



PUBLIC WORKS CONSTRUCTION PERMIT INFORMATION
SECTION III: Miscellaneous Items

A. Floodplain Development Permit (FDP)

A Floodplain Development Permit shall be required for all proposed development within 200 feet of a Special Flood Hazard Area (SFHA) or floodplain to assure conformance with the provisions of Article 15 of the Unified Development Code (UDC). Information and links to the FDP are included in this permit application packet as [Attachment A](#). Please contact the City's Floodplain Administrator at 972-237-8150 for additional information.

B. Earthwork Permit

The Clearing, Grubbing, and Earthwork permit allows the applicant to install erosion control measures and begin the earth disturbing activities associated with the Development. The Clearing, Grubbing and Earthwork Permit application is included in this permit application packet as [Attachment B](#).

C. Materials Testing

Upon the final submittal of plans for a private development, the Developer shall provide full contact information for a Construction Materials Inspection and Testing Services firm. The selected Testing Firm shall be funded by the developer and provide copies of all testing of public infrastructure to the developer and the City within five (5) business days of the testing.

D. Traffic Control Plan

A Traffic Control Plan must be released by the Transportation Services department, if the project requires the closing of any lane of traffic, shoulder, or alley. The Traffic Control Plan Application form is included in this permit application packet as [Attachment C](#).

E. Site Specific Trench Safety Plan

An example of a Trench Safety Plan meeting all City of Grand Prairie requirements is included in this permit application packet as [Attachment D](#).

F. Cost of Public Improvement

Attach a copy of the detailed bid items for the **Public Improvements** with cost information on the Contractor's letterhead. The Development Coordinator will request the Engineer of Record to confirm the quantities of the bid items.

G. Surety/Maintenance Bond

The Contractor shall obtain a Maintenance Bond for 100% of the construction value with an expiration date of two (2) years after the date of acceptance of the specified work, upon completion of all construction work per the plans released for construction, request letter from the design engineer with receipt of all associated and required documentation to issue said letter of acceptance. The City of Grand Prairie has a standard Maintenance Bond form, included in this permit packet as [Attachment E](#).

H. Inspection Fee (4% of Bond/Estimate)

This fee, calculated based on the Cost of Public Improvement described herein, can be paid by check made to the "City of Grand Prairie", or in person using Visa or MasterCard.

Once the above listed items are received, confirmed, and accepted by the Development Coordinator, the Public Works Construction Permit can be released, and the Pre-Construction Coordination Meeting scheduled.



PUBLIC WORKS CONSTRUCTION PERMIT JANUARY 2021

FOR CITY USE ONLY PERMIT NO. _____

Applicant to Complete I through III Below:

I. Nature of Work (Check All That Apply):

- A. Sidewalk B. Street Paving C. Water D. Fire Hydrant E. Waste Water F. Street Cut
G. Street Bore H. Rail Crossing I. Storm Drain J. Subdivision K. Meter Vault L. Other
M. Detention Structures " Meter

II. Identification: (Complete all fields)

Project: Name: Address: Location: Beginning Date: Estimated Completion Date:
Owner: Name: E-Mail: Address: Telephone No.:
Contractor: Name of Company: E-Mail: Foreman Name: Address: Telephone No.: Emergency Telephone No: Signature:

‡Permittee shall be same as the bonded entity in section III H below.

III. Miscellaneous: (Complete all and/or contact Engineering for guidance)

- A. Floodplain Development Permit: FDP Number: Date Issued:
B. Earthwork Permit: Permit Number:
C. Materials Testing Lab and Contact: Date Received:
D. Traffic Control Plan: (To be filed with City; attach Transportation Division Permit) Release Date:
E. Site Specific Trench Safety Plan: Date Submitted:
F. Cost of Public Improvement*: \$ *Attach a copy of detailed bid items with cost information included on public improvements.
G. Surety/Maintenance Bond**: Date Issued: Name of Bonded: Expiration date: 2 years post acceptance |
H. Inspection Fee (4% of Bond/Estimate)

Staff Release A. B. C. D. E. F. G. H.

NOTE: Items A to H must be submitted, accepted and confirmed prior to release of permit

FOR CITY USE ONLY
** To be filed with the City; not required on projects with a value less than \$2000.00 per Art. 12 UDC OR Certificate of Liability Insurance / COGP Beneficiary if no bond is required and City to be named as beneficiary. Liability Insurance Amount
Release: City Engineering Vault File Number: Date Construction Plans Released:
Comments:
Inspection Fee 4% of bond/estimate Collected (Per Art. 12 & Art. 22 UDC):
\$ Paid By: Rec. By: Date:
Permit Released By: Date:

The release of this permit for construction is based on general compliance and does not approve or warrant the design and does not relieve the owner from any items discovered during construction which are deemed necessary to comply with Federal, State or City ordinances and standards.

cc: Contractor | Development Coordinator | Inspector Supervisor | Construction Inspector | GIS Manager | Planning & Zoning

**City of Grand Prairie, TX
Private Development Project Contact Information**

Project Info	Name of Project	
	X or CEP Number	
	City File Number	
	Project address:	

Owner Info	Name	
	Firm Name	
	Phone	
	Email	
	Address:	

Developer Info	Name	
	Firm Name	
	Phone	
	Email	
	Address:	

Engineer of Record	Name	
	Firm Name	
	Phone	
	Email	
	Address:	

General Contractor	Name	
	Firm Name	
	Phone	
	Email	
	Address:	

Site Superintendent	Name	
	Firm Name	
	Phone	
	Email	
	Address:	

Earthwork Contractor	Name	
	Firm Name	
	Phone	
	Email	
	Address:	

Utilities Contractor	Name	
	Firm Name	
	Phone	
	Email	
	Address:	

Paving Contractor	Name	
	Firm Name	
	Phone	
	Email	
	Address:	

Materials Testing Lab	Project Manager Name	
	Firm Name	
	Phone	
	Email	
	Address:	

Assigned GPTX Engineering Inspector	Name	
	Phone	
	Email	



CLEARING & GRUBBING/EARTHWORK PERMIT – JANUARY 2021

Applicant to Complete Sections I and II Below:

PERMIT NO. _____

Note: Minimum Fee for this permit per Article 12 & 22 UDC

I. Identification:

Project Name: _____

Project Location: _____

Project Address: _____

Property Lot size or Disturbed Area (ac) _____ Residential Commercial/Industrial

Is the location within the Special Flood Hazard Area (SFHA) or within 200-feet of SFHA: Y N

Owner/Secondary Operator:

Name: _____ E-Mail: _____

Address: _____ Phone: _____

Contractor/Primary Operator:

Name: _____ E-Mail: _____

Address: _____

Office Phone No: _____ Emergency Phone No: _____

Description of Work:

Beginning Date: _____ Expected Date of Completion: _____

Fee Paid by: Contractor/Primary Operator Owner/Secondary Operator

II. Signature of Primary Operator (as Appears within Applicable, Fully Executed SWP3 or CSN):

Work under this permit may include clearing, grubbing, and earthwork as indicated above. No work shall be conducted in the floodplain without a Floodplain Development Permit. Primary operator is responsible for site maintenance until NOT is filed. See the reverse of this document for all SWP3, Construction Site Notice (CSN), Notice of Intent (NOI), and Notice of Termination (NOT) requirements. BMP installation inspection is required for all earth disturbing activities.

The primary operator acknowledges by signing below that all City facilities, structures, and utilities within easements or rights-of-way shall be protected or identified for relocation or adjustments. A site grading plan and erosion control plan is required for the earthwork permit. The plan may need a seal of a professional engineer licensed by the State of Texas as directed by the City Engineer or designee. Prior to the release of any Clearing or Earthwork permit of thirty (30) or more un-platted residential lots, or five (5) or more acres of non-residential land, a Concept Plan in compliance with Article 17 of the Unified Development Code (UDC) or a Site Plan in compliance with Article 12 of the UDC must be prepared and approved by the City.

The release of this permit for construction is based on general compliance and does not approve or warrant the design and does not relieve the owner from any items discovered during construction which are deemed necessary to comply with Federal, State or City ordinances and standards.

Permit Shall Expire and require renewal per Article 22 of the Unified Development Code (UDC), based upon date of release below.

Signature: _____

Name of Company: _____

Address: _____

Phone #: _____

III. FOR CITY USE

SWP3 Y N Staff Release

FDP Permit Y N Staff Release

Release: _____ ENG. FILE # _____

Fee Amount**: _____ Date Fee Paid: _____

**Fee Amount Per Article 12 and Article 22 of the Unified Development Code (UDC)

Special Conditions: Contractor shall control construction debris and shall keep mud and silt out of streets and rights-of-way.

Permit Released By: _____ Date: _____

cc: Contractor | Development Coordinator | Floodplain Administrator | Stormwater Specialist | Inspector Supervisor

R:\Development Coordinator Files\For 2021\Master Form\2021\Clearing-Grubbing-Earthwork



STORMWATER POLLUTION PREVENTION PLAN (SWP3) REQUIREMENTS FOR SUBMITTAL

Prior to ANY earth disturbing activities the following conditions need to be addressed and accepted through the City of Grand Prairie Stormwater Department:

- A fully executed SWP3 will be submitted for review and acceptance through the Stormwater Department. Fully executed means all signatures will be required with the submittal and authorized in accordance with the 30 Texas Administrative Code (TAC) Subchapters 305.44 & 305.128. The owner of the project and the operator (contractor) hired by the owner are the required signatures needed for a fully executed SWP3.
- Land disturbing activities that equal one (1) acre and less than five (5) acres are required by the TPDES Construction General Permit and the City of Grand Prairie (MS4) to submit a SWP3. A signed Small Construction Site Notice from the owner and the operator (contractor) of the project site will also need to be included with the SWP3 submittal. The conditions described in item 1 (above) apply to all SWP3 submittals.
- Land disturbing activities that equal five (5) acres or more, or included in a larger project or common plan of development that equals five (5) or more acres are required by the TPDES Construction General Permit and the City of Grand Prairie (MS4) to submit a SWP3, Notice of Intent (NOI) and Construction Site Notice provided by the Primary Operator (Contractor) as defined in the TPDES Construction General Permit as having Day to Day operational control over the site. And if there is a Primary Operator (Owner) having control over construction plans or specifications, they will also need to submit a NOI and Site Notice as defined in the TPDES Construction General Permit. If a Secondary Operator is part of this plan and meets the definition guidelines in accordance with the TPDES Construction General Permit, then they can or should fall under the Primary Operators NOI and sign the Secondary Operator Construction Site Notice.

Submitting Requirements: Please submit the fully executed SWP3 electronically (via email) to the City of Grand Prairie Stormwater Department at the email address listed below. All questions or comments should also be directed to the contact information below.

Notice of Termination (NOT) Required

Each operator that has submitted a Notice of Intent (NOI) for authorization under the construction general permit must apply to terminate that authorization. The NOT must be submitted to TCEQ, and a copy of the NOT provided to the MS4 receiving the discharge (Grand Prairie), within 30 days after any of the following conditions are met:

- Final stabilization has been achieved and meets the conditions of 80% coverage with no large bare areas, on all portions of the site that are the responsibility of the permittee.
- A transfer of operational control has occurred, or
- The operator has obtained alternative authorization under an individual TPDES permit or alternative TPDES general permit.
- Small construction sites and secondary operators that fall under the provisions of the construction general permit, complete the applicable portion of the site notice related to removal of the site notice, and submit a copy of the completed site notice to the operator of the MS4 (City) receiving the discharge.



CITY OF GRAND PRAIRIE TRANSPORTATION SERVICES
TRAFFIC CONTROL PLAN APPLICATION
FY2020

OFFICE USE ONLY

Date Received: _____ RELEASED FOR CONSTRUCTION: [] DENIED: []

Comments: _____

Application Reviewed By: _____ Date: _____

PLEASE TYPE OR PRINT LEGIBLY:

NATURE OF WORK

- [] Sidewalk [] Street Paving [] Gas [] Electric [] Telephone [] Water
[] Storm Sewer [] Sanitary Sewer [] Street Cut [] Street Bore [] Subdivision [] Fire Hydrant
[] Meter Vault [] DESCRIBE WORK TO BE DONE: _____

IDENTIFICATION PW Project #: _____ Project Inspector: _____

Project: _____

Address: _____

Location: _____

Beginning Date: _____ Estimated Completion Date: _____

Contractors shall NOT change the starting date. Any change in starting date will require resubmittal.

Property Owner/Utility: _____ Phone: _____

Contact Name: _____ Email: _____

Contractor Name: _____

Address: _____

Project Manager: _____ Email: _____

24-Hour Phone No: _____ Secondary Phone No: _____

NO LANE CLOSURES ON MAJOR ROADWAYS PERMITTED BEFORE 9:00AM OR AFTER 3:00PM

The release of these traffic control plans for construction is based on general compliance and does not approve or warrant the design, and does not relieve the owner/developer/contractor from properly and safely employing traffic control per the Texas MUTCD on the project at all times. Owner/developer/contractor hereby agrees to hold the City of Grand Prairie harmless from any damages arising out of any claim in connection with this work.

SIGNATURE OF APPLICANT OR AUTHORIZED AGENT

Printed Name: _____ Company: _____

Signature _____ Date _____



CITY OF GRAND PRAIRIE TRANSPORTATION SERVICES

TRAFFIC CONTROL PLAN APPLICATION

FY2020

General Notes

1. The Contractor shall provide a proposed **detailed barricade plan, specific to project site conditions**, and a Traffic Control Application for review by the Transportation Services Department. The submitted plan shall conform to Part Six (6) of the Texas Manual on Uniform Traffic Control Devices (TMUTCD), as currently revised, for the minimum requirements of Temporary Traffic Control. **Please note that the Typical Applications featured in the TMUTCD will not be accepted in place of a detailed site-specific plan.** These figures are meant to be used as a guideline to develop your own site-specific plan.
 - <http://www.txdot.gov/government/enforcement/signage/tmutcd.html>
2. TCP's will only be released after a firm start date (weather permitting) has been established and communicated to Transportation services. Failure to notify Transportation services of start date changes within 48 hours will require TCP resubmittal.
3. No lane closures on major roadways permitted before 9:00 am or after 3:00 pm.
4. The Contractor is responsible to ensure that a copy of the approved Traffic Control Plan for the current phase is kept at the job site at all times.
5. The Contractor is responsible to ensure that all Traffic Control Devices meet MUTCD requirements, and be clean, made of high-visibility materials, legible, and correctly positioned.
6. The Contractor shall be responsible to maintain all work zone traffic control devices, including signing and barricading, 24-hours a day, until all work is completed.
7. The Construction Inspector or Transportation Services Department designee shall have the authority to stop all work until the Contractor provides the proper traffic control plan for the given conditions.
8. The Construction Inspector or Transportation Services Department designee shall have the authority to require additional signs, barricades or flagmen if he/she deems necessary.
9. The Contractor shall give all residents and/or businesses at least 24-hour written advanced notice before closing any driveways or alleys. Notice shall be written in both English and Spanish. "Business(es) Accessible" signs shall be added to the TCP, including any route changes necessary for access during construction.
10. The Contractor shall not use the roadway or parkway for parking and/or storage of construction materials unless advanced approval in writing by the Transportation Services Director is obtained.
11. No roadway shall be completely closed to through traffic without authorization from the Transportation Services Department Director. The Contractor shall notify the Transportation Services Department two (2) weeks prior to any requested roadway closure. The Director will then inform all affected agencies including, but not limited to, emergency services agencies, School Districts, US Postal Service, Grand Connection Transit Service and Grand Prairie Disposal Company. The Contractor shall place Variable Message Signs (V.M.S.) on roadways to be closed displaying dates and times of closure. The V.M.S. shall be on display for one (1) week prior to the closure of any city roadway. All text and wording displayed on the V.M.S. shall be approved by the Transportation Services Department prior to the deployment of the signs.

Submit the completed Traffic Control Plan Application and detailed barricade plan to:
Bill Dorminy (bdorminy@gptx.org) and Donald Duncan (dduncan@gptx.org), and cc: Caryl Devris (cdevries@gptx.org).

“ATTACHMENT D”

Note: The following is an example of a trench safety plan that meets City criteria. It is the contractor's responsibility to provide this plan for release of the Public Works Construction Permit.

TRENCH SAFETY
SPECIFICATIONS
FOR THE
[REDACTED]

CITY OF
GRAND PRAIRIE, TEXAS

Prepared for
[REDACTED] CONTRACTING

Project No. [REDACTED]

[REDACTED] Inc.
[REDACTED]

STATE OF TEXAS
[REDACTED]

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1.0 DESIGN ASSUMPTIONS

- 1.1 General. These specifications cover the basic requirements for shoring and/or sloping of excavations for the installation of WATERLINES, WASTEWATER LINES and STORM DRAIN IMPROVEMENTS for the [REDACTED] PROJECT in the CITY of GRAND PRAIRIE, TEXAS.
- 1.2 This specification addresses the safety of workers in a trench excavation and does not, in any way relieve the Contractor of his responsibility and liability to ensure the safety of the project and workers.
- 1.3 It is not the intent of these specifications to specify every detail and procedure of the trenching/shoring operations; nevertheless, they shall conform to the high standards of engineering and of safe trench excavation.
- 1.4 The personnel protection systems shown in these specifications have been designed based on information obtained from the project drawings and specifications.
- 1.5 In accordance with Revised OSHA (Appendix A to Subpart P effective March 2,1990), the Contractor's "Competent Person" will conduct the required Soil Classification Tests. If soils other than those previously identified are found, this specification will be revised. During construction, the Contractor's "Competent Person" will monitor the soil classification as required by OSHA 1926.
- 1.6 Contractor shall be responsible for selecting the appropriate safety system option shown in these specifications, depending on trench depth and soil conditions.
- 1.7 The protection of existing structures and utilities which may be affected by these trench excavations is beyond the scope of this report (See Sect.4.2)
- 1.8 The Contractor must identify a "Competent Person" in the Contractor's firm responsible for performing inspections of the excavations to ensure that expected subsurface conditions are present. NOTE-This person must be "Competent" as described in OSHA 1926.650(b).
- 1.9 It is the Contractor's responsibility to ensure that all excavation work and site conditions are within the regulations as established by OSHA. Any property damage or bodily injury (including death) arising from the use of these specifications, from the Contractor's negligence in performance of contract work, or from Owner's failure to note exceptions to these specifications shall remain the sole responsibility and liability of the contractor.

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“ATTACHMENT D”

2.0 DEFINITIONS

- 2.1 All definitions of section 1926.650 of Subpart P, Part 1926, of the Code of Federal Regulations shall be by reference an integral part of this section.
- 2.2 "Sealing Engineer"- The engineer whose Texas seal is affixed to these specifications.
- 2.3 "The Contractor"-The contractor responsible to the owner for the excavation work described herein.
- 2.4 "Competent" as described in OSHA 1926.650(b).

3.0 APPLICABLE CODE AND STANDARDS

- 3.1 The Contractor shall perform all shoring work under this contract in accordance with all applicable codes and standard safety requirements and regulations including:
 - 3.1.1 OSHA 2207, Construction Industry Standards (Part 1926, Occupational Safety and Health Standards)
 - 3.1.2 AISC Code of Standard Practice.
 - 3.1.3 AISC Specifications of the design, fabrication, and erection of steel buildings
 - 3.1.4 AITC Timber Construction Manual
 - 3.1.5 AWS D1.1 Structural Welding Code
 - 3.1.6 The Uniform Building Code
 - 3.1.7 OSHA 2226
 - 3.1.8 U S Army Corps of Engineers EM 385-1-1
 - 3.1.9 IBC Building code

- 3.2 The latest edition (including supplements and revisions) of the above publications in effect or promulgated at the time of the bid shall apply. Equipment fabricated to codes and standards in effect at time of bid but later revised shall be acceptable provided such revisions are not required by law.

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4.0 SHORING/SLOPING

4.1 Description.

This section covers the technical requirements of the trenching/shoring work.

4.2 Existing Structures.

Where existing buildings, other utilities, streets, highways, or other structures are in close proximity to the trench, or may otherwise be affected by the proposed trenching operation, the Contractor shall provide adequate protection by the use of sheeting and shoring to protect the structure, street, or highway from possible damage. In the case of utilities, the Contractor may elect to remove the utility, provided that the removal and subsequent replacement meet with the approval of the engineer, the utility owner, or whoever has jurisdiction of the structure. In all cases, it shall be the responsibility of the Contractor to protect public and private property and any person or persons who might, as a result of the Contractor's work, be injured.

4.3 General Trenching and Shoring Requirements.

The Contractor shall be solely responsible for trench safety provisions meeting the applicable requirements of the United States Department of Labor-Occupational Safety and Health Administration, including Subpart P, Part 1926, of the Code of Federal Regulations. All trenching operations and procedure shall also conform to the requirements listed in this specification. The requirements of sections 1926.650 and 1926.651 of Subpart P, Part 1926, of the Code of Federal Regulations shall be by reference an integral part of this section.

4.4 REQUIREMENTS PRIOR TO EXCAVATION

4.4.1 Known underground installations are shown on the site plans. It is the Contractor's responsibility to verify exact locations in the field.

4.4.2 Before any individual enters an excavation, the excavation will be inspected by a "Competent Person" to ensure that trench excavation has been performed according to this specification and OSHA requirements and to ensure that no anomalies are observed which may effect the safety of the trench project. Note-This person must be "Competent" as described in OSHA 1926.650(b).

"ATTACHMENT D"

4.5 REQUIREMENTS DURING EXCAVATION

- 4.5.1 During excavation, the exact location of existing underground installations shall be determined by the Contractor, and when uncovered, proper precautions and supports shall be provided so as not to cause a hazard to the workmen or the project.
- 4.5.2 Daily inspections of the excavations shall be made by the "Competent Person". If there is evidence of possible cave-ins or slides, all work in the excavation shall cease until the necessary precautions have been taken to ensure the safety of the workmen and the trench. Note-This person must be "Competent" as described in OSHA 1926.650. Excavations shall be inspected after every rainstorm or other hazard-increasing occurrence to ensure safety of the workmen and the trench.
- 4.5.3 Excavated material shall be stockpiled a distance away from the trench, so as not to affect the trench stability. The Contractor's means and methods will determine the distance. As a minimum to protect the workmen from falling debris, the toe of the stockpiled soil shall be no closer than two (2) feet from the edge of the excavation.
- 4.5.4 All precautions must be made to prevent surface water from entering the trench excavation. Adequate drainage must be provided in the area adjacent to the excavation.
- 4.5.5 Operation of heavy equipment adjacent to the edge of the trench may cause instability. The Contractor is responsible for the means and methods of excavation, and therefore, for loads imposed on the trench excavation and shoring design.
- 4.5.6 The Contractor must take precautions to protect the face of the excavation from exposure to excessive drying, water, or freezing.
- 4.5.7 Water shall not be permitted to stand in the bottom of the trench and suction pumps of adequate capacity shall be installed to ensure that such standing water is removed.
- 4.5.8 The Contractor shall provide a positive means of ensuring that hydrostatic pressure does not build up behind the shoring or shields.
- 4.5.9 If a condition requiring the use of a different method of shoring is encountered, this specification will be revised.
- 4.5.10 Remove shoring units from bottom to top as backfilling proceeds.
- 4.5.11 When backfill is within five (5) feet of the top of the trench, all shoring may be removed, unless the trench conditions indicate a hazard.

“ATTACHMENT D”

- 4.5.12 No person shall be exposed to the lower portion of the trench after shoring has been removed.
- 4.5.13 Additional shoring of larger sizes may be installed.
- 4.5.14 Ladders or other adequate means of exit must be provided and located so as to require no more than twenty-five(25) feet of lateral travel.
- 4.5.15 When two (2) trenches intersect, both trenches must be protected to a distance of not less than the depth of the deepest trench.

4.6 REQUIREMENTS FOR CONFINED SPACE

- 4.6.1 Prior to construction the contractor shall identify any areas near the proposed excavations that could expose workmen to harmful levels of atmospheric contaminants (i.e. landfills, manholes or materials storage).
- 4.6.2 During construction, before workmen are allowed in an excavation or existing structure, the contractor shall test the air quality at these previously identified areas for hazardous atmospheres in all excavations greater than four (4) feet in depth. Atmospheres containing less than 19.5 percent oxygen or containing a concentration in excess of 20 percent of the lower flammable limit of the gas shall be deemed "hazardous" and adequate precautions shall be taken.
- 4.6.3 Retesting of work areas shall be conducted as often as necessary to ensure that the atmosphere remains safe for workmen.
- 4.6.4 During construction, emergency rescue equipment shall be readily available where potentially hazardous conditions are expected to develop.
- 4.6.5 As a minimum, the contractor shall have on site the following emergency equipment. Breathing apparatus, a safety harness and line, or a basket stretcher. During construction in potentially hazardous areas, the required equipment shall be attended.

SECTION 5.0
SITE SPECIFIC EXCAVATIONS
AND
SHORING SPECIFICATIONS
FOR
WATERLINES
WASTEWATER LINES
AND
STORM DRAINAGE

5.1 EXCAVATIONS SPECIFIC TO THIS PROJECT

SANITARY SEWER LINE

LOCATION	MAX. DEPTH	OPTION	NOTES
0+00 TO 1+80	7.0	I, II, III	INSTALL 6"

WATER LINE

LOCATION	MAX. DEPTH	OPTION	NOTES
0+00 TO 3+81	7.5	I, II, III	INSTALL 12"

OTHER PROJECT WATERLINES AND APPURTENANCES

The contractor is required to install various water lines on the project. No profiles for these improvements were provided on the project plans; however, it is doubtful excavation depths greater than five feet will be necessary and therefore shoring may not be required. If excavation depths greater than five feet are encountered or if there is evidence of raveling or caving for any reason including pre-disturbed soil conditions, the contractor will be required to shore or slope the excavation so as to provide a safe workplace. The contractor may use guidelines set forth in Option I, II or III for these excavations.

STORM SEWER LINE "A"

LOCATION	MAX. DEPTH	OPTION	NOTES
0+00 TO 4+00	12.0	I, II, III	INSTALL 24"

STORM SEWER LINE "B"

LOCATION	MAX. DEPTH	OPTION	NOTES
0+00 TO 2+75	5.0	I, II, III	INSTALL 18"

STORM SEWER LINE "DET"

LOCATION	MAX. DEPTH	OPTION	NOTES
0+00 TO 1+49	10.0	I, II	INSTALL 60"

“ATTACHMENT D”

PROJECT LATERALS AND INLETS

The contractor shall use guidelines set forth in Option I for the construction of inlets on the above referenced storm drain lines and use guidelines set for in Options I, II & III for the installation of lateral piping.

Header from Contractor conducting work

Cost Breakdown for Public Scope of Work for permanent structure installed

PUBLIC FACILITIES BREAKDOWN

Date
4/21/2021

Project



Item	Description	Quantity	Unit	Unit Price	Total
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Section A - Potable Water Facilities - Public					
1	12" C900,DR-18,Class 150,PVC Water	1480	l.f.	\$ 53.90	\$ 79,772.00
2	6" C900,DR-18,Class 150,PVC Water	201	l.f.	\$ 33.40	\$ 6,713.40
3	12" Gate Valve & Box	4	ea.	\$ 2,588.00	\$ 10,352.00
4	6" Gate Valve & Box	3	ea.	\$ 1,058.00	\$ 3,174.00
5	24" x 12" TS & TV	1	ea.	\$ 9,321.00	\$ 9,321.00
6	24" x 8" TS & TV	1	ea.	\$ 8,079.00	\$ 8,079.00
7	12" x 12" TS & TV	1	ea.	\$ 6,572.00	\$ 6,572.00
8	24" x 12" TS & TV	1	ea.	\$ 7,981.00	\$ 7,981.00
9	Standard Fire Hydrant	3	ea.	\$ 3,151.00	\$ 9,453.00
10	2" Domestic Water Service	1	ea.	\$ 6,456.00	\$ 6,456.00
11	2" Irrigation Water Service	1	ea.	\$ 6,456.00	\$ 6,456.00
12	12"x6" tee	2	ea.	\$ 1,029.00	\$ 2,058.00
13	12" vert. bend	4	ea.	\$ 1,507.00	\$ 6,028.00
14	12" bend	2	ea.	\$ 874.00	\$ 1,748.00
15	Remove & replace paving	80	s.y.	\$ 146.00	\$ 11,680.00
16	Trench Safety	1778	l.f.	\$ 0.10	\$ 177.80
Total Section A - Potable Water Facilities - Public					\$ 176,021.20

Item	Description	Quantity	Unit	Unit Price	Total
------	-------------	----------	------	------------	-------

Section B - Sanitary Sewer Facilities - Public					
1	Connect to Existing Manhole	1	ea.	\$ 3,321.00	\$ 3,321.00
Total Section C - Sanitary Sewer Facilities - Public					\$ 3,321.00

TOTAL PUBLIC FACILITIES	\$ 179,342.20
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Example of cost estimate for Paving



Header from Contractor conducting work

John White
Project Manager



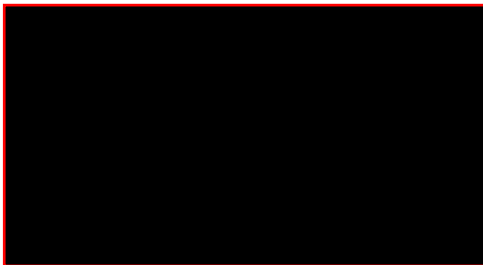
April 29, 2021

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City of Grand Prairie, Engineering
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Cost Breakdown for Public Scope of Work for permanent structure installed

**Paving Estimate for Hardrock Industrial
975 W. Oakdale**

PUBLIC PAVING				
8" 4000 PSI Concrete Paving for 3 approaches	850	sy	\$ 57.10	\$ 48,535.00
4" 4000 PSI Concrete Sidewalk	7050	sf	\$ 4.00	\$ 28,200.00
Barrier-free Ramp	6	ea	\$ 500.00	\$ 3,000.00
			TOTAL PAVING	\$ 79,735.00



**CITY OF GRAND PRAIRIE
PUBLIC WORKS MAINTENANCE BOND
KNOW ALL MEN BY THESE PRESENTS**

July 2022

**STATE OF TEXAS
COUNTY OF DALLAS**

THAT WE, _____, as Principal, and _____
as surety, acknowledge for the benefit of any person, firm or corporation injured by a breach of the term hereof in the sum of _____ Dollars (100% of the total contract price) for the payment of which well and truly to be made, we bind ourselves, our heirs, executors and administrators, jointly and severally by these presents:

The conditions of this obligation, however, are such that, whereas, the Principal has entered into a contract for the purpose of excavating, laying, constructing, building, repairing, rebuilding, grading, graveling, paving, surfacing, resurfacing, or doing any work in or upon any public street, alley, easement or thoroughfare within the corporate limits of the city of Grand Prairie, and where the Code of Ordinances of the city of Grand Prairie requires an indemnifying bond in the sum of _____ dollars (100% of the total contract price) of persons performing such work within the city of Grand Prairie, which section of said Code of Ordinances are made a part of all intents and purposes.

Project Title: _____

This obligation is further conditioned when the Principal maintain such work in a good and workmanlike manner and state of repair for a period of two (2) years from and after its completion and written acceptance by the City of Grand Prairie.

NOW THEREFORE, if the said Principal shall well and sufficiently indemnify and hold harmless the City of Grand Prairie against all costs, claims, expense or damages of whatsoever kind of character, whether real or imagined, resulting directly or indirectly from such construction work which may in any wise accrue against the City of Grand Prairie in consequence of the operations covered by the permit issued to the said Principal under the provisions of the aforesaid Code of Ordinances and shall comply with all rules and regulations, promulgated by authority thereof during the term hereof, in such event that this obligation shall be null and void otherwise, to remain in full force and effect.

It is expressly understood, however, that the coverage provided under this bond may be sued upon in the name of any person, firm, or corporation injured by an act constituting a breach of the conditions hereof, and that the same shall not be void upon one recovery but may be sued upon from time to time until the whole amount of the penalty is recovered.

It is expressly understood, however, that the coverage provided under this bond shall not extend to include any claim or any nature whatsoever arising under and coming within the terms of the Workman's Compensation of the State of Texas.

The execution of this bond by the duly authorized agent of surety shall be deemed conclusive of its liability hereunder irrespective of any defect of the execution hereof by Principal.

IN TESTIMONY WHEREOF, witness our hand this ___ day of _____, _____.

Resident Surety: _____

Principal: _____

Address: _____

By: _____

Printed Name: _____

Local Phone Number: _____

Address: _____

**ABOVE MUST BE FILLED OUT IN FULL
OR WILL NOT BE ACCEPTED**

Phone Number: _____

Email: _____