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**Date:** September 27, 2019

**Addendum No.:** 1

**City Project:** 19-33, "Dried Solids Storage Area"

Plan holders:

See the attached addendum no. 1 prepared by AECOM consisting of 26 pages. **Note that the bid date has been changed to October 9, 2019.**

If you have any questions, please call me at (209) 668-5417 or email at [sfremming@turlock.ca.us](mailto:sfremming@turlock.ca.us).

Sincerely,

Stephen Fremming  
Senior Civil Engineer

**ADDENDUM NO. 1**

**City of Turlock  
Contract Documents and Construction Specifications  
Project No: 19-33  
Dried Solids Laydown Area**

All bidders are hereby notified of the following modification to the contract documents, construction specifications and construction plans. This modification is to become a part of said contract documents, construction specifications and construction plans.

Each proposal shall include specific acknowledgment of receipt of this Addendum in the space provided on the Bid Form. Failure to acknowledge may result in the proposal being rejected as not responsive.

This Addendum shall supersede all previously issued specifications and drawings wherein it contradicts same. All other conditions remain unchanged. The following changes, modifications, corrections, clarifications, and/or additions as set forth herein shall apply to the above documents and shall be made a part thereof and shall be subject to all of the requirements thereof as though originally specified and/or shown.



Item No.	Reference	Description of Change
1.	Bid Opening Time and Date	<p>The Bid Opening Date is changed to 2:00 PM on October 9, 2019.</p> <p>Cover Sheet: Replace 2:00 PM on October 2, 2019 with 2:00 PM on October 9, 2019.</p> <p>Page 1: Replace “2:00 PM on October 2, 2019” with “2:00 PM on October 9, 2019”.</p> <p>Bidding Form: Bid Opening Date and Time: October 9, 2019 at 2:00 PM.</p>
2.	Table of Contents	Replace the Table of Contents with attached.
3.	Proposal: Bidding Form	Replace the first two pages of the Bidding Form (pages 5 and 6 of Bid Book) with attached.
4.	Agreement	<p>Subsection 5, "Time for Performance." Modify the first paragraph to read as follows:</p> <p><i>The time fixed for the commencement of work under the Contract is within ten (10) working days after the Notice to Proceed has been issued. The work on this project, including all punchlist items, shall be completed on or before the expiration of one hundred forty five (145) working days (the “Completion Date”) beginning on the first day of work or no later than the tenth day after the Notice to Proceed has been issued. Additionally, Milestone 1 (see Section 011000) is required to be completed by June 1, 2020. Contractor may assume that the City Council will approve the Agreement in the November 12, 2019 meeting.</i></p>
5.	Agreement	<p>Subsection 5, "Time for Performance." Modify the first sentence of subsection (d) to read as follows:</p> <p><i>d) Delay Damages. In the event Contractor, for any reason, fails to perform the Services to the satisfaction of the City Engineer by the Completion Date, City may, in accordance with Section 7203 of the Public Contract Code, in lieu of any other of its rights authorized by Section 6 of this agreement, deduct from payments or credits due Contractor after such breach a sum equal to One Thousand Five Hundred Dollars (\$1,500.00) for each calendar day beyond the Milestone 1 due date, and Two Thousand Five Hundred Dollars (\$2,500.00) for each calendar day beyond the Completion Date.</i></p>
6.	Special Provisions, Section 8: Bid Item Descriptions	Replace the Bid Item Descriptions with attached.

Item No.	Reference	Description of Change
7.	Technical Specifications, Section 011000  1.03 Work Sequence and Schedule	After "Coordinate any disruption to the RWQCF's normal operation with the Owner and Owner's Representative" insert the following paragraph:  <i>MILESTONE 1 - RWQCF's normal operations require that the proposed 330'x330' laydown area and the roadway adjacent to the sludge drying beds be complete and available for unobstructed use by the Owner no later than June 1, 2020. See the Agreement for delay damages associated with not completing this milestone by June 1, 2020. "</i>
8.	Technical Specifications, Section 015100  1.05 Construction Staking	Delete the following:  C 2. Buried pipelines larger than 6 inches: One set of offset line and grade stakes at 25-foot intervals.  C 3. Centerline stakes of roads at 50-foot intervals.  C 4. Toes of slopes over 4 feet high with grade stakes at 100-foot intervals.
9.	Technical Specifications, Section 015100  1.06 Access Roads and Parking Areas	Obtain access to project site through the existing gate on S. Kilroy Road. Keep access roads clear at all times so that the Owner's vehicles have access to the operational areas of the RWQCF.  The Contractor and his employees will not be permitted to park their vehicles in the Owner's parking lot or utilize the access from S. Walnut Road.
10.	Technical Specifications, Section 030500	Modify paragraph 3.24 A to read as follows:  <i>"...an independent testing laboratory retained by the Owner as follows:"</i>
11.	Drawing G-101	Added a designated Staging Area to the west and south of the Laydown Area for staging equipment and stockpiling materials. Updated sheet attached.
12.	Drawings C-201 through C-205	Linework labeled "Install Header Board 4/C-503" has been adjusted to double thickness to clarify the extent of header board installation required under Bid Item 22.  Construction joint layout in washdown area has been modified to be consistent between sheets.  Gutter has been removed along the north side of the washdown area.  Corrected concrete push wall detail reference to 3/CDT-04  Updated sheet attached.
13.	Drawing CDT-02	Expanded access sand trap is identified as 1,200 gallons. Jensen Precast Model JP1200EPE-TPE. Updated sheet attached.

**Clarifications:**

1. The Geotechnical Engineering Investigation Report Turlock WWTP Laydown Area, BSK Project G18-113-11F dated August 6, 2018, and supplemental report dated December 6, 2018, which is available on the City's website at <https://ci.turlock.ca.us/capitalprojects/projectsouttobid/>. It should be noted that these subsurface reports are provided as supplementary information only and do not form part of the contract documents. The Contractor remains responsible for satisfying themselves of the nature of the ground to be encountered as described in Section 2.02 of the Special Provisions.
2. To aid in the determination of quantities for the lump sum Bid Item 5, Auto Cad files have been made available on the City's website at <https://ci.turlock.ca.us/capitalprojects/projectsouttobid/>. By downloading these files the Contractor agrees to the following:

**ELECTRONIC FILES DISCLAIMER**

ELECTRONIC FILES DELIVERED BY AECOM TO THE OWNER CONTAIN INFORMATION USED FOR THE PRODUCTION OF THE CONTRACT DOCUMENTS FOR THE **CITY OF TURLOCK PROJECT 19-33 - DRIED SOLIDS STORAGE AREA** ("PROJECT"). THE OFFICIAL CONTRACT DOCUMENTS OF RECORD ARE THOSE "HARD COPY" DOCUMENTS PRODUCED BY AECOM THAT BEAR THE APPLICABLE SEALS AND SIGNATURES. THE PARTIES AGREE THAT THESE ELECTRONIC FILES ARE PROVIDED SOLELY AS AN ACCOMMODATION TO THE CONTRACTOR, SHALL NOT BE DEEMED TO BE OFFICIAL CONTRACT DOCUMENTS, ARE ONLY PROVIDED AS A SUPPLMENT TO THE OFFICIAL CONTRACT DOCUMENTS AND SHALL ONLY BE USED FOR THE PROJECT. THE PARTIES FURTHER ACKNOWLEDGE AND AGREE THAT ELECTRONIC FILES ARE SUSCEPTABLE TO POTENTIAL CORRUPTION OR MODIFICATION, EITHER INTENTIONALLY OR UNINTENTIONALLY, AND THAT AECOM MAKES NO REPRESENTATION, WARRANTY OR GUARANTEE THAT THESE ELECTRONIC FILES ARE ACCURATE OR COMPLETE OR THAT THEY WILL PROPERLY FUNCTION ON ANY SOFTWARE OR HARDWARE SYSTEM. AECOM IS NOT RESPONSIBLE FOR THE USE OF SOFTWARE OR OTHER ELECTRONIC SYSTEMS UPON WHICH THESE ELECTRONIC FILES MAY BE PLACED OR USED.

3. For bidding purposes, assumptions for the character of materials to be excavated and screened are described in Section 312300 Earthwork Part 1.06.
4. Construction Water: No. 2 recycled water is also available from an onsite hydrant in addition to the fill station described in Section 015100. Usage shall require coordination with RWQCF so as not to interfere with plant operations.
5. Electrical Power: It is assumed that Contractor has investigated and is satisfied as to the location and nature of existing outlets or shall provide extension of lines or portable power for construction purposes as described in 015100.
6. The prebid meeting sign-in sheet is available on the City's website at <https://ci.turlock.ca.us/capitalprojects/projectsouttobid/>. In order to be considered a responsive bidder, the general contractor must have attended and signed in at the prebid meeting.

**Questions and Answers:**

1. Please provide Det. 1/CDT- 02 Sand Trap Capacity/Size.

Is the expanded access trap considered part of the vector structure for payment? Also, is there a precast system that they have in mind? We don't see much detail included in the specs.

Is the trench drain considered part of the vector structure for payment?

Answer: Include the walls, railing, flat work, trench drains, and expanded access sand trap in Bid Item 12 Reinforced Concrete Vector Dump Facility. See revised drawings for size and model.

2. Please confirm reinforcing for washdown/vector structure as 1 – Mat #5 12” OC EW (Det 4/CDT-04 shows T&B Reinforcing)

Please provide the thickness and detail of the concrete washdown area concrete section.

Answer: Washdown area slab section thickness and reinforcement shall be per commercial driveway section 3/CDT-01

3. Det. 6 on CDT-03 references Specification 402713. Unable to locate in Contract Documents or on City of Turlock Standards (attached).

Answer: Added Specification Section 402713 Corporation Stops and Service Saddles

4. Please provide the City of Turlock Standard Detail SD-3 for the catch basin shown on Drawing C-101.

Answer: Attached.

5. Is the valley gutter shown in the washdown area meant to be poured monolithic with the surrounding slab? If not, is expansion joint required between the valley gutter and slab?

Answer: Valley gutter is not to be poured monolithically. Provide expansion joint with waterstop SIM Detail 5/CDT-04

6. What class of concrete (A/B/C per Specification Section 030500) is the washdown area?

Answer: Pavement concrete for washdown is Class B per Specification Section 030500

7. The standard construction joint Detail 4/CDT-04 shows waterstop. Please clarify if the concrete washdown area requires water stop.

Answer: Construction joints in the washdown area called out on C-202 require waterstop as shown in detail 4/CDT-04

8. Drawing C-205 shows lines without designation throughout the washdown area. These would seem to indicate construction joint or control joint layout, but they do not match the call out on Drawing C-202. Please clarify.

Answer: See revised Sheets C-201 and 202 and Sheet C-205.

9. Please show the construction and/or expansion joint layout for the push wall, noting the different dimensions given for spacing in the standard details (50’ for CJ, 40’ for EF).

Answer: Provide wall expansion joints @ 40'-0" spacing. Provide construction joints @ 50'-0" spacing in footings and slabs.

10. Waterstop is shown in both the standard construction joint and expansion joint details. The detailed sections of the vector structure and push wall do not show waterstop at the wall to slab joint. Please clarify if waterstop is required at either of these locations.

Answer: Waterstop to be provided at all construction joint and expansion joints per Detail 4/CDT-04 and 5/CDT-04 including wall to slab joints.

11. Specification Section 030500 3.08.E indicates that grout bedding is required on horizontal construction joints specifically requiring it to be worked “thoroughly into all irregularities of the surface”. Please clarify if this is required at the wall to slab joints (vector structure and push wall) when access will be limited to the bottom of the wall forms just prior to a pour.

Answer: Where wall forms limit access, thoroughly vibrating the initial grout and first layer of concrete placed at the bottom of the wall will be acceptable

12. Specification Section 030500 3.24.A notes the quality testing will be performed by the Contractor. Section B indicates that the Contractor is to assist the Owner in obtaining and handling the samples as well as notify the Owner in advance so they can schedule the testing implying that the Owner is retaining the testing firm. Please clarify if the Owner or Contractor is to provide concrete sampling and testing.

Answer: Paragraph modified above.

13. Drawings C-201, C-202 and C-205 indicate curb and gutter between the ballast rock north of the laydown area push wall and the concrete washdown. The concrete washdown slopes to the north away from the curb and gutter. Please clarify configuration of the curb and gutter at this location.

Answer: Sheets C-201, C-202 and C-205 have been revised to omit the gutter in this section.

14. Note 2 on Detail 3/CDT-04 indicates that subgrade for the push wall shall follow recommendations in the Geotechnical Report prepared by BSK Section 4.2.3 of the BSK report indicates that within the proposed wall areas the site should be over excavated to native materials or at least 12" below the bottom footing. The overexcavation is then to be backfilled with structural fill, which may be obtained on site. Please clarify that Note 2 also applies to the vector structural footings and slab and that Class 2 AB is not required under this structure.

Answer: Excavated on-site material may be used for structural backfill that is to be placed below structures provided it meets the requirements in Section 312300 Part 2.01 Structural Fill.

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DIVISION 01 - GENERAL REQUIREMENTS

- 011100 COORDINATION OF WORK, PERMITS, AND REGULATIONS
- 012000 MEASUREMENT AND PAYMENT
- 015100 CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS
- 015721 STORMWATER POLLUTION PREVENTION CONSTRUCTION ACTIVITIES: BEST MANAGEMENT PRACTICES

DIVISION 02 - EXISTING CONDITIONS

- 020120 PROTECTING EXISTING UNDERGROUND UTILITIES
- 020130 CONNECTIONS TO EXISTING BURIED PIPELINES

DIVISION 03 - CONCRETE

- 030500 GENERAL CONCRETE CONSTRUCTION
- 034210 PRECAST CIRCULAR CONCRETE MANHOLES
- 034215 PRECAST RECTANGULAR CONCRETE MANHOLES

DIVISION 09 - FINISHES

099000 PAINTING AND COATING  
099754 POLYETHYLENE SHEET ENCASEMENT (AWWA C105)  
099761 FUSION-BONDED EPOXY LININGS AND COATINGS

DIVISION 22 - PLUMBING

221628 TRENCH DRAIN SYSTEM

DIVISION 26 - ELECTRICAL

260500 GENERAL ELECTRICAL REQUIREMENTS  
260543 UNDERGROUND ELECTRICAL DUCT SYSTEMS

DIVISION 31 - EARTHWORK

311100 CLEARING, STRIPPING, AND GRUBBING  
312300 EARTHWORK  
312316 TRENCHING, BACKFILLING, AND COMPACTING  
313213 SOIL-CEMENT

DIVISION 32 - EXTERIOR IMPROVEMENTS

321216 ASPHALT CONCRETE PAVING (CALIFORNIA)  
321613 CONCRETE CURBS, GUTTERS, AND SIDEWALKS

DIVISION 33 - UTILITIES

330130 LEAKAGE AND INFILTRATION TESTING  
333118 HDPE PROFILE WALL PIPE

DIVISION 40 - PROCESS INTEGRATION

400500 GENERAL PIPING REQUIREMENTS  
400515 PRESSURE TESTING OF PIPING  
400520 MANUAL, CHECK, AND PROCESS VALVES  
402040 DUCTILE-IRON PIPE  
402092 PVC DISTRIBUTION PIPE (AWWA C900 AND C909)  
402713 CORPORATION STOPS AND SERVICE SADDLES

## BIDDING FORM (Addendum 1)

PROJECT NO.: 19-33  
 PROJECT NAME: DRIED SOLIDS LAYDOWN AREA  
 BID OPENING DATE AND TIME: \_\_\_\_\_  
 CONTRACTOR: \_\_\_\_\_

Bid Item No.	Quantity/ Units	Description	Unit Price	Total Amount
1.	Lump sum	Mobilization/Demobilization (not to exceed \$100,000)	--	
2.	Lump sum	Permits, Traffic Control, and SWPPP	--	
3.	Lump sum	Sheeting, Shoring, Bracing and Excavation Safety Measures	--	
<b>Site Grading</b>				
4.	6.0 AC	Clearing, Stripping and Grubbing		
5.	Lump sum	Earthwork		
6.	3,000 TON	Disposal		
<b>Drainage</b>				
7.	4 EA	60-Inch-Diameter Manhole		
8.	850 LF	18-Inch HDPE Profile Wall Pipe		
9.	400 LF	24-Inch HDPE Profile Wall Pipe		
10.	9 EA	Single Grate Concrete Catch Basin		
<b>Laydown and Washdown Areas</b>				
11.	24,500 SF	Reinforced Concrete Washdown Area		
12.	Lump sum	Reinforced Concrete Vector Dump Facility	--	
13.	14,000 SY	Soil-Cement Subgrade		
14.	950 CY	Reinforced Concrete Push Wall		
15.	11,000 SY	Asphalt-Concrete Paving		
16.	1,000 LF	Valley Gutter		

Bid Item No.	Quantity/ Units	Description	Unit Price	Total Amount
<b>Permanent Project Roads</b>				
17.	12,000 SY	Subgrade Preparation		
18.	1,840 CY	Class 2 Aggregate Base		
19.	4,960 SY	Asphalt-Concrete Paving		
20.	3 EA	Commercial Driveway Access		
21.	2,400 LF	Curb and Gutter		
22.	2,950 LF	Header Board		
<b>Recycled Water Distribution</b>				
23.	1 EA	Connection to Existing 8" RW Main		
24.	950 LF	6" C-900 PVC Distribution Pipe		
25.	3 EA	Fire Hydrants		
26.	10 EA	Line Valves		
<b>Site Electrical</b>				
27.	1,300 LF	12kV Electrical Duct Bank 4x4" and 2x2" Conduit		
28.	5 EA	4'x4' Electrical Pull Box		
29.	750 LF	2x1" Street Lighting Conduit		
30.	7 EA	No. 5 Electrical Pull Box		
31.	4 EA	Street Lighting Base		

Bidder has examined and carefully studied the Bidding documents and other related data identified in the Bidding Documents and the following Addenda, receipt of which is hereby acknowledged.

No. _____	Date _____	ADDENDA	Signed _____
No. _____	Date _____		Signed _____
No. _____	Date _____		Signed _____
No. _____	Date _____		Signed _____

TOTAL BID WRITTEN IN FIGURES: \_\_\_\_\_

TOTAL BID WRITTEN IN WORDS: \_\_\_\_\_

## SECTION 8 - BID ITEM DESCRIPTIONS

### Bid Item 1 - Mobilization and Demobilization

This item is a lump-sum bid for preparatory work and operations including, but not limited to, those necessary for the movement of personnel, equipment, supplies, and incidentals to the project site; for obtaining permits, bonds, and insurance; and for all other work and operations which must be performed or costs incurred prior to beginning work on the various contract items on the project site. This bid item is limited to a maximum of \$100,000. Mobilization payment shall be made at the time of the first monthly pay request and shall be limited to 80 percent of the bid amount. Demobilization and removal of all equipment, supplies, and incidentals at the conclusion of the work is also included and shall be paid in the amount of 20 percent of the bid amount at the last monthly pay request.

### Bid Item 2 - Permits, Traffic Control and SWPPP

This is a lump-sum bid item for all permits, and traffic control required for the project and the provision and implementation of the Storm Water Pollution Prevention Plan. Payment will be made at the contract lump-sum bid price and shall be divided equally throughout the length of the contract.

### Bid Item 3 - Sheeting, Shoring, Bracing, and Excavation Safety Measures

This is a lump-sum bid item for sheeting, shoring, bracing, and excavation safety measures for the protection of life and limb, in conformance with the applicable safety orders, shall be made at the contract lump-sum bid price and shall be divided equally throughout the length of the associated pipeline.

### Bid Item 4 - Site Grading: Clearing, Stripping, and Grubbing

This is a unit-price bid item for stripping, grubbing, and clearing within the work area limits shown in the drawings, and shall include all costs for the following:

- Removing, transporting, and disposing of organic topsoil, grass and grass roots, and other objectionable material remaining after clearing.
- Removing, transporting, and disposing of top 2 inches of existing topsoil from primary staging/stockpile area and grassland topsoil salvage areas in accordance with the specifications.
- Removing, transporting, and disposing of tree and shrub stumps and root systems and backfilling the grubbed holes.
- Removing, transporting, and disposing of asphalt, concrete, and/or pavement.

Measurement for payment will be made in acres stripped, grubbed, and cleared in accordance with the specifications. Payment will be made at the unit price per acre bid

### Bid Item 5 - Site Grading: Earthwork

This is a lump-sum bid item for material excavated and placed to lines, grades, and dimensions shown in the drawings and from the designated on-site borrow area. Payment will be made at the lump sum unit price, which price shall include all costs for the following:

- Excavating the materials.
- Transporting excavated materials from the sites of excavation to points of final use, to temporary stockpiles including placing the materials into separate stockpiles designated for each type of material, and from the temporary stockpiles to points of final use.
- Rehandling excavated materials that have been deposited temporarily in stockpiles.
- Screening and removal of oversize or unsuitable material from otherwise suitable materials.
- Stockpiling of excavated materials not suitable or required for the permanent construction to designated stockpile areas on site prior to disposal.
- Conditioning the materials at the excavation site prior to excavation or at the stockpile areas prior to transporting to points of final use.
- Transporting the embankment fill materials directly from excavation or from temporary stockpiles to points of final use.
- Placing and compacting the material in place.

The Contractor shall be entitled to no additional allowance above the unit price bid for borrow excavation on account of the designation by the Owner's Representative of the various portions of the borrow area from which materials are to be obtained, on account of the depths of cut which are required to be made, or on account of the location where materials are transported.

Bid Item 6 - Site Grading: Disposal

This is a unit-price bid item per ton of deleterious and oversized materials excavated from the project limits, screened from otherwise suitable materials, and disposed off-site. Contractor may not stockpile any excavated and screened material on-site. Contractor shall furnish a certified portable scale at the project site to weigh all stockpiled landfill debris to be hauled off-site for disposal to determine final quantities and contract price.

Bid Item 7 - Drainage: 60-Inch-Diameter Manhole

This is a unit-price bid per each for junction structures with manholes installed at the locations shown in the drawings. Payment will be made at the unit price per each junction structure with manhole lid, which price shall include costs for furnishing materials, labor, equipment, and installing junction structures with manhole complete.

Bid Item 8 - Drainage: 18-Inch HDPE Profile Wall Pipe (HDPE)

This is a unit-price bid item per linear foot of 18-inch HDPE profile wall pipe and fittings placed to lines and grades, including pipe excavation and placing and compacting bedding material and backfill, as shown in drawings and in accordance with the specifications. Payment will be made at the unit price per linear foot bid, which price shall include costs for materials, labor, equipment, incidentals, and installation of 18-inch HDPE profile wall pipe.

Bid Item 9 - Drainage: 24-Inch HDPE Profile Wall Pipe (HDPE)

This is a unit-price bid item per linear foot for 24-inch HDPE profile wall pipe and fittings placed to lines and grades, including pipe excavation and placing and compacting bedding material and backfill, as shown in drawings and in accordance with the specifications. Payment will be made at the unit price per linear foot bid, which price shall include costs for materials, labor, equipment, incidentals, and installation of 24-inch HDPE profile wall pipe.

Bid Item 10 - Drainage: Single Grate Concrete Catch Basin

This is a unit-price bid item per each for single-grate concrete catch basins installed at the locations shown in the drawings. Payment will be made at the unit price per each catch basin bid, which price shall include costs for furnishing materials, labor, equipment, and installing the catch basins complete.

Bid Item 11 - Laydown and Washdown Areas: Construct Reinforced Concrete Washdown Area

This is a unit-price bid item per square foot for constructing reinforced concrete laydown and washdown areas as shown in the drawings. Payment will be made at the unit price per square foot bid, which price shall include costs for constructing the reinforced concrete surfaces complete in accordance with the specifications.

Bid Item 12 - Laydown and Washdown Areas: Construct Reinforced Concrete Vector Dump Facility

This is a lump-sum bid item for the concrete vector dump facility constructed at the location shown in the drawings including constructing the reinforced concrete structure complete in accordance with the specifications.

Bid Item 13 - Laydown and Washdown Areas: Soil-Cement Subgrade

This is a unit-price bid item per square yard for furnishing, placing, and treating subgrade in accordance with the specifications and as shown on the drawings.

Bid Item 14 - Laydown and Washdown Areas: Construct Reinforced Concrete Push Wall

This is a unit-price bid item per square foot of vertical surface area for constructing the concrete push wall complete as shown in the drawings and in accordance with the specifications.

Bid Item 15 - Laydown and Washdown Areas: Asphalt-Concrete Paving

This is a unit-price bid item per square foot of surface area for asphalt concrete paving of the laydown area, including final grading, laydown area pavement, delineation of bays, pavement markers, and striping, as shown in the drawings and in accordance with the specifications.

Bid Item 16 - Laydown and Washdown Areas: Reinforced Concrete Valley Gutter

This is a unit-price bid item per linear foot for reinforced concrete valley gutter installed at the locations in the drawings and in accordance with the specifications. Costs shall include materials, labor, equipment, and incidentals for installation of valley gutters including excavation.

Bid Item 17 - Permanent Project Roads: Subgrade Preparation

This is a unit-price bid item per square yard for subgrade preparation beneath permanent project roads at the locations shown in the drawings and in accordance with the specifications. Subgrade preparation shall include all labor, materials, tools, equipment, and incidentals required for preparing for, furnishing, and installing subgrade preparation.

Bid Item 18 - Permanent Project Roads: Class 2 Aggregate Base

This is a unit-price bid item per cubic yard of Class 2 aggregate base installed beneath permanent project roads at the locations shown in the drawings and in accordance with the specifications. The unit price bid for Class 2 aggregate base shall include full compensation for providing all labor, materials, tools, equipment, and incidentals required for preparing for, furnishing, and installing Class 2 aggregate base.

Bid Item 19 - Permanent Project Roads: Asphalt Concrete Paving

This is a unit-price bid item per square yard for asphalt concrete paving installed for permanent project roads at the locations shown in the drawings and in accordance with the specifications. Costs shall include full compensation for providing all labor, materials, tools, equipment, and incidentals required for preparing for, furnishing, and installing asphalt concrete paving including header board where specified. Asphalt concrete paving for trench resurfacing in existing roads is not included. Trench resurfacing shall be included in the associated bid item for pipe or conduit.

Bid Item 20 - Permanent Project Roads: Construct Commercial Driveway Access

This is a lump-sum bid item for each commercial driveway access constructed at the locations shown in the drawings and include costs for constructing the reinforced concrete surfaces complete in accordance with the specifications.

Bid Item 21 - Permanent Project Roads: Curb and Gutter

This is a unit-price bid item per linear foot for concrete curb and gutter installed at the locations in the drawings and in accordance with the specifications and include all costs for materials, labor, equipment, and incidentals for installation of curb and gutter including excavation.

Bid Item 22 - Permanent Project Roads: Header Board

This is a unit-price bid item per linear foot for header board installed at the locations in the drawings and in accordance with the specifications and include all costs for materials, labor, equipment, and incidentals for installation of header board.

Bid Item 23 - Recycled Water Distribution: Connection to Existing 8" R/W Main

This is a lump-sum bid item for connecting with piping and appurtenances at the location in the drawings and in accordance with the specifications and include materials, labor, equipment, construction, coordination with the Owner:

- Potholing of existing facilities prior to construction
- Excavation for to expose the existing pipe
- Hot tapping the existing 8" R/W main which shall remain in service
- Pipe including welds, fittings, valves, and pipe encasement
- Backfill, compaction, and reinstatement of the existing road surfaces

The pipeline connection lump sum includes piping and appurtenances as defined in the drawings from the existing R/W main to the tapping valve at STA 0+03.50.

Bid Item 24 - Recycled Water Distribution: 6-inch C-900 PVC Distribution Pipe

This is a unit-price bid item per linear foot of 6-inch Class C-900 PVC pipe and pipe fittings placed to lines and grades shown in drawings and in accordance with the specifications. Costs shall include materials, labor, equipment, incidentals, and installation of 6-inch Class C-900 PVC pipe including the following:

- Pipe excavation and trenching
- Placing and compacting bedding material and backfill
- Resurfacing of existing site roads not identified as new construction

Bid Item 25 - Recycled Water Distribution: Fire Hydrants

This is a unit-price bid item per each for fire hydrants installed at the locations shown in the drawings. Payment will be made at the unit price per each hydrant per City of Turlock Standard, which price shall include costs for furnishing materials, labor, equipment, to install the hydrant complete including 6-inch diameter C-900 PVC pipe, valves, fittings, thrust blocks, trenching, backfilling, and concrete pad.

Bid Item 26 - Recycled Water Distribution: Line Valves

This is a unit-price bid item per each for line valves installed at the locations shown in the drawings. Payment will be made at the unit price per each gate valve per City of Turlock Standard, which price shall include costs for furnishing materials, labor, equipment, to install the valve complete including Schedule 40 PVC riser, valve cover and body, fittings, thrust blocks, trenching, backfilling, and concrete collar.

Bid Item 27 - Site Electrical: 12kV Electrical Duct bank 4x4" and 2x2" Conduit

This is a unit-price bid item per linear foot for electrical conduit bank containing four 4-inch conduits and two 2-inch conduits as shown in the drawings and in accordance with the specifications. Cost shall include furnishing materials, labor, equipment, testing, incidentals, and construction of the following:

- Excavation and trenching
- Electrical and control conduit
- Placing and compacting bedding material and backfill
- Resurfacing of existing site roads not identified as new construction

Bid Item 28 - Site Electrical: 4'x4' Electrical Pull Box

This is a unit-price bid item per each for 4-foot by 4-foot electrical pullboxes as shown in the drawings and in accordance with the specifications. Cost shall include furnishing materials, labor, equipment, testing, incidentals, and construction of the following:

- Excavation
- Installation of electrical pull boxes
- Placing and compacting bedding material and backfill
- Resurfacing of existing site roads not identified as new construction

Bid Item 29 - Site Electrical: 2x1" Street Lighting Conduit

This is a lump-sum bid item per linear foot for street lighting conduit bank containing two 1-inch conduits as shown in the drawings and in accordance with the specifications. Cost shall include furnishing materials, labor, equipment, testing, incidentals, and construction of the following:

- Excavation and trenching
- Electrical conduits
- Placing and compacting bedding material and backfill

Bid Item 30 - Site Electrical: No. 5 Electrical Pull Box

This is a lump-sum bid item for 4-foot by 4-foot electrical pull boxes as shown in the drawings and in accordance with the specifications. Cost shall include furnishing materials, labor, equipment, testing, incidentals, and construction of the following:

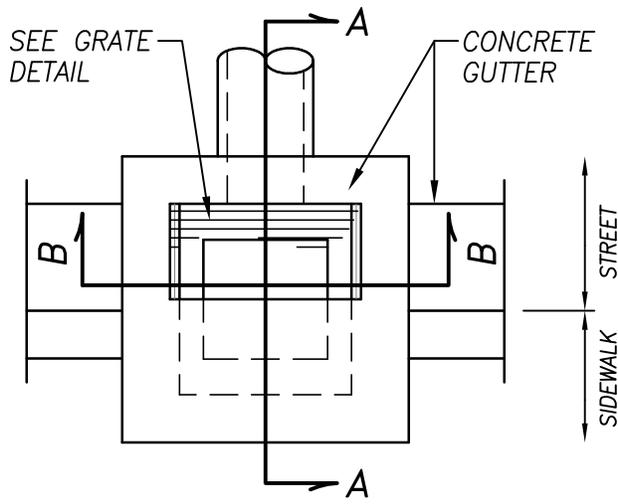
- Excavation
- Installation of electrical pullbox
- Placing and compacting bedding material and backfill

Bid Item 31 - Site Electrical: Street Lighting Base

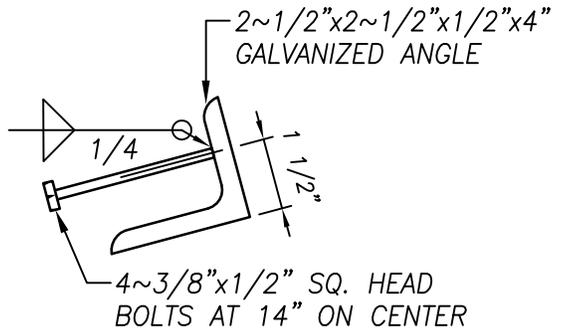
This is a unit-price bid item for street lighting bases as shown in the drawings and in accordance with the specifications and per City of Turlock Standard Drawing E-3. Cost shall include furnishing materials, labor, equipment, testing, incidentals, and construction of the following:

- Excavation

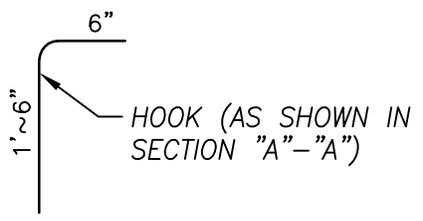
- Installation of reinforced concrete base
- Spiral ground wire
- Anchor bolts to suit Ameron Company Catalog No. N 2512 per City of Turlock Standard Drawing E-2.



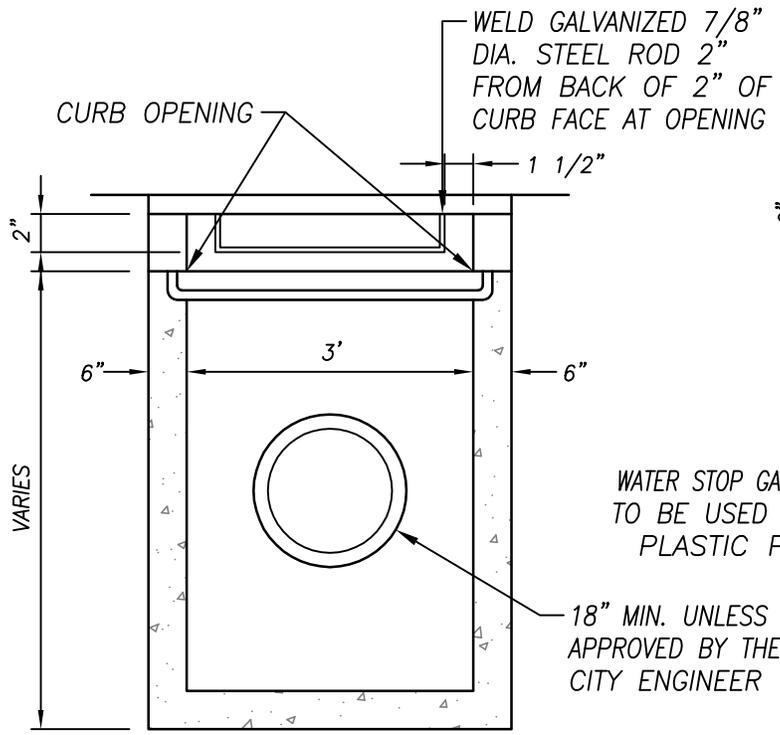
PLAN



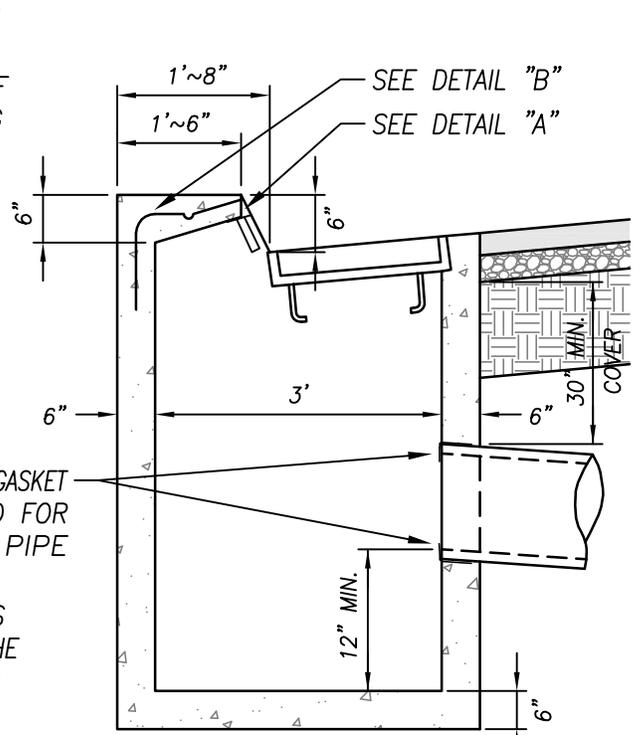
DETAIL A



DETAIL B



SECTION "B"-"B"



SECTION "A"-"A"

CATCH BASIN NO. 3

CITY OF TURLOCK



DRAWN BY: JSH  
CHECK BY: NBB  
SCALE: NONE

APPROVED BY: *[Signature]*  
CITY ENGINEER - MICHAEL G. PITCOCK - RCE 52694

DRAWING NO. SD-3  
COUNCIL APPROVAL NOV., 2015

SECTION 402713 CORPORATION STOPS AND SERVICE SADDLES

PART 1 - GENERAL

1.01 DESCRIPTION

This section includes materials and installation of service saddles and corporation stops.

1.02 RELATED WORK SPECIFIED ELSEWHERE

Pressure Testing of Piping: 400515.

1.03 SUBMITTALS

- A. Submit shop drawings in accordance with the Special Provisions.
- B. Submit manufacturer's catalog data and descriptive literature showing dimensions and materials of construction by ASTM reference and grade. Show coatings.

PART 2 - MATERIALS

2.01 CORPORATION STOPS

Corporation stops shall comply with AWWA C800 with inlets and outlets as tabulated below:

Type	Inlet Connection	Outlet Connection	Manufacturer and Model
2	Outside Corp. Stop (AWWA taper thread)	Inside I.P.	Less than 1 1/2 inches: Jones J-51, Mueller H-10045 for sizes 1-1/2 and 2 inches: Jones J-1932, Ford FB-1600

PART 3 - EXECUTION

3.01 INSTALLATION OF CORPORATION STOPS

- A. Use a smooth-jawed adjustable wrench that fully and evenly engages the stop wrenching flats. Place the wrench only on the stop body wrench flats. Do not use the rounded areas of the stop body for tightening into the main or saddle. When connecting the outlet service line, use two wrenches to make the connection. Use one wrench to support the corporation stop and/or curb stop and the other wrench to tighten the service connection.
- B. Backfill and compact soil carefully around the corporation stop, curb stop, and service line to prevent ground settling and damage to the valve or service line.

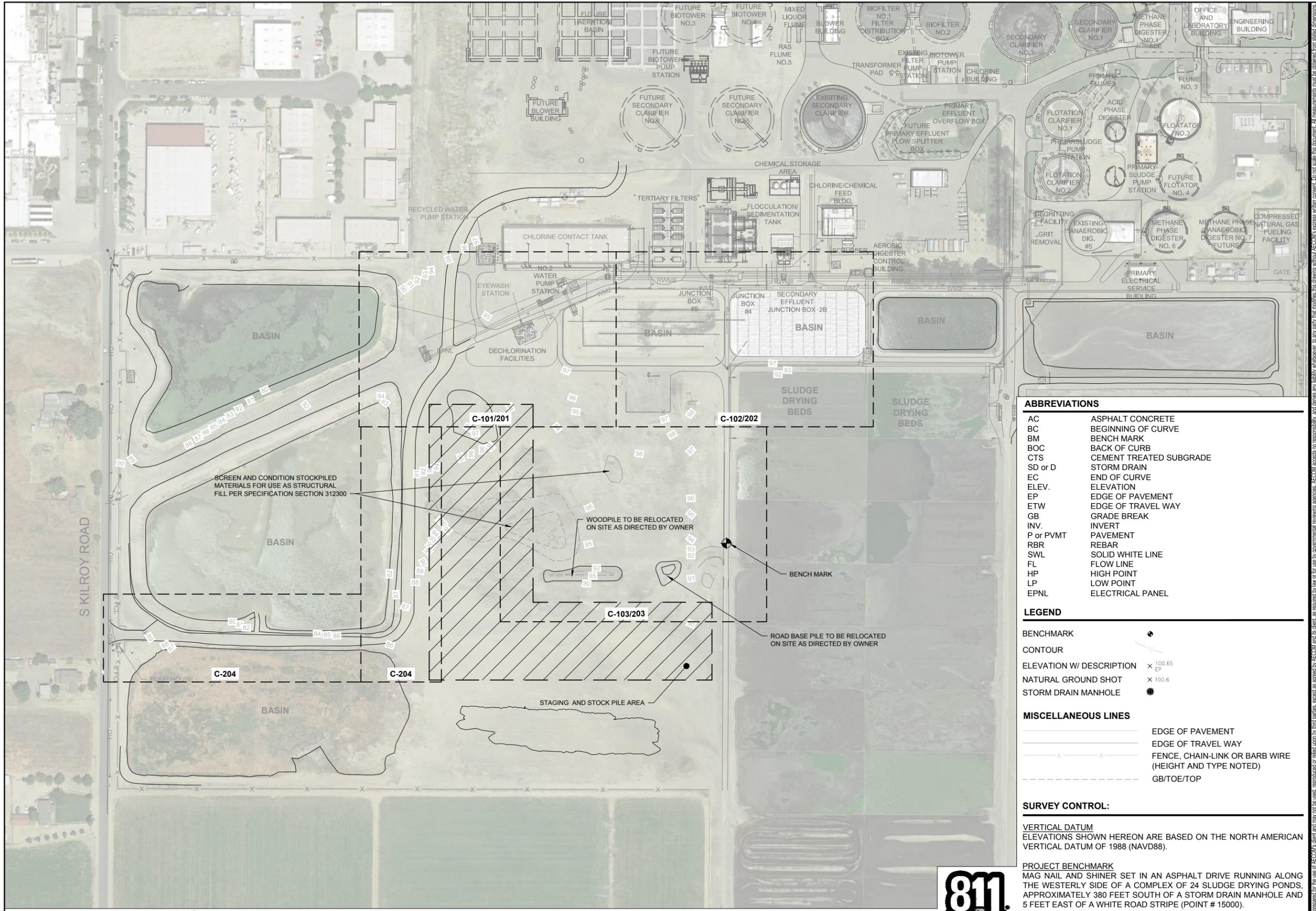
3.02 FIELD PRESSURE TESTING OF CORPORATION STOPS AND SERVICE SADDLES

- A. Perform service line pressure testing prior to backfilling of buried service saddles and corporation stops.
- B. External leakage through the corporation stop body is not allowed. During testing of ground key stops, the outlet may be capped to eliminate leakage through the stop's closed port opening. Test

pressures shall not exceed 150% of the maximum working pressure specified in AWWA C800. Cap stop outlets and test in the open position. When testing a water main, if capping the corporation stop is impractical, test to the curb stop with the corporation stop in the open position.

- C. Test pressures on service saddles for attachment to plastic pipe should be limited to 150% of the lower-rated component.

END OF SECTION



**EXISTING SITE**  
 Scale 1" = 100'



**ABBREVIATIONS**

AC	ASPHALT CONCRETE
BC	BEGINNING OF CURVE
BM	BENCH MARK
BOC	BACK OF CURB
CTS	CEMENT TREATED SUBGRADE
SD or D	STORM DRAIN
EC	END OF CURVE
ELEV.	ELEVATION
EP	EDGE OF PAVEMENT
ETW	EDGE OF TRAVEL WAY
GB	GRADE BREAK
INV.	INVERT
P or PVMT	PAVEMENT
RBR	REBAR
SWL	SOLID WHITE LINE
FL	FLOW LINE
HP	HIGH POINT
LP	LOW POINT
EPNL	ELECTRICAL PANEL

**LEGEND**

BENCHMARK	
CONTOUR	
ELEVATION W/ DESCRIPTION	100.65 EP
NATURAL GROUND SHOT	100.6
STORM DRAIN MANHOLE	

**MISCELLANEOUS LINES**

	EDGE OF PAVEMENT
	EDGE OF TRAVEL WAY
	FENCE, CHAIN-LINK OR BARB WIRE (HEIGHT AND TYPE NOTED)
	GB/TOE/TOP

**SURVEY CONTROL:**

**VERTICAL DATUM**  
 ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

**PROJECT BENCHMARK**  
 MAG NAIL AND SHINER SET IN AN ASPHALT DRIVE RUNNING ALONG THE WESTERLY SIDE OF A COMPLEX OF 24 SLUDGE DRYING PONDS, APPROXIMATELY 380 FEET SOUTH OF A STORM DRAIN MANHOLE AND 5 FEET EAST OF A WHITE ROAD STRIPE (POINT # 15000).  
 ELEVATION = 98.51 FEET (NAVD88)

**HORIZONTAL DATUM**  
 COORDINATES ARE GROUND AND BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983 (CCS83), ZONE III.



**PROJECT**  
**DRIED SOLIDS STORAGE AREA**  
**CITY PROJECT No. 19-33**  
 (REGIONAL WATER QUALITY CONTROL FACILITY (RWQCF))  
 901 SOUTH WALNUT ROAD  
 TURLOCK, CALIFORNIA 95380

**CLIENT**  
**CITY OF TURLOCK**  
 MUNICIPAL SERVICES DEPARTMENT  
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**REGISTRATION**



**BID SET**  
 DATE: 2019-22-07

**ISSUE/REVISION**

1/R	DATE	DESCRIPTION
1	9/19/2019	BID ADDENDUM 1

**KEY PLAN**

**PROJECT NUMBER**  
 60563672

**SHEET TITLE**  
 EXISTING SITE

**SHEET NUMBER**  
 G-101

LAYOUT COORDINATES

NUMBER	DESCRIPTION	NORTHING	EASTING	NUMBER	DESCRIPTION	NORTHING	EASTING	NUMBER	DESCRIPTION	NORTHING	EASTING	NUMBER	DESCRIPTION	NORTHING	EASTING	NUMBER	DESCRIPTION	NORTHING	EASTING	NUMBER	DESCRIPTION	NORTHING	EASTING
01	EP	1998486.12	6453120.62	17	CL	1998531.01	6453223.69	33	CL	1998530.90	6453273.67	49	EP	1998486.66	6453448.01	66	VECTOR WALL	1998502.32	6453500.67	74	VECTOR WALL	1998478.57	6453600.66
02	CL	1998486.12	6453132.62	18	EP	1998519.01	6453223.65	34	EP	1998519.08	6453273.65	50	EP	1998513.45	6453474.77	67	VECTOR WALL	1998454.82	6453500.67	75	VECTOR WALL	1998478.57	6453500.66
03	EP	1998486.12	6453144.62	19	CL / LOW PT	1998530.98	6453236.62	35	EP	1998542.87	6453285.94	51	EP	1998567.53	6453459.37	68	VECTOR FLOOR	1998501.46	6453525.66	76	DROP INLET	1998505.53	6453538.16
04	EP	1998533.54	6453146.00	20	EP / LOW PT	1998518.98	6453236.59	36	CL	1998530.87	6453285.91	52	EP	1998589.04	6453459.37	69	VECTOR FLOOR	1998455.66	6453525.66	77	MH	1998521.22	6453538.12
05	CL	1998523.56	6453152.65	21	CL	1998530.95	6453248.61	37	CL	1998530.71	6453352.69	53	EP	1998627.66	6453459.30	70	VECTOR FLOOR	1998501.49	6453550.65	78	MH	1998521.27	6453301.84
06	EP	1998513.57	6453159.31	22	EP	1998518.95	6453248.58	38	EP	1998518.71	6453352.66	54	EP	1998650.91	6453425.11	71	VECTOR FLOOR	1998455.66	6453550.66	79	DROP INLET	1998563.16	6453261.38
09	EP	1998514.63	6453160.37	23	EP	1998576.41	6453231.54	39	CL	1998530.61	6453399.81	55	EP	1998589.04	6453471.37	72	VECTOR WALL	1998502.32	6453600.66	215	DROP INLET	1998627.49	6453305.33
10	EP	1998542.97	6453173.46	24	EP	1998610.91	6453236.61	40	EP	1998513.57	6453387.16	56	EP	1998572.93	6453471.37	73	VECTOR WALL	1998454.82	6453600.66	216	DROP INLET	1998617.42	6453360.97
11	CL	1998531.00	6453174.33	25	EP	1998659.47	6453236.61	41	EP	1998542.53	6453434.37	57	EP	1998542.53	6453501.37								
12	EP	1998519.03	6453175.21	26	EP	1998659.47	6453260.61	42	CL	1998530.71	6453430.90	58	CL	1998530.53	6453501.37								
13	HP	1998531.07	6453196.08	27	EP	1998634.47	6453260.61	43	EP	1998486.78	6453413.88	59	EP	1998518.53	6453509.33								
14	EP	1998550.54	6453207.50	28	EP	1998611.25	6453294.88	44	EP	1998452.28	6453418.95	60	EP / HIGH PT	1998542.53	6453538.94								
15	SW	1998531.06	6453202.95	29	EP	1998620.52	6453318.10	45	CL	1998452.15	6453430.95	61	CL / HIGH PT	1998530.53	6453538.94								
16	EP	1998519.06	6453202.92	30	EP	1998609.37	6453322.54	46	EP	1998452.15	6453442.95	62	EP / HIGH PT	1998518.53	6453538.91								
				31	EP	1998590.93	6453276.34	47	EP	1998435.53	6453442.95	63	EP	1998542.53	6453549.81								
				32	EP / LP	1998563.18	6453261.44	48	EP	1998450.54	6453457.94	64	CL	1998530.50	6453549.81								
												65	EP	1998518.53	6453549.81								



**PROJECT**  
**DRIED SOLIDS STORAGE AREA**  
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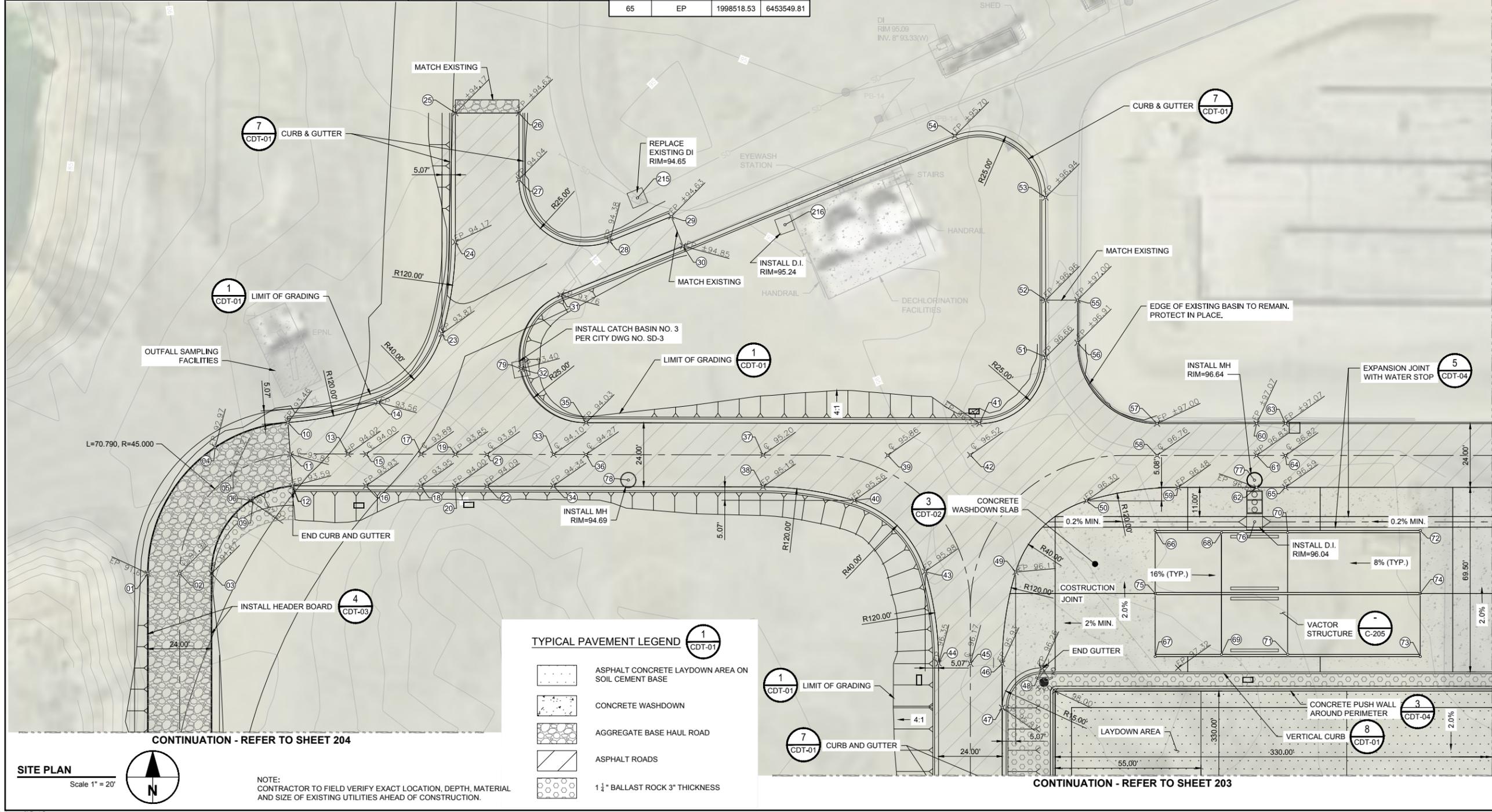
**REGISTRATION**  
  
**BID SET**  
 DATE: 2019-22-07

**ISSUE/REVISION**

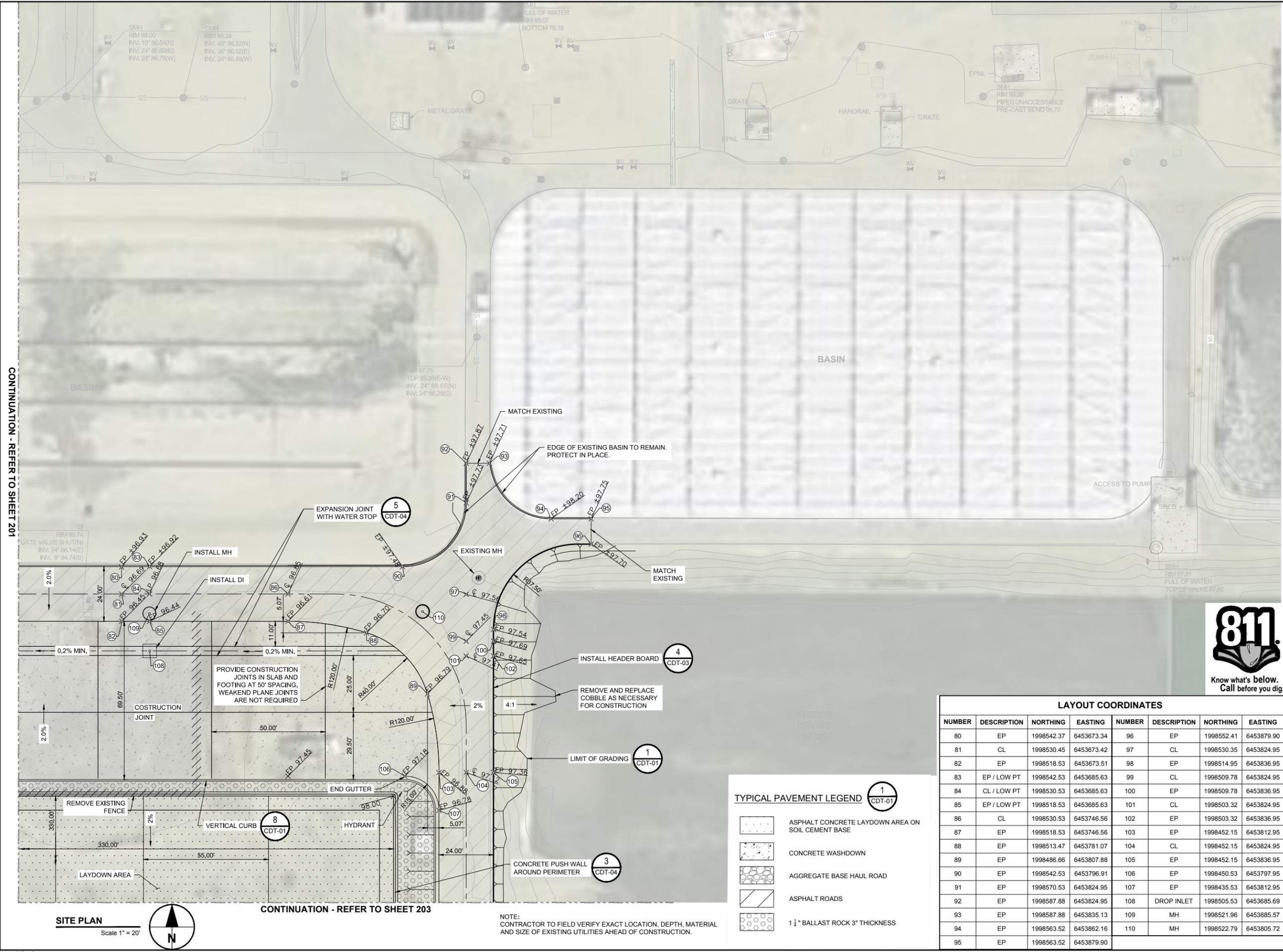
I/R	DATE	DESCRIPTION
1	9/19/2019	BID ADDENDUM 1

**KEY PLAN**

**PROJECT NUMBER**  
60563672  
**SHEET TITLE**  
GRADING PLAN  
**SHEET NUMBER**  
C-201



CONTINUATION - REFER TO SHEET 201



CONTINUATION - REFER TO SHEET 203

NOTE:  
 CONTRACTOR TO FIELD VERIFY EXACT LOCATION, DEPTH, MATERIAL  
 AND SIZE OF EXISTING UTILITIES AHEAD OF CONSTRUCTION.

**TYPICAL PAVEMENT LEGEND**

- ASPHALT CONCRETE LAYDOWN AREA ON SOIL CEMENT BASE
- CONCRETE WASHDOWN
- AGGREGATE BASE HAUL ROAD
- ASPHALT ROADS
- 1 1/4" BALLAST ROCK 3" THICKNESS

**LAYOUT COORDINATES**

NUMBER	DESCRIPTION	NORTHING	EASTING	NUMBER	DESCRIPTION	NORTHING	EASTING
80	EP	1998542.37	6453673.34	96	EP	1998552.41	6453879.90
81	CL	1998530.45	6453673.42	97	CL	1998530.35	6453824.95
82	EP	1998518.53	6453673.51	98	EP	1998514.95	6453836.95
83	EP / LOW PT	1998542.53	6453685.63	99	CL	1998509.78	6453824.95
84	CL / LOW PT	1998530.53	6453685.63	100	EP	1998509.78	6453836.95
85	EP / LOW PT	1998518.53	6453685.63	101	CL	1998503.32	6453824.95
86	CL	1998530.53	6453746.56	102	EP	1998503.32	6453836.95
87	EP	1998518.53	6453746.56	103	EP	1998452.15	6453812.95
88	EP	1998513.47	6453781.07	104	CL	1998452.15	6453824.95
89	EP	1998486.66	6453807.88	105	EP	1998452.15	6453836.95
90	EP	1998542.53	6453796.91	106	EP	1998450.53	6453797.95
91	EP	1998570.53	6453824.95	107	EP	1998435.53	6453812.95
92	EP	1998587.88	6453824.95	108	DROP INLET	1998505.53	6453685.69
93	EP	1998587.88	6453835.13	109	MH	1998521.96	6453685.57
94	EP	1998563.52	6453862.16	110	MH	1998522.79	6453805.72
95	EP	1998563.52	6453879.90				

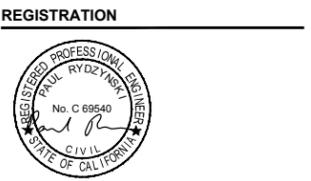


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**BID SET**  
 DATE: 2019-22-07

**ISSUE/REVISION**

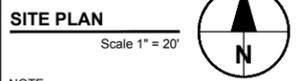
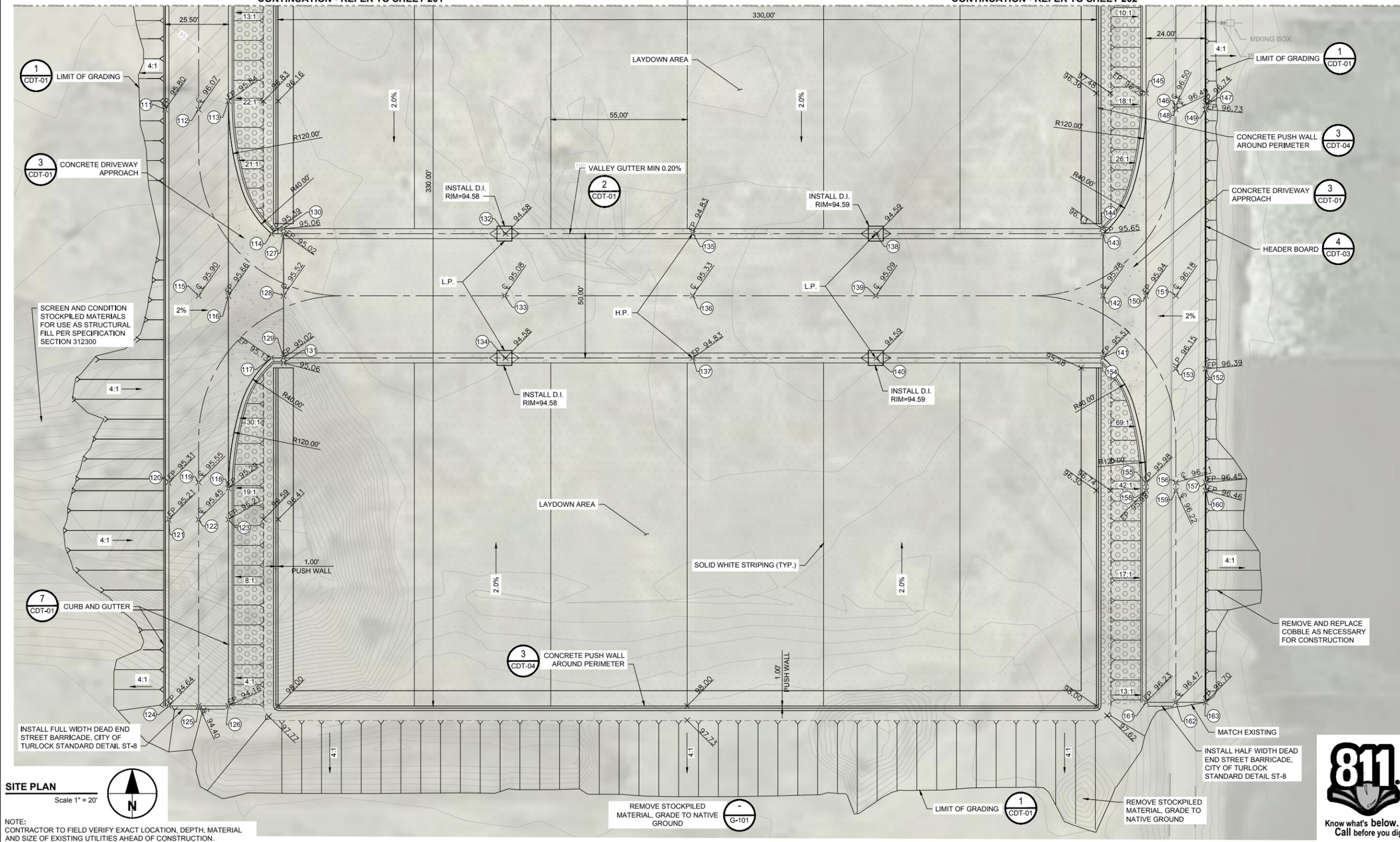
NO.	DATE	DESCRIPTION
1	9/19/2019	BID ADDENDUM 1
I/R	DATE	DESCRIPTION

**KEY PLAN**

**PROJECT NUMBER**  
 60563672  
**SHEET TITLE**  
 GRADING PLAN  
**SHEET NUMBER**  
 C-202

CONTINUATION - REFER TO SHEET 201

CONTINUATION - REFER TO SHEET 202



NOTE: CONTRACTOR TO FIELD VERIFY EXACT LOCATION, DEPTH, MATERIAL AND SIZE OF EXISTING UTILITIES AHEAD OF CONSTRUCTION.

**TYPICAL PAVEMENT LEGEND**

	ASPHALT CONCRETE LAYDOWN AREA ON SOIL CEMENT BASE
	CONCRETE WASHDOWN
	AGGREGATE BASE HAUL ROAD
	ASPHALT ROADS
	1 1/2" BALLAST ROCK 3" THICKNESS

LAYOUT COORDINATES

NUMBER	DESCRIPTION	NORTHING	EASTING	NUMBER	DESCRIPTION	NORTHING	EASTING	NUMBER	DESCRIPTION	NORTHING	EASTING	NUMBER	DESCRIPTION	NORTHING	EASTING	NUMBER	DESCRIPTION	NORTHING	EASTING	NUMBER	DESCRIPTION	NORTHING	EASTING	
111	EP	1998351.72	6453417.45	120	EP	1998201.72	6453418.95	129	EP / HIGH PT	1998251.81	6453465.19	138	LP / DROP INLET	1998301.81	6453704.01	147	EP	1998353.31	6453836.95	156	CL	1998201.73	6453824.95	
112	CL	1998351.72	6453430.95	121	EP	1998186.81	6453418.95	130	EDGE PT	1998303.81	6453465.19	139	CL - LOW PT	1998276.81	6453703.99	148	CL	1998351.75	6453824.91	157	EP	1998201.73	6453836.95	
113	EP	1998355.20	6453442.95	122	CL	1998186.81	6453430.95	131	EDGE PT	1998249.81	6453465.19	140	LP / DROP INLET	1998251.80	6453703.93	149	EP	1998351.77	6453836.95	158	EP	1998198.43	6453812.95	
114	EP	1998301.81	6453460.30	123	EP	1998186.81	6453442.95	132	LP / DROP INLET	1998301.81	6453554.31	141	EP	1998251.81	6453795.59	150	EP	1998276.81	6453812.95	159	CL	1998198.43	6453824.95	
115	CL	1998276.81	6453430.95	124	EP	1998111.82	6453418.95	133	CL - LOW PT	1998276.81	6453554.30	142	CL	1998276.81	6453795.59	151	CL	1998276.81	6453824.95	160	EP	1998198.43	6453836.95	
116	EP	1998276.81	6453460.30	125	CL	1998111.82	6453430.95	134	LP / DROP INLET	1998251.81	6453554.29	143	EP	1998301.81	6453795.59	152	EP / LOW PT	1998247.46	6453836.95	161	EP	1998113.32	6453812.95	
117	EP	1998251.81	6453460.30	126	EP	1998111.82	6453442.95	135	EP / HIGH PT	1998301.85	6453630.23	144	EDGE PT	1998303.81	6453795.19	153	CL / LOW PT	1998247.46	6453824.95	162	CL	1998113.32	6453824.95	
118	EP	1998199.36	6453442.95	127	EP / HIGH PT	1998301.81	6453465.19	136	CL - HIGH PT	1998276.81	6453630.18	145	EP	1998358.32	6453812.95	154	EDGE PT	1998249.81	6453795.19	163	EP	1998113.32	6453836.97	
119	CL	1998201.72	6453430.95	128	CL / HIGH PT	1998276.81	6453465.19	137	EP / HIGH PT	1998251.81	6453630.21	146	CL	1998353.28	6453824.91	155	EP	1998201.43	6453812.95					

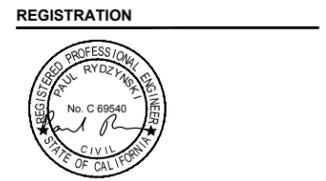


**PROJECT**  
**DRIED SOLIDS STORAGE AREA**  
**CITY PROJECT No. 19-33**  
 (REGIONAL WATER QUALITY CONTROL FACILITY (RWQCF))  
 901 SOUTH WALNUT ROAD  
 TURLOCK, CALIFORNIA 95380

**CLIENT**  
**CITY OF TURLOCK**  
 MUNICIPAL SERVICES DEPARTMENT  
 156 SOUTH BROADWAY, SUITE 270  
 TURLOCK, CALIFORNIA 95380-5454  
 209.668.5590 tel 209.668.5563 fax  
 www.cityofturlock.org.com



**CONSULTANT**  
**AECOM**  
 1360 E. SPRUCE AVENUE #101  
 FRESNO, CA 93720  
 559.448.8222 tel 559.448.8233 fax  
 www.aecom.com



**BID SET**  
 DATE: 2019-02-07

**ISSUE/REVISION**

I/R	DATE	DESCRIPTION
1	9/19/2019	BID ADDENDUM 1

**KEY PLAN**



**PROJECT NUMBER**  
60563672

**SHEET TITLE**  
GRADING PLAN

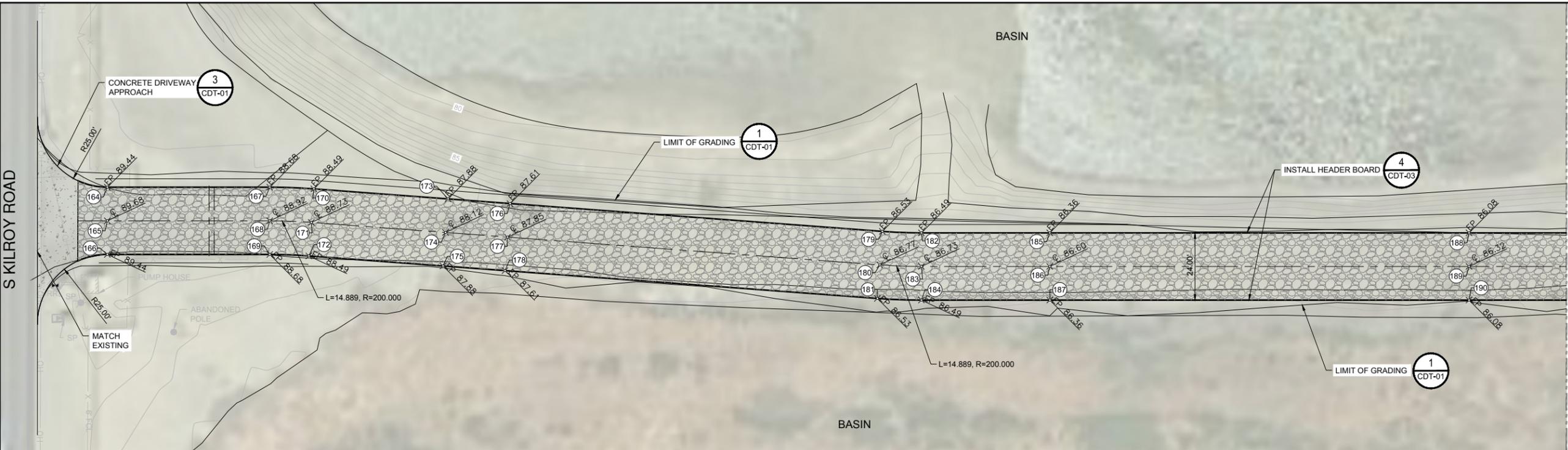
**SHEET NUMBER**  
C-203



**ISSUE/REVISION**

I/R	DATE	DESCRIPTION
1	9/19/2019	BID ADDENDUM 1

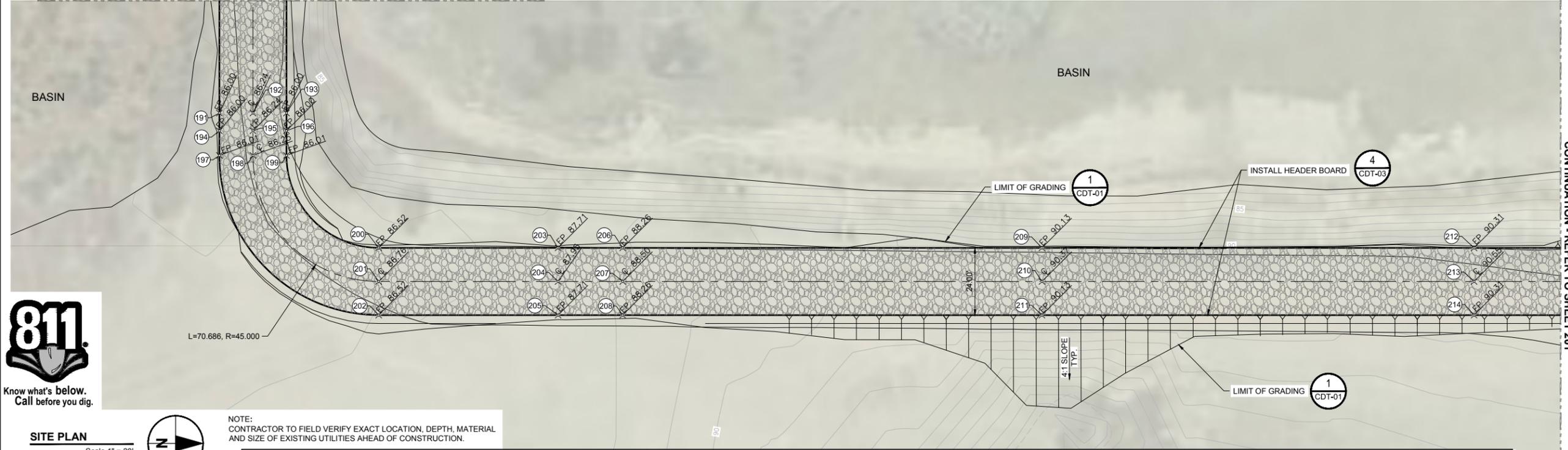
**KEY PLAN**



**SITE PLAN**  
 Scale 1" = 20'



CONTINUATION - REFER TO ABOVE



**SITE PLAN**  
 Scale 1" = 20'



NOTE:  
 CONTRACTOR TO FIELD VERIFY EXACT LOCATION, DEPTH, MATERIAL AND SIZE OF EXISTING UTILITIES AHEAD OF CONSTRUCTION.

**TYPICAL PAVEMENT LEGEND**

	ASPHALT CONCRETE LAYDOWN AREA ON SOIL CEMENT BASE
	CONCRETE WASHDOWN
	AGGREGATE BASE HAUL ROAD
	ASPHALT ROADS

**LAYOUT COORDINATES**

NUMBER	DESCRIPTION	NORTHING	EASTING																					
164	EP	1997971.74	6452510.21	173	EP	1997967.58	6452632.09	182	EP	1997955.47	6452801.45	191	EP	1997931.47	6453072.48	200	EP	1997988.47	6453120.62	209	EP	1998225.74	6453120.62	
165	CL	1997959.74	6452510.21	174	CL	1997955.61	6452631.20	183	CL	1997943.47	6452801.45	192	CL	1997943.47	6453072.48	201	CL	1997988.47	6453132.62	210	CL	1998225.74	6453132.62	
166	EP	1997947.74	6452510.21	175	EP	1997943.64	6452630.31	184	EP	1997931.47	6452801.45	193	EP	1997955.47	6453072.48	202	EP	1997988.47	6453144.62	211	EP	1998225.74	6453144.62	
167	EP	1997971.74	6452568.32	176	EP	1997965.87	6452654.29	185	EP	1997955.47	6452847.36	194	EP / LOW PT	1997931.47	6453078.82	203	EP	1998052.61	6453120.62	212	EP	1998380.34	6453120.62	
168	CL	1997959.74	6452568.32	177	CL	1997953.91	6452653.39	186	CL	1997943.47	6452847.36	195	CL / LOW PT	1997943.47	6453078.82	204	CL	1998052.62	6453132.62	213	CL	1998380.34	6453132.62	
169	EP	1997947.74	6452568.32	178	EP	1997941.99	6452652.49	187	EP	1997931.47	6452847.39	196	EP / LOW PT	1997955.47	6453078.82	205	EP	1998052.64	6453144.62	214	EP	1998380.34	6453144.62	
170	EP	1997971.16	6452584.09	179	EP	1997955.99	6452787.46	188	EP	1997955.47	6452997.36	197	EP	1997931.47	6453087.62	206	EP	1998075.74	6453120.62					
171	CL	1997959.19	6452583.20	180	CL	1997944.02	6452786.57	189	CL	1997943.47	6452997.36	198	CL	1997943.47	6453087.62	207	CL	1998075.74	6453132.62					
172	EP	1997947.22	6452582.30	181	EP	1997932.06	6452785.68	190	EP	1997931.47	6452997.36	199	EP	1997955.47	6453087.62	208	EP	1998075.74	6453144.62					



CONTINUATION - REFER TO BELOW

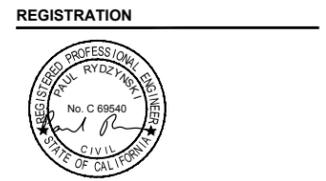


**PROJECT**  
**DRIED SOLIDS STORAGE AREA**  
**CITY PROJECT No. 19-33**  
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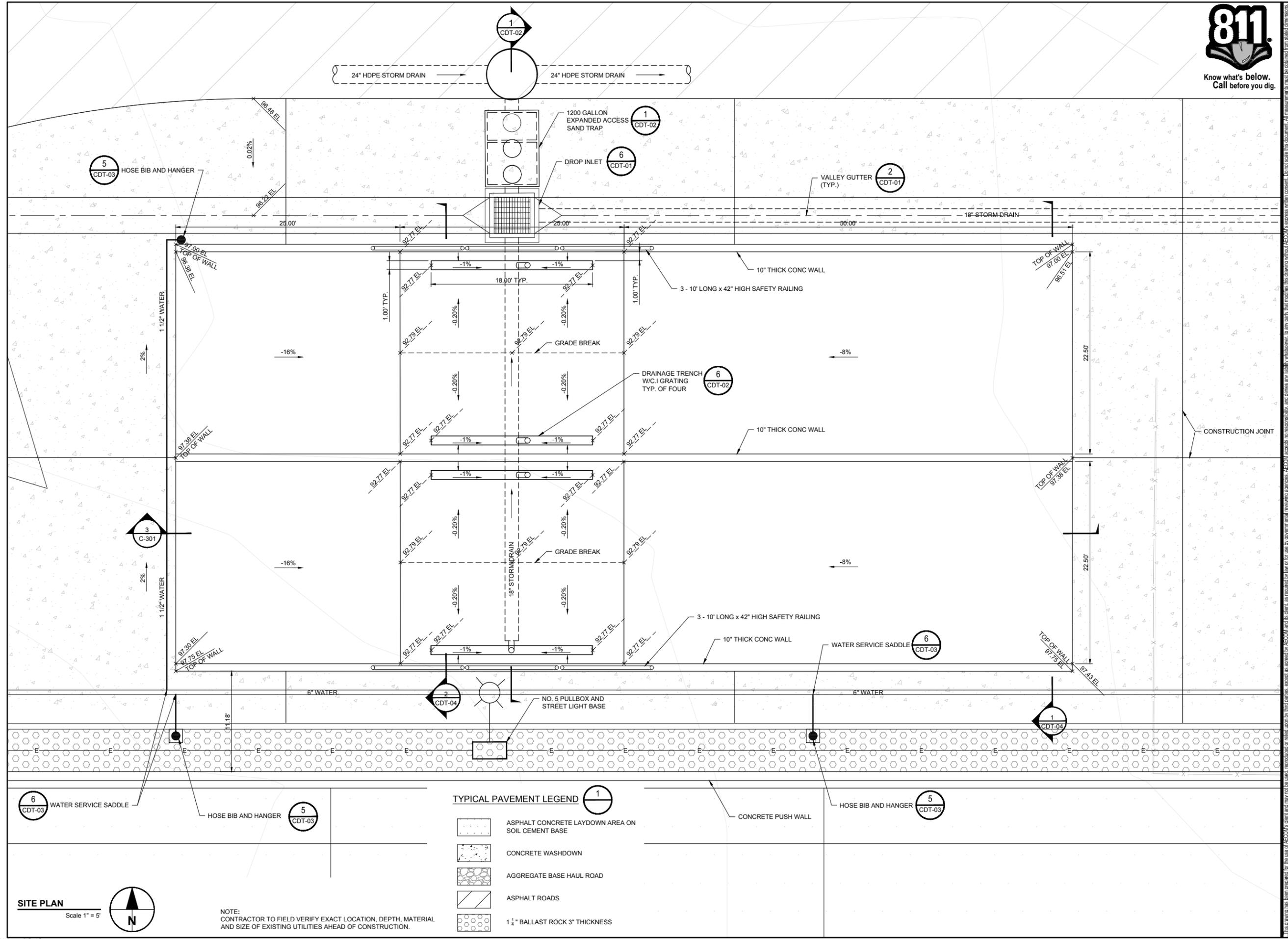
**BID SET**  
 DATE: 2019-22-07

**ISSUE/REVISION**

I/R	DATE	DESCRIPTION
1	9/19/2019	BID ADDENDUM 1

**KEY PLAN**

**PROJECT NUMBER**  
 60563672  
**SHEET TITLE**  
 VACTOR STRUCTURE LAYOUT  
**SHEET NUMBER**  
 C-205

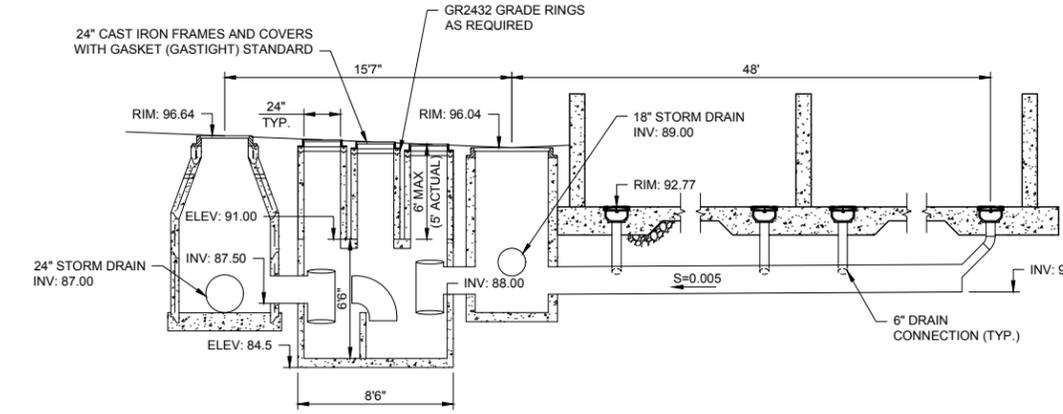
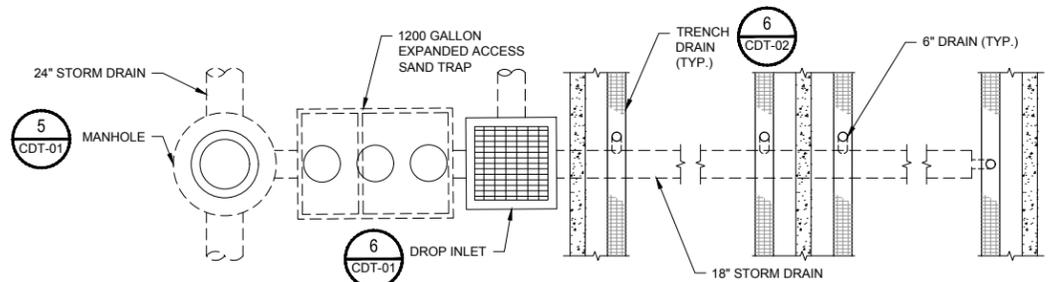


**SITE PLAN**  
 Scale 1" = 5'

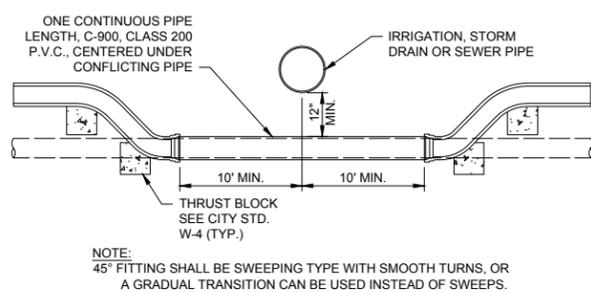


NOTE:  
 CONTRACTOR TO FIELD VERIFY EXACT LOCATION, DEPTH, MATERIAL AND SIZE OF EXISTING UTILITIES AHEAD OF CONSTRUCTION.

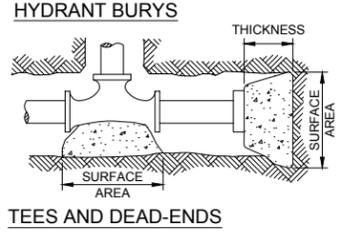
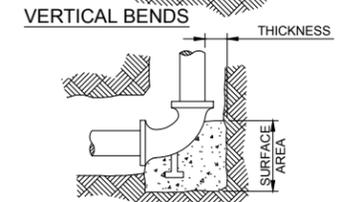
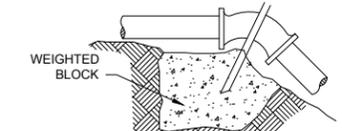
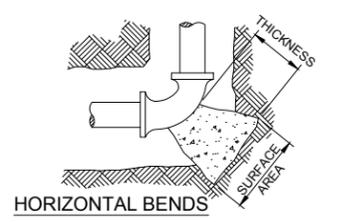
- TYPICAL PAVEMENT LEGEND**
- ASPHALT CONCRETE LAYDOWN AREA ON SOIL CEMENT BASE
  - CONCRETE WASHDOWN
  - AGGREGATE BASE HAUL ROAD
  - ASPHALT ROADS
  - 1 1/4" BALLAST ROCK 3" THICKNESS



NOTES:  
 DESIGN LOAD: H-20 TRAFFIC WITH DRY SOIL CONDITIONS (WATER LEVEL BELOW TANK)  
 SUITABLE SUB-BASE BEDDED WITH GRANULAR MATERIAL SHALL BE PREPARED TO HANDLE ANTICIPATED LOADS.  
 JENSEN PRECAST MODEL # JP1200 EPE-TPE OR EQUAL



NOTE:  
 45° FITTING SHALL BE SWEEPING TYPE WITH SMOOTH TURNS, OR A GRADUAL TRANSITION CAN BE USED INSTEAD OF SWEEPS.



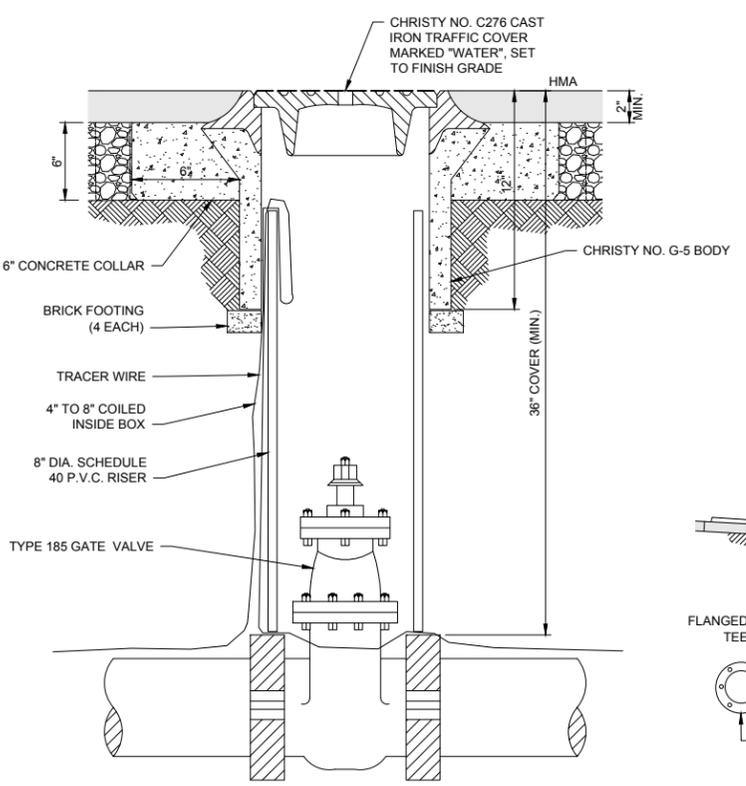
THRUST BLOCK SIZE			
PIPE DIAMETER (INCHES)	HORIZONTAL BEND SURFACE AREA (S.F.)	VERTICAL BENDS THICKNESS (INCHES)	WEIGHT AT BENDS (LBS.)
<b>22 1/2" BENDS</b>			
6 OR LESS	2	8	1,700
8	3	12	3,000
<b>45° BENDS</b>			
6 OR LESS	4	12	3,200
8	5	14	5,800
<b>90° BENDS</b>			
6 OR LESS	6	12	6,000
8	8	15	10,700
<b>TEES AND DEAD-ENDS</b>			
6 OR LESS	3	12	
8	4	15	

NOTES:  
 1. ALL DOUBLE FITTINGS AND VALVES SHALL BE WRAPPED IN PLASTIC AND PROTECTED FROM CONCRETE.  
 2. THE CITY ENGINEER WILL CONSIDER REDUCTION OF THRUST BLOCK SURFACE AREA UPON SUBMITTAL OF APPROVED SOIL RESISTANT TEST RESULTS GREATER THAN 2,000 LBS/SQ. FT.  
 3. IF LINES CONFLICT WITH CONC. KICKER, THEN GRIP RINGS ONLY SHALL BE USED. IN OTHER SITUATIONS, GRIP RINGS MAY BE UTILIZED AT THE DISCRETION OF THE CITY ENGINEER.

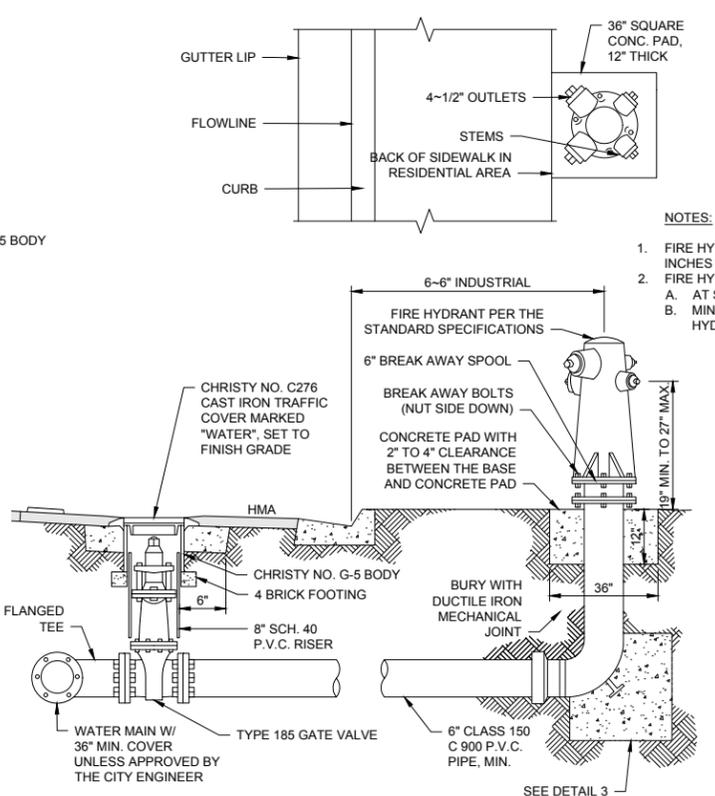
**EXPANDED ACCESS SAND TRAP**  
 SCALE: NONE

**STANDARD WATER UNDER CROSSING**  
 SCALE: NONE

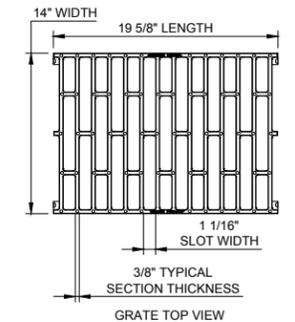
**THRUST BLOCKS**  
 SCALE: NONE



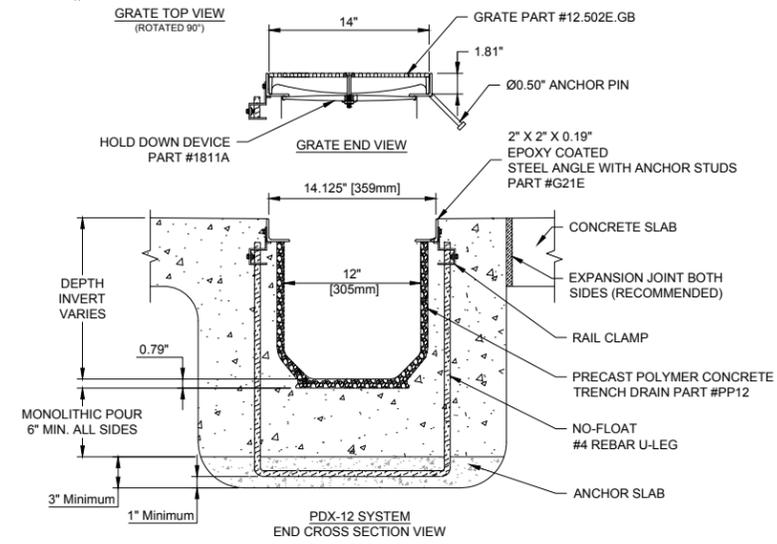
**TYPICAL LINE VALVE**  
 SCALE: NONE



**FIRE HYDRANT ASSEMBLY**  
 SCALE: NONE



PLAN NOTES  
 1. SERIES NUMBER: PP12-12.502E.GB-G21E  
 2. GRATES:  
 • DUCTILE IRON PER ASTM A536-84 GRADE 80-55-06 OPEN AREA: 0.81 FT<sup>2</sup> PER LINEAL FOOT [0.091 M<sup>2</sup> PER LINEAL METER]  
 • LOAD RATING: 620 PSI (AASHTO M-306 TEST METHOD)  
 • MADE IN THE USA  
 3. FORM RELEASE: NON-PETROLEUM BASED  
 4. CONCRETE: CONCRETE THICKNESS AND REINFORCEMENT PER STRUCTURAL ENGINEER'S SPECIFICATION FOR THE APPLICATION.



**TRENCH DRAIN DETAIL**  
 SCALE: NONE



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**REGISTRATION**



**BID SET**  
 DATE: 2019-22-07

**ISSUE/REVISION**

I/R	DATE	DESCRIPTION
1	9/19/2019	BID ADDENDUM 1

**KEY PLAN**

**PROJECT NUMBER**

60563672

**SHEET TITLE**

DETAILS 2  
 SAND TRAP, PIPING, HYDRANT AND TRENCH DRAIN

**SHEET NUMBER**

CDT-02