

PRECONSTRUCTION MEETING NOVEMBER 27, 2023 AT 1:30 PM

DUCK CREEK SOUTH EXTENSION TRAIL

BID NO. 1228-23



ATTENDEE INTRODUCTION



Scott Hale

Public Works Inspector

972-205-3635 (O) 972-679-7778(M)

shale@garlandtx.gov



Richard Drown

Public Works Inspections Supervisor

972-205-2113 (O) 214-629-8414 (M)

RDrown@garlandtx.gov



Michael Rozelle, P.E.

Senior Field Engineer

972-205-2174 (O)

MRozelle@garlandtx.gov



Leo Signey

Field Operations Coordinator

Engineering Department

972-205-3621 (O)

LSigney@garlandtx.gov



DALLAS COUNTY PUBLIC WORKS

Micah Baker

Mobility Planning Manager 214-653-7465 (O)

micah.baker@dallascounty.org

Minesha Reese

Senior Transportation Planner 214-653-6961 (O)

minesha.reese@dallascounty.org



PARKS & RECREATION

Ziad Kharrat

Parks Special Projects Administrator 972-205-2756 (O)

Zkharrat@garlandtx.gov

Mark Ellender

Landscape Architect

972-205-2897 (O)

Mellender@garlandtx.gov





CONSULTANT

BW2 Engineers, Inc.

2201 N. Central Expressway, Suite 205 Richardson, TX 75080

Jim Waldbauer, P.E.
Vice President / Project Manager

jwaldbauer@spi-eng.com

Jonathan Watkins, P.E.

Project Engineer

jwatkins@spi-eng.com



MATERIALS TESTING TEAM Consultants, Inc.

4087 Shilling Way

Dallas, TX 75237

O: 214-331-4395

Muhammad Awais Khan, P.E.

Engineering Manager





CONTRACTOR

Dean Construction

701 Hall Street Cedar Hill, TX 75104 O: 972-291-7153

Greg Firebaugh, president

greg@dean-construction.com





Steve Martin – Transmission Director
 (O) 972-205-3097



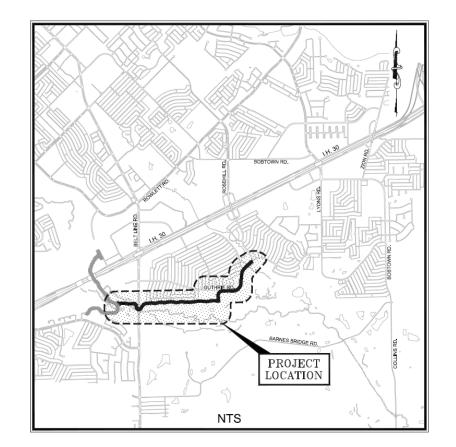
PROJECT SCOPE

Contract Amount: \$2,481,725.58

Contract Time: 12-14 months

Scope of Work:

- Project Length 1.43 miles of 12-foot wide concrete trail that will be constructed within electric transmission corridors south of IH-30 and will extend from the existing Mesquite Heritage Trail at the city limits of Mesquite towards Ablon Park to the east.
- The trail will align under the northern abutment of Beltline Rd., through a Garland Power and Light and Oncor Electric transmission easements, then continue along Guthrie Rd. until the trail turns behind Toler Elementary towards the city park.
- The trail will include a steel truss bridge, approximately 100 feet long, to cross Duck Creek. In addition, culvert crossings and modifications to existing storm water infrastructure in Garland will be required to accommodate the proposed alignment.





SUMMARY OF REQUIREMENTS

- Retain a copy of the approved plans on site at all times.
- Contractor to notify Materials Testing Lab 24-hours in advance of all required testing.
- Utilize contract book, addendum, approved plans, general notes, and Pre-Bid Q&A for questions and answers.
- Provide the following:
 - Critical Path / Progress Schedule with milestones, Item 1.22.5 on page SSS-4. In addition to project completion, schedule shall contain two intermediate milestones; Each milestone will be the completion of a major critical work item or phase of construction. At least a week prior to starting the project, a notification letter must be passed out or delivered to affected residents/property owners.
 - ✓ Notice to Proceed will be issued after approval of schedule.
 - Copy of Project Video submit to Inspector prior to start, Item 49 on page SC-18.
 - Staging Area provide a written copy of release letter from property owner, no staging without authorization.
 - Submittals send to Leo Signey and Inspector



Submittals

Approved Materials List at:

http://garlandtx.gov/DocumentCenter/View/10831/Garland---approved-materials-list 2021-09-23?bidId=

- Utility Material Submittals
- Concrete Mix Design
- Traffic Control Plan submit for approval if you want to change the phasing or do differently than the approved plans.
- Staging area a release letter from property owner(s) no staging can be done until we receive a copy of this letter.

Submit to:
Leo Signey

LSigney@garlandtx.gov

Copy Inspector



Submittals

Approved Materials List at:

http://garlandtx.gov/DocumentCenter/View/10831/Garland---approved-materials-list 2021-09-23?bidId=



Home > Government > Departments E - G > Engineering > Capital Improvement Projects > Standard Construction Details

STANDARD CONSTRUCTION DETAILS

The below Book of Standard Details are effective for Private Development projects that were approved and had a Site Permit issued after October 1st, 2021. For project with Site Permits issued prior to that date, contact the Engineering Department at 972-205-2170 or email at DevEngineeringGroup@garlandtx.gov

View the Complete Book of Standard Details with current updates.

APPROVED MATERIALS LIST

The Approved Materials List for City of Garland are materials normally required for Public Works construction unless specifically changed in the approved construction documents. Separate submittals are not required for materials that specifically included on this list. Any variation or item not on this list may require a separate submittal to the Engineering Department for approval.

View the Garland - approved materials list_2021-09-23



SUMMARY OF REQUIREMENTS

- Trench Safety / Shoring Plan provide a copy per Item 39 on page SC-13.
- Provide a list of mechanical compactors for review and approval.
- Subgrade and Paving make sure necessary test and reports are completed
- Driveways ensure that it has positive drainage.
- Tree Protection notify Inspector for any potential conflicts or tree removal.
- Utility Locations contractor is responsible for locating all existing utilities and verification of conflicts.
- Property Owners provide ingress & egress at all times.

GARLAND

CONTRACT – Appendix C SUPPLEMENTAL STANDARD SPECIFICATIONS

- Item 1.22.1 Independent Contractor
- Item 1.22.2 Indemnification
- Item 1.22.5 Progress Schedule with Milestones (Critical Path Method)
- Item 1.36.1 Liquidated Damages
- Item 1.51.1 Monthly Pay Estimate 26th of month previous to the 25th of current month
- Item 1.51.2 Retainage
- Item 1.51.4 Final Payment With the final pay request, provide affidavit of bills paid and consent of surety to final payment.
- Incidental Pay Items, page SSS-9



CONTRACT SPECIAL CONDITIONS

- Item 3 Property Lines and Monuments
- Item 4 During Construction the Contractor shall at all times keep the site of the work and adjacent premises as free from material, debris, and rubbish as is practicable and shall remove the same from any portion of the site, if in the opinion of City, such materials or debris constitutes a nuisance or is objectionable.
- Item 6 Protection of Improvements
- Item 7 Accidents
- Item 9 Use of Fire Hydrants
- Item 14 Existing Utilities and Service Lines
- Item 16 Testing, Inspection, and Control Material Testing
- Item 18 Drainage
- Item 19 Construction in City Streets and Private Drives Contractor to build and maintain all weather bypasses and detours, if necessary ... etc.



CONTRACT SPECIAL CONDITIONS

- Item 20 Bond Project Signs Capital Improvement Sign
- Item 23 Maintenance of Storm Sewer and Utilities that cross existing roadways
- Item 29 Concrete Testing & Penalties
- Item 31 Salvaged Materials
- Item 32 Final Clean-up
- Item 33 Labor Preference
- Item 35 Liens, Affidavit of Bills Paid CONTRACTOR & SUBCONTRACTOR
- Item 37 Private Property Access
- Item 38 Construction Sequencing and traffic control plan contractor will provide proposed alternate plan sealed by PE registered in State of Texas
- Item 39 Trench Safety
- Item 40 Erosion Control
- Item 45 Mobilization, 50% after 10 work days & 100% after 25 work days



CONTRACT SPECIAL CONDITIONS

- Item 46 Construction Contingency
- Item 48 Estimated Quantities
- Item 53 Video of Work Site *submit to Inspector prior to start of project*



MONTHLY PAY REQUEST

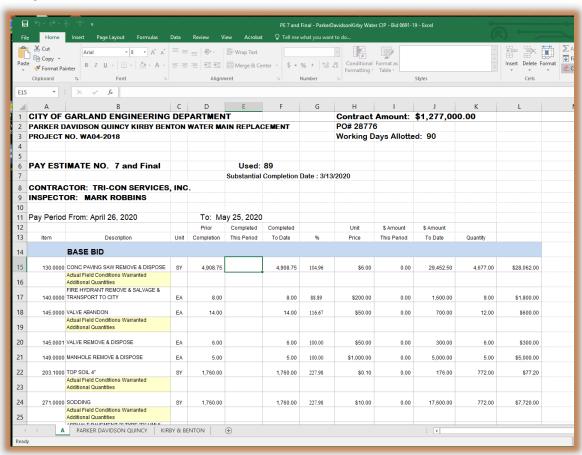
Excel Spreadsheet form will be provided

CONTRACTOR, PARKS DEPARTMENT, & PUBLIC WORKS INSPECTOR MUST AGREE ON QUANTITIES PRIOR TO SUBMITTING PAY REQUEST.

ONCE CONFIRMED, PARKS DEPARTMENT WILL PROCESS PAY REQUESTS.

SUBMIT TO:

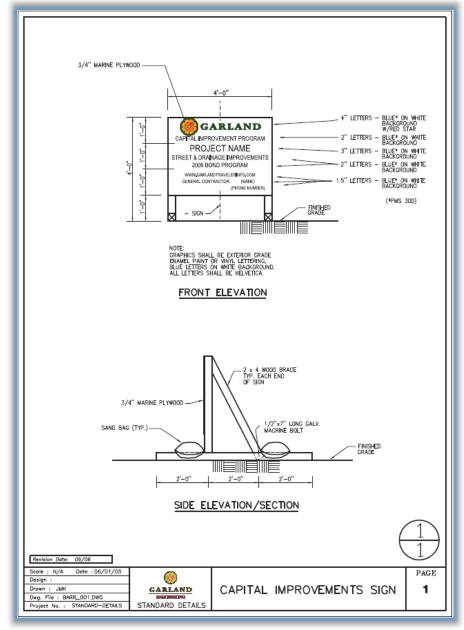
Mark Ellender_MEllender@garlandtx.gov





CAPITAL IMPROVEMENT SIGN

- SUBMIT PROOF FOR REVIEW AND APPROVAL PRIOR TO FABRICATION / INSTALLATION
- INSTALL AT PROJECT ENTRANCE
- VISIBLE FROM STREET
- DO NOT PLACE IN TRAFFIC'S LINE-OF-SIGHT





TRAFFIC BARRICADING DETAILS

IF REQUIRED FOR STREET WORK OR LANE CLOSURES:

Submit proposal for Review and Approval

Or use City Standard Detail at:

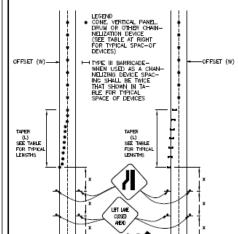
http://www.garlandtx.gov/DocumentCenter/View/440/Traffi



MINIMUM CONSTRUCTION WARNING SIGN SPACING

POSTED SPEED OR 85% SPEED	30 OR LESS	35	40	45	50	55
X MINIMUM DISTANCE (FT.)	120	160	240	300	400	500

BI FOR ROADS WITH A 55 MPH POSTED SPEED LIMIT, ADVANCE WARNING SISKS SHOULD BE PLACED APPROXMATELY 1,500 FEET IN ADVANCE OF THE CONDITION TO WHICH THEY ARE CALLING ATTEMPON, WHERE A SPIES OF ADVANCE WARNING SIGNS ARE USED, THE WARNING SIGN REAPEST THE WORK STE SHOULD BE PLACED APPROXMATELY 500 FEET FROM THE PORT OF PESTRICTION WITH THE ADDITIONAL SIGN AT APPROXMATELY 500—1000 FOOT INJETEMES.



TYPICAL TRANSITION LENGTHS AND SUGGESTED MAXIMUM SPACING OF CHANNELIZING DEVICES

		MINUMU TAPER	IM DES	IRABLE	SUGGESTED MAXIMUM SPACING OF DEVICE		
POSTED SPEED*	FORMULA	10° OFFSET	11' OFFSET	12" OFFSET	ON A TAPER	ON A TANGENT	
30		150'	165*	180"	30"	60'-75'	
35	L=\frac{\text{wS}^2}{60}	205	225	245	35"	70'-90'	
40		265'	295'	320'	40"	80'-100'	
45		450'	495'	540'	45"	90'-110'	
50	L=WS	500'	550'	600'	50"	100'-125'	
55		550'	605	660"	55"	110'-140'	
60		600'	715	780"	60"	130'-175'	

- 85TH PERCENTILE SPEED MAY BE USED ON ROADS WHERE TRAFFIC SPEEDS NORMALLY EXCEED THE POSTED SPEED LIMIT **TAPER LENGTHS HAVE BEEN ROUNDED OFF
- -POSTED SPEED (MPH

TYPICAL TRANSITION & SIGNING FOR DIVIDED ROADWAYS



GARLAND STANDARD DETAILS

CONSTRUCTION SIGNING AND BARRICADING DETAILS PAGE



To Obtain

FIRE HYDRANT CONSTRUCTION WATER METER:

UTILITY CUSTOMER SERVICE

CHARLES E. DUCKWORTH UTILITY SERVICES BUILDING

217 N. FIFTH ST.

972-205-2671

- Complete application for service
- PAY \$2,000.00¹ REFUNDABLE DEPOSIT + account establishment fee + monthly customer charge*
- Provide ACCURATE location of fire hydrant for installation by Water Department. The applicant is responsible for protecting Water Meter from freezing temperatures.
- Water Meter must be returned to Garland Water Utilities to obtain deposit.



CITY HOLIDAYS

OFFICES ARE CLOSED AND WORK WILL **NOT** BE ALLOWED ON THE FOLLOWING DAYS BELOW:

- Christmas December 25 & 26, 2023
- New Year's Day January 1, 2024



2024 City Holiday Dates

Excerpt from HR 6: Holiday and Leave Directive

The following are official paid holidays for City employees as of the signature date below.

New Year's Day, Martin Luther King, Jr. Day, Memorial Day, **Juneteenth**, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, a working day contiguous to Christmas as designated by the City Manager, and a personal floating holiday*.

Holiday Dates

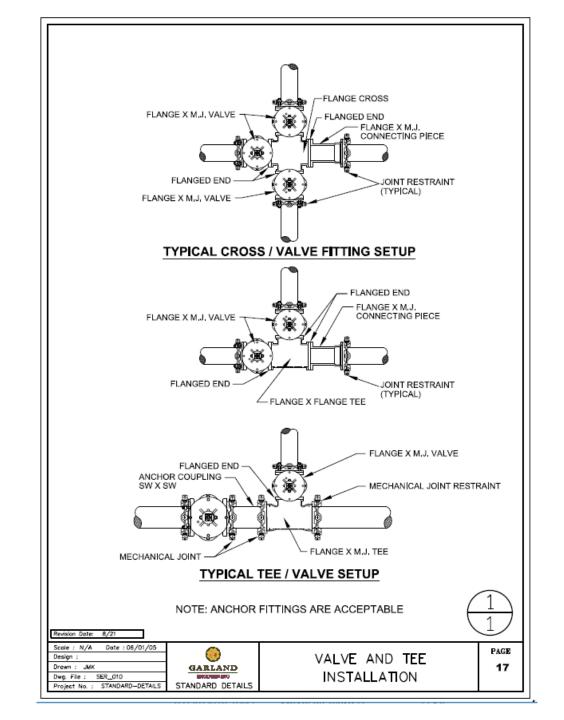
Holiday	City Holiday Date		
New Year's Day	Monday, 1-1-24		
Martin Luther King, Jr. Day	Monday, 1-15-24		
Memorial Day	Monday, 5-27-24		
Juneteenth NEW	Wednesday, 6-19-24		
Independence Day	Thursday, 7-4-24		
Labor Day	Monday, 9-2-24		
Personal Floating Holiday (For Fire Civil Service Personnel Only*)	Wednesday, 9-11-24		
Thanksgiving Day	Thursday, 11-28-24		
Friday after Thanksgiving Day	Friday, 11-29-24		
Christmas	Wednesday, 12-25-24		
Working day contiguous to Christmas	Thursday, 12-26-24		
New Year's Day	Wednesday, 1-1-25		

*In compliance with the Texas Local Government Code section 142.0013, covered firefighters shall receive a holiday designated as September 11th in lieu of a personal holiday.

Judson J. Rex	10/24/2023		
Jud Rex, City Manager	Date		



VALVE & TEE INSTALLATION







FAST & EASY & CLEAN-FINISH, PROVEN INSTALLATION - SYSTEM







2. Position TekTool Template



3. Remove 3/4" of concrete



Anchoring System
(Pat. Pending)



Protective Covering

4. Insert the bolts into nuts on back of tiles



5. Apply 1/8" bonding mortar



6. Install into 'fresh' concrete

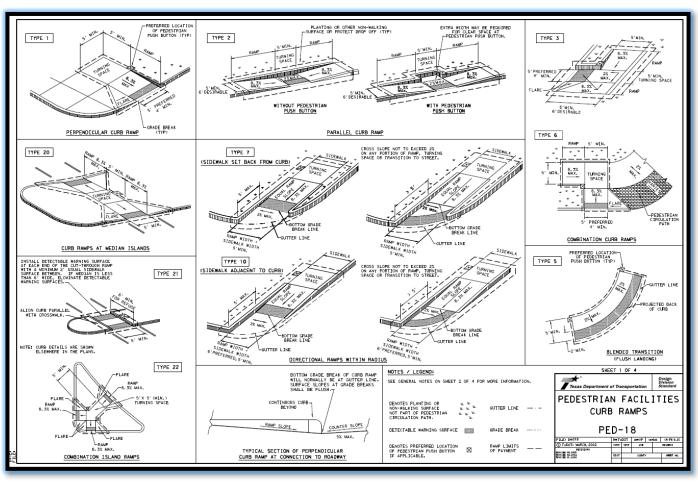


7. Remove protective covering

To order call 1-866-439-3216 or email at csd@stronggo.com StrongGo Industries, 3296 E Hemisphere Loop, Tucson, Arizona, 85706

BARRIER-FREE RAMP

TXDOT PED-18 Detail





WATER METER COMPONENT -ERT

(Encoder Receiver Transmitter – mounted on Water Meter Box Lid)





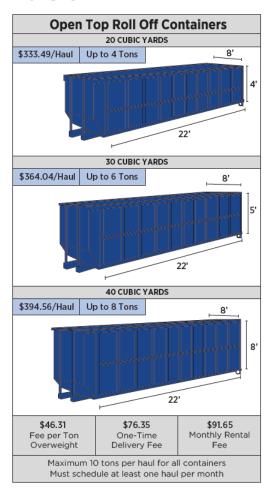


Commercial Containers and Services

- Garland Sanitation can supply your project with 20, 30 or 40 cubic yard roll offs.
- Container delivery and pulls usually done within 24-48 hours.
- Must use approved franchise hauler Click <u>here</u>

Garland Sanitation 972-205-3500 ext. 2

<u>SanitationCommercial@GarlandTX.gov</u> <u>www.GarlandSanitation.com</u>

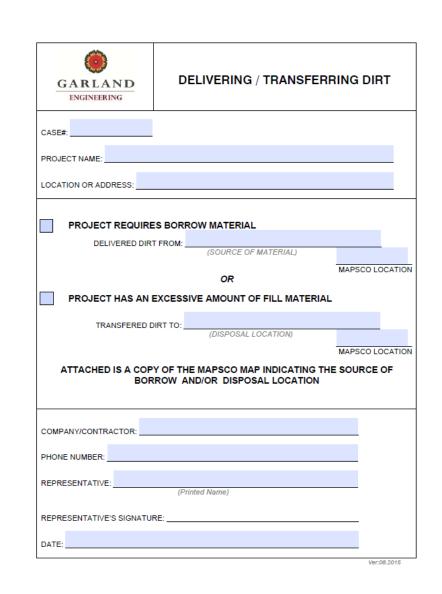




DELIVERING / TRANSFERRING DIRT form for STORMWATER MANAGEMENT

Submit to:

Leo Signey & Public Works Inspector LSigney@garlandtx.gov





UTILITY LOCATES:

https://call811.com/

CALL 811 TO SCHEDULE FOR LOCATES



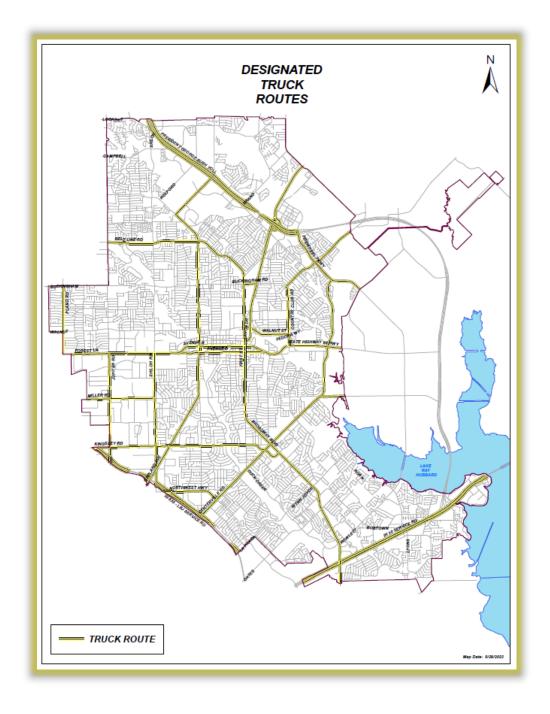






Truck route

FOLLOW ROUTES TO AVOID TRAFFIC CITATION





CONSTRUCTION

PRIOR TO STARTING WORK:

Contact Public Works Inspector



GENERAL SEQUENCE OF CONSTRUCTION

- Placement of Capital Improvement Sign
- Install Erosion Control Plan Implementation-reports required weekly
- Electronic Message Board Placed one week in advance of Construction Activities Approval Required on placement, and what needs to be on it.(Placed during any major traffic switch)
- Tree Removal/Protect if required contact Engineering Inspector
- Construction notices letters passed out-reflecting Contractor Information, start date, City Inspector contact information, etc.
- Earthwork & Excavation Utility Work Proctor & Density Reports
- Water if required Hydrostatic Test & Bacteriological Test
- Sanitary Sewer if required Air Test, Mandrel, Video (pan & tilt view), Manhole Vacuum Test
- Storm Sewer if required
- Paving Batch design, compressive strength test,2" Depth checks verification
- Subgrade Proctor, compaction test-meet City requirements



RECORD DRAWING REQUIREMENT GDC Section 3.111(A)(1)

- CONTRACTOR AND INSPECTOR TO KEEP TRACK OF PLAN CHANGES.
- INSPECTOR TO RECONCILE AS-BUILT DRAWING WITH CONTRACTOR AT PROJECT CONCLUSION.

Garland Development Code

to accommodate actual site conditions differing from that shown on the approved plans: for details not consistent or equivalent to the latest revision to the City's Technical Standards; and, to accommodate omissions on the approved plans. Any significant change in design required during construction shall be made by the applicant's engineer, and shall be subject to approval by the Director of Engineering.

- (3) If the Director of Engineering finds upon inspection that any of the required public improvements have not been constructed properly and in accordance with the approved Site Engineering Drawings, the applicant shall be responsible for correcting and completing the public improvements. The applicant or contractor shall maintain daily contact with the City inspector during construction of improvements. No public wastewater, water or storm sewer pipe shall be covered without approval of the City inspector. No subgrade material, stabilization or paving shall be applied in public rightof-way without approval of the City inspector. The inspector may at any time cause any construction, installation or maintenance of improvements to cease when, in his judgment the City's Technical Standards have been violated and may require reconstruction or other work, as may be necessary, to correct the violation.
- (4) A fee as set forth in section 50.33 of the City Code, shall be paid by the builder for the setting of a water meter for each lot in a subdivision. Such fee shall be paid at the time of the application for the Building Permit for each lot.
- (5) Temporary water service for house construction shall be provided after a water meter is set (direct connection to the water tap is not allowed). A fee as set forth in Section 30.301 of Chapter 30, "Building Inspection," of the City Code, shall be paid for each temporary service. Temporary water service shall not continue for more than one hundred twenty calendar days following the date of its initial installation. Temporary water service shall be discontinued when final inspection is made on the house.
- (B) Maintenance During Construction. The applicant shall be responsible for maintaining all required public improvements during construction of the development.

Section 3.111 Acceptance Following Construction

- (A) Submission of As-Built Plans or Record Drawings
 - (1) As-Built Plan Submission. The City shall not accept dedication of required public improvements until the applicant's engineer has certified to the Director of Engineering, through submission of a detailed as-built/record drawings of the property and any off-site easements, the location, dimensions, materials, and other information establishing that the public improvements have been built in accordance with the approved Site Engineering Drawings. Each as-built or record drawing sheet shall show all changes made in the plans during construction, and on each sheet, there shall be an "as-built" or "record" stamp bearing the signature of the engineer of record and date. Detailed requirements for such drawings shall be in accordance with the requirements set forth in the City's Technical Standards.



FINAL PAYMENT

- TDLR Inspection and acceptance for ADA Compliance.
- Final walk-through and Inspection with required Departments Typically Street Department, Water Department, Transportation Department, Parks & Recreation Department, and Garland Power & Light
- Agreement of Measureable quantities between the Contractor & Inspector, i.e. concrete pavement, water, sewer, storm sewer item related to the Contract Bid Items.
- Staging Area cleaned up and restored, provide a copy of property owner's release of claim.
- Record Drawing requirement Design Engineer will meet with the Contractor and City Inspector to review as-built conditions. Engineer prepares as-builts/record drawing – in CADD File and PDF. Submit record drawing to Inspector for verification and acceptance. Record drawings are used to update the City's GIS Map.
- SWPPP N.O.T. provide copy of Notice of Termination, if required.
- Monumentation Verification requirement if necessary contact the City Surveyor
- Contractor to submit request for Final payment
- Affidavit of Bills Paid
- Consent of Surety to Final Payment



Questions & Answers



THANK YOU FOR YOUR ATTENDANCE

and

GOOD LUCK ON YOUR
PROJECT