EAST BAY MUNICIPAL UTILITY DISTRICT

EBMUD
Pre-Construction Meeting Agenda
Contractor Installed Clean Utility Corridors for Service Laterals and Hydrants

Date:

Meeting Location:

Applicant Agreement:

Tract:

Applicant:

Contractor:

Engineer:

People Present: Sign attendance sheet and Introductions

OVERVIEW OF PROJECT DRAWINGS AND PLANS

- Has the governing local regulatory oversight agency provided final approval of the Clean Utility Corridor Installation Plan, or has an equivalent approved plan been provided and approved by EBMUD Regulatory Compliance Office?
- Will a Qualified Environmental Professional (QEP) be required to oversee and document the work?
- Will there be stamped, or, decorative concrete, concrete pavers, or concrete valley gutter on this project? If so what locations:
- Status of project grade, what utilities are in?
- Any known contaminated soil? If so, how has it been addressed?
- Identify Connections and Feed

CONTRACTOR'S CONSTRUCTION PLAN

Contractor's schedule:

Water pipeline and/or service lateral including CUC's start date:
Working hours / weekends:

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Overtime: Sequence of work:

Overtime: When planning weekend work notify the District Area Service Center contact, by Wednesday afternoon. Overtime construction work performed at the option of, or for the convenience of the Applicant will be inspected by the District at the expense of the Applicant and will be billed to and paid for by the Applicant on a periodic basis.

Night Work, Weekend and Holiday work need to be coordinated in advance.

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REQUIRED SUBMITTALS

PRIOR TO START OF PIPELINE CONSTRUCTION, COMPLIANCE WITH THE FOLLOWING PRECONSTRUCTION REQUIREMENTS ARE NECESSARY - SECTION 1000.1-1.2. ALL SUBMITTALS MUST BE PROVIDED AND APPROVED PRIOR TO CONSTRUCTION OF CLEAN UTILITY CORRIDOR.

FURNISH TO DISTRICT AREA SERVICE CENTER CONTACT:

☐ **Competent Persons:**
Furnish written designation of competent persons working on the job site along with a current competent person training certification in regard to trench and excavation safety.

☐ **Qualified Environmental Professional(s) (QEPs):**
Applicant is responsible for complying with all regulatory oversight requirements and reporting per the approved Clean Utility Corridor (CUC) Installation Plan (or approved equivalent plan). When necessary, the Applicant will provide a QEP to provide oversight and documentation according to the plan and to confirm worker health and safety.

The QEP shall have working knowledge of Federal, State, and local laws and regulations governing environmental compliance including hazardous materials management and disposal requirements. The QEP shall also have experience conducting environmental investigations including applicable methods and techniques of environmental sampling, analysis, and modeling.

☐ **Clean Utility Corridor (CUC) Installation Plan:**
Provide a CUC installation plan as approved by the regulatory oversight agency if applicable.

☐ **Worker Protection Plan/Site Safety Plan**
Applicant shall furnish a site safety plan if known safety or environmental contamination hazards are present, or suspected, for all workers and the general public.

☐ **Permits and Certifications:**
Obtain all necessary permits (City and OSHA) and Certifications (HAZWOPER) for doing work and provide copies to the District. In the case where the requirements of a permit are inconsistent with the those established by the District, the more stringent requirement shall apply.

☐ **Traffic Control Plans:**
Applicant shall furnish copies of the approved traffic control plans with permit.

☐ **Material Submittals:**
Furnish manufacturer's affidavit stating that materials delivered to the site meet the District specifications.

- Backfill Class 1 (Sand) and Class 2 (3/4 Aggregate Base/Rock)
- Demarcation fabric to line CUC trench

1. Propex, Geotex 601 Orange DND or Geotex 801 Orange DND
2. Tencate, Mirafi 160NO
3. Carthage Mills, FX-60HS Orange or FX-80HS Orange
4. District furnished. Approved fabric may be purchased from the District.

- Warning/Identification Tape (for services larger than 3 inches or hydrants)

☐ **Backfill Materials:**

Furnish required samples of backfill materials, to be imported. Submit product data sheets for preliminary review. Upon conditional approval, submit 50lb samples to Materials Testing Laboratory located at 1100 21st Street, Oakland. Prior to delivery, call (510) 287-1990 between 8:00 a.m. and 10:00 a.m. to make an appointment.

Source of Class I/Sand (no marine-based product is permitted): _____

Source of Aggregate base: _____

☐ **Geotechnical Report (To be provided after trench construction):**

Geotech report shall be provided showing trench compliance with CUC Standard Drawing 9950-GB, Spec 31 23 33P, and City permit conditions. Signed and stamped compaction certification letter sent by geotechnical engineer certifying compaction completed per District Standards after completion of work shall be provided.

RELATED SECTIONS

Survey

Survey stakes shall be established by a California licensed land surveyor and shall indicate cut/fill to top of curb/finish grade elevation.

Survey for Services:
Subgrade if in planter box area or top of curb if in sidewalk.
Two elevation stake stations on each side of centerline of meter no more than 5 ft from center of meter.
Meter box should be set 6" back of walk when installed in planter box.

Survey for Hydrants:
Each fire hydrant shall have offset staking with cut/fill to top of curb or finish grade. Set two stakes (straddlers) at a maximum of 10' perpendicular to hydrant run.

Applicant shall ensure that the centerline of each fire hydrant maintains proper setback distances from face of curb (**20"-24"**), back of sidewalk (**12"-16"**) if walk is less than 6' wide, and edge of driveway (5'). Hydrants shall be set **5" to 6"** above finish grade at hydrant. Costs to relocate hydrants shall be borne by the applicant.

Carefully preserve all survey stakes and reference points and keep them accessible during the construction of the pipeline.

Backfill and Compaction -- Section 02316.1

Applicant is responsible for hiring a soils or geotechnical engineer to perform all necessary tests for compaction, in accordance with CSS Section 26, and as required by the agency having jurisdiction. Test results shall be available to District Area Service Center upon request.

Install aggregate base backfill material where excavation is in a paved public road unless otherwise specified by the agency having jurisdiction.

No motor driven mechanical compacting equipment in excess of 1000 pounds shall be used over pipelines until the backfill has been compacted to 24" over the crown of the pipe.

Remove loose material and rocks from bottom of trench.

Place 3" class 1 pipe bedding. If more than 6" then compaction is required prior to placing pipe in trench.

Place class 1 bedding around pipe and between 6" and 12" above.

Native backfill material shall be approved by the District Area Service Center contact and shall be free of organic and other unsuitable materials and shall not have masses larger than 3".

Geotech report shall be provided showing trench compliance with CUC Standard Drawing 9950-GB, Spec 31 23

33P, and City permit conditions. Signed and stamped compaction certification letter sent by geotechnical engineer certifying compaction completed per District Standards after completion of work shall be provided upon request by District Area Service Center.

Public Safety -- Section 01000.1-1.0SC

Provide all necessary safety equipment and manpower to safely manage the work site that protects the general public during all phases of the project.

Excavation Safety -- Cal OSHA permit required

District Area Service Center workers will not perform inspections in unsafe conditions and will notify the Applicant when they have safety concerns.

All excavation work and all work in the vicinity of an excavation shall be in full conformance to Article 6, Excavations of the Construction Safety Orders, in addition to applicable safety requirements.

Designate in writing along with certification one or more individuals as a competent person. Written designation shall certify that each designated competent person has training, knowledge, and authority required of a competent person under Article 6, Excavations of Construction Safety Orders.

All excavations greater than 5 feet in depth, or where the hazard of a potential cave-in exists, shall have a protective system to prevent earth movement Protective systems shall, at a minimum, conform to Cal/OSHA standards for sloping and benching, or for timber or aluminum shoring for trenches; all shall be constructed in accordance with tabulated data as allowed by article 6 of the Construction Safety Orders.

Contaminated Soils 02221.1-1.04Cl

If contaminated soils are known, suspected, or encountered, see General Conditions, No. 10, for Applicant's responsibility.

Immediately notify District Area Service Center contact of presence or suspected presence of contaminants. Notification is for safety of District personnel, contractor's personnel, and the general public.

Excavations -- Section 02316.1 -- In existing paved roads

Notify city, county or state, three working days prior to work when survey monuments will be disturbed.

Saw cut pavement as required by permit. Properly dispose of A.C. slurry required by the agency having jurisdiction.

Store materials to minimize obstruction to traffic.

Trench shall be backfilled, compacted, and paved at the end of the day's work where excavation is in public road.

Sloping side of the trench excavation will not be permitted in public streets.

Existing improvements of any kind shall be fully protected from damage.

Pavement Replacement -- Section 02500.1

Replace all cut or damaged street pavement sections, curbs, gutters, driveways, and sidewalks following the completion of pipeline trench backfill.

Install or replace structural pavement section (pavement and base materials) to match the existing section or as required by the local agency permit.

Repair all pavement damaged by the work to "as found" or better condition.

Temporary Pavement:

The surface of the trench shall be relatively smooth and maintained at all times at a grade level with the adjacent existing paving.

Maintain inspection of trench areas; place and maintain warning lights and barriers where unsafe conditions exist.

Place temporary asphaltic plant mix (cutback) on trench surface immediately after backfilling has been completed; minimum thickness shall be 1 1/2-inches.

Permanent Pavement:

Install permanent replacement pavement within 14 calendar days after the backfill and all other work in the area to be paved is completed.

The thickness of permanent pavement shall be equal to the adjacent permanent pavement thickness, minimum thickness shall be 2 inches or as required by the local agency permit, whichever is larger.

Conform to CSS 39 and applicable city/county specifications for asphalt concrete installations.

Replace all removed or destroyed street markings.

Utilities -- Section 02316.1

The Applicant is responsible for having all underground utilities and structures located by the owners in advance of excavation.

Notify all known owners of underground utilities in area of proposed work and Underground Service Alert (U.S.A.) at least two workdays before start of actual work; update (USA) as needed. Worker's protection is provided as required by Cal/OSHA.

Field verify that all utilities shown on drawings or street trench scars seen along alignment are identified prior to excavation in area.

Hand excavation is required within 24" on either side of the exterior surface of any underground utility.

If utility is damaged immediately notify the utility owner and District Area Service Center contact. For a gas leak notify Fire Dept. and shutdown equipment and take appropriate actions.

Flushing, Chlorinating, Sampling, Dechlorinating, and Disposing

District will not perform flushing, chlorinating, or sampling on weekends, District holidays or after 4:30pm.

All flushing, chlorinating, and sampling shall be performed by the District Area Service Center and performed in compliance with AWWA C651, EBMUD standard specifications, and federal, state, and local agencies as their rules apply to water discharge regulations.

Take the necessary precautions to comply with all water discharge regulations of the Department of Fish and Game, Regional Water Quality Control Board, and federal and local agencies (especially) when discharging dechlorinated water into storm drains, creeks, channels, and water courses.

Take the necessary precautions to prevent any erosion along the water discharge flow or cause sedimentation to enter into the watercourse or storm inlet.

Fire Hydrant Installation -- Section 02511.1-3.2

All fire hydrants shall be installed by District Area Service Center per standard drawing 9496-GB with 6" ML&PCS steel (material furnished by the District).

Applicant shall ensure that each fire hydrant maintains proper setback clearance from the face of curb (**20"-24"**), back of walk (**12"-16"**) and edge of driveway (driveway clearance 5' minimum) and **5" to 6"** above finish grade at hydrant by reviewing improvement drawing submitted to District.

Hydrants shall be bagged until main has passed water quality testing and is placed in service.

Coordination with District Crews

District crews will be fully supported when on site to make service transfers, connections, kills and hydrant installations.

This includes the contractor completing and backfilling all required excavations, shoring, providing traffic control and removing (and replacing) plates.

The scheduling of service installations or kills and hydrant installations will be based on the availability of District crews. The availability of District crews is not guaranteed as District has responsibilities to respond to unforeseen emergences such as main breaks.