ADDENDUM NO. 1 32nd St S ADA Upgrades, CDBG, Phase 2 O. F. 1788.2 January 31, 2025

Bid Time and Date: 9:15 a.m., February 5, 2025.

City Clerk, Room 204, Civic Center, P.O. Box 5021, #2 Park Drive, Great Falls, Montana 59401

NOTICE TO ALL BIDDERS

The Contract Specifications and plans are hereby modified as follows, and in submitting his/her bid, each bidder shall acknowledge receipt of all addenda, which will become part of the Contract Documents according to the requirements outlined in the CONTRACT DOCUMENTS.

This addendum consists of two (2) pages, and seven (7) attachments. 41 pages total.

Table of Contents:

Remove and replace with attached Table of Contents.

Invitation to Bid:

Remove and replace with the attached Invitation to Bid.

Bid time has changed to 9:15 am, February 5, 2025

Bid Form:

Remove and replace with the attached Bid Form

Special Provisions:

Remove and replace with the attached Special Provisions.

Measurement and Payment:

Remove and replace with the attached Measurement and Payment.

Appendix B:

Remove and replace drawings DWG 5-04, 5-08C, 5-08D, 5-10C with DWG 1788.2-04, 1788.2-08C, 1788.2-08D, 1788.2-10C respectively.

Remove and replace Drawings 1788.2-15A, 1788.2-17C, 1788.2-19, 1788.2-21A, and 1788.2-24 with the attached drawings.

Clarification: Gravel depth under 6-inch reinforced concrete is to be 10 inches.

Appendix C:

Remove and replace with the attached Construction Drawings.

ACKNOWLEDGEMENT OF ADDENDUM NO. 1

The bidder shall acknowledge receipt of Addendum No.1 on the bid form, and include this Addendum with the Bid.

Issued By:

City of Great Falls, Engineering Department

Amanda Brownlee, P.E., Project Engineer

END OF ADDENDUM No. 1

CONTRACT DOCUMENTS, PLANS, AND SPECIFICATIONS

For

32nd St South ADA UPGRADES, CDBG, PHASE 2 O. F. 1788.2



Specifications Filed in the Office of the City Engineer

On January 19, 2025

Bids to be received at City Clerk's Office until 9:15 a.m. MST on **February 5, 2025**

Christoff Gaub, Public Works Director

Jesse Patton, P.E., City Engineer

BIDDER'S CHECKLIST

		Č	6,		
1)	Original Bid not acceptabl	Bond Enclosed? (Personal checks, busi e.)	ness checks, and faxed copies are		
2)	Certificate of Compliance with Insurance Requirements filled out and signed?				
3)	Bid Proposal				
	b Nume c Adde	metic Checked? erical Bid Prices agree with written Bid ndum acknowledged on proposal sheet a ture portion completely filled out?			
4)	Bid Envelope	:			
	b Adde	essed properly? ndums acknowledged on bid envelope? ins Contract document/specification bo d?	oklet?		
5)	Bid submitted	I prior to required time at specified loca	tion?		

Please utilize the following Bidder's Checklist before submitting your bid.

Be sure to seal your bid. Include the name of the bid on the <u>outside</u> of the bid envelope.

Leave all proposal sheets intact in the Contract Document book. Return the complete Contract Document book. Contract document book shall be the original book purchased from the City of Great Falls and it shall be in the original binding. Failure to provide the original Contract Document book purchased from the City of Great Falls with the original binding will result in bid rejection. If you have any questions please contact the Engineering Department at 406-771-1258.

ALL BID DOCUMENTS AND BONDS MUST BE ORIGINALS.
NO FAXED COPIES WILL BE ACCEPTED.

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SECTION 00100

INVITATION TO BID

Separate sealed bids for construction of the <u>32nd St South ADA UPGRADES</u>, <u>CDBG</u>, <u>PHASE 2</u> <u>O. F. 1788.2</u> will be received by the City Clerk at the office of the City Clerk, Room 204, Civic Center, P.O. Box 5021, #2 Park Drive, Great Falls, Montana 59403, until **9:15 a.m.** local time on **February 5, 2025**, and then publicly opened and read aloud thereafter in the Gibson Conference Room at the Great Falls Civic Center.

The total project including alternatives consists of installing: approximately 1,800 Lineal Feet of integral concrete curb and gutter; 5,000 Square Feet of four (4)-inch concrete sidewalk; 5,000 Square Feet of six (6)-inch reinforced concrete; 36 truncated domes; Remove existing and replace two (2) type I curb inlets with new inlets and concrete aprons; Remove and replace 10,600 Square Feet of sod placement; Remove four (4) trees; and Replace two (2) trees.

The contract documents consisting of Drawings and Project Manual may be examined or obtained at the office of the City Engineer at the Great Falls Public Works Department, 1025 25th Avenue Northeast, in accordance with the Instructions to Bidders. Required Deposit is \$75.00 per set, which is not refundable.

There will be a Pre-Bid conference in the City Engineering Conference Room located at 1025 25th Ave NE at 2:00 p.m., on January 28, 2025. Interested CONTRACTORS are encouraged to attend.

Bidder questions will be accepted until <u>5:00 p.m.</u> local time on <u>January 30, 2025</u> and must be provided in writing via e-mail to Amanda Brownlee at abrownlee@greatfallsmt.net.

CONTRACTOR, and any of the CONTRACTOR'S subcontractors doing work on this project, will be required to obtain registration with the Montana Department of Labor and Industry (DLI). Forms for registration are available from the Department of Labor and Industry, P.O. Box 8011, 1805 Prospect, Helena, Montana 59604-8011. Information on registration can be obtained by calling 1-406-444-7734. CONTRACTOR is not required to have registered with the DLI prior to bidding on this project, but CONTRACTOR and subcontractors must have registered prior to execution of the Construction Agreement. All laborers and mechanics employed by the CONTRACTOR, or subcontractors in performance of the construction work, shall be paid wages at rates as may be required by the laws of the City of Great Falls and the State of Montana. The CONTRACTOR must ensure that employees, and applicants for employment, are not discriminated against because of their race, color, religion, sex or national origin.

Each bid, or proposal, must be accompanied by a Certified Check, Cashier's Check, or Bid Bond payable to City of Great Falls, in an amount not less than ten percent (10%) of the total amount of the bid. Successful BIDDERS, shall furnish an approved Performance Bond and Labor and Materials Payment Bond, each in the amount of one hundred percent (100%) of the contract amount. Insurance, as required, shall be provided by the successful BIDDER(s) and a certificate(s) of that insurance shall be provided. Contractor, and all subcontractors, must be licensed to perform work in the City of Great Falls prior to contract award.

No bid may be withdrawn after the scheduled time for public opening of bids, which is 9:15 a.m., local

time on February 5, 2025.

The right is reserved to reject any or all proposals received, to waive informalities, to postpone the award of the contract for a period not to exceed sixty (60) days, and to accept the lowest responsive and responsible bid, which is in the best interest of the City. The City of Great Falls is an Equal Opportunity Employer.

Published at Great Falls, Montana, this 19th day of January 2025.

Lisa Kunz, City Clerk
P.O. Box 5021
Great Falls, Montana 59403-5021
(1st Publication): January 19th, 2025
(2nd Publication): January 26th, 2025

END OF SECTION 00100

SECTION 00300

BID FORM

PROJECT IDENTIFICATION:

32ND ST SOUTH ADA UPGRADES, CDBG, PHASE 2 (O. F. 1788.2)

(Name of Project)

ALONG 32ND ST S FROM 5TH AVE SOUTH TO CENTRAL AVE

(Location)

THIS BID SUBMITTED TO: City Clerk #2 Park Drive, Room 204 P.O. Box 5021 Great Falls, MT 59403

- **1.01** The undersigned Bidder proposes and agrees if this Bid is accepted, to enter into an Agreement with the City in the form included in the Bidding Documents. Bidder further proposes and agrees, to perform and furnish all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the terms and conditions of the Bidding Documents.
- **2.01** Bidder accepts all of the terms and condition of the Advertisement or Invitation to Bid, and Instruction to Bidders, including without limitations those dealing with the disposition of Bid Security. This Bid will remain subject to acceptance for sixty (60) days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of the City.
- **3.01** In submitting this Bid, Bidder represents, as set forth in the Agreement, that:

A.	Bido	ler has exa	amined and ca	reful	ly stu	idied the Bi	dding Docu	iments, c	the	r rela	ated data	a id	entified
in	the	Bidding	Documents,	and	the	following	Addenda,	receipt	of	all	which	is	hereby
acl	know	ledged th	e following A	dden	da:								

Addendum No.	Addendum Date

- B. Bidder has visited the Site and become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work;
- C. Bidder is familiar with and is satisfied as to all federal, state and local Laws and Regulations that may affect cost, progress, and performance of the Work;
- D. Bidder has carefully studied all (1) reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site (except Underground Facilities) which have

SECTION 00300 BID FORM Page 1 of 6 been identified in the Special Provisions, and (2) reports and drawings of a Hazard Environmental Condition, if any, which has been identified in the Special Provisions;

- E. Bidder has obtained and carefully studied (or assumes responsibility for having done so) all additional or supplementary examinations, investigations, explorations, tests, studies, and data concerning conditions (surface, subsurface and Underground Facilities) at or contiguous to the Site which may affect cost, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents to be employed by Bidder, and safety precautions and programs incident thereto;
- F. Bidder does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price(s) bid and within the times and in accordance with the other terms and conditions of the Bidding Documents;
- G. Bidder is aware of the general nature of the Work to be performed by the City and others at the Site that relates to the Work as indicated in the Bidding Documents;
- H. Bidder has correlated the information known to Bidder, information and observations obtained from visits to the Site, reports and drawings identified in the Bidding Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Bidding Documents;
- I. Bidder has given the City Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution thereof by the City Engineer is acceptable to Bidder; and
- J. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work for which this Bid is submitted.
- **4.01** Bidder further represents that this Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any agreement or rules of any group, association, organization, or corporation. Bidder further represent that Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any person, firm or corporation to refrain from bidding; and Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over the City.

The BIDDER certifies that no official of the The City, the City Engineer, or any member of such officials' immediate family, has direct or indirect interest in the pecuniary profits or Contracts of the BIDDER.

5.01 The Bidder will complete the Work in accordance with the Contract Documents for the following prices(s):

32^{ND} ST SOUTH ADA UPGRADES PHASE 2

ITEM NO.	<u>DESCRIPTION</u>	ESTIMATED QUANTITY	<u>UNIT</u>	UNIT PRICE	TOTAL <u>PRICE</u>
101.	Mobilization (5%) Max	1	LS		
102.	Traffic Control	1	LS		
103.	Concrete Curb & Gutter Integral (l	R&R) 1,760	LF		
104.	4" Concrete Sidewalk (R&R)	5,000	SF		
105.	6" Reinforced Concrete (R&R)	5,000	SF		
106.	Truncated Domes	36	EA		
107.	Valley Gutter	3	EA		
108.	Sod	10,600	SF		
109.	Irrigation Move and Reset	1	LS		
110.	Type I Curb Inlet with Concrete A	apron 2	EA		
111.	15" SDR 35 PVC Storm Inlet Run	65	LF		
112.	4" AC Patchback	400	SY		
113.	4" AC Remove and Replace	25	SY		
114.	Tree Removal	5	EA		
115.	Tree Replacement (American Lind	len) 2	EA		
116.	Miscellaneous Work	75,000	Unit	\$1	\$75,000
117.	Schedule Completion Incentive	1	LS	\$15,000	\$15,000
TOTA	L AMOUNT ITEMS 101–117 \$				
				(Figures)	
TOTA	L AMOUNT ITEMS 101-117				

(Words)

- A. Unit Prices have been computed in accordance with the Instructions to Bidders;
- B. Bidder acknowledges that estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all Unit Price Bid items will be based on actual quantities provided, determined as provided in the Contract Documents;
- C. The undersigned agrees that the unit prices shall govern in checking the Bid, and should a discrepancy exist in the Total Estimated Price and Total Amount of Unit Prices Bid as listed above after extensions are checked and corrections made, if any, the Total Amount of Unit Prices Bid as corrected shall be used in awarding this Contract; and
- D. The City reserves the right to reject any or all bids.
- **6.01** Bidder agrees that the Work will be completed and ready for final payment in accordance with the Construction Agreement or before the dates or within the number of calendar days indicated in the Agreement.
- **6.02** Bidder accepts the provisions of the Agreement as to liquidated damages in the event of failure to complete the Work within the times specified above, which shall be stated in the Agreement.
- **7.01** The following documents are attached to and made a condition of the Bid:
 - A. Required Bid security in the amount of 10% of the maximum Bid price including alternates, if any, and in the form of a Bid Bond identified in the Instructions To Bidders.
- **8.01** The terms used in this Bid with the initial capital letters have the meanings indicated in the Instructions To Bidders.

SUBMITTED on	······································
	(Date)
Montana Contractor's Registration # (if any))
Employer's Tax ID No.	
If BIDDER is:	
An Individual:	
(Name typed or printed)	
By:	
(Individual's Signature)	
Doing business as:	
Business Address:	
Phone No :	FAX No ·

A Partnership:		
(Partnership Name)		
D ₁₇ .		
(Name t	yped or printed)	
	yped of primed,	
Business Address:		
Phone No.:	FAX No.:	
A Corporation:		
(Corporation Name)		
State of Incorporation: _		
Type (General Business,	, Professional, Service, Limited Liability):	
By:		
(Signature of person aut)	horized to sign)	
Title:		
Attest:		
Business Address:	(Signature)	
	FAX No.:	
	Do Business Is:	
		(Cornerate Seel)
A Joint Venture: Each	Joint Venturer Must Sign	(Corporate Seal)
Joint Venturer Name:	(Name)	
R_{V}	(Name)	
	(Signature of Joint Venture Partner)	
Name:	(Name, printed or typed)	
Title:	(Ivanie, printed of typed)	
Business Address:		
Phone No.:	FAX No.:	

SECTION 00300 BID FORM Page **5** of **6**

Joint Venturer Name:		
	(Name)	
By:		
	(Signature of Joint Venture Partner)	
Name:		
	(Name, printed or typed)	
Title:		
Business Address:		
	FANA	
Phone No.:	FAX No.:	
Address of Joint Venturer fo	or Receipt of Official Communication:	
Address:		
	FAX No.:	
110110111011	1111110	

(Each Joint Venturer must sign. The manner of signing for each individual, partnership and corporation that is a party to the joint venture should be in the manner indicated above.)

END OF SECTION 00300

SECTION 00850

SPECIAL PROVISIONS INDEX

SP-1.	REFERENCE STANDARDS	SP-18.	WATER POLLUTION CONTROL
SP-2.	DEFINITIONS OF CITY, ENGINEER	SP-19.	INCIDENTAL WORK ITEMS
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SP-3.	PROJECT SAFETY	SP-21.	CLEANUP
SP-4.	ACCIDENTS	SP-22.	RESTORATION OF PROPERTY
SP-5.	INSPECTION BY PUBLIC	SP-23.	SALVAGED MATERIALS
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SP-7.	OVERTIME	SP-26.	CONSTRUCTION TRAFFIC
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SP-9.	NOISE IMPACT	SP-28.	QUALITY ASSURANCE
SP-10.	EMERGENCY ACCESS	SP-29.	MINIMUM WAGE RATES
SP-11.	SANITARY FACILITIES	SP-30.	ADDITIONAL CDBG
SP-12.	DIESEL FUEL USED ON THE		REQURIEMENTS FOR
	PROJECT		CONTRACORS
SP-13.	CONSTRUCTION EQUIPMENT	SP-31.	SYSTEM FOR AWARD
SP-14.	PERMITS		MANAGEMENT (SAM) BREIFING
SP-15.	CONSTRUCTION WATER	SP-32.	TREE REMOVAL AND PLANTING
SP-16	MATERIALS AND EQUIPMENT		
	SOURCES AND DELIVERY		
SP-17.	CONTAMINATED GRAVEL		

This section of the Contract Documents covers special conditions applicable to this project that are not covered by the General Notes on the plans. In case of conflict between the Special Provisions and the project plans, Special Provisions shall govern.

Work to be performed under the provisions of these specifications consists of furnishing all materials (except as noted in the Special Provisions), equipment, tools, and labor; the performance of all necessary installation and the construction complete, including all work appurtenant thereto, as detailed and specified herein.

Any subsequent addenda issued after these documents have been prepared shall supplement and/or supersede any article of the specifications.

SP-1. REFERENCE STANDARDS:

Where reference is made to, U.L. Inc., NFPA, UFC, IFC, UBC, MPWSS, ASTM, ANSI, AWWA, ACI, or AASHTO designation, it shall be the latest revision at the time of the call for bids except as noted on the plans or in the Special Provisions.

SP-2. <u>DEFINITIONS OF CITY, ENGINEER, AND OWNER:</u>

The use of the words "City," "Engineer," and "Owner" are synonymous, and are used interchangeably throughout the contract documents.

SP-3. PROJECT SAFETY:

CONTRACTOR IS SOLELY RESPONSIBLE FOR PROJECT SAFETY AND ADHERENCE TO O.S.H.A. AND OTHER APPLICABLE SAFETY, HEALTH, AND SANITATION STANDARDS.

This requirement will apply 24 hours per day until acceptance of the work by Owner and shall not be limited to normal working hours.

SP-4. ACCIDENTS:

Contractor shall provide at the site such equipment and medical facilities as are necessary to supply first aid service to anyone who may be injured in connection with the work. Contractor must promptly report in writing to Owner all accidents arising out of, or in connection with, the performance of the work, whether on or adjacent to the site which caused death, personal injury, or property damages, giving full details, and statements of witnesses. In addition, if death or serious injury or serious damages are caused, the accident shall be reported immediately by telephone or messenger to Owner. If any claim is made by anyone against Contractor or any Subcontractor on account of any accident, Contractor shall promptly report the facts in writing to Owner, giving full details of the claim.

SP-5. INSPECTION BY PUBLIC OFFICIALS:

Authorized representatives of the City of Great Falls, and the *Montana Department of Environmental Quality* shall have access to the work whenever it is in progress. Contractor shall provide proper facilities, equipment, and safety measures for safe access and inspection by authorized representatives of these agencies.

SP-6. CONTRACT TIME:

Contract time is based on the number of calendar days allowed to complete the work. The number of calendar days permitted is based on a seven (7) day week. No allowance has been made for holidays or Saturdays and Sundays and no work shall be done between the hours of 6:00 p.m. and 7:00 a.m. without written approval of the City. Time is measured in the number of days commencing with the start date stated in the notice to proceed, given in accordance with the requirements of the contract documents.

In the event inclement weather or aftermath of inclement weather prevents Contractor from performing the sequence of operations that should be in progress at that time for a minimum of sixty (60) percent of the normal daily schedule being worked, the Contractor may make a written request for a credit for that day. No credit will be allowed for inclement weather on holidays, Saturdays, Sundays, or after the contract time has expired. Delays for any reason will not be cause for Contractor to off-set Overtime Costs identified in Article SP-7 of the Special Provisions. The Contractor is advised that should he request an adverse weather shutdown and should such a shutdown be approved by the City, all work on the project shall cease. The City will not be

available for inspection during such shutdowns and any work completed by the Contractor during such a shutdown will not be accepted by the City. In no case will an adverse weather shutdown be approved by the City when construction work is only partially completed, and services temporarily shut off cannot be restored; that is, restore all utility services to users in the construction area, open up traffic access, where necessary in the construction area, etc. Any costs related to the above will be the responsibility of the Contractor.

SP-7. OVERTIME:

Contractor shall be responsible for payment of any overtime cost required by City Engineering or City personnel for work on weekends, long days (more than 8 hours), or holidays. Workday is 8 hours Monday thru Friday 8:00 am to 4:30 pm, hours outside this will be considered overtime unless otherwise agreed upon. Contractor must have approval by the Project Engineer before inspection overtime will be authorized. Engineer's field representative will be monitoring construction activities during all Contractor hours of operation. OT will be paid by the Contractor for all hours before or after normal work day regardless of Contractor activities.

The overtime rate for City Staff or Crews shall be as follows:

Engineering Inspection: \$80.00/hr.

City overtime costs will be deducted from the Contractor's monthly pay request or the Final Pay Request.

SP-8. PRE-CONSTRUCTION CONFERENCE:

After award of contract, a pre-construction conference will be mandated by the City Engineer to clarify miscellaneous items of the contract to include contractor scheduling, contractor's responsibility with affected property owners, public utility conflicts, and general work and safety requirements.

SP-9. <u>NOISE IMPACT</u>: Contractor shall comply with City of Great Falls Municipal Code Title 8 - Health and Safety; Chapter 8 – Noise; Section 8.53.030 – Prohibited Acts; Paragraph I – Construction Projects of Repair of Buildings.

SP-10. EMERGENCY ACCESS: Contractor shall comply with City of Great Falls Municipal Code Title 15 – Buildings and Construction; Chapter 50 – Fire Code; Section 15.50.080 – International Fire Code; Annexes; Appendix D – Fire Access Roads.

SP-11. SANITARY FACILITIES:

Contractor shall provide and maintain on site sanitary facilities for use by construction personnel and subcontractors as may be necessary to comply with the requirements and regulations of the local and State Department of Health.

SP-12. <u>DIESEL FUEL USED ON THE PROJECT:</u>

Use taxed clear fuel as required by state law to construct the project. Violation of state law may result in a six-month suspension of the violating firm from participation in Department contracts not already awarded on the date of suspension. Prime Contractors are responsible for compliance of their own equipment, and the equipment of all Subcontractors and their Subcontractors.

SP-13. CONSTRUCTION EQUIPMENT:

The use of roller buckets and/or vibratory plate attachments for compaction, is prohibited on this project.

SP-14. PERMITS:

Contractor shall secure all necessary permits. Fees for street opening, sidewalk, and curb and gutter permits will be waived for this project. If needed, a permit for a hydrant meter to supply construction water shall be secured and paid for by Contractor. The contractor is required to obtain any necessary storm water permits and is responsible for all work and expense associated with obtaining and complying with the permits, including preparation of a NOI, SWPP, NOT, and implementation of the SWPPP.

SP-15. CONSTRUCTION WATER:

Construction water shall be available as necessary to perform construction related activities through the use of fire hydrants. Contractor shall not operate any fire hydrants. A permit and hydrant meter must be obtained for the use of construction water. Contractor shall be responsible for any deposits required to obtain the hydrant meter. There will be no charge for water usage, provided water usage is not excessive and water is not wasted. The hydrant meter will be moved only by City of Great Falls personnel and with 24 hours notice. Contractor is responsible for ensuring meter stays in working order and is not damaged while in use, damage may include but is not limited to freezing, misuse, and/or handling. Contractor may be charged for damaged meter repair or replacement.

SP-16. MATERIALS AND EQUIPMENT SOURCES AND DELIVERY:

It shall be the responsibility of the Contractor to fully investigate and satisfied of the availability, within the time limits specified, of all materials and equipment required under this Contract prior to submitting his bid. A time extension shall not be granted due to the Contractor's inability to obtain and install the materials within the specified contract time.

SP-17. CONTAMINATED GRAVEL:

Contractor shall replace gravel that is contaminated during construction. All graveled areas (parking lots, roads, or access areas) that are contaminated during construction from spoil piles or traffic will be removed and replaced by the Contractor. Cost for replacing contaminated gravel will not be paid separately, but shall be merged with applicable bid items.

SP-18. WATER POLLUTION CONTROL:

General Requirements: Contractor shall meet all requirements and applicable regulations of the Montana Department of Fish, Wildlife and Parks, Department of Environmental Quality, U.S. Environmental Protection Agency, U.S. Army Corps of Engineers and other State or Federal regulations relating to the prevention or abatement of water pollution. Contractor shall conduct and schedule his operations to avoid muddying or silting river, streams, or impoundments. Contractor's specific attention is directed to the Montana Water Pollution Control Act and the Montana Stream Preservation Act for requirements of the State of Montana's MPDES Discharge Permit Program. Contractor shall be responsible for obtaining any required discharge permits associated with erosion control, groundwater dewatering, discharges from main flushing and disinfection operations, or other applicable permits. Contractor's responsibility shall include all cleanup and restoration of any detention or discharge areas. This requirement will apply 24 hours per day until acceptance of the work by Owner and shall not be limited to normal working hours.

<u>Specific Requirements:</u> Contractor's specific attention is directed to the Official Code of the City of Great Falls 13.2.160, 13.2.180, 13.12, 17.16.21 and 17.48.

<u>Storm Water Controls</u>: Pursuant to 17.48.010 and in accordance with Ordinance 17.48.050, Contractor shall achieve written approval of his Storm Water Pollution Prevention Plan (SWPPP) by City Public Works Environmental Division prior to beginning work or creating disturbance if the project meets any one of the following criteria:

- 1. Land disturbance of greater than or equal to 10,000 square feet.
- 2. Construction activity disturbing any amount of soil if that construction activity is part of a larger common plan of development or sale that would disturb one acre or more.
- 3. When soils on slopes of 12 percent or more are disturbed, regardless of surface area.
- 4. When 400 cubic yards or more of soil material are placed or moved on or within a site regardless of surface area.
- 5. When there is a known issue identified by the City during plan review.

For all other projects, Contractor shall implement project phasing to minimize disturbance and install and maintain effective Best Management Practices (BMP's) throughout the life of the project to prevent site erosion and discharges of pollution or sediment to rivers, streams, impoundments, the MS-4 infrastructure and/or storm water conveyance(s). Pollutants such as chemicals, fuels, lubricants, bitumens, raw sewage, and other harmful wastes shall not be discharged into or alongside of rivers, streams, impoundments, or into natural or manmade channels leading thereto.

<u>Excavation Dewatering:</u> Discharges to the City storm drain system, any natural outlet, or any other storm drain conveyance from temporary site dewatering wells or direct excavation de-watering are prohibited without expressed written approval by the City Public Works Department Environmental Division. Dewatering plans and trench dewatering activities shall be submitted to the City Environmental Division with Contractor's SWPPP, if any one of the SWPPP criteria 1-5 (above) are met by the project.

In all cases, City authorization to discharge excavation and site dewatering will be contingent upon: (a) the required Montana Pollutant Discharge Elimination System (MPDES) permit is obtained prior to discharge and (b) the discharged water and activities conducted by the Contractor are compliant with the applicable MPDES permit(s).

<u>Contaminated Groundwater</u>: At some locations groundwater that is contaminated with petroleum products or other unknown pollutants may infiltrate excavations. Discharge of petroleum contaminated, or excavation dewatering water containing other known contaminants to the City sanitary sewer system or City storm sewer is also prohibited without prior written approval from the City Public Works Department Utility Systems Division and Environmental Division.

<u>Line Flushing</u>, and <u>Disinfection</u>: Discharges to the City storm drain system, any natural outlet, or any other storm drain conveyance from main flushing and disinfection operations associated with the project are prohibited without expressed written approval by the City Public Works Department Environmental Division. Main flushing and disinfection plans shall be submitted to the City Environmental Division with Contractor's SWPPP, if any one of SWPPP criteria 1-5 (above) are met by the project. In all cases, City authorization to discharge main flush or disinfection water will be contingent upon: (a) the required Montana Pollutant Discharge Elimination System (MPDES) permit is obtained prior to discharge and (b)

the discharged water and activities conducted by the Contractor are compliant with the applicable MPDES permit(s).

In all cases Contractor shall be responsible for all expenses related to all remediation activities resulting from hydraulically overloading the storm or sanitary sewer system, enforcement penalties or fines for non-compliance including costs associated with claims related to flooding or backing up sewer service lines.

SP-19. INCIDENTAL WORK ITEMS:

The cost for the following incidental work items will not be paid separately and shall be merged with applicable bid items. Incidental work includes but is not limited to:

- 1) Bonds and Insurance
- 2) Permits
- 3) Overtime costs for City personnel
- 4) Overhead and Profit
- 5) Cost of laboratory procedures for required submittals
- 6) De-watering
- 7) Utility Crossings
- 8) Utility Locating
- 9) Clearing and Grubbing
- 10) Disposal of excess excavated material and unclassified excavated materials
- 11) Replacing Contaminated Gravel
- 12) Surveying/Staking/Layout

- 13) Saw cutting asphalt and/or concrete
- 14) Site grading
- 15) Expenses related to stormwater management including cost of materials, installation, and removal of BMPs
- 16) Clean-up, including sidewalk and street sweeping
- 17) Shoring equipment/labor required for trench excavation and installation
- 18) Repair of Contractor damaged sidewalk
- 19) Coordination of sign removal and temporary signage; Sign removal and replacement by City

SP-20. CORRECTION OF WORK:

Contractor shall promptly remove from the premises all materials condemned by the City as failing to conform to the Contract, whether incorporated in the work or not. Contractor shall promptly replace and re-execute his own work in accordance with the Contract and without expense to the City and shall bear the expense of making good all work any other contractor destroyed or damaged by such removal or replacement.

SP-21. <u>CLEANUP:</u>

Contractor shall be responsible for removing all gravel and excavation debris during the project. Sidewalks shall be swept in the project area. Final payment will not be made until site is cleaned up and swept to the satisfaction of the City.

SP-22. RESTORATION OF PROPERTY:

Contractor shall restore all property to the condition, or better, existing at the time he entered onto the property. Such restoration work shall include, but not be limited to, landscaping, fences, mailboxes, buildings, driveways (graveled, concrete, or a/c pavement), sidewalks, and curbs. The cost for this work will not be paid separately, but shall be merged with applicable bid items. Restoration work will be done to the satisfaction of the City.

SP-23. <u>SALVAGED MATERIALS:</u>

Contractor shall carefully remove salvageable materials. Contractor shall clean (remove concrete, etc.) and deliver undamaged material to the Public Works Department pipe yard. Contractor shall notify the City a minimum of 24 hours prior to delivery. Contractor shall salvage materials include fire

hydrants, valves, bends, reducers, gate valves, storm inlets and hoods, manhole lids, manhole risers, and other items indicated on the plans. Contractor shall be responsible for damage to any salvageable material caused by his activities. Contractor will be charged for materials and labor to repair, or replace damaged items. Damage charges will be deducted from the final payment to Contractor. Costs for removing and salvaging will not be paid separately, but shall be merged with applicable bid items.

SP-24. PROTECTION OF TREES:

Contractor shall be responsible for the prevention of damage to trees located within or infringing on the public right of way and properties. Contractor shall avoid driving or working on the root zone area of trees to prevent excessive compaction of the soil. Nails, bolts, or other fastening materials shall not be imbedded into the trunk or limbs of a tree. Ropes, wires, or other hanging materials shall not be attached to a tree in such a manner that the bark may be damaged or cause undue stress to the plant structure.

Any overhanging branches or underlying roots which may be crushed, scarred, broken, or damaged in any way due to unavoidable construction activity shall be reported to the Project Engineer prior to construction so that preventive action may be taken to minimize tree damage. Any trees damaged shall be the responsibility of Contractor to repair or replace as determined by the City Forester and the valuation shall be determined by "Landscape Trees, Shrubs and Other Plants," published by International Society of Arboriculture. All exposed roots shall be pruned, or trimmed using a hand saw. Axe cuts will not be allowed. Upon completion of construction, Contractor shall notify the Project Engineer for a final inspection of the trees whether or not any damage occurred. Any damage found to have been caused by the construction activity of Contractor shall be the remedial responsibility of Contractor.

SP-25. <u>IRRIGATION SYSTEMS:</u>

Contractor shall locate and identify all irrigation systems and components impacted by project construction. Contractor shall remove, relocate, reinstall or modify irrigation systems as necessary to accommodate the construction work. The Contractor shall identify, contact, and coordinate construction activities, with the appropriate property owner to assure proper function, shutdown, removal, relocation, and replacement of existing irrigation systems and components. Contractor shall notify Engineer immediately of the locations of non-functioning irrigation systems and components. Contractor shall take care to cut and remove the system components with as little damage as possible. The Contractor's shall restore any portion of the system damaged during construction. Any damage to the sprinkler system caused by the construction activity of Contractor or damage to the work caused by the sprinkler systems shall be the remedial responsibility of Contractor. Replacement of damaged components will be with parts of equal or greater quality, and preferably the same brand, as the existing system.

SP-26. CONSTRUCTION TRAFFIC CONTROL:

The City shall be responsible for removal and relocating of traffic control signs. Contractors shall call the City Traffic Foreman (Austin Schultz 1-406-781-8991) one (1) business day in advance of traffic control sign removal. Temporary traffic control for construction shall be provided by the contractor and shall be installed prior to contacting the Traffic Foreman. The Contractor shall contact the Traffic Foreman a minimum of three (3) business days in advance of transitioning from temporary traffic control to the permanent traffic control.

SP-27. CONCRETE WASHOUT:

Provide concrete washout containment on all projects where concrete washout will be generated. Clearly mark the location of the washout area and provide directions to truck drivers. Locate concrete washout containment systems a minimum of 50 feet from proposed or existing storm sewer intakes, open ditches, or waterbodies. Collect all concrete washout from ready mixed trucks, pumper trucks, and cleaning of tools and other equipment. Retain concrete washout within the containment system until the water evaporates or is collected and disposed.

Contractor or sub-contractor cannot discharge wastewater from washout of concrete related equipment, concrete finishing, saw cutting, wet concrete, hydraulic demolition, etc. into any regulated aquatic resource, areas to immediately have concrete placed, in the street, or onto City property not designated for concrete washout.

SP-28. QUALITY ASSURANCE:

Incorporate manufactured equipment or material in accordance with the manufactures' recommendations, unless specifically indicated otherwise, or where local codes or regulations take precedence. Where no requirements are noted perform work to prevailing industry standard.

SP-29. MINIMUM WAGE RATES:

The Standard prevailing rate of wages as used herein means that standard prevailing rate of wages in the locality where the work is to be performed as determined by all rulings and interpretations of the Davis Bacon Act and related acts contained in 29 CFR 1, 3, and 5 and herein incorporated by reference in this contract. All laborers and mechanics employed by the CONTRACTOR or subcontractors in performance of the construction works shall be paid wages at rates as may be required by the laws of the City of Great Falls, the State of Montana and Community Development Block Grant (CDBG) requirements. **Please note that both State and Federal Wage Rates apply to this project as it is funded through CDBG.** In the event two wage rates apply to a given trade or activity, the higher wage rate of the two must be paid. Rates in effect for this contract are included herein.

SP-30. ADDITIONAL CDBG REQURIEMENTS FOR CONTRACORS:

General contractor and all subcontractors will permit access to its books, records and accounts as they pertain to this federally funded project by the City Planning and Community Development Department, The City Public Works Department, HUD or its agent, or other authorized Federal officials for purposes of investigation to ascertain compliance with the rules, regulations and provisions.

The contractor and all subcontractors shall register with the federal System for Awards Management (SAM) and require a U-E-I Number as directed in the Systems for Awards Management registration briefing attached below and incorporated into this contract via reference.

The contractor shall familiarize himself with the **construction project checklist attached herein provided by the City Planning and Community Development Department.** The contractor shall execute and return to the Project Engineer the Contractors Receipt of Davis Bacon Act Contractors Guide.

Contractor and all subcontractors agree to comply with all local and state civil right ordinances and with Title VI of the Civil Rights Act of 1964 as amended.

The contractor and all subcontractors will not discriminate against any employee or applicant for employment because of race, color, creed, religion, ancestry, national origin, sex, disability or other handicap, age, marital/familial status, or status with regard to public assistance.

To the maximum extent possible the contractor will ensure that for this construction project, opportunities for employment are given to low and very low income persons residing in Great Falls. Where feasible, priority should be given to low and very low income persons residing in Great Falls. Where feasible, priority should be given to low and very low income residents who reside within the neighborhood in which the project is located.

The contractor shall comply with all fair labor practices and must meet requirements of Federal and State Statutes. Federal Labor Standards Provisions and applicable State or Federal Wage Rates are included in the Contract Documents.

SP-31. SYSTEM FOR AWARD MANAGEMENT (SAM) BREIFING:

All grantees, sub-reciepients, contractors, or those entities that will receive CDBG or HOME funding must register with the federal system to comply with federal regulations. The General Services Administration, a federal agency, is required to compile and maintain a list of parties debarred, suspended, or disqualified by federal agencies. This list is the System for Awards Management (SAM) and is maintained at SAM.gov. Grantees, or any entity, receiving payment of CDBG or HOME funds, must register prior to receiving award or reimbursement of CDBG or HOME funding.

SAM registration requirements are as follows:

1) If already registered in SAM, each potential contractor or grantee should ensure that their email address is current in SAM.gov so as to receive annual automated reminders to renew that registration.

SAM and/or DUNS registration requirements are as follows:

1) If NOT already registered, all entities must acquire a U-E-I Number. You can acquire a UEI number online at the Dun and Bradstreet (D&B) website: http://fedgov.dnb.com/webform/displayHomePage.do

The process by telephone takes between 5 and 10 minutes. Call Dun and Bradstreet at 1-866-705-5711. If an entity identifies as a contractor on a State government project, the acquisition of a UEI number will be free. The following information will need to be provided:

- Legal Name
- Tradestyle, Doing Business As (DBA), or other name by which your
- organization is commonly recognized
- Physical Address, City, State, and Zip Code
- Mailing Address (if separate)
- Telephone Number
- Contact Name
- SIC Code (Line of Business)
- Number of employees at your location
- Headquarters name and address (if there is a reporting relationship to a parent
- corporate entity)
- Is this a home-based business

2) Register with SAM. To do so, go to SAM.gov. In order to complete the registration, a user account must be created. After the user account with a username and password are established, registration can occur. The entities Tax Identification Number must be entered into SAM. The HELP tab on the main page can provide additional guidance to understanding the entity's registration status. Please reach out to Lilian Sunwall with the Great Falls Development Authority for SAM registration sign-up, guidance and or assistance (LSunwall@GFdevelopment.org(406)750-1253).

The following two pages contain the Planning and Community Development CDBG Grant Requirement checklist as example documentation that will be required by the general contractor to sign:

SP-32. TREE REMOVAL AND PLANTING:

Remove trees as identified on the plans or has directed by Project Engineer. The location and species of each new tree shall be determined in the field and coordinated with City Forester or Project Engineer. New trees shall be minimum 2" caliper, balled and burlapped, and American Linden.

END OF SECTION 00850

MEASUREMENT AND PAYMENT

The <u>Measurement and Payment</u> section of this document and <u>Special Provision SP-19</u>, <u>Incidental Pay Items</u>, supersede PART 4 MEASUREMENT AND PAYMENT contained in each MPWSS specification section.

SCOPE: The following description of work, measurement of pay quantity, and method of payment shall govern payment to Contractor under this Contract. Payment for these items shall be full compensation for the completed item of work furnished and installed, and the cost of any incidental work or materials required to complete the item. No additional payment will be made for materials purchased and not installed as a result of field adjustments in field quantities versus Bid Form.

BID ITEM

DESCRIPTION

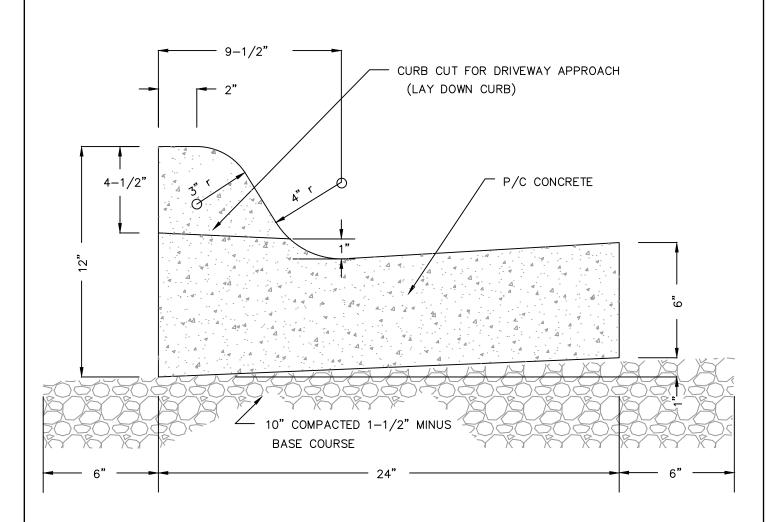
- 101. Mobilization 5% Max: Measurement shall be made at the contract Lump Sum price for "Mobilization". Payment will be made at 50% of the contract unit **Lump Sum** price at the beginning of project and the remaining 50% will be paid at the end of the project. Payment for this item shall include all costs related to general contract requirements, administration, and overhead and shall be merged and included in the contract lump sum price for "Mobilization". The cost of all bonds, insurance, permits, licenses, safety, fees, royalties and taxes; purchasing permits and licenses, temporary electric and telephone service, utility location, shop drawings and samples, general administration and overhead, movement of equipment, tools, and workmen, as necessary, and other incidental work required for occupying the site and performing the work shall be merged and included in the contract lump sum price for "Mobilization". The contract price for "Mobilization" shall not exceed five (5) percent of the total bid and shall not include any anticipated profit. Anticipated profit shall be distributed proportionately among the various contract bid items. Any bids that contain a lump sum price for mobilization greater than five percent of the bid shall be reduced in price to the five percent limit without adding costs to other bid items or rejected at the option of the Owner.
- Traffic Control: Measurement shall be made at the contract <u>Lump Sum</u> price for Traffic Control. Payment will be made at the contract unit <u>Lump Sum</u> price at the end of the project. Traffic control shall be performed in accordance with the latest edition of the Manual of Uniform Traffic Control Devices (MUTCD). Item includes the following work scope: developing and implementing a City approved plan to direct traffic, and pedestrians safely through and/or around the construction site; all the labor, equipment, and materials necessary to implement the plan; Continual monitoring and maintaining of traffic control devices; installing and removing signs, flagmen, channelization devices, and illumination devices as necessary; and all other work necessary for completion of the item.
- 103. Concrete Curb & Gutter Integral R&R: Measurement shall be made by the Lineal Foot in-place. Payment will be made at the contract unit price per Lineal Foot and includes the following items: excavation, removal, and disposal of all existing curb and gutter and base course materials; excavation and disposal; placing and compacting subgrade; furnishing, placing, and compacting 10-inch thickness of 1 ½-inch minus crushed base course; doweling into existing concrete; furnishing, placing, finishing, and curing of the concrete curb and gutter; installing all driveway, approach, and handicap ramp curb cut outs; and all other work necessary for completion of the item.

- 104. 4" Concrete Sidewalk R&R: Measurement shall be made by the Square Foot in-place. Payment will be made at the contract unit price per Square Foot and includes the following items: removal and disposal of all existing sidewalk materials; excavation and disposal; saw cutting; compacting subgrade; backfill; furnishing, placing, and compacting 3-inches of 1½-inch minus crushed base course; furnishing, placing, finishing, and curing of 4-inch thick concrete sidewalk; dowels; pre-molded mastic expansion joints; contraction joints; backfilling behind sidewalk as necessary; cleanup; and all other work necessary for completion of the item.
- Payment will be made at the contract unit price per Square Foot and includes the following items: saw cutting; removal and disposal of all existing sidewalk materials; excavation and disposal; compacting subgrade; backfill; furnishing, placing, and compacting 10-inches of 1½-inch minus crushed base course; furnishing and placing #4 reinforcement bar on one foot centers, including support chairs; doweling into existing concrete; furnishing, placing, finishing, and curing of 6-inch thick concrete; pre-molded mastic for expansion joints; contraction joints; backfilling behind sidewalk where necessary; placing and compacting of 1½-inch minus crushed base course level with existing asphalt where asphalt is removed for construction purposes; cleanup; and all other work necessary for completion of the item.
- **Truncated Domes:** Measurement shall be made by the <u>Each</u> in place. Payment will be made at the contract unit price per <u>Each</u> and includes the following items: furnishing, placing, and finishing of truncated domes at the bottom of the curb ramps; and all other work necessary for completion of the item.
- 107. Valley Gutter: Measurement is made per Each installed. Payment will be made at the contract unit price per Each and includes the following items: saw cutting; removal and disposal of existing asphalt and/or concrete; excavation and disposal; compacting subgrade; furnishing, placing, and compacting ten (10) inches of 1½ inch minus base course; furnishing and placing #4 rebar 12 inches on center both ways; furnishing and placing dowels; furnishing, forming, placing, finishing, and curing six (6) inch thick by five (5) feet wide concrete valley gutter, curb and gutter, and fillet; repairing damaged irrigation systems; cleanup; #4 rebar when and where required per contract specifications; and all other work necessary for completion of the item.
- **108. Sod:** Measurement shall be made by the **Square Foot** in-place. Payment will be made at the contract unit price per **Square Foot**, and includes the following items: topsoil salvage and/or importing, grading to blend existing and new ground profile; furnish new sod; rolling; fertilizing and watering sod for 14 consecutive days after installation; repairing damaged irrigation systems; and all other work necessary for completion of the item.
- **Irrigation Move and Reset:** Measurement is made by the **Lump Sum**. Payment will be made at the contract **Lump Sum** price and includes the following items: moving, resetting, and repairing any and all irrigation sprinklers, pipe, valves and control boxes impacted by construction project and all other work necessary for completion of the item. Contractor is responsible for repair and replacement of any irrigation system parts damaged as a result of construction activities.

- 110. Type I Curb Inlet w/ Concrete Apron: Measurement shall be made per Each structure installed. Payment will be made at the contract unit price per Each in place which includes the following: all costs for labor, materials, and equipment for excavation; removal and disposal of existing structure, curb and gutter, asphalt, and soil; furnishing, placing and compacting 12-inches of 1½-inch minus base course under the inlet structure; furnishing and installing new structure, pipe and pipe openings, reconnecting to system, gaskets, rings, frames, covers or grates, concrete apron and connected curb and gutter, grout, fillet; and all other work necessary to complete the item.
- 111. <u>15" SDR 35 PVC Storm Inlet Run:</u> Measurement shall be made per <u>Lineal Foot</u> installed. Payment will be made at the contract unit price per <u>Lineal Foot</u> in place for the size and type listed in the Bid Form and includes the following: trench excavation; dewatering; removal and disposal of existing pipe; furnishing and installing pipe; type I pipe bedding; connections to manholes; plugging and abandoning laterals; furnishing and placing select backfill; compaction; and all other work necessary for completion of the item.
- **112. 4" AC Patchback:** Measurement shall be made by the **Square Yard** placed. Payment will be made at the contract unit price per **Square Yard** and includes the following items: removal of existing asphalt along the length of the curb/valley gutter removed and replaced, disposal of removed asphalt and base course; furnishing, placing tack coat; furnishing, placing, and compacting of the 4-inches of new asphaltic concrete; and all other work necessary to complete the item. Pay width not to exceed 24 inches.
- 113. <u>4" AC Remove and Replace:</u> Measurement shall be made by the <u>Square Yard</u> placed. Payment will be made at the contract unit price per <u>Square Yard</u> and includes the following items: removal of existing asphalt, disposal of removed asphalt and base course; furnishing, placing tack coat; furnishing, placing, and compacting of the 4-inches of new asphaltic concrete; and all other work necessary to complete the item.
- 114. <u>Tree Removal:</u> Measurement is made per <u>Each</u> tree removed. Payment will be made at the contract unit price per <u>Each</u> and includes the following items; saw cutting, removal and disposal of the tree; removal and disposal by excavation or grinding of the complete stump to a minimum of two feet below grade; grind and remove roots in an area one (1) foot past the outside diameter of the tree stump; furnishing and placing topsoil; repairing damaged irrigation systems; cleanup; and all other work necessary for the completion of the item.
- Payment will be made at the contract unit price per <u>Each</u> and includes the following items: excavation of plant pit; removal and disposal; furnishing and placing planting soil additive; furnishing and placing tree with root ball and burlap; furnishing and placing mulch; furnishing, placing, and installing stakes and tree ties; supplying and placing topsoil; watering; repairing damaged irrigation systems; cleanup; and all other work necessary for the completion of the item.
- 116. <u>Miscellaneous Work:</u> Measurement shall be made at \$1.00/Unit of miscellaneous work. Payment will be made at the contract unit price of \$1.00/Unit and includes furnishing of all labor, materials and equipment to complete miscellaneous work not provided by work items in the unit bid proposal. The number of units for a particular work item shall be by an agreed upon price or force account basis as deemed necessary and only as directed by the City.

Schedule Completion Incentive: Measurement and payment of this item shall be made at the contract unit price per <u>Lump Sum</u> for "Schedule Completion Incentive". Payment shall include a lump sum value for reaching substantial completion of work as defined in the construction agreement.

END OF SECTION



NOTES:

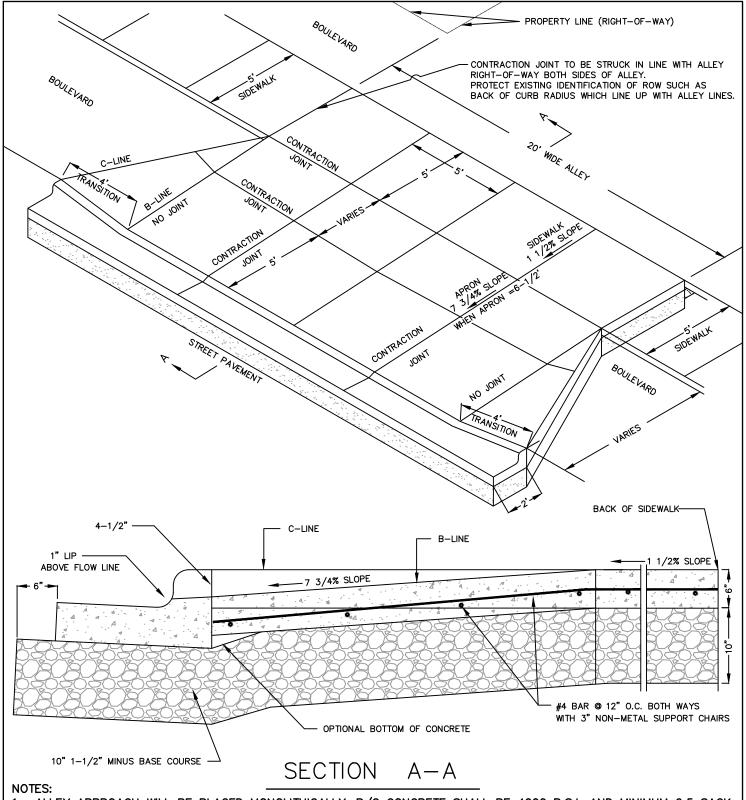
- 1. CURB & GUTTER SHALL HAVE A TOOLED CONTRACTION JOINT EVERY 10' AND BE SCORED A MIN. DEPTH OF 3/4"
- 2. CURB & GUTTER SHALL HAVE 1/2" EXPANSION JOINT AT P.C.'s, P.T.'s, CURB RETURNS, VERTICAL AND HORIZONTAL POINTS OF CURVATURE AND AT MAXIMUM OF 300' INTERVALS.
- 3. PLACE GRAVEL BASE COURSE AS REQUIRED IN SPECIFICATIONS.
- ACI CERTIFICATION IS REQUIRED FOR PLACING AND FINISHING CONCRETE IN THE RIGHT-OF-WAY.

TYPICAL BARRIER INTEGRAL CURB & GUTTER

OFFICE OF CITY ENGINEER GREAT FALLS, MONTANA

REVISED: NOVEMBER 2024

1788.2-04



- 1. ALLEY APPROACH WILL BE PLACED MONOLITHICALLY. P/C CONCRETE SHALL BE 4000 P.S.I. AND MINIMUM 6.5 SACK.
- ACI CERTIFICATION IS REQUIRED FOR PLACING AND FINISHING CONCRETE IN THE RIGHT—OF—WAY.
 THE DESIGN SHALL CONSIDER A TRANSITION FROM THE ALLEY SURFACE TO ALLOW FOR DRAINAGE THROUGH THE APRON TO THE CURB WHILE MAINTAINING ADA COMPLIANCE.

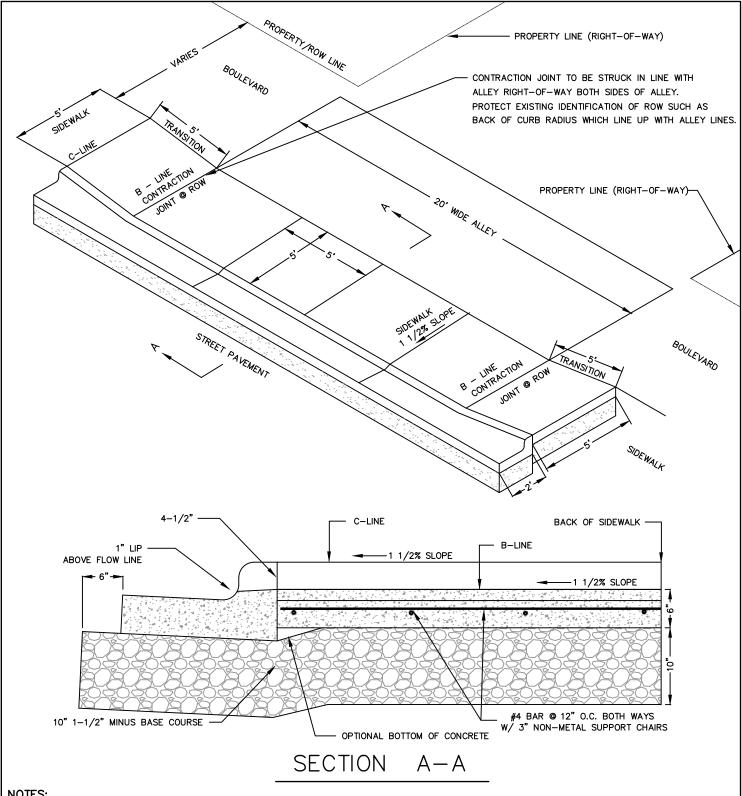
NO SCALE

STANDARD DETAIL FOR CONCRETE ALLEY APRON WHERE SIDEWALK NOT AT BACK OF CURB — TYPE 3

OFFICE OF CITY ENGINEER GREAT FALLS, MONTANA

REVISED: JANUARY 2025

1788.2-08C



NOTES:

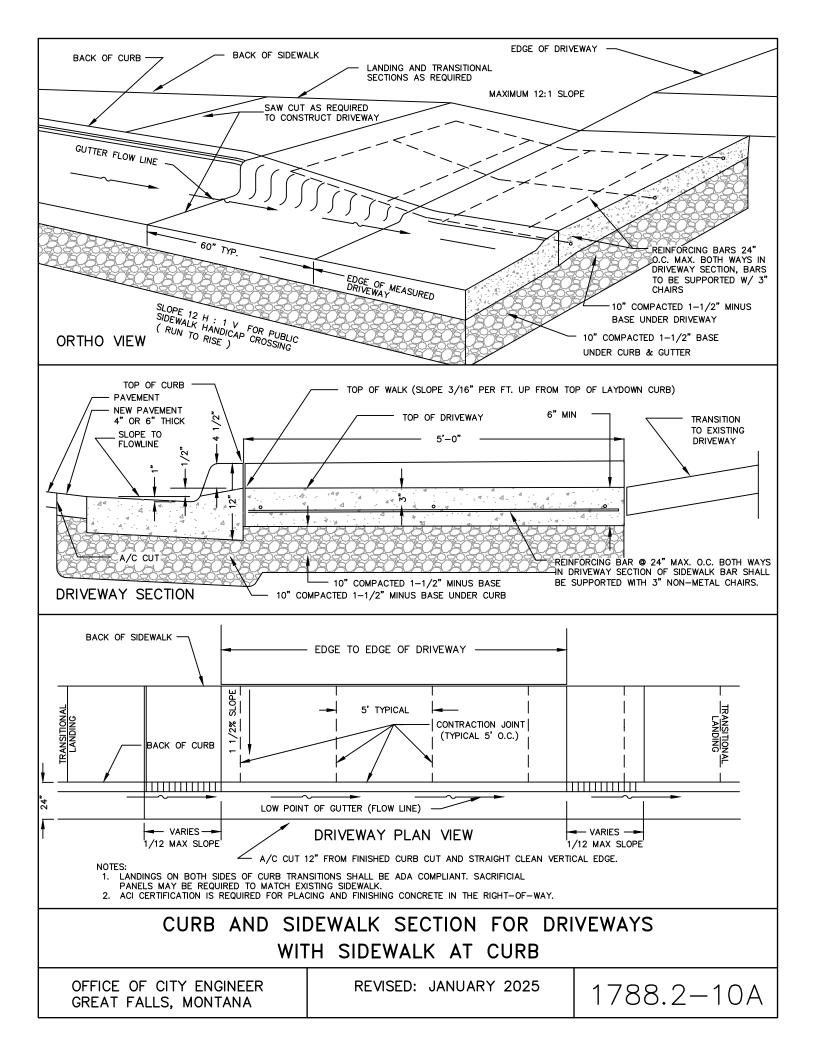
- ALLEY APPROACH WILL BE PLACED MONOLITHICALLY. P/C CONCRETE SHALL BE 4000 P.S.I. AND MINIMUM 6.5 SACK.
 ACI CERTIFICATION IS REQUIRED FOR PLACING AND FINISHING CONCRETE IN THE RIGHT—OF—WAY.
 THE DESIGN SHALL CONSIDER A TRANSITION FROM THE ALLEY SURFACE TO ALLOW FOR DRAINAGE THROUGH THE APRON TO THE CURB WHILE MAINTAINING ADA COMPLIANCE. NO SCALE

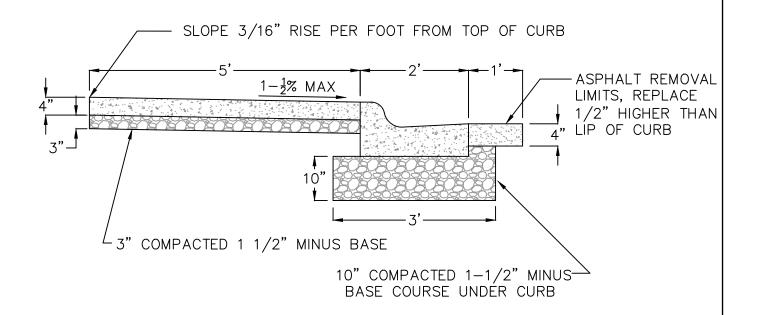
STANDARD DETAIL FOR CONCRETE ALLEY APRON WITH SIDEWALK AT CURB - TYPE 4

OFFICE OF CITY ENGINEER GREAT FALLS, MONTANA

REVISED: JANUARY 2025

1788.2-08D





NOTES:

- 1. CURB & GUTTER SHALL HAVE A TOOLED CONTRACTION JOINT EVERY 10' AND BE SCORED A MIN. DEPTH OF 3\4"
- 2. CURB & GUTTER AND SIDEWALK SHALL HAVE 1\2" EXPANSION JOINT AT PC's, D.T's, CURB TURNS AND EVERY 100' ON STRAIGHT STRETCHES.
- 3. SIDEWALK SHALL HAVE A TOOLED CONTRACTION JOINT EVERY 5' AND BE SCORED A MIN. DEPTH OF 3\4".
- 4. ALL CONCRETE POURED INSIDE CITY R.O.W. SHALL BE MINIMUM 6.5 SACK AND 4000 PSI MIX DESIGN AND THE ENTRAINED AIR CONTENT SHALL BE ≥ 5% AND ≤ 8%.
- 5. PLACE AND COMPACT TO 95% STANDARD PROCTOR GRAVEL BASE COURSE AS REQUIRED IN SPECIFICATIONS
- 6. REMOVAL OF EXISTING SIDEWALK SHALL BE VIA A CLEAN SAWCUT.
- 7. ACI CERTIFICATION IS REQUIRED FOR PLACING AND FINISHING CONCRETE IN THE RIGHT-OF-WAY.

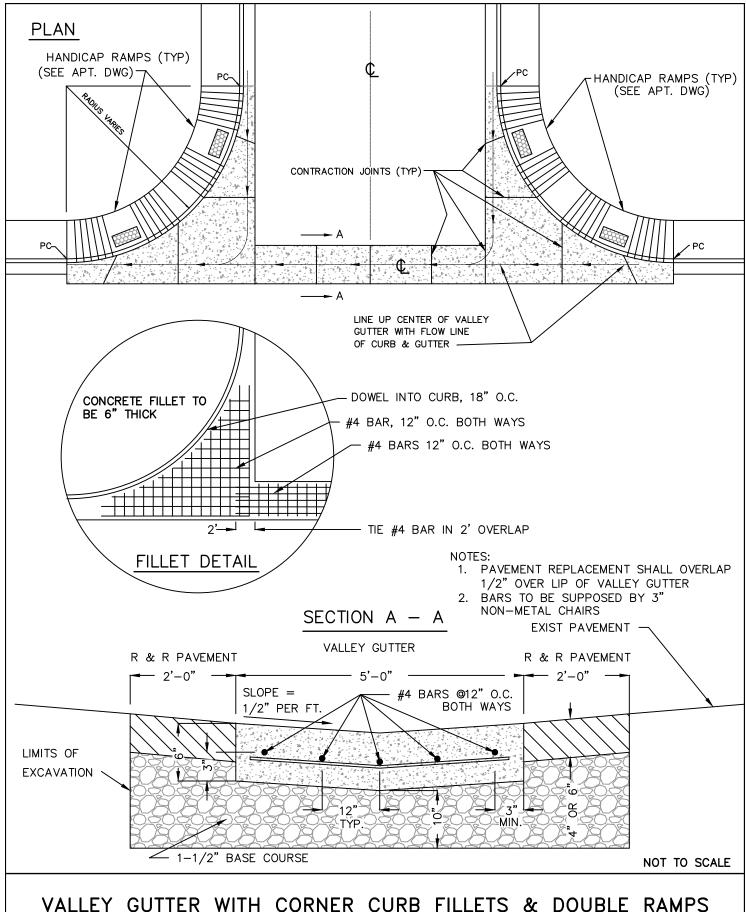
CURB AND SIDEWALK SECTION

OFFICE OF CITY ENGINEER GREAT FALLS, MONTANA

APRIL 2000

REVISED: DECEMBER 2024

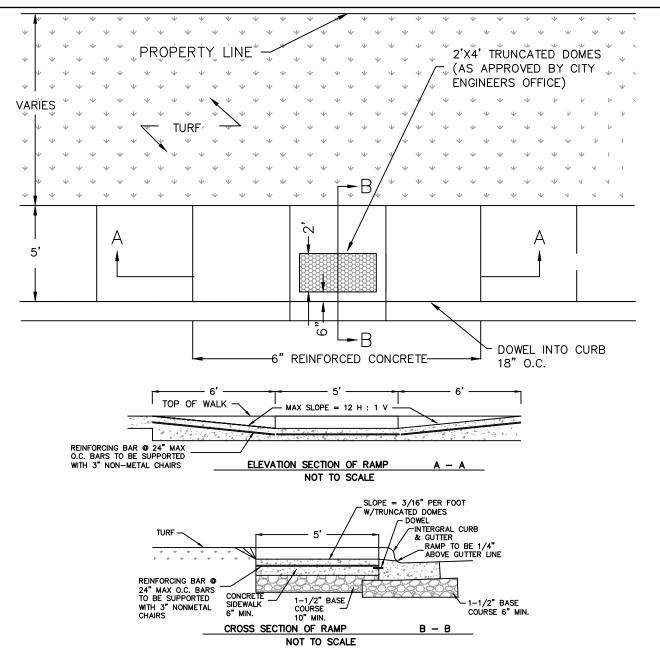
1788.2-10C



OFFICE OF CITY ENGINEER GREAT FALLS, MONTANA

94, 97, 04, 06, 07, 09 REVISED: NOVEMBER 2023

1788.2-15A



NOTES:

- SURFACE TEXTURE OF RAMP SHALL BE THAT OBTAINED BY A COARSE BROOMING TRAVERSE TO THE SLOPE OF THE RAMP.
- CARE SHALL BE TAKEN TO ASSURE A UNIFORM GRADE ON THE RAMP, FREE OF SAGS AND SHORT GRADE CHANGES.
- 3. DRAINAGE STRUCTURES SHOULD NOT BE PLACED IN LINE WITH THE RAMP. LOCATION OF THE HANDICAP RAMP SHOULD TAKE PRECEDENCE OVER LOCATION OF NEW STORM DRAINAGE STRUCTURE INSTALLATIONS.
- 4. THE NORMAL GUTTER LINE PROFILE SHALL BE MAINTAINED THROUGH THE AREA OF THE RAMP. RAMP LIP TO BE 1/4" ABOVE THE GUTTER LINE.
- 5. CROSSWALK AND STOP LINE MARKINGS, IF USED, SHALL BE SO LOCATED TO STOP TRAFFIC SHORT OF RAMP CROSSINGS.

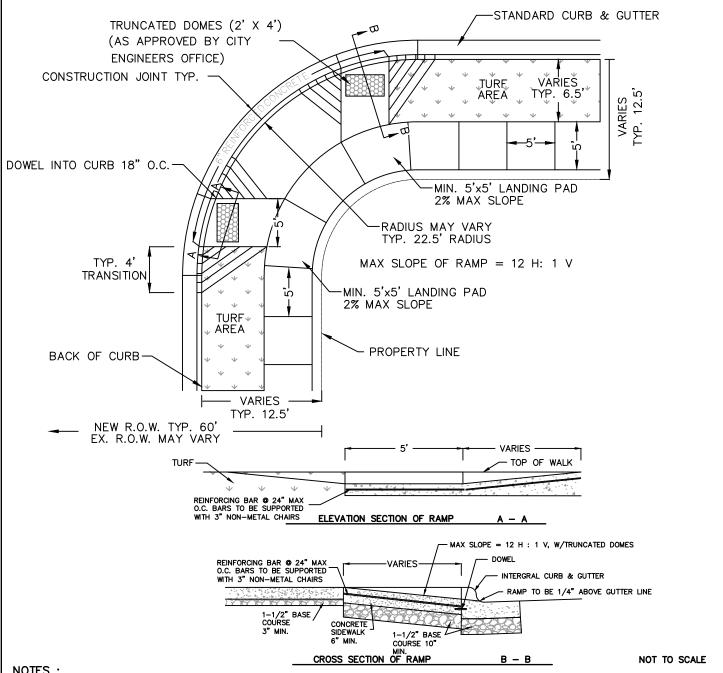
- TRUNCATED DOMES SHALL BE INSTALLED AT THE BOTTOM 2' OF RAMPS, LOCATE THE EDGE OF THE PANEL NO MORE THAN 6" FROM THE BACK OF CURB. RED BRICK COLOR ONLY ON TRUNCATED DOMES.
- 7. CONCRETE IN RAMP AREAS SHALL BE 6" REINFORCED (24" O.C) USING 4,000 PSI MIX (MIN. 6.5 SACK).
- ALL 6" REINFORCED CONCRETE IN RAMP AREAS SHALL BE DOWELED INTO CURB AND GUTTER (18" O.C.)
- DOWEL INTO EXISTING CONCRETE AS DIRECTED BY CITY ENGINEER'S OFFICE.
- 10. DOWELS SHALL BE #3 STRAIGHT (SMOOTH) BAR WITH A MIN. LENGTH OF 12" MIN. EMBED DEPTH SHALL BE 3"
- 11. ACI CERTIFICATION IS REQUIRED FOR PLACING AND FINISHING CONCRETE IN THE RIGHT-OF-WAY.

HANDICAP RAMP - MID BLOCK (SIDEWALK ADJACENT)

OFFICE OF CITY ENGINEER GREAT FALLS, MONTANA

REVISED: DECEMBER 2024

1788.2-17C



NOTES:

- SURFACE TEXTURE OF RAMP SHALL BE THAT OBTAINED BY A COARSE BROOMING TRAVERSE TO THE SLOPE OF THE RAMP.
- CARE SHALL BE TAKEN TO ASSURE A UNIFORM GRADE ON THE RAMP, FREE OF SAGS AND SHORT GRADE CHANGES.
- 3. DRAINAGE STRUCTURES SHOULD NOT BE PLACED IN LINE WITH THE RAMP. LOCATION OF THE HANDICAP RAMP SHOULD TAKE PRECEDENCE OVER LOCATION OF NEW STORM DRAINAGE STRUCTURE INSTALLATIONS.
- THE NORMAL GUTTER LINE PROFILE SHALL BE MAINTAINED THROUGH THE AREA OF THE RAMP. RAMP LIP TO BE 1/4" ABOVE THE GUTTER LINE.
- CROSSWALK AND STOP LINE MARKINGS , IF USED , SHALL BE SO LOCATED TO STOP TRAFFIC SHORT OF RAMP CROSSINGS.
- THE DESIGN ENGINEER SHALL ENSURE ALL INTERSECTION RAMPS ARE DESIGNED IN CONFORMANCE WITH ADA REQUIREMENTS.

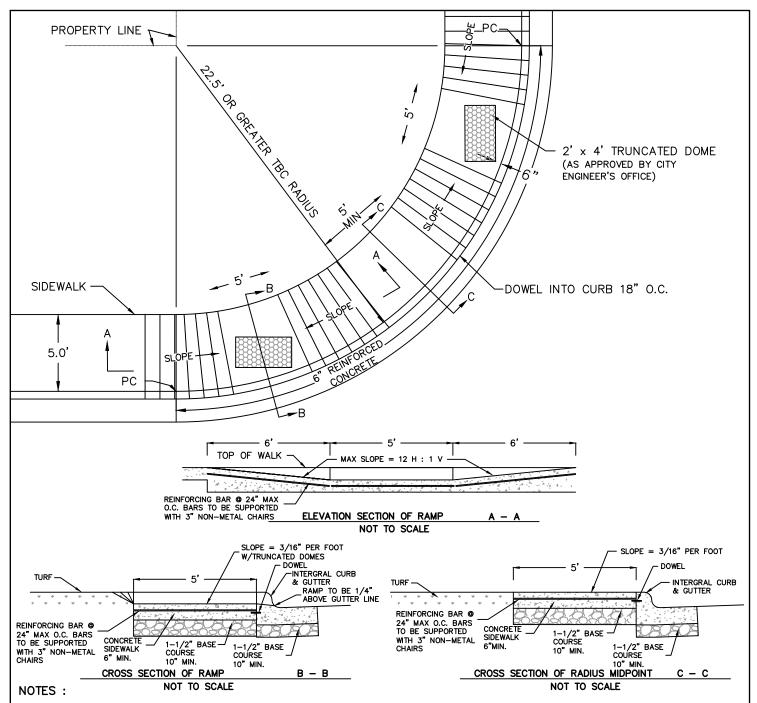
- TRUNCATED DOMES SHALL BE INSTALLED AT THE BOTTOM 2' OF RAMPS. WIDTH OF RAMPS MAY VARY. BRICK RED COLOR ONLY ON TRUNCATED DOMES.
- CONCRETE IN RAMP AREAS SHALL BE 6" REINFORCED (24" O.C) USING 4,000 PSI MIX (MIN. 6.5 SACK).
- ALL 6" REINFORCED CONCRETE IN RAMP AREAS SHALL BE DOWELED INTO CURB AND GUTTER (18" O.C.)
- 10. DOWEL INTO EXISTING CONCRETE AS DIRECTED BY CITY ENGINEER'S OFFICE.
- 11. DOWELS SHALL BE #3 STRAIGHT (SMOOTH) BAR WITH A MIN. LENGTH OF 12" MIN. EMBED DEPTH SHALL BE 3"
- 12. ACI CERTIFICATION IS REQUIRED FOR PLACING AND FINISHING CONCRETE IN THE RIGHT-OF-WAY.

DOUBLE HANDICAP RAMPS AT ROUNDED SIDEWALK BOULEVARD AREAS

OFFICE OF CITY ENGINEER GREAT FALLS, MONTANA

REVISED: JANUARY 2025

1788.2-19



- SURFACE TEXTURE OF RAMP SHALL BE THAT OBTAINED BY A COARSE BROOMING TRAVERSE TO THE SLOPE OF THE RAMP.
- CARE SHALL BE TAKEN TO ASSURE A UNIFORM GRADE ON THE RAMP, FREE OF SAGS AND SHORT GRADE CHANGES.
- 3. DRAINAGE STRUCTURES SHOULD NOT BE PLACED IN LINE WITH THE RAMP. LOCATION OF THE HANDICAP RAMP SHOULD TAKE PRECEDENCE OVER LOCATION OF NEW STORM DRAINAGE STRUCTURE INSTALLATIONS.
- 4. THE NORMAL GUTTER LINE PROFILE SHALL BE MAINTAINED THROUGH THE AREA OF THE RAMP. RAMP LIP TO BE 1/4" ABOVE THE GUTTER LINE.
- CROSSWALK AND STOP LINE MARKINGS, IF USED, SHALL BE SO LOCATED TO STOP TRAFFIC SHORT OF RAMP CROSSINGS.
- 6. THE DESIGN ENGINEER SHALL ENSURE ALL INTERSECTION RAMPS ARE DESIGNED IN CONFORMANCE WITH ADA REQUIREMENTS.

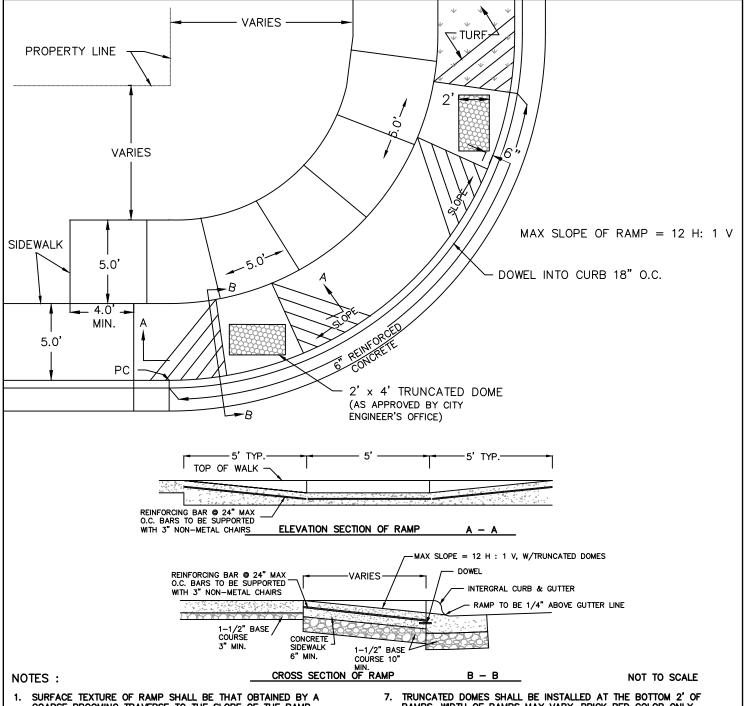
- TRUNCATED DOMES SHALL BE INSTALLED AT THE BOTTOM 2' OF RAMPS. WIDTH OF RAMPS MAY VARY. BRICK RED COLOR ONLY ON TRUNCATED DOMES.
- CONCRETE IN RAMP AREAS SHALL BE 6" REINFORCED (24" O.C)
 USING 4,000 PSI MIX (MIN. 6.5 SACK).
- ALL 6" REINFORCED CONCRETE IN RAMP AREAS SHALL BE DOWELED INTO CURB AND GUTTER (18" O.C.)
- 10. DOWEL INTO EXISTING CONCRETE AS DIRECTED BY CITY ENGINEER'S OFFICE.
- 11. DOWELS SHALL BE #3 STRAIGHT (SMOOTH) BAR WITH A MIN. LENGTH OF 12" MIN. EMBED DEPTH SHALL BE 3"
- 12. ACI CERTIFICATION IS REQUIRED FOR PLACING AND FINISHING CONCRETE IN THE RIGHT-OF-WAY.

DOUBLE HANDICAP RAMPS WITH SIDEWALK ADJACENT TO CURB

OFFICE OF CITY ENGINEER GREAT FALLS, MONTANA

REVISED: JANUARY 2025

1788.2-21A



- COARSE BROOMING TRAVERSE TO THE SLOPE OF THE RAMP.
- 2. CARE SHALL BE TAKEN TO ASSURE A UNIFORM GRADE ON THE RAMP, FREE OF SAGS AND SHORT GRADE CHANGES.
- 3. DRAINAGE STRUCTURES SHOULD NOT BE PLACED IN LINE WITH THE RAMP. LOCATION OF THE HANDICAP RAMP SHOULD TAKE PRECEDENCE OVER LOCATION OF NEW STORM DRAINAGE STRUCTURE INSTALLATIONS.
- 4. THE NORMAL GUTTER LINE PROFILE SHALL BE MAINTAINED THROUGH THE AREA OF THE RAMP. RAMP LIP TO BE 1/4" ABOVE THE GUTTER LINE.
- CROSSWALK AND STOP LINE MARKINGS , IF USED , SHALL BE SO LOCATED TO STOP TRAFFIC SHORT OF RAMP CROSSINGS.
- 6. THE DESIGN ENGINEER SHALL ENSURE ALL INTERSECTION RAMPS ARE DESIGNED IN CONFORMANCE WITH ADA REQUIREMENTS.

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- 12. ACI CERTIFICATION IS REQUIRED FOR PLACING AND FINISHING CONCRETE IN THE RIGHT-OF-WAY.

DOUBLE HANDICAP RAMPS WITH SIDEWALK ADJACENT TO CURB AND BOULEVARD AREAS

OFFICE OF CITY ENGINEER GREAT FALLS, MONTANA

REVISED: JANUARY 2025

1788.2 - 24

LEGEND

CENTERLINE COMMUNICATION LINE CULVERT CURB EDGE OF CONCRETE/ASPHALT EDGE OF GRAVEL EXISTING CONTOUR FENCE FINISHED CONTOUR GAS LINE IRRIGATION PROPERTY LINE SEWER MAIN SEWER SERVICE SIDEWALK STORM MAIN STORM INLET RUN - NEW UNDERGROUND ELECTRIC WATER MAIN WATER SERVICE = CURB - NEW 4" UNREINFORCED CONCRETE - NEW 6" REINFORCED CONCRETE - NEW

ASPHALT - NEW

LIGHT POLE

SEWER MANHOLE

TRUNCATED DOMES

- SIGN

STORM MANHOLE

STORM INLET

O TREE

POWER POLE

(W) WELL

C HYDRANT

VALVE

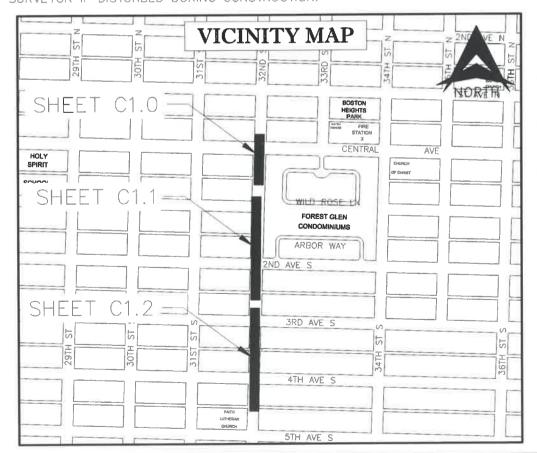
⊗ CURB BOX

BENCHMARK

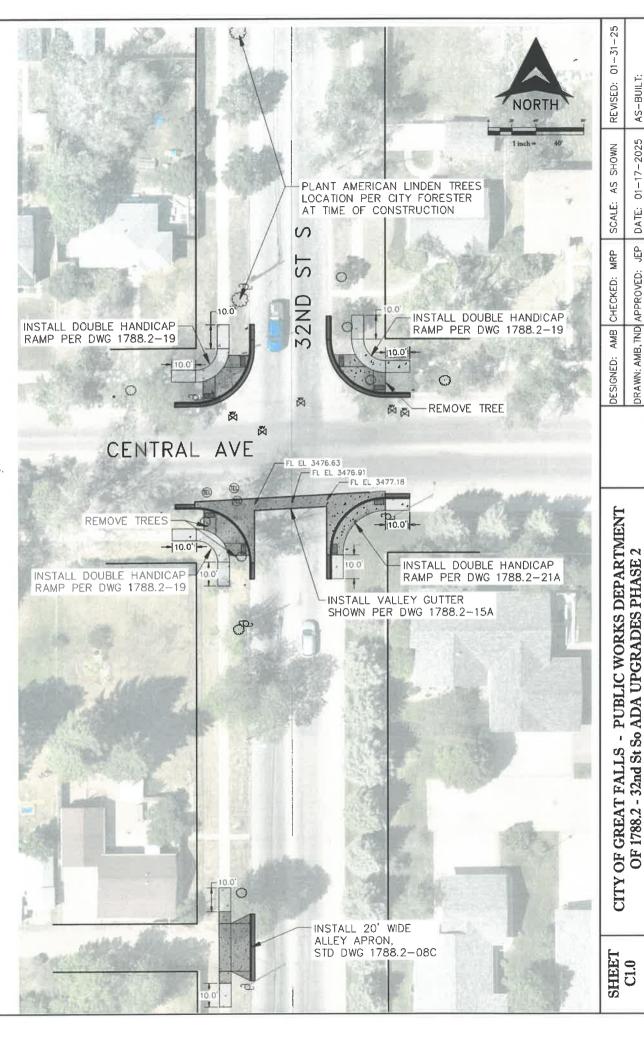
MONUMENT

GENERAL NOTES:

- 1) NOTIFY "ONE CALL" FOR LOCATIONS OF ALL EXISTING UTILITIES BEFORE BEGINNING ANY EXCAVATIONS.
- 2) CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITIES PRIOR TO BIDDING OR CONTRACTING. LOCATIONS OF EXISTING UTILITIES ON PLANS ARE APPROXIMATE ONLY.
- 3) CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS PRIOR TO STARTING WORK.
- 4) CONTRACTOR TO PROVIDE ALL TRAFFIC CONTROL IN ACCORDANCE WITH M.U.T.C.D. AND AMERICANS WITH DISABILITIES ACT STANDARDS.
- 5) CONTRACTOR TO VERIFY CLASS AND DIAMETER OF EXISTING PIPES FOR CONNECTIONS.
- 6) CITY ENGINEER'S OFFICE SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO STARTING WORK.
- 7) 4" TRANSITIONAL SIDEWALK NOT TO EXCEED 5' PAST HANDICAP RAMP OR ALLEY APRON, UNLESS AUTHORIZED.
- 8) ALL DISTURBED PAVEMENT AND BASE COURSE SHALL BE REPLACED IN ACCORDANCE WITH SPECIFICATIONS.
- ONTRACTOR WILL BE RESPONSIBLE FOR THE PROTECTION OF OR REESTABLISHING STREET MONUMENTS BY A REGISTERED LAND SURVEYOR IF DISTURBED DURING CONSTRUCTION.





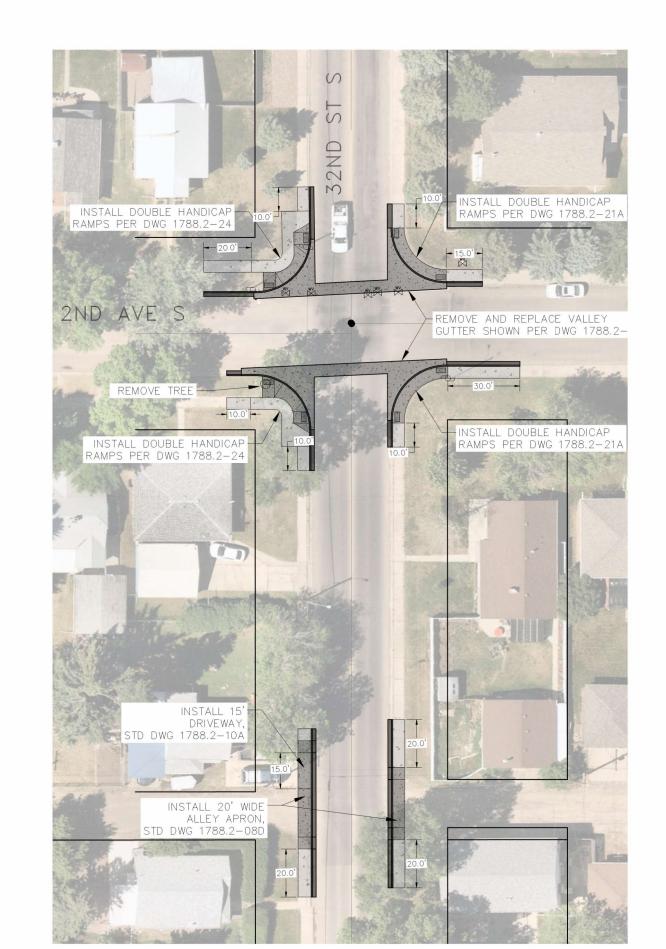


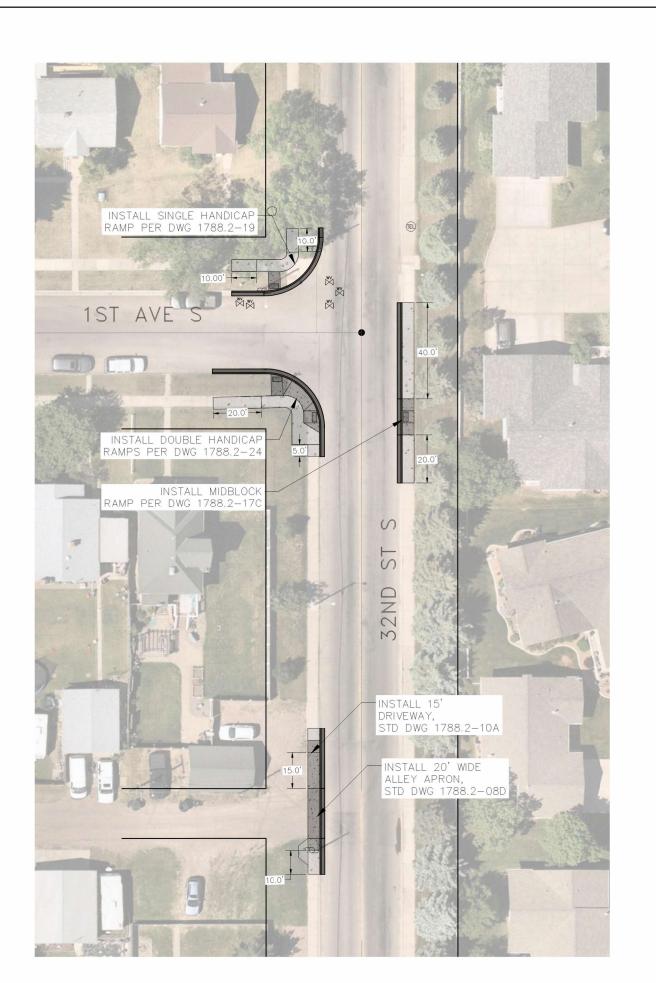
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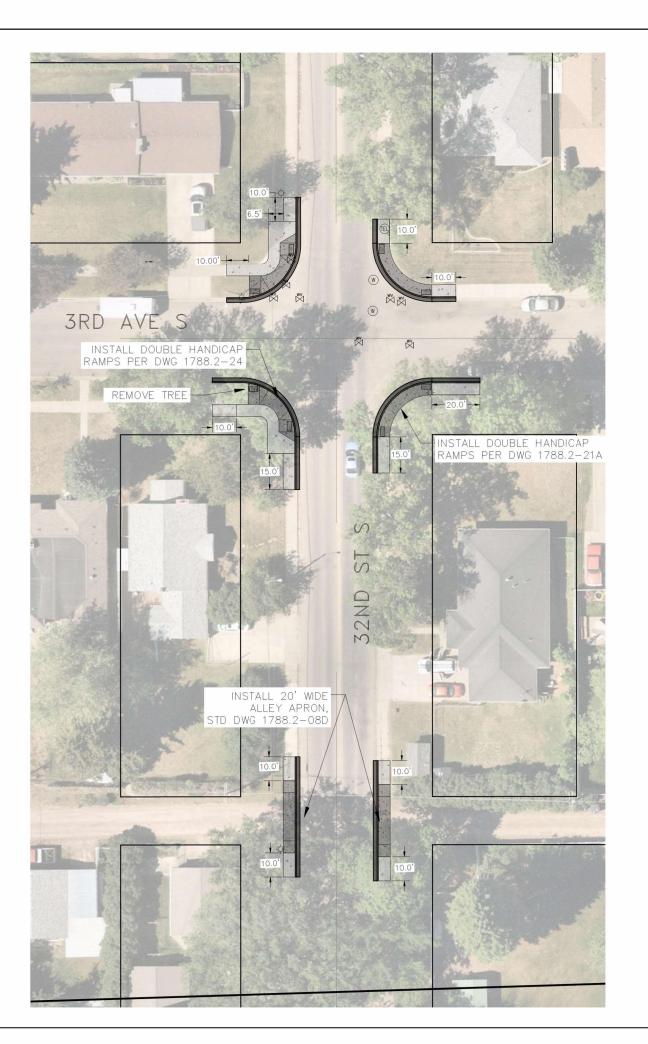


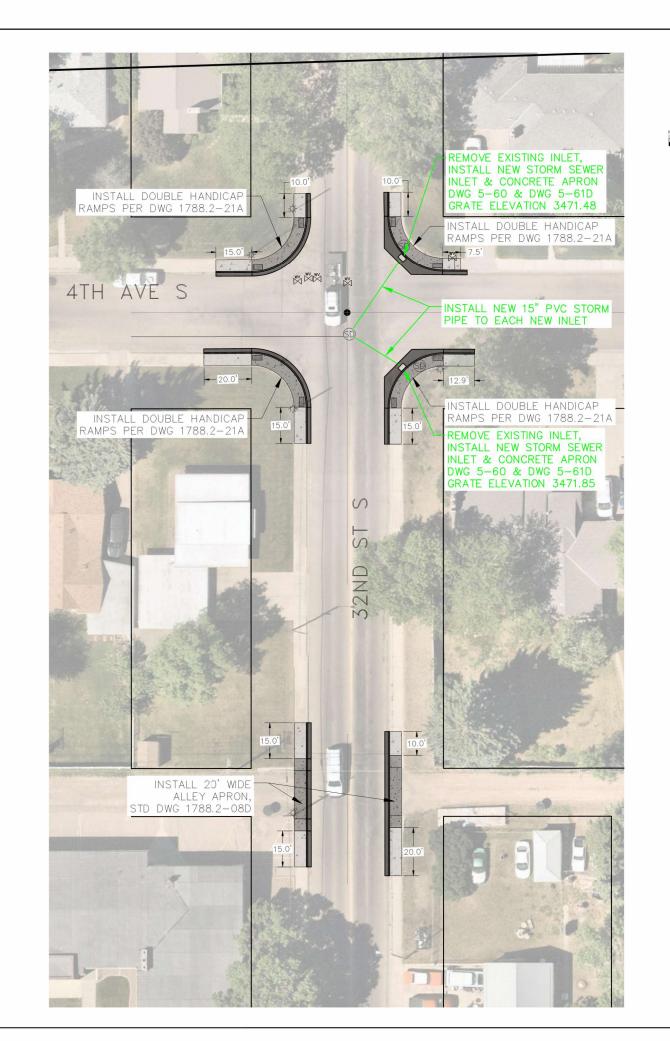
SHEET C1.1

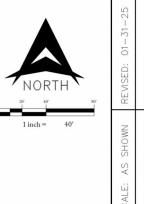












CITY OF GREAT FALLS - PUBLIC WORKS DEPARTMENT OF 1788.2 - 32nd St So ADA UPGRADES PHASE 2

SHEET C1.2