

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

OFFICE ENGINEER

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*Serious Drought.
Help save water!*

July 15, 2016

06-Fre,Mad-41U-33.1/33.4,0.0/0.3

06-ON9904

Project ID 0612000114

ACNHP-P041(599)E

Addendum No. 1

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN FRESNO AND MADERA COUNTIES NEAR FRESNO FROM 0.1 MILE NORTH OF PERRIN ROAD UNDERCROSSING TO 0.1 MILE SOUTH OF AVENUE 9 UNDERCROSSING to revise the project plans, the *Notice to Bidders and Special Provisions*, the *Bid* book, and the Federal Minimum Wages with Modification Number 6 dated 07/08/2016.

Submit bids for this work with the understanding and full consideration of this addendum. The revisions declared in this addendum are an essential part of the contract.

Bids for this work will be opened on Wednesday, July 27, 2016.

Project plan sheets 1, 2, 4, and 14 are replaced and attached for substitution for the like-numbered sheets.

In the *Notice to Bidders*, the seventh paragraph is revised as follows:

"The Contractor must have either a Class A license or any combination of the following Class C licenses which constitutes a majority of the work: C-8, C-12, C-32."

In the Special Provisions, Section 1-1.01, is replaced as attached.

In the Special Provisions, Section 13-12, is added as attached.

In the Special Provisions, Section 39-1.01, is replaced as attached.

In the Special Provisions, Section 39.2, is replaced as attached.

In the *Bid* book, in the "Bid Item List," Items 12, 59 and 60 are replaced.

To *Bid* book holders:

Inquiries or questions in regard to this addendum must be communicated as a bidder inquiry and must be made as noted in the *Notice to Bidders* section of the *Notice to Bidders and Special Provisions*.

*"Provide a safe, sustainable, integrated and efficient transportation system
to enhance California's economy and livability"*

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Submit the *Bid* book as described in the *Electronic Bidding Guide* at the Bidders' Exchange website.

http://www.dot.ca.gov/hq/esc/oe/electronic_bidding/electronic_bidding.html

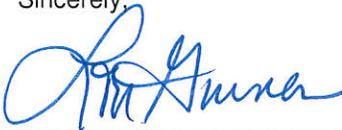
Inform subcontractors and suppliers as necessary.

This addendum, EBS addendum file, attachments and the modified wage rates are available for the Contractors' download on the Web site:

http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/06/06-0N9904

If you are not a *Bid* book holder, but request a book to bid on this project, you must comply with the requirements of this letter before submitting your bid.

Sincerely,



SHARRI BENDER EHLERT
District Director
District 6 Central Region

Attachments

Add to section 1-1.01:

Bid Items and Applicable Sections

Item code	Item description	Applicable section
031258	TEMPORARY DEWATERING AND NON-STORM WATER DISCHARGE CONTROL SYSTEM	13
031259	BIRD AND BAT EXCLUSION DEVICES	14
045316	CARBON FIBER REINFORCED POLYMER STRIP	15
045317	MISCELLANEOUS METAL (PIPE EXTENDER)	75
045318	TUBULAR BICYCLE RAILING	83

Replace section 13-12 with:

13-12 TEMPORARY DEWATERING AND NON-STORM WATER DISCHARGE CONTROL SYSTEM

13-12.01 GENERAL

13-12.01A Summary

Section 13-12 includes specifications for designing, installing, operating, monitoring, maintaining, and removing temporary dewatering and non-storm water discharge control system (TDNWCS) for the collection, conveyance, treatment and disposal of groundwater and accumulated stormwater from excavations or other areas requiring dewatering including impounded construction site water, water resulting from piling work, and stormwater combined with groundwater.

Design, installation, operation, and monitoring of a TDNWCS effluent must comply with attachment F of NPDES general permit for storm water discharge associated with construction and lead distribution activities (Order No.2009-0009-DWQ,NPDES No. CAS000002).

You may discharge into a publicly owned treatment works system instead of using a TDNWCS. If contaminated groundwater, stormwater, or both are discharged to a publicly owned treatment works, obtain a municipal batch discharge permit. You are responsible for all costs and requirements related to obtaining the municipal batch discharge permit and discharging the water.

13-12.01B Submittals

13-12.01B(1) Temporary Dewatering and Non-storm Water Discharge Control System Plan

Within 20 days of Contract approval, submit 3 copies of your TDNWCS plan for review. The Engineer provides comments and specifies the date when the review stopped, if revisions are required. Change and resubmit a revised TDNWCS plan within 15 days of receiving the Engineer's comments. The Department's review resumes when a complete TDNWCS plan has been resubmitted.

When the Engineer authorizes the TDNWCS plan, submit an electronic copy and 4 printed copies of the authorized TDNWCS plan.

If the Engineer requests changes to the TDNWCS plan based on the State Water Resources Control Board's or RWQCB's comments, amend the TDNWCS plan within 5 business days.

The TDNWCS plan must include:

1. Title sheet.
2. Table of contents.
3. Certification and approval sheet described in the Department's *Storm Water Prevention Plan (SWPPP) and Water Pollution Control Plan (WPCP) Preparation Manual*.
4. Amendment log and format described in the Department's *Storm Water Prevention Plan (SWPPP) and Water Pollution Control Plan (WPCP) Preparation Manual*.
5. Description and schedule of the discharge activities.
6. Discharge alternatives, including:
 - 6.1. Dust control
 - 6.2. Percolation
7. Treatment system description and components.
8. Anticipated flow rates
9. Operation and maintenance manual for equipment.
10. Monitoring, sampling, and reporting plan, including quality assurance and quality control.
11. Health and safety plan.
12. Spill prevention plan.

13. Field-recorded data, visual inspection, calibration procedures, and examples of logs.
14. Measuring equipment descriptions.
15. Shop drawings showing:
 - 15.1. Section and plan views of non-stormwater effluent treatment systems
 - 15.2. Location of sampling points for water quality measurements
 - 15.3. Flow path and placement of pipes, hoses, pumps, holding tanks, and other equipment used to convey water
 - 15.4. General position of treatment components relative to excavations or other areas requiring dewatering
 - 15.6. Section and plan views of non-stormwater effluent treatment systems
 - 15.7. Point of non-stormwater discharge
16. Daily inspection report form. The daily inspection report must include:
 - 16.1. Discharge volumes
 - 16.2. Water quality monitoring records
 - 16.3. Discharge point information that includes:
 - 16.3.1. Date and time
 - 16.3.2. Weather conditions, including wind direction and velocity
 - 16.3.3. Presence or absence of water fowl or aquatic wildlife
 - 16.3.4. Color and clarity of the effluent discharge
 - 16.3.5. Erosion or ponding downstream of the discharge site
 - 16.3.6. Photographs labeled with the time, date, and location
17. Municipal batch discharge permit from a publicly owned treatment works if required.
18. Coagulant pollution prevention plan with the TDNWCS plan if you use chemical coagulants, in-line flocculants, or both, in the treatment system. Chemical coagulants and flocculants proposed for use in TDNWCS must comply with all provisions under "Active Treatment System (TDNWCS) Requirements" within Attachment F Provisions D and E, in the NPDES *General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities (Order No. 2009-0009-DWQ, NPDES No. CAS000002)*. The coagulant prevention work plan must include:
 - 18.1. Description of BMPs to prevent accidental spillage, overfeeding into the treatment system, or other mishandling of coagulant agents
 - 18.2. Monitoring plan for all coagulants, flocculants, or both
 - 18.3. Description of the agents, including chemical and trade names
 - 18.4. Determination of acute and chronic toxicity for aquatic organisms conforming to EPA methods for the agents
 - 18.5. Monitoring plan to detect a residual agent at concentrations at or below established acute toxicity levels for freshwater and marine conditions for that agent

13-12.01B(2) Notice of Discharge Report

Whenever observations or measurements confirm that a residual chemical or water quality standard is exceeded:

1. Submit the notice of discharge within 48 hours after exceeding the limits
2. Document the reasons for exceeding the water quality standard and any corrective work performed to prevent a recurrence in the notice of discharge

13-12.01B(3) Other Active Treatment System Submittals

If the TDNWCS discharges treated effluent, submit a daily inspection report within 24 hours.

Submit records of delivery and removal of TDNWCS components.

13-12.01C Quality Control and Assurance

A residual chemical for coagulants must be less than 10 percent of the maximum allowable threshold concentration for the most sensitive species.

Discharges from a TDNWCS must comply with applicable permits.

13-12.02 MATERIALS

13-12.02A General

A TNDWCS must be designed for the site conditions and anticipated flow rate and must include (1) a treatment system, (2) a collection and conveyance system, and (3) a discharge method and location.

13-12.02B Treatment System

Primary and secondary treatment may be required, or the design of the treatment system may require combined use of the various treatment components in series to achieve effective treatment. The treatment system must have components to:

1. Remove sediment, and turbidity-producing suspended solids. Components may include desilting basins, weir tanks, settling tanks, sediment traps, gravity bag filters sand media filters, pressurized bag filters, cartridge filters, in-line chemical coagulants and flocculants, activated clay filters, activated carbon filters or any combination necessary to provide primary and secondary treatment.
2. Adjust pH or dissolved oxygen by:
 - 2.1. Addition of sulfuric, phosphoric, citric, or nitric acid under the supplier's specifications for treatment of water with high pH. You may use hydrochloric acid if the water is dechlorinated before discharge.
 - 2.2. Filtration through a limestone bed or addition of sodium hydroxide for treatment of water with a low pH. You may use carbon dioxide diffusion that produces carbonic acid for pH adjustment.
 - 2.3. Aeration for treatment of water with low dissolved oxygen.

13-12.02C Collection and Conveyance System

Provide pumps and piping to convey the water from the point of dewatering or stormwater capture to the treatment system and to the point of discharge. Pumps and piping must comply with section 74-2.

Use a flow meter to measure all discharges from treatment activities.

13-12.02D Temporary Holding Tank System

Store water pumped during dewatering activities that is not diverted to TNDWCS will be stored in temporary holding tanks placed at the work area.

Use temporary holding tanks including transportable closed-top holding tanks or tanker trucks. Provide a sufficient number of holding tanks based on:

1. Anticipated flow rate of treatment system
2. Pumping rates
3. Capacity inefficiencies due to sediment retention within the holding tanks
4. Sediment settling rates
5. Sediment removal frequency
6. Anticipated water loss or reuse rates

Temporary holding tanks must have holding capacity sufficient to handle the water removed from dewatering activities and to prevent delay of work.

Each temporary holding tank must have an inlet and outlet capable of receiving and discharging flows at a sufficient rate to handle the water removed from dewatering activities. Maintain a minimum freeboard of 1 foot in each of the temporary holding tanks at all times. Clean the holding tanks when 25 percent of the tank's volume is filled with sediments.

13-12.02E Discharge Method

Provide a method for discharging treated water or uncontaminated ground or surface water and include a discharge location. Do not discharge treated water in a way that impacts the natural bedding and aquatic life.

Discharge treated water:

1. To control dust in active work areas.

13-12.03 CONSTRUCTION

13-12.03A General

Maintain the TDNWCS to provide required function and prevent leaks. Whenever a component of the system is not functioning properly, discontinue treatment activities and repair or replace the component.

Sediments removed from uncontaminated areas during maintenance of the treatment system must be dried, distributed uniformly, and stabilized at a location within the project limits where authorized. Remove contaminated sediments from the job site to a waste management facility licensed to receive such sediments under section 5-1.20B(4).

Relocate the TDNWCS as needed.

13-12.03B Monitoring

13-12.03B(1) General

While the system in operation, monitor in conformance with the Monitoring and Reporting Program included in Attachment E of the Order R2-2012-0012 for discharging treated water.

If a batch discharge permit is obtained from a POTW, comply with the provisions contained in the batch discharge permit, including all monitoring and reporting requirements.

Monitoring equipment for the TDNWCS must record data at least once every 15 minutes. Cumulative flow data must be recorded daily. The recording system must have the capacity to record a minimum of 7 days of continuous data.

Monitoring equipment must be interfaced with the control system of the TDNWCS to provide shutoff or recirculation whenever effluent readings exceed limits for applicable constituents. The control system must default to recirculation or shutoff during a power failure or other catastrophic event.

The control system must control the dose of the coagulant, flocculent, or both to prevent overdosing.

Comply with the manufacturer's instructions for the use and calibration of meters and devices for taking water quality measurements. Perform calibrations in the presence of the Engineer.

13-12.03B(2) Flow Rate Monitoring

Flow meter must be used to measure all excavation discharges.

Record the flow-meter totalizer readings and compute average daily volumes for every day that dewatering is performed.

13-12.03C Inspection

13-12.03C(1) General

While TDNWCS is being operated, document the results in the Daily Inspection Report (DIR). In developing the DIR, refer to the Department's Dewatering Guide. The DIR form must be approved by the Engineer before use. The DIR must be provided weekly or as directed to the Engineer.

All information and recorded data collected or submitted as part of the DIR must be certified as true and accurate and signed by those who gather the information.

13-12.03C(2) Visual Inspection

During each day of discharge, perform daily inspection of the effluent at the discharge site and include, in the DIR.

Take photographs of the discharge point and areas downstream of the discharge location and include in DIR.

13-12.04 PAYMENT

Not Used

Add to the table in the 1st paragraph of section 39-1.01D(8)(c)(ii) of the RSS for section 39:

Coarse durability index	AASHTO T 210	1 per 3,000 tons or 1 per paving day, whichever is greater
Fine durability index	AASHTO T 210	1 per 3,000 tons or 1 per paving day, whichever is greater

Add between "single" and "test" in the 8th paragraph of section 39-1.01D(9)(a) of the RSS for section 39:
aggregate and HMA mixture

Replace the 2nd paragraph in section 39-2.01A of the RSS for section 39 with:

Produce Type A HMA using an authorized warm mix asphalt technology, except the water injection technology is not allowed.

Replace the paragraphs in section 39-2.01C(2) of the RSS for section 39 with:

The JMF must be based on the Superpave HMA mix design system as described in the MS-2 Asphalt Mix Design Methods by the Asphalt Institute.

For a Type A HMA mixture using RAP substitution greater than 15 percent of the aggregate blend, the asphalt binder grade from the HMA mixture must comply with the binder grade specified in section 39-2.02C. The HMA mixture binder grade must not be stiffer than the PG binder grade specified and must be determined by blending charts for high, intermediate, and low critical temperatures. Original binder requirements, ductility requirements, and footnote d in the table in the 1st paragraph in section 92-1.02B do not apply in the determination of the HMA mixture binder grade using blending charts.

Add to section 39-2.01C(3) of the RSS for section 39:

For RAP substitution greater than 15 percent of the aggregate blend, submit blending calculation sheets and blending charts for high, intermediate, and low critical temperatures. The blending calculation sheets and blending charts must be based on the MS-2 Asphalt Mix Design Methods by the Asphalt Institute. You may use critical temperatures of virgin binder or the maximum theoretical critical temperature of the PG grade of the virgin binder. Critical temperatures must be in whole degree. The calculation sheets must be sealed and signed by an engineer who is registered as a civil engineer in the State or by the AMRL-AASHTO-accredited laboratory manager responsible for the calculations and blending charts.

Add to the table in the 1st paragraph of section 39-2.01D(2)(b) of the RSS for section 39:

Coarse durability index	AASHTO T 210	1 per 3,000 tons or 1 per paving day, whichever is greater
Fine durability index	AASHTO T 210	1 per 3,000 tons or 1 per paving day, whichever is greater

Add between the heading and the 1st paragraph of section 39-2.01D(2)(c) of the RSS for section 39:

39-2.01D(2)(c)(i) General

Section 39-2.01D(2)(c) applies to Type A HMA mixtures using RAP substitution greater than 15 percent of the aggregate blend.

39-2.01D(2)(c)(ii) Reclaimed Asphalt Pavement Stockpiles

Add to section 39-2.01D(2)(c) of the RSS for section 39:

39-2.01D(2)(c)(iii) Virgin and Recovered Reclaimed Asphalt Pavement Binder

Perform solvent extraction of RAP binder under AASHTO T 164, Method A, and recovery under AASHTO R 59 or ASTM D1856. Test the quality characteristics of the recovered RAP binder under the test methods and frequencies shown in the following table:

Quality characteristic	Test method	Minimum testing frequency
Critical temperatures of RAP binder	AASHTO T 315 and AASHTO T 313	1 per project if RAP is not augmented or 1 per 500 tons of augmented RAP

If you use critical temperature of virgin binder in blending charts, test the quality characteristics of the virgin binder under the test methods and frequencies shown in the following table:

Quality characteristic	Test method	Minimum testing frequency
Critical temperatures of virgin binder	AASHTO T 315 and AASHTO T 313	1 per 5 paving days or 1 per project, whichever is greater

Determine the blended binder grade using blending charts under the MS-2 Asphalt Mix Design Methods by the Asphalt Institute each time the critical temperatures are determined.

Add to the table in item 1 in the list in the paragraph of section 39-2.01D(5) of the RSS for section 39:

Coarse durability index (D_c , min)	AASHTO T 210	65
Fine durability index (D_f , min)	AASHTO T 210	50

Replace "If RAP is used" in item 2 in the list of the paragraph of section 39-2.01D(5) of the RSS for section 39 with:

For RAP substitution greater than 15 percent of the aggregate blend

Replace the row for moisture susceptibility, dry strength, in the table in item 3 in the list of the paragraph of section 39-2.01D(5) of the RSS for section 39 with:

Moisture susceptibility (psi, dry strength)	AASHTO T 283	100–300
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Add to the list of the paragraph of section 39-2.01D(5) of the RSS for section 39 with:

4. For RAP substitution greater than 15 percent of the aggregate blend, the asphalt binder grade must comply with the specified binder grade. A tolerance of +2 degrees C may be applied to the critical high and low temperatures of the blended binder. Original binder requirements, ductility requirements, and footnote d in the table in the 1st paragraph in section 92-1.02B do not apply in the determination of the PG binder grade using blending charts.

Replace "Reserved" in section 39-2.02C of the RSS for section 39 with:

The grade of asphalt binder for Type A HMA must be PG 64-10.

Add to the table in the 1st paragraph of section 39-2.02D(1) of the RSS for section 39:

Coarse durability index (D_c , min)	AASHTO T 210	65
Fine durability index (D_f , min).	AASHTO T 210	50

Replace the 2nd sentence of 2nd paragraph in section 39-2.02F of the RSS for section 39 with:

For RAP substitution of 15 percent or less, RAP must be within ± 3 of RAP percentage shown in your Contractor Job Mix Formula Proposal form without exceeding 15 percent. For RAP substitution of greater than 15 percent, RAP must be within ± 3 of RAP percentage shown in your Contractor Job Mix Formula Proposal form without exceeding 25 percent.

Replace the 2nd through 4th paragraphs of section 39-2.03 of the RSS for section 39 with:

If the atmospheric temperature is below 60 degrees F, cover loads in trucks with tarps. If the time for HMA discharge to truck at the HMA plant until transfer to paver's hopper is 90 minutes or greater and if the atmospheric temperature is below 70 degrees F, cover loads in trucks with tarps. The tarps must completely cover the exposed load until you transfer the mixture to the paver's hopper or to the pavement surface. Tarps are not required if the time from discharging to the truck until transfer to the paver's hopper or the pavement surface is less than 30 minutes.

Spread Type A HMA at the atmospheric and surface temperatures shown in the following table:

Minimum Atmospheric and Surface Temperatures

Compacted layer thickness	Atmosphere, °F		Surface, °F	
	Unmodified asphalt binder	Modified asphalt binder	Unmodified asphalt binder	Modified asphalt binder ^a
< 0.15	45	45	50	45
≥ 0.15	40	40	40	40

^a Except asphalt rubber binder.

For method compaction, the maximum compacted layer thickness must be 0.25 foot.

For Type A HMA placed under method compaction, if the asphalt binder is:

1. Unmodified, complete:
 - 1.1 First coverage of breakdown compaction before the surface temperature drops below 240 degrees F
 - 1.2 Breakdown and intermediate compaction before the surface temperature drops below 190 degrees F
 - 1.3 Finish compaction before the surface temperature drops below 140 degrees F
2. Modified, complete:
 - 2.1 First coverage of breakdown compaction before the surface temperature drops below 230 degrees F
 - 2.2 Breakdown and intermediate compaction before the surface temperature drops below 170 degrees F
 - 2.3 Finish compaction before the surface temperature drops below 130 degrees F

If you request and the request is authorized, you may cool Type A HMA with water when rolling activities are complete. Apply water under section 17.

BID ITEM LIST**06-0N9904**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
1	070030	LEAD COMPLIANCE PLAN	LS	LUMP SUM	LUMP SUM	
2	120090	CONSTRUCTION AREA SIGNS	LS	LUMP SUM	LUMP SUM	
3	120100	TRAFFIC CONTROL SYSTEM	LS	LUMP SUM	LUMP SUM	
4	120151	TEMPORARY TRAFFIC STRIPE (TAPE)	LF	920		
5	120152	TEMPORARY PAVEMENT MARKING (TAPE)	SQFT	24		
6	120165	CHANNELIZER (SURFACE MOUNTED)	EA	40		
7	128601	TEMPORARY SIGNAL SYSTEM	LS	LUMP SUM	LUMP SUM	
8	128652	PORTABLE CHANGEABLE MESSAGE SIGN (LS)	LS	LUMP SUM	LUMP SUM	
9	129000	TEMPORARY RAILING (TYPE K)	LF	3,120		
10	129100	TEMPORARY CRASH CUSHION MODULE	EA	56		
11	130100	JOB SITE MANAGEMENT	LS	LUMP SUM	LUMP SUM	
12	031258	TEMPORARY DEWATERING AND NON-STORM WATER DISCHARGE CONTROL SYSTEM	LS	LUMP SUM	LUMP SUM	
13	130300	PREPARE STORM WATER POLLUTION PREVENTION PLAN	LS	LUMP SUM	LUMP SUM	
14	130310	RAIN EVENT ACTION PLAN	EA	52		
15	130320	STORM WATER SAMPLING AND ANALYSIS DAY	EA	7		
16	130330	STORM WATER ANNUAL REPORT	EA	3		
17	130640	TEMPORARY FIBER ROLL	LF	520		
18	130710	TEMPORARY CONSTRUCTION ENTRANCE	EA	2		
19	130720	TEMPORARY CONSTRUCTION ROADWAY	SQYD	2,300		
20	130730	STREET SWEEPING	LS	LUMP SUM	LUMP SUM	

**BID ITEM LIST
06-0N9904**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
41	153310	CORE CONCRETE (10")	LF	48		
42	157561	BRIDGE REMOVAL (PORTION), LOCATION A	LS	LUMP SUM	LUMP SUM	
43	157562	BRIDGE REMOVAL (PORTION), LOCATION B	LS	LUMP SUM	LUMP SUM	
44	160102	CLEARING AND GRUBBING (LS)	LS	LUMP SUM	LUMP SUM	
45 (F)	192003	STRUCTURE EXCAVATION (BRIDGE)	CY	624		
46 (F)	192020	STRUCTURE EXCAVATION (TYPE D)	CY	89		
47	200002	ROADSIDE CLEARING	LS	LUMP SUM	LUMP SUM	
48	202004	IRON SULFATE (LB)	LB	13		
49	202006	SOIL AMENDMENT	CY	.5		
50	202038	PACKET FERTILIZER	EA	52		
51	204035	PLANT (GROUP A)	EA	52		
52	204099	PLANT ESTABLISHMENT WORK	LS	LUMP SUM	LUMP SUM	
53	205035	WOOD MULCH	CY	26		
54	205061	ROOT PROTECTOR	EA	52		
55	206400	CHECK AND TEST EXISTING IRRIGATION FACILITIES	LS	LUMP SUM	LUMP SUM	
56	206402	OPERATE EXISTING IRRIGATION FACILITIES	LS	LUMP SUM	LUMP SUM	
57	206562	1" REMOTE CONTROL VALVE	EA	1		
58	208448	RISER SPRINKLER ASSEMBLY	EA	39		
59 (F)	208594	3/4" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	LF	800		
60 (F)	208595	1" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	LF	690		