



## City of Duluth

DEPARTMENT OF PUBLIC WORKS/UTILITIES  
Engineering Division  
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Date: March 5, 2012

City of Duluth Bid #2012-00000164  
Job Description: 2012 Concrete Pavement Rehabilitation  
City Project No. 0922TR

### ***Addendum #1***

Bid Form:

N/A

Specifications:

N/A

Plan sheets: Revised Plan Sheet No. 2 replaces Plan Sheet No. 2. Note 10 added to  
Specification Nos. 2301.603 and 2301.618.

All other items remain the same.

Sincerely,

Patrick Mlakar  
Senior Engineering Specialist

**STATEMENT OF ESTIMATED QUANTITIES**

PAGE	NOTE	SPEC. NO.	DESCRIPTION	UNIT	118-152-014 21st AVE EAST - PARTICIPATING	118-183-004 HARBOR DRIVE - PARTICIPATING	NON - PARTICIPATING	TOTAL QUANTITY
		2021.501	MOBILIZATION	LUMP SUM	0.5	0.5	-	1
	1,2	2211.501	AGGREGATE BASE CLASS 5	TON	94	128	-	222
7-11	3,4,5	2301.602	DRILL & GROUT DOWEL BAR (EPOXY COATED)	EACH	302	273	-	575
7-11	3,4,5,10	2301.603	JOINT REPAIR TYPE SA-A1	LIN FT	4000	12000	-	16000
7-11	3,4,5,10	2301.603	JOINT REPAIR TYPE SA-A2	LIN FT	4000	12000	-	16000
7-11	3,4,5,10	2301.603	JOINT REPAIR TYPE SA-A3	LIN FT	182	304	-	486
7-11	3,4,5,10	2301.603	CURB & GUTTER REPAIR TYPE SA-CG	LIN FT	973	466	-	1439
7-11	3,4,5	2301.608	DOWEL BARS (EPOXY COATED)	EACH	559	95	-	654
7-11	3,4,5,10	2301.618	PARTIAL DEPTH REPAIR TYPE SA-BA	SQ FT	998	1650	-	2648
7-11	3,4,5,10	2301.618	PARTIAL DEPTH REPAIR TYPE SA-BE	SQ FT	499	826	-	1325
7-11	3,4,5,10	2301.618	SPOT FULL DEPTH REPAIR TYPE SA-C1	SQ FT	460	-	-	460
7-11	3,4,5,10	2301.618	FULL DEPTH REPAIR TYPE SA-CA	SQ FT	693	355	-	1048
7-11	3,4,5,10	2301.618	FULL DEPTH REPAIR TYPE SA-CD	SQ FT	302	1359	-	1661
7-11	3,4,5,10	2301.618	FULL DEPTH REPAIR TYPE SA-CX	SQ FT	18304	6878	-	25182
6	4	2504.602	ADJUST VALVE BOX	EACH	4	1	-	5
6	4,8	2506.502	CONST DRAINAGE STRUCTURE DESIGN G	EACH	6	2	-	8
6		2506.516	CASTING ASSEMBLY	EACH	6	2	-	8
6	4	2506.522	ADJUST FRAME & RING CASTING	EACH	12	1	-	13
	1	2506.602	GROUT CATCH BASIN OR MANHOLE	EACH	18	14	-	32
8	8	2506.602	REPAIR CATCH BASINS	EACH	2	-	-	2
	1,4,6,7	2521.501	4" CONCRETE WALK	SQ FT	3000	1500	-	4500
		2531.618	TRUNCATED DOMES	SQ FT	160	16	-	176
6-11	4,6,7	2531.618	PEDESTRIAN CURB RAMPS	SQ FT	2600	260	-	2860
7,8	1,4	2550.541	6' x 6' LOOP DETECTOR DESIGN PVC	EACH	6	-	-	6
7	9	2550.602	AUTOSCOPE CAMERA	EACH	1	-	-	1
14-16		2563.601	TRAFFIC CONTROL	LUMP SUM	0.5	0.5	-	1
		2573.530	STORM DRAIN INLET PROTECTION	LUMP SUM	0.5	0.5	-	1
12		2582.501	PAVT MSSG (LT ARROW) EPOXY	EACH	7	-	-	7
12		2582.502	4" SOLID LINE WHITE - EPOXY	LIN FT	556	-	-	556
12,13		2582.502	12" SOLID LINE WHITE - EPOXY	LIN FT	450	168	-	618
12,13		2582.502	24" STOP LINE WHITE - EPOXY	LIN FT	150	20	-	170
12		2582.502	24" SOLID LINE YELLOW - EPOXY	LIN FT	413	-	-	413
12,13		2582.502	4" DOUBLE SOLID LINE YELLOW - EPOXY	LIN FT	1943	2000	-	3943

PLATE NO.	STANDARD PLATES
1103K	TYPICAL DOWEL BAR ASSEMBLY
4006L	MANHOLE OR CATCH BASIN PRECAST G - H
4021F	PRECAST CURB OPENING CATCH BASIN
7035N	CONCRETE WALK & CURB RETURNS AT ENTRANCES
7036G	PEDESTRIAN CURB RAMP
7100H	CONCRETE CURB AND GUTTER
8000I	STANDARD BARRICADES

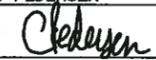
J:\PROJECTS\Transportation\0922TR\_Conc Pavement Various Misc Drawings\0922TR QUANTITIES.dwg, 3/5/2012 11:35:40 AM, 1:1

NOTES:

- 1) AS DIRECTED BY THE ENGINEER.
- 2) TO BE USED TO BUILD UP AGGREGATE BASE UNDER CONCRETE PAVEMENT & SIDEWALK AND TO MEET ALL AGGREGATE BASE REQUIREMENTS.
- 3) THE ENGINEER SHALL MARK CONCRETE PAVEMENT REHABILITATION, SIDEWALK, CURB REPAIRS AT THE TIME OF CONSTRUCTION.
- 4) ALL SAWING, REMOVALS, EXCAVATION, DISPOSAL NECESSARY SHALL BE CONSIDERED INCIDENTAL TO ITEMS.
- 5) FOR DETAILS AND SPECIFICATIONS, CONTRACTOR SHALL USE THE 2006 STATE AID CONCRETE PAVEMENT REHABILITATION BEST PRACTICES MANUAL. WHEN USING A SA-CA REPAIR SUBSTITUTE 4' 0" IN PLACE OF 3' 6". ALL QUANTITIES WERE CALCULATED USING 4' 0".
- 6) ALL LAYOUT ASSOCIATED WITH REMOVAL & CONSTRUCTION OF PEDESTRIAN RAMPS, SIDEWALK AND CURB & GUTTER SHALL BE DONE BY THE CONTRACTOR TO MEET ALL OF THE STANDARD PLATE SPECIFICATIONS OR APPROVED BY THE ENGINEER. CONTRACTOR SHALL RESTRICT USE OF PEDESTRIAN RAMP FROM USE UNTIL THEY CAN BE USED SAFELY AND SUPPLY A SAFE ROUTE FOR PEDESTRIANS DURING CONSTRUCTION AND COMPLY WITH THE LATEST TEMPORARY TRAFFIC CONTROL FIELD MANUAL. ALL SIDEWALK ASSOCIATED WITH PEDESTRIAN RAMPS SHALL BE 6" THICK.
- 7) ALL BACKFILL OF TOPSOIL, SEED (SEE MIXTURE 250), AND FERTILIZER (TYPE 1) AFTER CONCRETE FORM WORK HAS BEEN REMOVED SHALL BE CONSIDERED INCIDENTAL.
- 8) ALL CONNECTIONS AND MATERIAL NECESSARY NEEDED TO CONNECT TO EXISTING PIPE SHALL BE CONSIDERED INCIDENTAL.
- 9) SEE SPECIAL PROVISIONS
- 10) ALL CONCRETE RESIDUE AND WATER (SLURRY) RESULTING FROM CONCRETE SAWING OPERATIONS MUST BE CONTINUOUSLY VACUUMED FROM THE SURFACE, CAPTURED, AND CONTAINERIZED FOR FURTHER HANDLING OR PROCESSING. THE SLURRY MUST NOT BE PERMITTED TO FLOW ACROSS LANES OCCUPIED BY TRAFFIC, FLOW INTO DRAINAGE FACILITIES OR DISCHARGE ANYWHERE WITHIN THE HIGHWAY RIGHT OF WAY. THE CONTRACTOR MUST SUBMIT A SLURRY DISPOSAL OR REUSE PLAN AT THE PRECONSTRUCTION CONFERENCE FOR APPROVAL BY THE ENGINEER.

GENERAL CONSTRUCTION NOTES

- ALL AREAS DISTURBED BY THE CONTRACTOR'S EQUIPMENT WHICH ARE OUTSIDE THE PLANNED CONSTRUCTION LIMITS SHALL BE RESTORED, AS APPROVED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.
- BITUMINOUS SURFACING, CONCRETE ITEMS, ABANDONED UTILITY ITEMS, OR ANY OTHER MATERIAL WHICH MAY BE ENCOUNTERED DURING CONSTRUCTION THAT ARE NOT SUITABLE FOR SALVAGE OR FOR ROADWAY CONSTRUCTION SHALL BE DISPOSED OF BY THE CONTRACTOR AT AN APPROVED DISPOSAL SITE AND SHALL BE INCIDENTAL TO THESE ITEMS.
- THE CONTRACTOR SHALL PROVIDE A CONCRETE WASHOUT AND WASHOUT LOCATION AND CONTAINER ON THE PROJECT AND IT SHALL BE APPROVED BY THE ENGINEER PRIOR TO RELATED WORK. THE CONTRACTOR SHALL MAINTAIN THE CONTAINER AND DISPOSE OF ITS CONTENTS IN ACCORDANCE WITH MPCA REQUIREMENTS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO ALL CONCRETE ITEMS, FOR WHICH NO DIRECT COMPENSATION SHALL BE MADE.
- THE CONTRACTOR IS ADVISED THAT THERE SHALL BE NO STOCKPILE OF MATERIALS ON SITE OUTSIDE THE PROJECT CONSTRUCTION LIMITS, UNLESS OTHERWISE NOTED.
- PLACE BITUMINOUS MATERIAL FOR TACK COAT (SPEC 2357) IN BETWEEN BITUMINOUS LIFTS AT A RATE OF 0.03-0.05 GAL./SQ. YD. ON PAVED SURFACES AND 0.07-0.10 GAL./SQ. YD. ON MILLED SURFACES AND 0.5' OVERLAP ON LONGITUDINAL JOINTS WHICH SHALL BE CONSIDERED INCIDENTAL.
- THE CONTRACTOR SHALL COMPLETE REMOVAL AND INSTALLATION OF CATCH BASIN ON THE SAME DAY. INLET PROTECTION SHALL BE REQUIRED AND COMPENSATED UNDER SPEC. #2573.530 - STORM DRAIN INLET PROTECTION - LUMP SUM
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO UTILIZE THE "ONE CALL EXCAVATION NOTICE SYSTEM" (1-800-252-1166) REQUIRED BY MINNESOTA STATUTE 216D.
- THE RIGHT-OF-WAY SHOWN IN THIS PLAN GIVES A GRAPHICAL LOCATION.
- ANY SAWING NECESSARY SHALL BE INCIDENTAL TO THESE ITEMS. SAWING SHALL BE DONE SUCH THAT A NEAT, STRAIGHT LINE IS PRODUCED IN THE REMOVAL.
- CARE SHALL BE TAKEN BY THE CONTRACTOR SO AS NOT TO DAMAGE THE REMAINING MATERIALS DIRECTLY ADJACENT TO THE MATERIALS TO BE REMOVED.
- ANY DAMAGE TO THE EXISTING MATERIAL RESULTING FROM THE MATERIAL REMOVAL OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL HAVE ALL TRAFFIC CONTROL PLANS APPROVED BY THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL MAINTAIN TRAFFIC AT ALL TIMES DURING THE WORK, UNLESS APPROVED BY THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ANY WORK AREAS NEAR TRAFFIC IN ACCORDANCE WITH MNMUTCD.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO BUSINESSES AT ALL TIMES DURING WORK HOURS, UNLESS OTHERWISE ARRANGED WITH THE BUSINESS OWNER AND APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING TRAFFIC THROUGH THE WORK AND SHALL ERECT AND MAINTAIN SIGNS, BARRICADES, AND WARNING DEVICES IN ORDER TO CONTROL THE TRAFFIC, PROTECT THE WORKERS, AND PROTECT THE WORK. THE CONTRACTOR SHALL DETERMINE THE NUMBER AND TYPES OF SIGNS, BARRICADES, AND WARNING DEVICES NEEDED FOR THIS AND INCLUDE THOSE COSTS WITH THE LUMP SUM BID ITEM FOR TRAFFIC CONTROL AS REQUIRED FOR THE WORK. ALL PEDESTRIAN TRAFFIC CONTROL & TRAFFIC CONTROL MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. PAYMENT FOR TRAFFIC CONTROL WILL BE MADE UNDER THE BID ITEM: TRAFFIC CONTROL, AT THE LUMP SUM BID PRICE. NO FURTHER COMPENSATION WILL BE PAID FOR ANY ASPECT OF TRAFFIC CONTROL, REGARDLESS OF THE CONTRACT EFFORT REQUIRED.
- ALL CLOSURES, DETOURS, AND TRAFFIC CONTROL MUST BE APPROVED BY THE ENGINEER 24 HOURS PRIOR TO CONSTRUCTION.

CERTIFIED BY: CAROLINE L.C. PEDERSEN	REG. NO.: 42634		CONCRETE PAVEMENT REHAB	DRAWN BY: SCA
SIGNATURE: 	DATE: 3/5/12	ADDED NOTE 10	CITY OF DULUTH	QUANTITIES
		REVISION	CITY PROJECT NO.: 0922TR	SHEET NO. 2 OF 16
			STATE AID PROJECT NO.: 118-183-004 / 118-152-014	