Manhole for Storm Sewer under 5' depth, to include frame and cover.	3,500	00
3.5	Each, Furnish and Install Type A-1 Manhole for Storm Sewer, 5.1' to 10' depth, to include frame and cover.	5,250	00
3.6	Each, Furnish and Install Type A-1 Manhole for Storm Sewer, 10.1' to 15' depth, to include frame and cover.	7,000	00
3.7	Each, Furnish and Install Type A-1 Manhole for Storm Sewer, 15.1' to 20' depth, to include frame and cover.	8,750	00
3.8	Each, Furnish and Install Type A-1 Manhole for Sanitary Sewer under 5' depth, to include frame and cover.	4,000	00
3.9	Each, Furnish and install type A-1 Manhole for Sanitary Sewer 5.1' to 10' depth, to include frame and cover.	5,750	00
3.10	Each, Furnish and install type A-1 Manhole for Sanitary Sewer 10.1' to 15' depth, to include frame and cover.	7,500	00
3.11	Each, Furnish and install type A-1 Manhole for Sanitary Sewer 15.1' to 20' depth, to include frame and cover.	9,250	00
3.12	Each, Furnish and Install 18"x18"x18" Precast Concrete Knockout Basin, PCS-2814 frame and grate, excavation and disposal, backfill with clean crushed stone, 6" of clean crushed stone base, basin and frame and grate as manufactured by Precast Concrete Sales Co, Valley Cottage, NY or approved equal.	2,000	00
	Sub-total	\$68,250	00
	Contractor's Markup for Pre-Cast Concrete Structures Items (%)	35%	
	Grand Total for Pre-Cast Concrete Structures Items (Sub-total X %)	92,137.50	

ITEM NUMBER	ITEM DESCRIPTION	UNIT BID PRICES	
		DOLLARS	CENTS
Group #4 Manhole and Catch Basin Castings			
4.1	Each, Existing Catch Basin Frame and Grate adjusted by removing and resetting to grade, including initial saw-cutting, excavation of whatever material encountered, and 1-4 courses of RED brick and mortar complete. Final sawcut, backfill, and asphalt restoration to be paid under respective bid items.	700	00
4.2	Each, Existing Manhole Frame and Cover adjusted by removing and resetting to grade, including initial saw-cutting, excavation of whatever material encountered, and 1-4 courses of RED brick and mortar, complete. Final sawcut, backfill, and asphalt restoration to be paid under respective bid items.	600	00
4.3	Each, Existing Manhole Frame and Cover removed and then replaced on existing structure to allow for sewer lining operation. NOTE: This is a 2 day operation. <u>Day 1 (Pre-Lining):</u> Sawcut 7' x 7' maximum. Remove and dispose asphalt. Excavate and dispose material around manhole, up to 36" below grade. Remove and store manhole frame and cover. Remove and dispose brick and masonry up to 36" below grade. Cover excavation with HS-20 steel plates (To be recessed in winter months). <u>Day 2 (Post-Lining):</u> Remove steel plates. Re-install manhole frame and cover, to include up to 30" of RED brick and mortar to be parged both inside and outside. Final sawcut, backfill, and asphalt restoration to be paid under respective bid items.	8,000	00
4.4	Each, New Type - 1 Catch Basin Frame and Grate with curb piece, furnished and installed, to replace existing catch basin frame and grate on existing catch basin, including initial saw-cutting, excavation of whatever material encountered up to 36" below grade, removal and disposal of existing catch basin frame, grate, brick and masonry, and setting of new catch basin frame and grate on up to 30" of RED brick and mortar to be parged both inside and outside. Final sawcut, backfill, and asphalt restoration to be paid under respective bid items.	1,700	00
4.5	Each, New Type - 2 Catch Basin Frame and Grate without curb piece, furnished and installed, to replace existing catch basin frame and grate on existing catch basin, including initial saw-cutting, excavation of whatever material encountered up to 36" below grade, removal and disposal of existing catch basin frame, grate, brick and masonry, and setting of new catch basin frame and grate on up to 30" of RED brick and mortar to be parged both inside and outside. Final sawcut, backfill, and asphalt restoration to be paid under respective bid items.	1,600	00

ITEM NUMBER	ITEM DESCRIPTION	UNIT BID PRICES	
		DOLLARS	CENTS
4.6	Each, New Manhole Frame and Cover, furnished and installed, to replace existing manhole frame and cover on existing manhole, including initial saw-cutting, excavation of whatever material encountered up to 36" below grade, removal and disposal of existing manhole frame, cover, brick and masonry, and setting of new manhole frame and cover on up to 30" of RED brick and mortar to be parged both inside and outside. Final sawcut, backfill, and asphalt restoration to be paid under respective bid items.	1,300	00
4.7	Each, Furnish and Install 3028 Self Level 1890A2GS Manhole Assembly as manufactured by EJ or approved equal.	1,500	00
Sub-total		\$15,400	00
Contractor's Markup for Manhole and Catch Basin Castings Items (%)		40%	
Grand Total for Manhole and Catch Basin Castings Items (Sub-total X %)		21,560	00

ITEM NUMBER	ITEM DESCRIPTION	UNIT BID PRICES	
		DOLLARS	CENTS
Group #5 Masonry			
5.1	Sq. Ft., Existing Bluestone Sidewalk Flags to be removed and reset to grade, including 6" depth stone dust base.	5	00
5.2	Lin. Ft., Existing Stone Curb to be removed and replaced, including initial saw-cutting, excavation of whatever material encountered, and 4,500 PSI concrete foundation. Final sawcut, backfill, and asphalt restoration to be paid under respective bid items.	100	00
5.3	Lin. Ft., New Bluestone Curb, furnished and installed, including radius curb, initial saw-cutting, excavation of whatever materials encountered, and 4,500 PSI concrete foundation. Final sawcut, backfill, and asphalt restoration to be paid under respective bid items.	200	00
5.4	Cu. Ft., Additional Brick Masonry.	75	00
5.5	Cu. Ft., Furnish and Install New Wall Stone, including all necessary excavation and disposal, temporary shoring, mortar joints, and setting of coping stone.	60	00
5.6	Cu. Ft., Repair/Rebuild Wall with existing stone and cut and repoint joints with Type-M mortar, to include removal and disposal of all materials removed.	40	00
Sub-total		\$480	00
Contractor's Markup for Masonry Items(%)		60%	
Grand Total for Masonry Items (Sub-total X %)		768	00

ITEM NUMBER	ITEM DESCRIPTION	UNIT BID PRICES	
		DOLLARS	CENTS
Group #6 Excavation			
6.1	Cu. Yds., Excavation and Disposal of whatever materials encountered except ledge rock and boulders (0' -5' total depth), where and as directed, to include initial saw-cutting and removal and disposal of asphalt/concrete roadway.	50	00
6.2	Cu. Yds., Excavation and Disposal of whatever materials encountered except ledge rock and boulders (5.1' -10' total depth), where and as directed, to include initial saw-cutting and removal and disposal of asphalt/concrete roadway.	60	00
6.3	Cu. Yds., Excavation and Disposal of whatever materials encountered except ledge rock and boulders (10.1' -15' total depth), where and as directed, to include initial saw-cutting and removal and disposal of asphalt/concrete roadway.	70	00
6.4	Cu. Yds., Excavation and Disposal of whatever materials encountered except ledge rock and boulders (15.1' -20' total depth), where and as directed, to include initial saw-cutting and removal and disposal of asphalt/concrete roadway.	75	00
Sub-total		\$255	00
Contractor's Markup for Excavation Items (%)		100%	
Grand Total for Excavation Items (Sub-total X %)		510.00	
NOTE: ALL PUMPING FOR DEWATERING OF THE EXCAVATION (IF NEEDED) SHALL BE DEEMED INCLUDED IN THE UNIT BID ITEMS IN THIS SECTION			

ITEM NUMBER	ITEM DESCRIPTION	UNIT BID PRICES	
		DOLLARS	CENTS
Group #7 Miscellaneous Excavation			
7.1	Cu. Yds., Test Pit Excavation (Max. depth of 10' from finished grade), where and as directed, to include backfilling with native excavated material (Sawcutting, sheeting, restoration, etc. to be paid for under respective bid items).	100	00
7.2	Cu. Yds., Hand Excavation (utilizing non powered tools) to be supplementary to excavation items as required, directed, and approved in writing by the Engineer. (THIS ITEM SHALL ONLY BE USED WHERE IT IS DETERMINED BY THE ENGINEER THAT MOTORIZED HEAVY MACHINERY CANNOT PHYSICALLY WORK).	100	00
7.3	Cu. Yds., Boulder Excavation and disposal in open trench.	60	00
7.4	Cu. Yds., Rock Removal (Mechanical) and disposal.	225	00
7.5	Total Hours by Crew, Stream Cleaning, to include chainsaws, hand tools, small machinery (Less than 10,000 lbs), and a minimum of 3 laborers. (THIS ITEM SHALL ONLY BE USED WHERE IT IS DETERMINED BY THE ENGINEER THAT MOTORIZED HEAVY MACHINERY CANNOT PHYSICALLY WORK)	500	00
7.6	Cu. Yds., Stream Dredging, to include labor, transportation, machinery, trucking, disposal and tools (Measured as per certified dump tickets).	150	00
7.7	Lin. Ft., Cutting and Disposal of Trolley Tracks, to include removal and disposal of any railroad ties.	100	00
Sub-total		\$1,235	00
Contractor's Markup for Miscellaneous Excavation Items (%)		45%	
Grand Total for Miscellaneous Excavation Items (Sub-total X %)		1,790.75	
NOTE: ALL PUMPING FOR DEWATERING OF THE EXCAVATION (IF NEEDED) SHALL BE DEEMED INCLUDED IN THE UNIT BID ITEMS IN THIS SECTION			

ITEM NUMBER	ITEM DESCRIPTION	UNIT BID PRICES	
		DOLLARS	CENTS
Group #8 Excavation Stabilization			
8.1	Sq. Ft., Pre-Engineered Trench Shoring System (0' - 10' depth as measured from finished grade) as per all O.S.H.A. regulations. (To be paid as measured fully installed in excavation. Depth of excavation from finished grade X perimeter of excavation at finished grade).	5	00
8.2	Sq. Ft., Pre-Engineered Trench Shoring System (10.1' - 15' depth as measured from finished grade) as per all O.S.H.A. regulations. (To be paid as measured fully installed in excavation. Depth of excavation from finished grade X perimeter of excavation at finished grade).	7	50
8.3	Sq. Ft., Pre-Engineered Trench Shoring System (15.1' - 20' depth as measured from finished grade) as per all O.S.H.A. regulations. (To be paid as measured fully installed in excavation. Depth of excavation from finished grade X perimeter of excavation at finished grade).	10	00
8.4	Sq. Ft., Timber Sheeting (0' - 10' depth as measured from finished grade) as per all O.S.H.A. regulations, and as designed by a registered N.Y.S. Licensed Professional Engineer. (To be paid as measured fully installed in excavation. Depth of excavation from finished grade X perimeter of excavation at finished grade. Contractor to retain N.Y.S.P.E. on a per location basis to submit a design of the timber sheeting system specific to site conditions).	7	00
8.5	Sq. Ft., Timber Sheeting (10.1' - 15' depth as measured from finished grade) as per all O.S.H.A. regulations and as designed by a registered N.Y.S. Licensed Professional Engineer. (To be paid as measured fully installed in excavation. Depth of excavation from finished grade X Perimeter of excavation at finished grade. Contractor to retain N.Y.S.P.E. on a per location basis to submit a design of the timber sheeting system specific to site conditions).	15	00
8.6	Sq. Ft., Timber Sheeting (15.1' - 20' depth as measured from finished grade) as per all O.S.H.A. regulations and as designed by a registered N.Y.S. Licensed Professional Engineer. (To be paid as measured fully installed in excavation. Depth of excavation from finished grade X Perimeter of excavation at finished grade. Contractor to retain N.Y.S.P.E. on a per location basis to submit a design of the timber sheeting system specific to site conditions).	30	00
8.7	Each, Design and Submission of Timber Sheeting System by a registered N.Y.S. Licensed Professional Engineer.	3,500	00

ITEM NUMBER	ITEM DESCRIPTION	UNIT BID PRICES	
		DOLLARS	CENTS
8.8	Lin. Ft., Temporary Fencing for all trenches approved to be left uncovered by the Engineer, furnished, installed, maintained, and removed.	5	00
8.9	Lin. Ft., Temporary Free-Standing 6' Height Chain Link Fence, with panels and approved base weights, as directed by Engineer.	20	00
8.10	Sq. Ft., HS-20 Load Rated Steel Plates to cover excavation in roadway or as directed by the Engineer, to include recessing to road grade in winter months, pins, and cold patch asphalt ramps in non winter months, furnish, install, maintenance during all phases of work, and removal. (Note: This item is to be paid once per plate per location actually covering an excavation and in use)	5	00
Sub-total		\$3,604	50
Contractor's Markup for Excavation Stabilization Items (%)		75%	
Grand Total for Excavation Stabilization Items (Sub-total X %)		6,307	88

ITEM NUMBER	ITEM DESCRIPTION	UNIT BID PRICES	
		DOLLARS	CENTS
Group #9 Granular Material			
9.1	Cu. Yds., N.Y. State Item 304.02, select granular material, to be used as CLEAN BACKFILL, furnished, delivered and compacted, as specified as directed, measured loose in trucks. (NO MILLINGS, GLASS, ORGANIC MATERIAL OR BLAST FURNACE SLAG PERMITTED).	50	00
9.2	Cu. Yds., Clean 3/4" Crushed Stone (washed) furnished, delivered, and placed, for use as pipe bedding and as needed.	60	00
9.3	Tons, "Rip-Rap" Surge Stone (4" to 10" small size), furnished, delivered, placed by hand, and graded.	60	00
9.4	Tons, "Rip-Rap" Surge Stone (10.1" to 18" medium size), furnished, delivered, placed by hand, and graded.	105	00
9.5	Each, Galvanized Wire Mesh Gabion (6' x 3' x 3'), furnished, delivered, and assembled in place. Rip-Rap, excavation, crushed stone, and filter fabric to be paid for under respective bid items.	150	00
9.6	Sq. Yd., Filter Fabric (8.0 oz Non-Woven Geotextile) to meet or exceed specifications in Section 42 of COY Engineering Dept. List of Technical Construction Specifications	3	00
Sub-total		\$428	00
Contractor's Markup for Granular Material Items (%)		75%	
Grand Total for Granular Material Items (Sub-total X %)		749.00	

ITEM NUMBER	ITEM DESCRIPTION	UNIT BID PRICES	
		DOLLARS	CENTS
Group #10 Landscaping			
10.1	Cu. Yds., Topsoil, furnished, delivered, and graded.	50	00
10.2	Sq. Yds., Grass Seeding by hand, including fertilizer and hay/straw layer.	4	00
10.3	Sq. Yds., Hydro Seeding, to include mulch, tackifier, fertilizer, grass seed (Contractor Blend), and preparation of topsoil. (Note: Minimum area per location is 1000 Sq. Yds).	3	00
10.4	Sq. Yds., Tensar ERONET SC 150 Turf Reinforcement Mat, or approved equal, to include grading at an average of 1' depth and staples.	6	00
10.5	Each, Tree, 6.1" to 8" in caliper, to be cut down, removed, and disposed of off-site.	400	00
10.6	Each, Tree, 8.1" to 15" in caliper, to be cut down, removed, and disposed of off-site.	800	00
10.7	Each, Tree, 15.1" to 24" in caliper, to be cut down, removed, and disposed of off-site.	2,000	00
10.8	Each, Tree, 24.1" to 36" in caliper, to be cut down, removed, and disposed of off-site.	2,500	00
10.9	Sq.Yds., Clearing and Grubbing of vegetation, stumps and trees up to 6" in caliper, as ordered by the Engineer, to include disposal.	20	00
10.10	Each, Existing Tree Stump, 4' or less in height, 6.1" to 8" in caliper, to be removed and disposed of off-site.	100	00
10.11	Each, Existing Tree Stump, 4' or less in height, 8.1" to 15" in caliper, to be removed and disposed of off-site.	200	00
10.12	Each, Existing Tree Stump, 4' or less in height, 15.1" to 24" in caliper, to be removed and disposed of off-site.	300	00
10.13	Each, Existing Tree Stump, 4' or less in height, 24.1" to 36" in caliper, to be removed and disposed of off-site.	400	00
10.14	Cu. Yds., Fallen Trees, 6.1" or more in caliper, to be cut, removed, and disposed of off-site.	20	00
Sub-total		\$6,803	00
Contractor's Markup for Landscaping Items (%)		30%	
Grand Total for Landscaping Items (Sub-total X %)		8,843	90

ITEM NUMBER	ITEM DESCRIPTION	UNIT BID PRICES	
		DOLLARS	CENTS
Group #11 Poured-in-Place Concrete / Sidewalk & Curb			
11.1	Cu. Yds., Controlled Density Backfill (50 PSI "K-Crete"), furnished, delivered, and placed.	125	00
11.2	Cu. Yds., Additional Concrete (4,500 PSI), furnished, delivered, and placed, including necessary formwork.	300	00
11.3	Pounds, Reinforcing Steel, furnished, delivered, and installed.	5	00
11.4	Cu.Yds, Reinforced Concrete Steps, to include all forms, all steel reinforcing, nosing/tread insert, new handrails on both sides of new steps, 3/4" crushed stone, saw cutting, and demolition and removal of existing steps. (Note: To be paid per Cubic Yard of concrete in place).	3,500	00
11.5	Sq. Ft., Existing Concrete Sidewalk to be removed and replaced with one course 5" thick 4,500 PSI concrete, including excavation of whatever materials encountered, saw-cutting, 6" depth crushed stone base, expansion joint material, and approved finish.	12	00
11.6	Sq. Ft., Existing Driveway Apron to be removed and replaced with one course 8" thick 4,500 PSI concrete, including excavation of whatever materials encountered, saw-cutting, 6" depth crushed stone base, expansion joints material, welded wire reinforcement, and approved finish.	17	00
11.7	Lin. Ft., New Concrete Curb (4,500 PSI Concrete), furnished and installed, including initial saw-cutting, 6" depth crushed stone base, expansion joint material, forms, excavation of whatever materials encountered, and approved finish. Final sawcut, backfill, and asphalt restoration to be paid under respective bid items.	50	00
11.8	Sq. Ft., Remove and Replace Existing Pedestrian Ramp including all necessary saw-cutting, truncated dome surface, welded wire reinforcement (8" Thick - 4,500 PSI Concrete).	30	00
11.9	Cu.Yds., 4,500 PSI Concrete for Wall Footing, to include all necessary excavation and disposal, temporary shoring, and form work.	800	00
11.10	Cu. Yds., Winter Concrete Additional Cost to include winter additives and cold weather curing protection, determined by weather, as per approval by COY Engineer prior to ordering. Contractor to provide proof of additive on concrete ticket.	20	00
11.11	Each, Sign Post, removed and reset	150	00
Sub-total		\$5,009	00
Contractor's Markup for Poured-in-Place Concrete / Sidewalk & Curb Items (%)		35%	
Grand Total for Poured-in-Place Concrete / Sidewalk & Curb Items (Sub-total X %)		6,762.15	

ITEM NUMBER	ITEM DESCRIPTION	UNIT BID PRICES	
		DOLLARS	CENTS
Group #12 Asphalt			
12.1	Tons, Asphaltic Concrete Binder for final base pavement, furnished, delivered, placed, and compacted.	200	00
12.2	Tons, Asphaltic Concrete Top (2" Depth) for final wearing surface, furnished, delivered, placed and compacted.	215	00
12.3	Tons, SUPERPAVE Base for final base pavement, furnished, delivered, placed, and compacted, including tack coat.	325	00
12.4	Tons, SUPERPAVE Binder for final base pavement, furnished, delivered, placed, and compacted, including tack coat.	325	00
12.5	Tons, SUPERPAVE Top for final wearing surface, furnished, delivered, placed, and compacted, including tack coat.	325	00
12.6	Cu.Ft., Mechanical Asphalt Pavement Removal, where and as directed by Engineer.	8	00
12.7	Lin. Ft., Saw-cutting for Final Asphalt Restoration, to include removal and disposal of asphalt, up to 18" from edge of initial excavation.	4	00
12.8	Lin. Ft., Asphalt Concrete Curb, 4" height x 6" base width, furnished, delivered, placed, and compacted where directed.	30	00
12.9	Lin. Ft., Asphalt Concrete Swale, 30" width max., furnished, laid, and compacted, including excavation and disposal of whatever materials encountered up to 18" from finished grade/top of swale, and 6" depth of approved sub-base material and 4" of top asphalt.	100	00
12.10	Tons, Winter Asphalt additional cost to include winter additives and increased travel distance, determined by weather, as per approval by COY Engineering prior to ordering. No payment to be made for this item without written approval from COY Engineering.	15	00
Sub-total		\$1,547	00
Contractor's Markup for Asphalt Items (%)		35%	
Grand Total for Asphalt Items (Sub-total X %)		2,088.45	

ITEM NUMBER	ITEM DESCRIPTION	UNIT BID PRICES	
		DOLLARS	CENTS
Group #13 Maintenance of Site and Traffic			
NOTE: Site Maintenance and Basic Maintenance and Protection of Traffic as prescribed by the most current			
13.1	Hours, Certified Dedicated Traffic Flaggers, as directed by the Engineer.	75	00
13.2	Sq. Ft. Temporary Traffic Control Signs. Signs to meet all applicable M.U.T.C.D. regulations, to include installation, wind-master stands, maintenance during the work, and removal. Item to be paid for additional signs above and beyond basic traffic control and will be paid once per sign face area per location.	20	00
13.3	Hour, City of Yonkers Police Officer to assist with Traffic Maintenance, as agreed in writing by the Engineer	120	00
13.4	Hour, City of Yonkers Police Officer Supervisor to assist with Traffic Maintenance, as agreed in writing by the Engineer	160	00
13.5	Per Day, Furnish, Deliver, Maintain, and Remove PCMS-1210/PCMS-1210QS Trailer mounted Variable Message Board as manufactured by Ver-Mac or approved equal. (This item will be paid per 24 hour period).	160	00
Sub-total		\$535	00
Contractor's Markup for Maintenance of Site and Traffic Items (%)			30%
Grand Total for Maintenance of Site and Traffic Items (Sub-total X %)		695	50

ITEM NUMBER	ITEM DESCRIPTION	UNIT BID PRICES	
		DOLLARS	CENTS
Group #14 Guide Rail & Fencing			
14.1	Lin. Ft., Guide Rail, removed and reset as directed, including new hardware if necessary	45	00
14.2	Lin. Ft., Guide Rail, removed and disposed of as directed, including posts.	30	00
14.3	Lin. Ft., HPBO (Modified) Corrugated Beam Guide Rail, furnished, delivered, and installed, including posts with attached steel soil plates and excavation / post driving.	100	00
14.4	Each, I-Beam Posts with Steel Soil Plates, for HPBO (Modified) Corrugated Beam Guide Rail	220	00
14.5	Lin. Ft., 4' Height Black Vinyl-Coated Chain Link Fence, furnished, delivered, and installed, including excavation, footings, posts, and all necessary hardware	60	00
14.6	Lin. Ft., 6' Height Black Vinyl-Coated Chain Link Fence, furnished, delivered, and installed, including excavation, footings, posts, and all necessary hardware	80	00
14.7	Each, Furnish and Install 6" Diameter SCH40 Steel Pipe Bollard as per detail.	1,000	00
	Sub-total	\$1,535	00
	Contractor's Markup for Guide Rail & Fencing Items (%)	25%	
	Grand Total for Guide Rail & Fencing Items (Sub-total X %)	1,918	75

ITEM NUMBER	ITEM DESCRIPTION	UNIT BID PRICES	
		DOLLARS	CENTS
Group #15 Traffic Signals			
15.1	L.F., Conduit Excavation and Backfill Including Surface Restoration (N.Y.S. Pay Item # 206.03).	80	00
15.2	Cu. Yds., Pole Excavation and Concrete Foundation (N.Y.S. Pay Item # 680.5001).	1,760	00
15.3	Each, Concrete Base for Controller Cabinet (N.Y.S. Pay Item # 680.50002).	1,600	00
15.4	Each, Alter Elevations of Pull Boxes (N.Y.S. Pay Item # 680.51000010).	1,000	00
15.5	Each, Pull Box - Rectangular 26"x18" Reinforced Concrete (N.Y.S. Pay Item # 680.510501).	1,175	00
15.6	Each, Clean Existing Pull Box (N.Y.S. Pay Item # 680.5110).	400	00
15.7	L.F., Conduit, Metal, Steel, Zinc Coated, 1" Diameter (N.Y.S. Pay Item # 680.520103).	14	00
15.8	L.F., Conduit, Metal, Steel, Zinc Coated, 2" Diameter (N.Y.S. Pay Item # 680.520106).	18	00
15.9	L.F., Conduit, Metal, Steel, Zinc Coated, 3" Diameter (N.Y.S. Pay Item # 680.520108).	25	00
15.10	L.F., Conduit, Metal, Steel, Zinc Coated, 4" Diameter (N.Y.S. Pay Item # 680.520110).	45	00
15.11	L.F., Conduit, Flexible, Liquid Tight Steel, 1" Diameter (N.Y.S. Pay Item # 680.520203).	14	00
15.12	L.F., Clean Existing Conduit (N.Y.S. Pay Item # 680.5301).	11	00
15.13	L.F., Inductance Loop Installation (N.Y.S. Pay Item # 680.54).	16	25
15.14	Each, Furnish and Install Traffic Signal Pole - Span Wire, 4000 lbs., 28 Ft (N.Y.S. Pay Item # 680.600428).	6,000	00
15.15	Each, Furnish and Install Traffic Signal Pole - Span Wire, 5000 lbs., 30 Ft (N.Y.S. Pay Item # 680.600530).	7,400	00
15.16	Each, Furnish and Install Traffic Signal Pole - Mast Arm, 20 Ft Mounting Height, 25 Ft Arm Length (N.Y.S. Pay Item # 680.622025).	7,800	00
15.17	Each, Furnish and Install Traffic Signal Pole - Mast Arm, 20 Ft Mounting Height, 30 Ft Arm Length (N.Y.S. Pay Item # 680.622030).	8,000	00
15.18	Each, Furnish and Install Traffic Signal Pole - Mast Arm, 20 Ft Mounting Height, 40 Ft Arm Length (N.Y.S. Pay Item # 680.622040).	8,700	00
15.19	Each, Furnish and Install Traffic Signal Pole - Bracket Mount, 12 Ft (N.Y.S. Pay Item # 680.6812).	1,225	00

ITEM NUMBER	ITEM DESCRIPTION	UNIT BID PRICES	
		DOLLARS	CENTS
15.20	Each, Single Span Wire Assembly (N.Y.S. Pay Item # 680.7001).	1,250	00
15.21	Each, Dual Span Wire Assembly with Upper Tether Wire (N.Y.S. Pay Item # 680.7002).	1,400	00
15.22	L.F., Shielded Lead-in Cable (N.Y.S. Pay Item # 680.71).	2	00
15.23	L.F., Inductance Loop Wire (N.Y.S. Pay Item # 680.72).	1	25
15.24	L.F., Power Cable - 2 Conductors with Ground, 14 AWG, Stranded (N.Y.S. Pay Item # 680.730214).	5	00
15.25	L.F., Signal Cable - 5 Conductors, 14 AWG (N.Y.S. Pay Item # 680.730514).	5	00
15.26	L.F., Signal Cable - 10 Conductors, 14 AWG (N.Y.S. Pay Item # 680.731014).	6	00
15.27	L.F., Signal Cable - 15 Conductors, 14 AWG (N.Y.S. Pay Item # 680.731514).	7	25
15.28	Each, Modify Traffic Signal Equipment (Controller and Cabinet Programming and Modifications) (N.Y.S. Pay Item # 680.77).	2,000	00
15.29	Each, Modify Traffic Signal Equipment (Troubleshoot and repair Video Detection System) (N.Y.S. Pay Item # 680.78).	2,500	00
15.30	Each, Furnish and Install 330 Cabinet (Stretch) with Naztec 2070 Controller (N.Y.S. Pay Item # 680.803245).	15,000	00
15.31	Each, Microcomputer Cabinet Base, Aluminum (N.Y.S. Pay Item # 680.803247).	3,800	00
15.32	Each, Traffic Signal Module - 12" (300mm), RED BALL, LED (N.Y.S. Pay Item # 680.810101).	125	00
15.33	Each, Traffic Signal Module - 12" (300mm), RED ARROW, LED (N.Y.S. Pay Item # 680.810102).	125	00
15.34	Each, Traffic Signal Module - 12" (300mm), YELLOW BALL, LED (N.Y.S. Pay Item # 680.810103).	125	00
15.35	Each, Traffic Signal Module - 12" (300mm), YELLOW ARROW, LED (N.Y.S. Pay Item # 680.810104).	125	00
15.36	Each, Traffic Signal Module - 12" (300mm), GREEN BALL, LED (N.Y.S. Pay Item # 680.810105).	125	00
15.37	Each, Traffic Signal Module - 12" (300mm), GREEN ARROW, LED (N.Y.S. Pay Item # 680.810106).	125	00
15.38	Each, Traffic Signal Section - 12" (300mm), Empty (N.Y.S. Pay Item # 680.810107).	150	00
15.39	Each, Traffic Signal Module - 12" (300mm), Bi-Modal, Yellow/Green Arrows, LED (N.Y.S. Pay Item # 680.810107).	350	00

ITEM NUMBER	ITEM-DESCRIPTION	UNIT BID PRICES	
		DOLLARS	CENTS
15.40	Each, Traffic Signal Astro Bracket Assembly (Rigid) - 1-Way (N.Y.S. Pay Item # 680.8111).	460	00
15.41	Each, Traffic Signal Bracket Assembly - 1 Way (N.Y.S. Pay Item # 680.8111).	460	00
15.42	Each, Traffic Signal Bracket Assembly - 2 Way (N.Y.S. Pay Item # 680.8112).	700	00
15.43	Each, Traffic Signal Bracket Assembly - 3 Way (N.Y.S. Pay Item # 680.8113).	850	00
15.44	Each, Traffic Signal Bracket Assembly - 4 Way (N.Y.S. Pay Item # 680.8114).	1,200	00
15.45	Each, Pedestrian Signal Module, LED Dual Indicator, 16"x18", Countdown (N.Y.S. Pay Item # 680.813107).	345	00
15.46	Each, Pedestrian Signal Section - Type I, 16"x18" (N.Y.S. Pay Item # 680.813108).	330	00
15.47	Each, Pedestrian Signal Bracket Mount Assembly (N.Y.S. Pay Item # 680.8141).	325	00
15.48	Each, Overhead Sign Assembly - Type 'A' (Span Wire Installations) (N.Y.S. Pay Item # 680.8201).	600	00
15.49	Each, Overhead Sign Assembly - Type 'E' (Mast Arm Installations) (N.Y.S. Pay Item # 680.8205).	725	00
15.50	Each, Pedestrian Pushbutton and Sign Without Post (N.Y.S. Pay Item # 680.8225).	362	50
15.51	Each, Pedestrian Pushbutton and Sign With Post (N.Y.S. Pay Item # 680.8226).	825	00
15.52	Each, Traffic Signal Service Entrance (Overhead) (N.Y.S. Pay Item # 680.94).	1,050	00
15.53	Each, Traffic Signal Service Entrance (Underground) (N.Y.S. Pay Item # 680.94).	1,200	00
15.54	Each, Furnish and Install Electrical Disconnect Generator Transfer Switch (N.Y.S. Pay Item # 680.94997).	1,425	00
15.55	L.F., Traffic Signal Service Cable - 2 Conductors, 6 AWG (N.Y.S. Pay Item # 680.950206).	4	50
15.56	L.F., Category 5E Ethernet Cable, Outdoor Rated (N.Y.S. Pay Item # 683.1001).	4	00
15.57	Each, Furnish and Install Accessible Pedestrian Signal (APS) with Pole. (N.Y.S. Pay Item # 680.81310109).	2,500	00
15.58	Each, Furnish and Install Accessible Pedestrian Signal (APS) without Pole. (N.Y.S. Pay Item # 680.81310209).	1,500	00
Sub-total		\$87,375	75
Contractor's Markup for Traffic Signals Items (%)		5%	
Grand Total for Traffic Signals Items (Sub-total X %)		91,744.54	

ITEM NUMBER	ITEM DESCRIPTION	UNIT BID PRICES	
		DOLLARS	CENTS
Group #16 Allowance			
16.1	Allowance, for Work Not Specified Under Unit Bid Items, as directed in writing by the Engineer, at Fifty-Thousand Dollars and 00/100.	50,000	00
16.2	Allowance, for Performance Bond Cost. Contractor to maintain a \$250,000.00 Performance Bond for the life of the contract. The Contractor will be reimbursed for the actual cost of the bond, however, this cost shall not exceed \$5,000.00.	5,000	00

Grand Total for Group #1 Pipe & Fittings:	\$ 48,339.90
Grand Total for Group #2 Water Main & Water Services:	\$ 37,081.08
Grand Total for Group #3 Pre-Cast Structures:	\$ 92,137.50
Grand Total for Group #4 Manhole and Catch Basin Castings:	\$ 21,560.00
Grand Total for Group #5 Masonry:	\$ 768.00
Grand Total for Group #6 Excavation:	\$ 510.00
Grand Total for Group #7 Miscellaneous Excavation:	\$ 1,790.75
Grand Total for Group #8 Excavation Stabilization:	\$ 6,307.88
Grand Total for Group #9 Granular Material:	\$ 749.00
Grand Total for Group #10 Landscaping:	\$ 8,843.90
Grand Total for Group #11 Poured-in-Place Concrete / Sidewalk & Curb:	\$ 6,762.15
Grand Total for Group #12 Asphalt:	\$ 2,088.45
Grand Total for Group #13 Maintenance of Site and Traffic:	\$ 695.50
Grand Total for Group #14 Guide Rail & Fencing:	\$ 1,918.75
Grand Total for Group #15 Traffic Signals:	\$ 91,744.54
Grand Total for Group #16 Allowance:	\$ 55,000.00
Grand Total for Bid Groups #1 Through #16	\$ 376,297.40

