



COUNTY OF SAN JOAQUIN

DEPARTMENT OF PUBLIC WORKS
P.O. BOX 1810-1810 E. HAZELTON AVENUE
STOCKTON, CALIFORNIA 95201
(209) 468-3000
FAX # (209) 468-9324

Permit No: **PS-1803760**
Date Issued: 10/29/2018
Start Date: 10/29/2018
Exp. Date: 11/15/2018
Project No: PWP110005
Quad: NW

ENCROACHMENT PERMIT

To: EXPRESS SEWER AND DRAIN INC.
3300 FITZGERALD RD.
RANCHO CORDOVA, CA 95742

Encroachment Type:

Bell Hole, Traffic Control Devices			
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Location:

INTERSECTION OF AUGUSTA ST. & CHESTNUT ST.

In compliance with your request of **10/29/2018**, permission is hereby granted to do work in County right-of-way as shown on attached application and subject to all the terms, conditions and restrictions written below or printed as general or special provisions on any part of this form. See reverse side and attached sheet, if any.

Trench excavations for service connections will not be permitted within ten feet (10') of pavement centerline unless otherwise approved by the Director. Surface of trench patches shall match in kind and be smooth and even with that of abutting surface. Special attention shall be given to depth of utilities through roadside area in anticipation of future drainage facilities, road profile and/or frontage development. All underground utility facilities are to be established and accurately dimensioned on sketches from surveyed centerline of road right of way, or from right of way (border) lines.

Permittee shall call the Department of Public Works, Field Engineering Division (Permit Inspections) at (209)953-7421 at least forty-eight hours prior to beginning any work within the County right of way. All work performed under this permit shall conform to the rules and regulations pertaining to safety established by the California Division of Industrial Safety and Cal-OSHA.

The jobsite shall be kept in a safe condition at all times by the daily removal of any excess dirt or debris which might be a hazard to either pedestrian or automobile traffic. All necessary traffic convenience and warning devices and personnel shall be provided, placed and maintained by and at the sole expense of the Permittee in accordance with the latest edition of the CALTRANS Manual of Traffic Control.

After completion of the work permitted herein, all debris, lumber, barricades, or any excess material shall be removed and the jobsite left in a neat workmanlike manner. Immediately following completion of construction permitted herein, Permittee shall fill out and mail notice of completion (see attached post card) provided by Grantor.

Special Comments:

Traffic Control Per MUTCD*****See Attached "Special Conditions"*****

FORMS:

SS/WW, R-29	Trench Cut Policy	
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Est. Permit Fee: \$490.00

WHITE -Permittee
GOLDENROD -PWD Central File
YELLOW -Field Inspection
PINK -Permit Section

KRIS BALAJI, Director
Department of Public Works

By: 
Permit Section

ENCROACHMENT PERMIT GENERAL PROVISIONS

13-1.

1. This permit is issued under and subject to all laws and ordinances of agencies governing the encroachment herein permitted. See the following references:

STREETS AND HIGHWAYS CODE

1. Division 1, Chapter 3
2. Division 2, Chapter 2, Section 942
3. Division 2, Chapter 4, Section 1126
4. Division 2, Chapter 5.5 and Chapter 6

SAN JOAQUIN COUNTY ORDINANCES NUMBERED: 324, 441, 648, 662, 672, 695, 700, 860, 892, 3359, and 3675.

2. It is understood and agreed by the Permittee that the performance of any work under this permit shall constitute an acceptance of all the provisions contained herein and failure on the Permittee's part to comply with any provision will be cause for revocation of this permit. Except as otherwise provided for public agencies and franchise holders, this permit is revocable on five days notice.
3. All work shall be done subject to the supervision of and the satisfaction of the grantor. The Permittee shall at all times during the progress of the work keep the County Highway in as neat and clean condition as is possible and upon completion of the work authorized herein, shall leave the County Highway in a thoroughly neat, clean and usable condition.
4. The Permittee also agrees by the acceptance of this permit to properly maintain any encroachment structure placed by the Permittee on any part of the County Highway and to immediately repair any damage to any portion of the highway, which occurs as a result of the maintenance of the said encroachment structure, until such time as the Permittee may be relieved of the responsibility for such maintenance by the County of San Joaquin.
5. The Permittee also agrees by the acceptance of this permit to make, at its own expense, such repairs as may be deemed necessary by the County Department of Public Works.
6. It is further agreed by the Permittee that whenever construction, reconstruction or maintenance work upon the highway is necessary, the installation provided for herein shall, upon request of the County Department of Public Works, be immediately moved or removed by and at the sole expense of the Permittee.
7. No material used for fill or backfill in the construction of the encroachment shall be borrowed or taken from within the County right of way.
8. All work shall be planned and carried out with as little inconvenience as possible to the traveling public. No material shall be stacked within eight feet (8') of the edge of the pavement or traveled way unless otherwise provided herein. Adequate provision shall be made for the protection of the traveling public. Traffic control standards shall be utilized including barricades, approved signs and lights, and flagmen, as required by the particular work in progress.
9. The Permittee, by the acceptance of this permit, shall assume full responsibility for all liability for personal injury or damage to property which may arise out of the work herein permitted or which may arise out of the failure of the part of the Permittee to properly perform the work provided under this permit. In the event any claim of such liability is made against the County of San Joaquin or any department, official or employee thereof, the Permittee shall defend, indemnify, and hold each of them harmless for such claim.
10. All backfill material is to be moistened as necessary and thoroughly compacted with mechanical means. If required by the County Director of Public Works, such backfill shall consist of gravel or crushed rock. The Permittee shall maintain the surface over structures placed hereunder as may be necessary to insure the return of the roadway to a completely stable condition and until relieved of such responsibility by the County Department of Public Works. Wherever a gravel, crushed rock or asphalt surface is removed or damaged in the course of work related to the permitted encroachment, such material shall either be separately stored and replaced in the roadway as nearly as possible in its original state or shall be replaced in kind, and the roadway shall be left in at least as good a condition as it was before the commencement of operations of placing the encroachment structure.
11. Whenever it becomes necessary to secure permission from abutting property owners for the proposed work, such authority must be secured by the Permittee prior to starting work.
12. The current and future safety and convenience of the traveling public shall be given every consideration in the location and methods of construction utilized.
13. The Permittee is responsible for the preservation of survey monuments located within the area of work herein permitted. Prior to the start of construction, survey monuments that potentially may be disturbed shall be located and referenced by a Licensed Land Surveyor, and a Corner Record filed with the County Surveyor. Any Survey Monuments disturbed during the course of construction shall be reestablished by a Licensed Land Surveyor and another Corner Record filed with the County Surveyor. (Land Surveyors' Act Section 8771)
14. Prior to any excavation, the Permittee shall notify USA North (Underground Service Alert of Northern California and Nevada) at 811 or 800-227-2600 forty-eight (48) hours in advance.

SPECIAL CONDITIONS FOR
WSD – CHESTNUT ST.@ AUGUSTA ST.
ENCROACHMENT PERMIT

1. Maintain traffic controls for all roads. Traffic control delays shall not exceed 15 minutes. Two-way traffic shall be maintained during non-working hours with excavated areas backfilled or plated. During working hours, two-way traffic control shall be maintained with one lane open and appropriate flaggers.
2. Access to all properties shall be maintained at all times except when work is occurring at the access point. Minimal delays will be allowed to provide access within the work zone area. Driveway access shall be fully restored at the end of each workday. Driveways disturbed by the contractor shall be replaced with in-kind or better materials.
3. Residents and businesses shall be notified in writing, as approved by the County, 48 hours in advance of any impacts to their access.
4. Any areas where parking is to be restricted shall have signs noting the restrictions in place at least 48 hours in advance.
5. School Buses shall be passed through the work zone with minimal delays.
6. Work shall not be permitted within the San Joaquin County right-of-way between November 1 and March 31 without prior authorization from the San Joaquin County Department of Public Works Field Engineering Division, contact them at 209-953-7421.
7. All destroyed or obliterated pavement markings must be replaced in kind by the permittee. Typical pavement markings include but not limited to lane lines, centerlines, stop and stop ahead legends, limit lines, raised pavement markers and miscellaneous delineators.
8. The Permittee is responsible for the preservation of survey monuments located within the area of work herein permitted. Prior to the start of construction, survey monuments that potentially may be disturbed shall be located and referenced by a Licensed Land Surveyor, and a Corner Record filed with the County Surveyor. Any Survey Monuments disturbed during the course of construction shall be reestablished by a Licensed Land Surveyor and another Corner Record filed with the County Surveyor. (Land Surveyors' Act Section 8771)
9. All pipe and pipeline related facilities including, but not limited to, valves, utility boxes and vaults, and frames and covers shall be maintained by Woodbridge Sanitary District (WSD), including any facilities that are abandoned in place. WSD shall be responsible for any and all costs associated with the removal, relocation and/or adjustment of these facilities as determined by the County at WSD's expense. (Streets and Highways Code Section 1463)
10. All future maintenance of the pipeline and related facilities within the County right-of-way will require a San Joaquin County Encroachment Permit.
11. Trenches shall be maintained in a smooth and even condition to the satisfaction of the County throughout the project limits at all times.

12. All trenches shall be completely backfilled or shored and plated at the end of each workday, and the roadway restored to two-way traffic. If plating is to be used, a trench shoring and plating plan suitable for traffic loadings shall be prepared by a registered civil engineer and submitted for prior approval by the County.
13. The contractor shall use San Joaquin County Improvement Standard R-29 when backfilling trenches within the County right-of-way. Where the existing road structural section is below standard, a minimum section of 3 inches of asphalt concrete over 8 inches of aggregate base shall be required.
14. Chestnut Street subject to pavement cuts shall receive a one-inch (1") asphalt overlay as per San Joaquin County Department of Public Works Improvement Standards Section 2-5.0 Trench Cut Policy. Shoulder areas shall be brought up to the finish grade as directed by the County.
15. Alley work compaction and repaving requirements per San Joaquin County Improvement Standard R-29.
16. Final paving for trench repair or road resurfacing shall be per Caltrans' specifications and shall not occur between November 1 and March 31, without prior authorization from the San Joaquin County Department of Public Works Field Engineering Division, contact them at 209-953-7421.
17. County roads shall be kept clean from mud and debris at all times along the access points and work zone areas during entire project. All standard roadway striping and signage shall be clearly visible, maintained and restored throughout the construction zone during and after the project.
18. In addition to standard dust control measures, streets shall be maintained in a clean condition, free of dirt, mud and debris during construction activities. The contractor shall provide daily, and as determined to be necessary by County inspectors, street sweeping using a modern mechanical or vacuum-assisted street sweeper.
19. The contractor shall not conduct construction operations in rain or heavy fog conditions.

APPLICATION FOR ENCROACHMENT PERMIT

PLEASE PRINT:

Date 10/17/18

To: San Joaquin County
Department of Public Works

Express Sewer and Drain Inc.

(Applicant Name)

3300 Fitzgerald Rd.

(Mailing Address)

Rancho Cordova, California, 95742

(City, State, Zip Code)

(916) 920-0220

(Area Code - Telephone Number)

Murray@expresssewer.com

(Email Address)

OFFICE USE ONLY

JOB #	<u>110005</u>	REF #	
APN		CR #	
EXP. DATE	<u>11/15/18</u>		
VALID	<u>10/29/18</u> TO <u>11/15/18</u>	DRIVEWAYS:	
STREET	<u>CHESTNUT ST. @ AUGUSTA ST.</u>	*	
AREA	<u>WOODBRIDGE QUAD NW</u>	*	
TYPE	<u>BELL HOLE</u>	*	
FORMS	<u>SS/NW, R-29, Trench Cut Policy</u>		
NOTES	<u>Special Conditions</u>		

Sketch (Detailed plans may be submitted)

The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way on the Northern side of E. Augusta Street approximately 300 feet/mile feet of Woodbridge Sanitary District, San Joaquin County, by performing the following work (description of work):
Rehabilitation of existing 6" pipe (CIPP), one spot repair at edge of sidewalk improvements, remove and replace 20 LF of sanitary sewer line and new cleanout within alley way. See attached plans.

Work will commence on or after October 23 for approximately 8 days.

I, the undersigned, certify that I am the owner of the respective property, or am qualified to represent the owner and agree to do the work described above in accordance with the rules and regulations of San Joaquin County and subject to inspection and approval.

Murray Connolly
Signature of Applicant - Title

10/17/18

Date

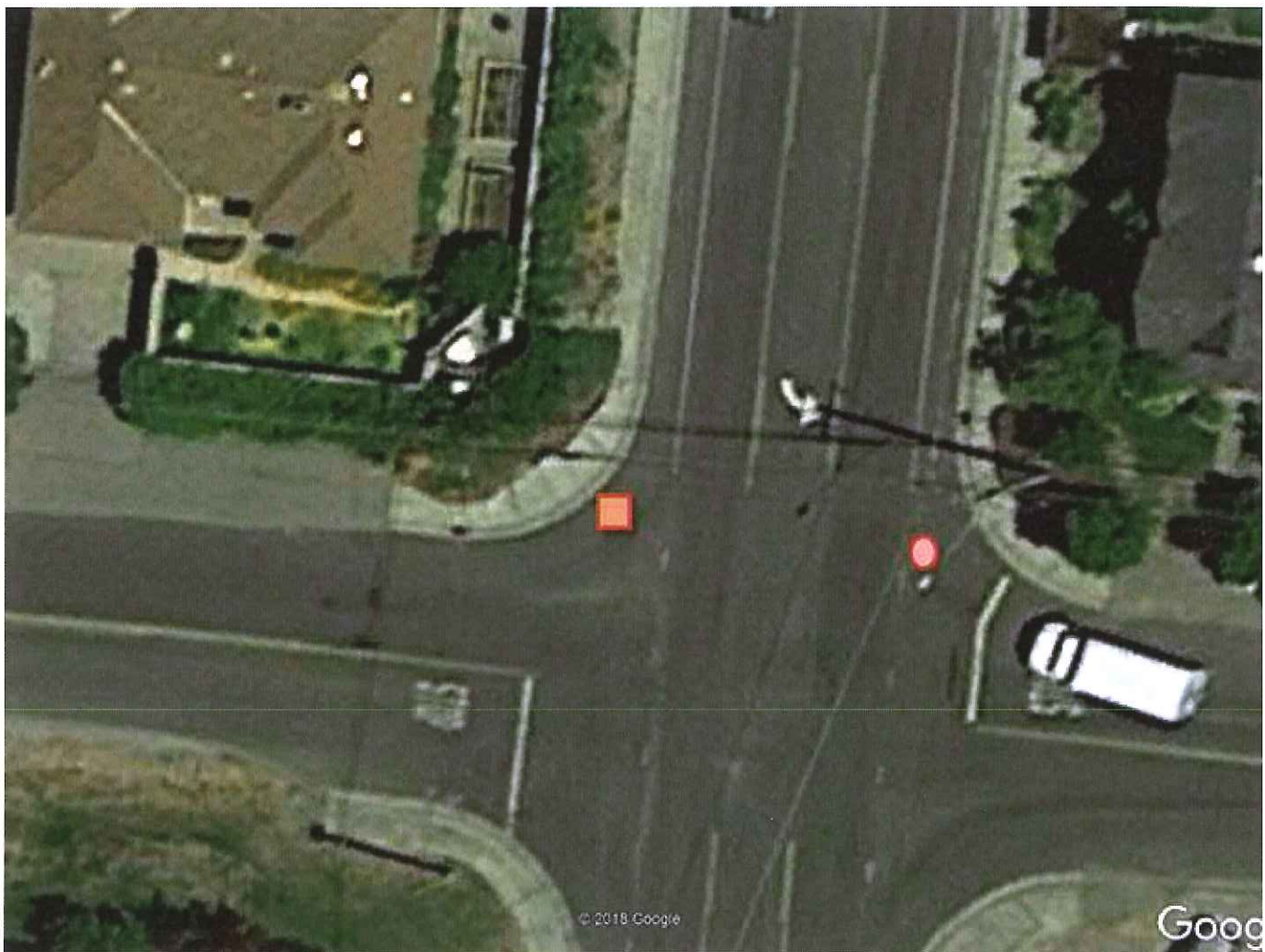
Cooper, Scott

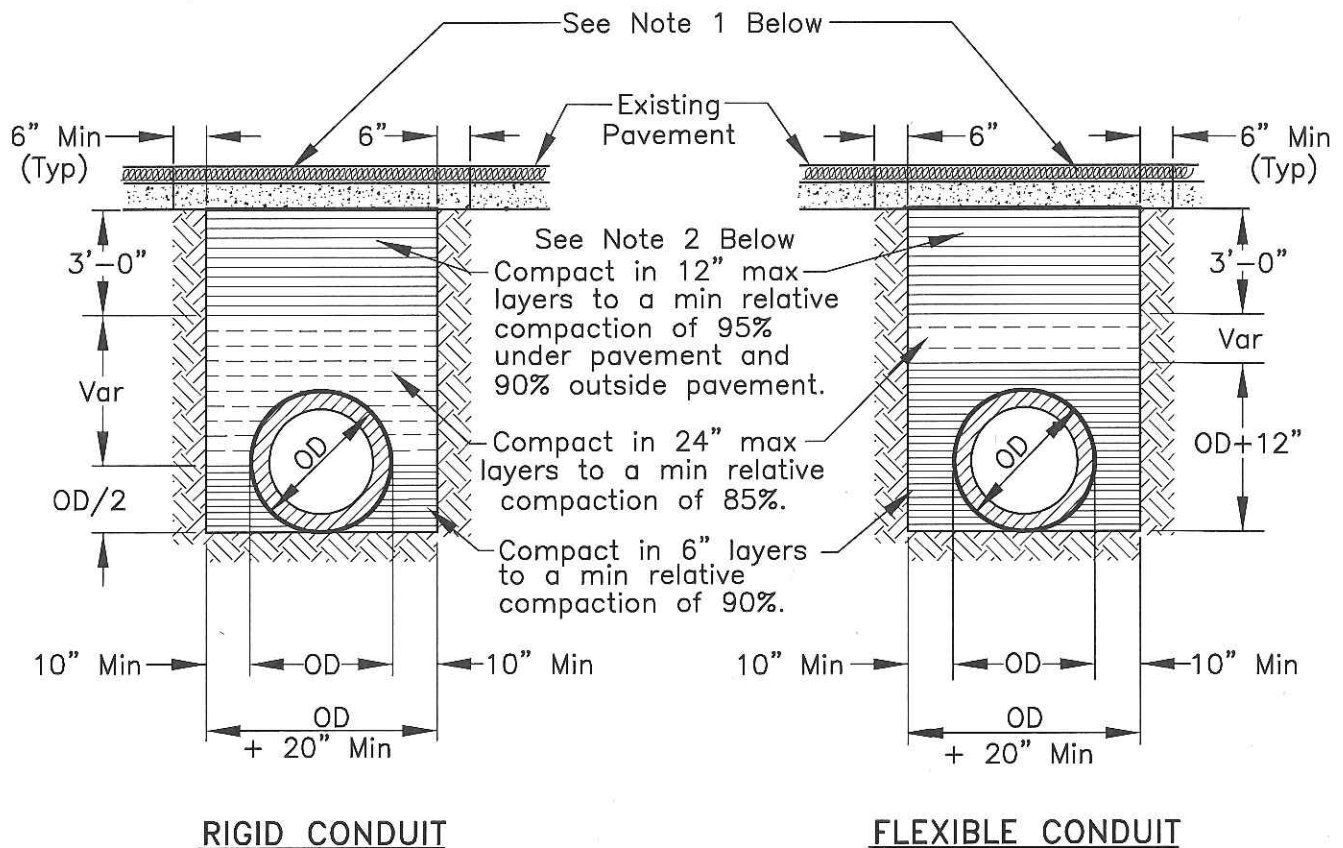
From: Jacob Bejarano <jbejarano@ksninc.com>
Sent: Friday, October 26, 2018 2:23 PM
To: Cooper, Scott
Subject: RE: Woodbridge Sanitary District Encroachment Permit

Task 1: Intersection of Augusta & Chestnut, Woodbridge, CA: There is a small spot repair that will need a small sawcut of approx. 5' x 5' or less (see square shape in photo below) into asphalt (not in the curb and gutter) to repair one 3.5' section of sewer pipe. Backfill, compact, ac per County Standard details

Task 2: CIPP rehab of the a 300 lf sewer line. A traffic plan is submitted to get into and out of the manhole (Circle in photo below).

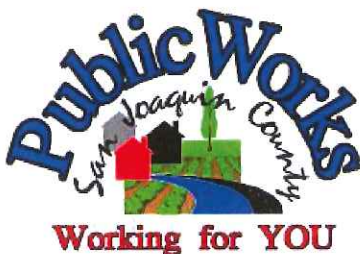
Task 3: Dig and replace 20lf and cleanout of an end run sewer line in an alleyway. I don't think this should have been included in the permit as it is in the Sanitary District Easement. Please strike this repair from the permit unless the County oversee's alley way repairs as well.





NOTES:

1. New pavement shall be 1" thicker than existing pavement, minimum of 0.25 Ft. New base shall be 1" thicker than existing base, min of 0.50 Ft.
2. Select native material or imported granular material as approved by the Director of Public Works. Backfill with materials equal to or better than the existing pavement and base in quality.
3. Relative compaction of materials shall be tested in accordance with the State of California, Dept. of Transportation Testing Manuals, test method No. California 216 or 231.
4. All existing pavement shall be neatly cut to line prior to trench excavation.
5. Jetting or ponding will be permitted within the street right-of-way with a 3 year bond, when approved by the Director of Public Works.
6. When shown by soil composition and compactability, ninety percent (90%) compaction may be used, when approved by the Director of Public Works.
7. Special bedding and backfill requirements may be shown on the plans or specified in the special provisions.



TYPICAL TRENCH BACKFILL

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS

Date: DEC 2014

Approved by:

Thomas M. Gull

No.	Revision	Description	Date

Std. Dwg. No.

R-29

GENERAL PROVISIONS

GOVERNING INSTALLATION OF SUBSURFACE STRUCTURES AND PIPELINES WITHIN COUNTY ROAD RIGHTS-OF-WAY

PUBLIC CONVENIENCE AND SAFETY:

- A. Before obstructing any private driveway entrance or County road traveled way with a trench, spoil bank, equipment or other barrier permitted for any prolonged period of time, the Permittee shall notify the known users of the respective thoroughfare(s) involved, and shall provide access for vehicular and pedestrian traffic to and from the road.
 - 1. Unless otherwise permitted, all work shall be conducted in such a manner that no less than one lane of the existing County road traveled way will be maintained open to public traffic during working hours in a smooth and safe riding condition(s). Two lanes shall be open after working hours.
 - 2. In cases where road closure is permitted, the permission to close the road will be granted under the condition that the Permittee notify the following persons and/or agencies of the time, the period of closure, and the detour route at least twenty-four (24) hours prior to said road closure.
 - a. The County of San Joaquin Public Works Department
 - b. The County of San Joaquin Sheriff's Office
 - c. The local postal service
 - d. The local fire district
 - e. The local school district
 - f. The local residents involved
- B. Should hazardous conditions relative to the installation operations warrant flagmen, as many capable flagmen as may be necessary shall be provided by the Permittee and stationed in advance of work to warn and direct traffic.
- C. Lights, signs and barricades shall be furnished, erected and maintained by the Permittee for the adequate warning and convenience of the public, with particular attention to be taken in this regard after dark.
- D. Any excess dirt and/or debris which might be a hazard to either automobile or pedestrian traffic, uncontrollable by lights, signs and barricades, shall be removed from the jobsite daily.

STRUCTURES:

- A. Walls of structures shall be such quality and strength that they will resist all pressures and will not crack or be deformed in such a way as to create a hazard or maintenance problem at any time. Therefore, the minimum structural requirements for concrete pipe placed under county road rights-of-way shall conform to the following American Association of State Highway and transportation Officials (AASHTO) designations.
 - 1. For concrete pipe up to and including thirty-three inches (33") inside diameter, extra strength concrete conforming to AASHTO Designation M 170M.
 - 2. For concrete pipe thirty-six inches (36") inside diameter and larger, reinforced concrete pipe conforming to AASHTO Designation M 170M Class III.
 - 3. Plastic pipe conforming to AASHTO Designation M294.
- B. All concrete pipe joints with County road rights-of-way shall be sealed against leakage and/or infiltration with rubber gasket in conformance with Section 65-1.06 of the California Standard Specifications, or with other methods as may be permitted under the Special Provisions.
- C. Cast-in-place concrete pipe, vitrified clay pipe, spiral welded steel pipe, or corrugated aluminum alloy pipe shall not be installed within the County road rights-of-way unless specifically so stated in the Special Provisions, and only under the conditions as provided.
- D. All structures to be buried within the County rights-of-way shall be set at such elevations as to allow minimum coverage of thirty inches (30") to the centerline of the roadways and twelve inches (12") at the bottoms of borrow ditches each side of the roadways. The depths of structures shall be established below a flat plane extending across the rights-of-way, no part of which shall extend above the elevations stated above; manholes, lampholes, valves, etc. not included. Future surface elevations shall be anticipated as nearly as possible and structure elevations shall be established for future adjustments accordingly.
- E. The County hereby reserves the right to specify in the Special Provisions the gage and surface treatment of any galvanized corrugated metal pipe that is to be installed.
- F. All longitudinal utility facilities are to be established (and dimensioned on sketches) from surveyed centerline of road right-of-way, not from right-of-way (border) lines.

REPAIRS OF THE COUNTY RIGHT-OF-WAY:

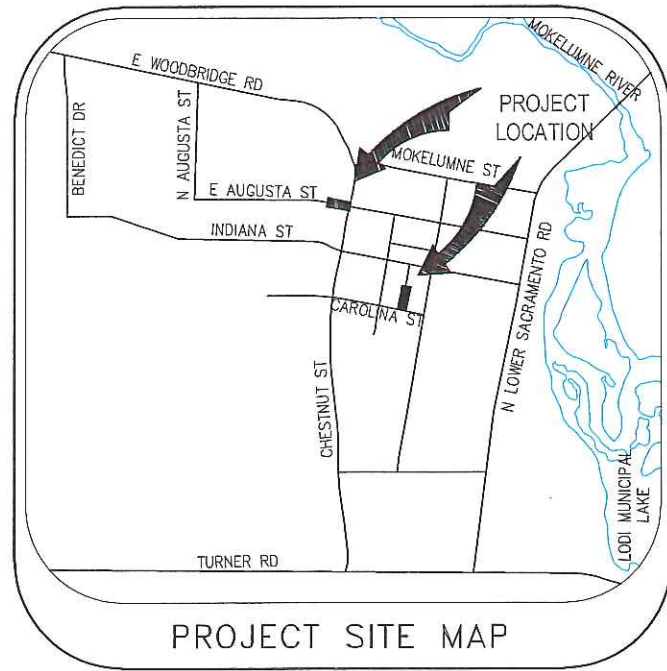
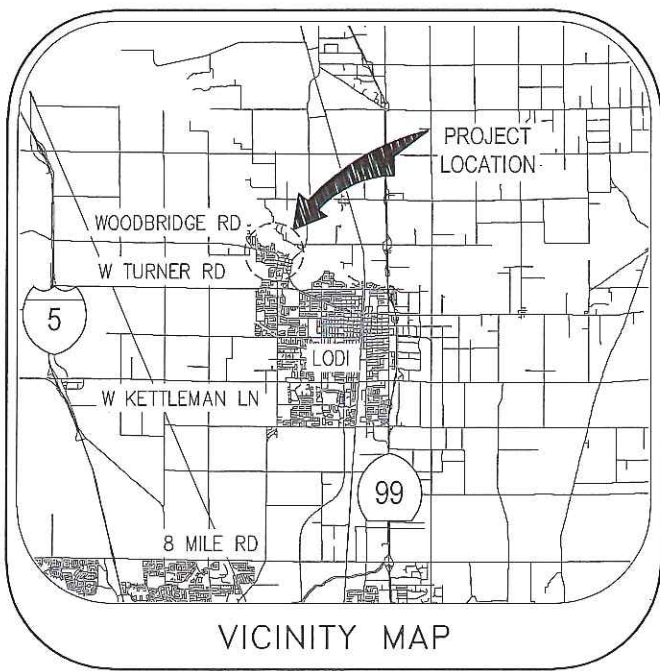
- A. All excavations shall be backfilled and compacted immediately after work therein has been completed.
- B. Trenched shall not be left open farther than 300 feet in advance of pipe laying operations, or 200 feet to the rear thereof, unless otherwise permitted by the Engineer.
- C. Unless otherwise permitted under the Special Provisions, backfill shall be placed and mechanically compacted in such a manner that the relative compaction throughout the entire fill within the County road right-of-way shall conform to the percentages of compaction as shown on the Trench detail.
- D. Backfill material shall be placed in horizontal uniform layers not to exceed in thickness, before compaction, 0.67 foot in the bedding region, one foot where 90% compaction is required, and two-feet where 80% compaction is required.
- E. No portion of the excavation(s) shall be compacted by ponding or jetting unless a maintenance bond is provided.
- F. Gravel backfill material shall be utilized only where specifically so stated on the face of the permit. It shall be compacted by means of a high-frequency internal vibrator, the compactor to be a size and type approved by the Engineer. Points of compaction shall not be greater than 18" centers and to the full depth of the lift.
- G. All pavements, curbs, gutters, sidewalks, borrow ditches, pipes, head walls, road signs, trees, shrubbery, and/or other permanent road facilities impaired by or as a result of construction operations at the construction site(s) occupied by materials and/or equipment, shall be restored immediately upon backfilling of the excavation to the original grades and cross sections, and to a condition as good as, or better than existing prior to construction.
- H. All surfacing materials of roadways and driveway approaches cut or damaged by or as a result of construction operations, shall be replaced within ONE WEEK following the backfilling of excavation, weather permitting, with compacted layers of surfacing materials at least as thick as the existing, and no less than two inches (2") of asphalt concrete over six inches (6") of aggregate base, both as specified below.
 - 1. Asphalt Concrete: Combined mineral aggregate shall conform to the quality and gradation requirements for Type "B" one-half inch (1/2) maximum aggregate, coarse or medium gradation as specified in Section 39 of the California Standard Specifications. The bituminous binder to be mixed with mineral aggregate shall be paving asphalt having (Grade PG 64-10), unless otherwise directed by the Engineer. Placement of asphalt concrete surfacing shall conform to the applicable provisions of Section 39 of the California Standard Specifications.
 - 2. Aggregate Base: Combined mineral aggregates shall conform to the quality and the grading for three-quarter inch (3/4") maximum size aggregate Class 2 Aggregate Base specified in Section 26 of the California Standard Specifications.
- I. Before acceptance of repairs to the County road rights-of-way, all unsightly and detrimental dirt, dust and/or debris shall be removed and the construction areas left in a neat and presentable condition(s).
 - 1. If necessary, County road traveled way and driveway pavements shall be washed with water to remove dirt and dust.
 - 2. Driveway approaches and field entrance pavements damaged by equipment or spoil banks shall be repaired as directed by the Engineer.
- J. Upon request by the County, any settlement, sagging of surface, or cracking of pavement shall be repaired immediately by and at the sole expense of the Permittee for a period of one year following acceptance of the work.

SPECIAL PROVISIONS

Winter Weather Utility Work

1. **SUPERVISION:** The utility company (**permittee**) shall furnish full-time supervision of all work to insure compliance with the permit provision.
2. **START OF WORK:** No work within the County right-of-way shall be started until the utility company representative has made an evaluation of weather conditions and has determined the work can be accomplished under the provisions of the permit.
3. **CLEAN PAVEMENT:** Dirt and mud shall not be deposited on the pavement outside the area of work, and if inadvertently tracked onto the road travel way shall be removed immediately.
4. **DAILY RESTORATION:** Private driveways and road intersections shall be restored daily.
5. **WEATHER-TIGHT CONDITIONS:** All trenches shall be filled and compacted, ditches and other drainage facilities regarded and opened, and the entire work area restored to weather-tight condition prior to any rain.

WOODBIDGE SANITARY DISTRICT
2018 SEWER REPAIRS
WOODBIDGE, CA
AUGUST 2018



SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	NOTES SHEET
3	CIPP REHABILITATION
4	ALLEY WAY REPAIR
5	STANDARD DETAILS
6	TRAFFIC CONTROL

FILE SPEC: P:\0072-Woodbridge\9018_2018_Main\Projects\03_2018_Indiana_Repairs\08_Civil\400_Plans\020_CAD_Sheets\Sheet1-Title.dwg
PLOT DATE: Aug 23, 2018 8:20am

SUBMITTAL	
%	Date

NORTH ORIENTATION

PROJECT ENGINEER
08/22/2018

NO.	DESCRIPTION	DATE	APPR.

DESIGN BY JOB	DRAWING SCALE
DRAWN BY JDP	N.T.S.
CHECK BY NTC	ORIGINAL DRAWING SCALE
HORIZONTAL DATUM CCS83, ZONE 3	0 1/2" 1"
VERTICAL DATUM NAVD88	

www.ksninc.com

711 N Pershing Avenue
Stockton, CA 95203
209-946-0268
1550 Harbor Drive, Suite 212
West Sacramento, CA 95691
916-403-5900

WOODBRIDGE SANITARY DISTRICT
SAN JOAQUIN COUNTY

2018 SEWER REPAIRS
TITLE SHEET

DATE AUGUST 2018
SHEET IDENTIFICATION
SHEET 1 OF 6
KSN PROJECT FILE NO. 0072-9018

FILE SPEC: P:\0072--Woodbridge\9018_2018_Main_L\Projects\03_2018_Indiana_Repairs\08_Civil\400_Plans\020_CAD_Sheets\Sheet02_Notes.dwg
PLOT DATE: Aug 23, 2018 - 3:42pm



SUBMITTAL		
%	Date	

GENERAL NOTES (CIVIL):

- ALL NEW IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THESE PLANS AND SPECIFICATIONS, THE 2014 CALIFORNIA MUTCD, THE LATEST EDITION OF SAN JOAQUIN COUNTY STANDARD SPECIFICATIONS AND PLANS, AND THE 2015 STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND PLANS.
- PRIOR TO ANY WORK BEING PERFORMED, THE CONTRACTOR SHALL CONTACT THE OWNER OR HIS AGENTS SEVENTY-TWO (72) HOURS IN ADVANCE FOR A PRE-CONSTRUCTION MEETING.
- THE INTENT IS THAT THESE PLANS REQUIRE ALL LABOR AND MATERIALS (EXCEPT AS SPECIFIED IN THE SPECIFICATIONS) NECESSARY AND PROPER FOR THE WORK CONTEMPLATED AND THAT THE WORK BE COMPLETED IN ACCORDANCE WITH THEIR TRUE INTENT AND PURPOSE. THE CONTRACTOR SHALL NOTIFY THE DISTRICT ENGINEER IMMEDIATELY REGARDING ANY DISCREPANCIES AND AMBIGUITIES WHICH MAY EXIST IN THE PLANS OR SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE PHYSICAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES BY POTHOLING PRIOR TO CONSTRUCTION AND SHALL CONTACT THE RESPECTIVE UTILITY COMPANIES PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PRESERVATION OF ALL SUCH FACILITIES IN THE AREA OF CONSTRUCTION, AND SHALL NOTIFY UTILITY COMPANIES FORTY-EIGHT HOURS IN ADVANCE OF ANY CONSTRUCTION (UNDERGROUND SERVICE ALERT 1-800-227-2600). UTILITY COMPANY(S) SHALL BE RESPONSIBLE TO ADJUST TO PROPOSED PAVEMENT OR CONCRETE GRADE ALL SURFACE FACILITIES, UNLESS OTHERWISE NOTED IN THESE PLANS.
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 1540 (A)(1) OF THE CONSTRUCTION SAFETY ORDERS (TITLE 8 CALIFORNIA ADMINISTRATION CODE SECTION 1540), ISSUED BY THE OCCUPATIONAL SAFETY AND HEALTH STANDARDS BOARD PURSUANT TO THE CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT OF 1973, AS AMENDED, WHICH STATES:
PRIOR TO OPENING AN EXCAVATION, EFFORT SHALL BE MADE TO DETERMINE WHETHER UNDERGROUND INSTALLATION: I.E., SEWER, WATER, FUEL, ELECTRIC LINES, ETC., WILL BE ENCOUNTERED AND, IF SO, WHERE SUCH UNDERGROUND INSTALLATIONS ARE LOCATED. WHEN THE EXCAVATION APPROACHES THE APPROXIMATE LOCATION OF SUCH AN INSTALLATION, THE EXACT LOCATION SHALL BE DETERMINED BY CAREFUL PROBING OR AND DIGGING; AND WHEN IT IS UNCOVERED, ADEQUATE PROTECTION SHALL BE PROVIDED FOR THE EXISTING INSTALLATION. ALL KNOWN OWNERS OF UNDERGROUND FACILITIES IN THE AREA CONCERNED SHALL BE ADVISED OF PROPOSED WORK AT LEAST 48 HOURS PRIOR TO THE START OF ACTUAL EXCAVATION.
- THE CONTRACTOR SHALL PROVIDE SHORING, BRACING, SLOPING OR PROVISIONS TO PROTECT WORKERS FOR ALL AREAS TO BE EXCAVATED TO A DEPTH OF FIVE FEET OR MORE. SAID PROTECTION TO BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL, STATE, AND FEDERAL REGULATIONS (CAL-OSHA, OSHA).
- ASBESTOS CEMENT MATERIALS SHALL NOT BE USED IN THE CONSTRUCTION OF ANY FACILITIES WITHIN THIS PROJECT.
- DURING CONSTRUCTION THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF EXISTING FACILITIES.
- CONTRACTOR IS RESPONSIBLE FOR REFERENCING EXISTING MONUMENTS AND/OR PROPERTY CORNER PRIOR TO COMMENCEMENT OF WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND LICENSES REQUIRED FOR THE CONSTRUCTION AND COMPLETION OF PROJECT.
- ALL WORK IN THE PUBLIC RIGHT-OF-WAY IS SUBJECT TO THE APPROVAL AND ACCEPTANCE OF SAN JOAQUIN COUNTY PUBLIC WORKS DEPARTMENT.
- CONTRACTOR SHALL COORDINATE THE REMOVAL AND/OR RELOCATION OF ALL EXISTING UTILITIES IF NEEDED WITH RESPECTIVE UTILITY COMPANIES.
- THE CONTRACTOR SHALL ADJUST TO GRADE ALL FACILITIES (INCLUDING, BUT NOT LIMITED TO VALVE BOXES, PULL BOXES, MAINTENANCE HOLE RIM AND COVERS, METER BOXES) WITHIN THE LIMITS OF WORK AND/OR AS DIRECTED BY ENGINEER. THE FACILITIES SHALL BE ADJUSTED AS SET FORTH IN WSD STANDARD DRAWING NO. 4 AND/OR AS DIRECTED BY ENGINEER.
- THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, BARRICADES, SIGNS, FLAGMEN OR OTHER DEVICES NECESSARY FOR PUBLIC SAFETY.
- ALL STATIONS REFER TO DISTANCES ALONG STREET CENTERLINE, PERPENDICULAR TO OR RADIALLY OPPOSITE CENTERLINE STATIONS, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL DEMOLISH, EXCAVATE, REMOVE AND DISPOSE OF ANY EXISTING CONCRETE OR ASPHALT CONCRETE PAVING, CONCRETE CURB, GUTTER AND SIDEWALK AND DELETERIOUS MATERIAL AS REQUIRED TO CONSTRUCT THE CONTRACT WORK, ALL EXCESS MATERIAL GENERATED BY DEMOLITION, EXCAVATION AND GRADING SHALL BE DISPOSED OF BY THE CONTRACTOR.

- CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOBSITE CONDITIONS DURING THE COURSES OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE DISTRICT, COUNTY AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DISTRICT OR THE ENGINEER.

ENVIRONMENTAL NOTES:

- THE CONTRACTOR SHALL MAINTAIN AIR POLLUTION CONTROLS BY NOT DISCHARGING SMOKE, DUST, OR ANY OTHER AIR CONTAMINANTS INTO THE ATMOSPHERE IN SUCH QUANTITY AS WILL VIOLATE THE REGULATIONS OF ANY LEGALLY CONSTITUTED AUTHORITY. HE SHALL ALSO ABATE DUST NUISANCE BY CLEANING, SWEEPING AND SPRINKLING WITH WATER, OR OTHER MEANS AS NECESSARY. THE USE OF WATER IN AN AMOUNT WHICH RESULTS IN MUD ON PUBLIC ROADS IS NOT ACCEPTABLE AS A SUBSTITUTE FOR SWEEPING OR OTHER METHODS.
- THE CONTRACTOR SHALL EXERCISE EVERY REASONABLE PRECAUTION TO PROTECT STREAMS, WATERWAYS AND OTHER BODIES OF WATER FROM POLLUTION WITH FUELS, OIL, BITUMENS, CALCIUM CHLORIDE, AND OTHER HARMFUL MATERIALS AND SHALL CONDUCT AND SCHEDULE HIS OPERATIONS SO AS TO AVOID OR MINIMIZE MUDDYING AND SILTING OF SAID WATERS. CARE SHALL BE EXERCISED TO PRESERVE ROADSIDE VEGETATION BEYOND THE LIMITS OF CONSTRUCTION.
- DURING THE COURSE OF CONSTRUCTION, ANY AREAS GENERATING DUST BY THE CONTRACTOR SHALL BE KEPT WELL WATERED. DURING WET CONDITIONS, CONTRACTOR SHALL KEEP ALL ROADWAYS ADJACENT TO THE PROJECT AREA WHICH ARE USED BY THE CONTRACTOR, DISTRICT AND PUBLIC, FREE AND CLEAR FROM MUD.
A. CROP DAMAGE: THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL TO PREVENT CROP DAMAGE AND FOR ANY AREAS IN ADDITION TO THOSE MENTIONED THAT GENERATE DUST AND/OR OTHER CONDITIONS WHICH MIGHT DAMAGE CROPS.
B. NON-WORK DAYS: THE CONTRACTOR MAY BE RESPONSIBLE FOR DUST CONTROL IN ANY PROJECT OR CROP AREAS WHICH ARE USED BY THE CONTRACTOR.
- THROUGHOUT ALL PHASES OF CONSTRUCTION, INCLUDING SUSPENSION OF WORK, AND UNTIL FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL KEEP THE WORK SITE CONDITIONS CLEAN AND FREE FROM RUBBISH AND DEBRIS.
- THE CONTRACTOR SHALL PRESERVE AND PROTECT ANY PLANTS AND TREES AS MAY BE DESIGNATED AND MARKED BY THE ENGINEER AT THOSE REPAIR SITES AND DESIGNATED PRIOR TO COMMENCEMENT OF SITE WORK. SOME PRUNING AND TRIMMING OF BRANCHES MAY BE REQUIRED.
- RIPRAP SHALL BE CAREFULLY PLACED, BY HAND IF NECESSARY, AROUND THE BASE OF ANY DESIGNATED PLANTS AND TREES.

DUST AND MUD CONTROL:

- DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL KEEP ALL CONSTRUCTION AREAS, HAUL ROADS, OTHER ROADWAYS, AND OTHER USE AREAS WHERE DUST IS GENERATED WELL WATERED.
- THE CONTRACTOR MAY BE REQUIRED TO DEDICATE AT LEAST ONE (1) WATER TRUCK FOR THE ALLEVATION OR PREVENTION OF DUST NUISANCE FOR, BUT NOT LIMITED TO, THE FOLLOWING AREAS:
A. PROJECT AREA
B. ACCESS ROADS

CONSTRUCTION NOTES:

- THE CONTRACTOR SHALL LAYOUT IMPROVEMENTS FROM THE DIMENSIONS SHOWN ON THE PLANS. ANY CLARIFICATION ON CONFLICTS, DISCREPANCIES OR AMBIGUITIES SHOULD BE DIRECTED TO THE ENGINEER PRIOR TO THE CONSTRUCTION OF THE IMPROVEMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MATCHING EXISTING SURROUNDING LANDSCAPE AND OTHER IMPROVEMENTS WITH A TRANSITION IN PAVING, CURBS, GUTTERS, SIDEWALKS, GRADES, ETC., AND TO AVOID ANY ABRUPT OR APPARENT CHANGES IN CROSS SLOPES, LOW SPOTS OR HAZARDOUS CONDITIONS.
- WHERE PAVEMENT IS TO BE EXTENDED OR REMOVED, EXISTING PAVEMENT SHALL BE SAW-CUT OR GRIND TO A NEAT LINE PRIOR TO PLACING NEW ASPHALT CONCRETE.
- ALL NEW CONCRETE FLATWORK SHALL BE DRILLED AND DOWELED AND/OR KEVED INTO EXISTING FLATWORK IN ACCORDANCE WITH COUNTY STANDARD PLANS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY SIGNS FOR ALL REGULATORY TRAFFIC SIGNS REMOVED DURING THE CONSTRUCTION.

- IT IS PROHIBITED TO DISCHARGE ANYTHING EXCEPT CLEAN WATER INTO THE SANITARY SEWER SYSTEM UNLESS APPROVED BY THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY SCHEDULING INSPECTION AND TESTING OF ALL FACILITIES CONSTRUCTED UNDER THIS CONTRACT. ALL TESTING SHALL CONFORM TO THE REGULATORY AGENCY'S STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL MAINTAIN A NEATLY MARKED SET OF FULL-SIZED AS-BUILT RECORD DRAWINGS SHOWING THE FINAL LOCATION AND LAYOUT OF ALL STRUCTURES AND OTHER FACILITIES. WHERE NECESSARY, SUPPLEMENTAL DRAWINGS SHALL BE PREPARED AND SUBMITTED BY THE CONTRACTOR.
- PRIOR TO ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL DELIVER TO THE ENGINEER, ONE SET OF NEATLY MARKED AS-BUILT RECORD DRAWINGS SHOWING THE INFORMATION REQUIRED ABOVE.
- THE DISCHARGE OF CHLORINATED AND DECHLORINATED WATER INTO THE STORM DRAIN SYSTEM IS PROHIBITED. THE DISCHARGE OF CHLORINATED OR DECHLORINATED WATER INTO SANITARY SEWER SYSTEM REQUIRES PRIOR APPROVAL FROM MUD.
- DUST CONTROL SHALL BE PROVIDED AT ALL TIMES, AT THE CONTRACTOR'S EXPENSE, TO MINIMIZE ANY DUST NUISANCE AND SHALL BE IN ACCORDANCE WITH SECTION 10 OF CALTRANS STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL MAINTAIN CONTINUOUS SEWER SERVICE DURING ALL REPAIR WORK THROUGH THE TEMPORARY USE OF SEWER PLUGS, BYPASS PUMPING, OR VACUUM TRUCKS. SEWER BACKUPS SHALL NOT BE ALLOWED TO RISE TO LESS THAN TWO FEET FROM THE LAND SURFACE FOR A PERIOD LONGER THAN ONE HOUR.
- FINAL PAVEMENT WORK SHALL NOT OCCUR WITHIN THE ROAD RIGHT-OF-WAY PRIOR TO COMPLETION OF UTILITY RELOCATION WITHOUT SPECIFIC APPROVAL OF THE SJCO DIRECTOR OF PUBLIC WORKS.
- ANY CHANGES TO THE APPROVED IMPROVEMENT PLANS AND SPECIFICATIONS MUST BE PREPARED AND CERTIFIED BY THE "CIVIL ENGINEER", AND SHALL BE SUBMITTED TO THE SJCO DIRECTOR OF PUBLIC WORKS FOR APPROVAL PRIOR TO IMPLEMENTATION.
- WHENEVER PAVEMENT IS BROKEN OR CUT IN THE INSTALLATION OF THE WORK COVERED BY THE SPECIFICATIONS, THE PAVEMENT SHALL BE REPLACED AFTER PROPER BACKFILLING WITH PAVEMENT MATERIALS EQUAL TO OR BETTER THAN THE MATERIALS USED IN THE ORIGINAL PAVING.
- DRAINAGE FACILITIES SHALL BE MAINTAINED DURING PERIODS OF INCLEMENT WEATHER, AND RESTORED TO THEIR ORIGINAL CONDITIONS UPON COMPLETION OF THE WORK.
- CONTRACTOR SHALL PROTECT ALL BENCHMARKS AND SURVEYED MONUMENTS DURING CONSTRUCTION. DAMAGED OR REMOVED MONUMENTS SHALL BE REPLACED, WITH THE SAME ORDER OF ACCURACY, AT THE CONTRACTOR'S EXPENSE.

UTILITY NOTES:

- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND SHALL CONTACT THE RESPECTIVE UTILITY COMPANIES PRIOR TO COMMENCEMENT OF WORK. HE SHALL BE RESPONSIBLE FOR THE LOCATION AND PRESERVATION OF ALL SUCH FACILITIES IN THE AREA OF CONSTRUCTION, AND SHALL NOTIFY UTILITIES TWENTY-FOUR (24) HOURS IN ADVANCE OF ANY CONSTRUCTION. (UNDERGROUND SERVICE ALERT (800) 642-2444).

SPECIAL NOTES:

- THE NOTES PLACED ON THIS PLAN SHEET ARE TO BE USED AS A GUIDE FOR VARIOUS TOPICS DESCRIBED. SPECIFIC DETAILS AND FURTHER EXPLANATIONS OF THE VARIOUS NOTES ARE DESCRIBED AT LENGTH IN THE SPECIFICATIONS AND WITHIN THESE PLANS.
- THE CONTRACTOR SHALL NOTIFY AFFECTED RESIDENTS PRIOR TO CONSTRUCTION. CONTRACTOR WILL SUBMIT CONTACT AND COMMUNICATION PLAN FOR AFFECTED RESIDENTS TO ENGINEER PRIOR TO PRECONSTRUCTION MEETING. AREAS DAMAGED BY WORK INCLUDING WASTE WATER BACKUPS TO HOME OR BUSINESS SHALL BE REPAIRED OR RESTORED TO A CONDITION EQUAL OR BETTER THAN THE ORIGINAL CONDITION AT CONTRACTORS EXPENSE.
- PRIOR TO WET-OUT CONTRACTOR SHALL DETERMINE IF SPOT REPAIRS ARE REQUIRED FOR PROPER INSTALLATION OF LINER AS REQUIRED BY LINING MANUFACTURER.
- THE CONTRACTOR SHALL PERFORM MATERIALS TESTING BY AN INDEPENDENT THIRD PARTY LABORATORY AND PRE-APPROVED BY THE DISTRICT. FINAL PAYMENT FOR THE PROJECT SHALL BE WITHHELD PENDING RECEIPT AND APPROVAL OF THE TEST RESULTS
- PRIOR TO ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL DELIVER TO THE ENGINEER, CCTV FOOTAGE OF THE SANITARY SEWER SYSTEM SHOWING THE INSTALLED CURED-IN-PLACE PIPE.

- CIPP SYSTEM SHALL MEET THE MINIMUM CHEMICAL-RESISTANCE REQUIREMENTS AS SHOWN BELOW:

TAP WATER	100%
NITRIC ACID	5.0%
PHOSPHORIC ACID	10%
SULFURIC ACID	10%
GASOLINE	100%
VEGETABLE OIL	100%
DETERGENT OR SOAP	0.1%

- TEST SPECIMENS SHALL OBTAIN THE FOLLOWING STRUCTURAL STRENGTHS PER ASTM F1743:

PROPERTY	ASTM TEST METHOD	MINIMUM VALUE
TENSILE STRENGTH	ASTM D638	3,000 PSI
FLEXURAL STRENGTH	ASTM D790	4,500 PSI
SHORT-TERM FLEXURAL MODULUS OF ELASTICITY	ASTM D790	250,000 PSI


- CONTRACTOR SHALL AT ALL TIMES LIMIT THE SEWER SYSTEM BACKUPS IN MAINS AND LATERALS, AND REPORT ANY PROBLEMS TO THE WOODBRIDGE SANITARY DISTRICT (209) 368-0900 IMMEDIATELY. CONTRACTOR SHALL AT ALL TIMES COORDINATE WITH HOMEOWNERS/SEWER SYSTEM USERS PRIOR TO TAKING A RESPECTIVE SEWER SERVICE CONNECTION OFF LINE TO AVOID SPILLS AND OR BACK UPS INTO PRIVATE PROPERTY.



NO.	DESCRIPTION	DATE	APPR.

DESIGN BY	
DRAWN BY	JOB
CHECK BY	NTC
HORIZONTAL DATUM	CCS83, ZONE 3
VERTICAL DATUM	NAVD88

DRAWING SCALE	
ORIGINAL DRAWING SCALE	0 1/2" 1"



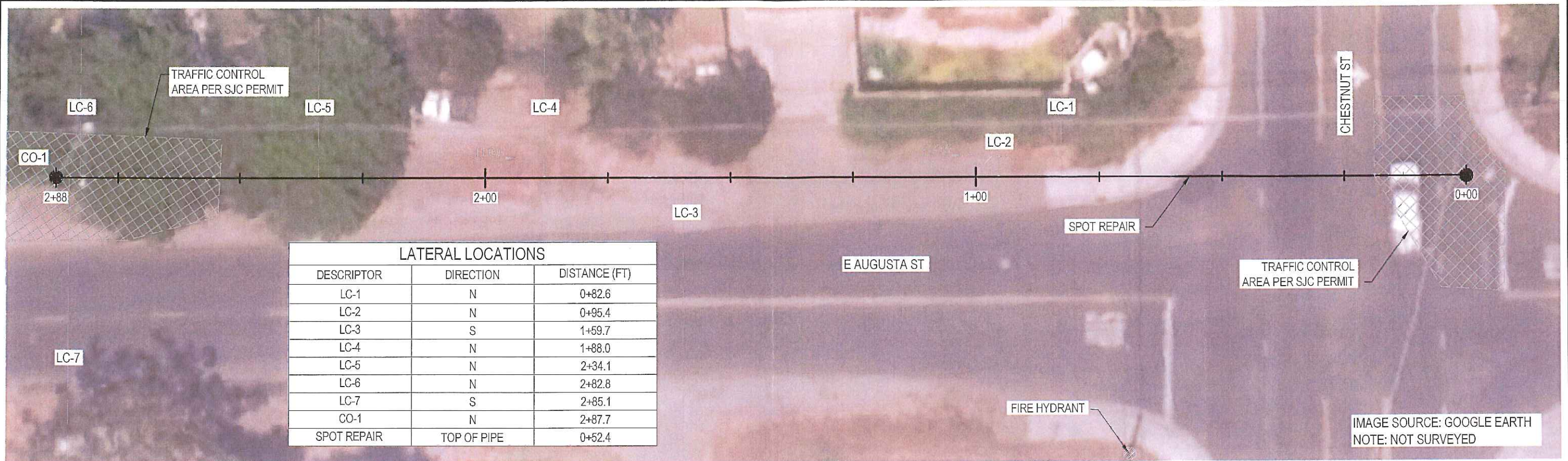
KJELDEN SINNOCK NEUDECK
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711 N Pershing Avenue
Stockton, CA 95203
209-946-0268

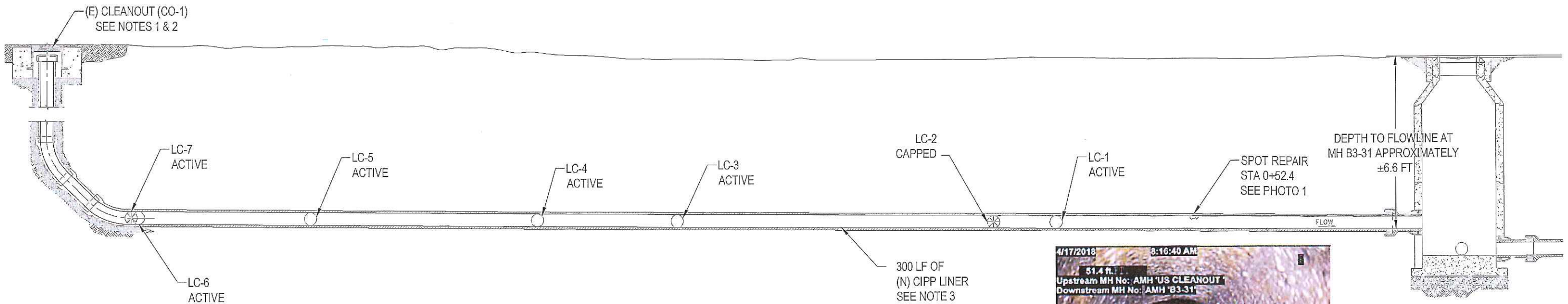
1550 Harbor Drive, Suite 212
West Sacramento, CA 95691
916-403-6900

WOODBRIDGE SANITARY DISTRICT SAN JOAQUIN COUNTY	DATE AUGUST 2018
	SHEET IDENTIFICATION
2018 SEWER REPAIRS NOTES	
SHEET 2 OF 6 KSN PROJECT FILE NO. 0072-9018	

FILE SPEC: P:\0072-Woodbridge\9018_2018_Maint_Proj\03_2018_Indiana_Repairs\08_Civil\400_Plans\020_CAD\Sheets\Sht03-Chestnut_CIPP.dwg
PLOT DATE: Aug 23, 2018 - 11:07am



LATERAL LOCATIONS		
DESCRIPTOR	DIRECTION	DISTANCE (FT)
LC-1	N	0+82.6
LC-2	N	0+95.4
LC-3	S	1+59.7
LC-4	N	1+88.0
LC-5	N	2+34.1
LC-6	N	2+82.8
LC-7	S	2+85.1
CO-1	N	2+87.7
SPOT REPAIR	TOP OF PIPE	0+52.4

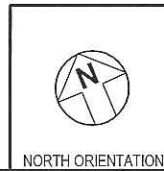


NOTES:

1. CONTRACTOR TO FIELD LOCATE CLEANOUT COVER AND RAISE TO GRADE
2. CONTRACTOR TO INCLUDE EXIT PIT IF UNABLE TO PULL LINER THROUGH CLEANOUT. PRESERVE AND REINSTALL CLEANOUT UPON LINER COMPLETION IF EXIT PIT IS NECESSARY.
3. CONTRACTOR TO PROVIDE UP TO AN ADDITIONAL 5 FT OF CURED LINER FOR SAMPLES AND TEST SPECIMENS



SUBMITTAL	
%	Date



NO.	DESCRIPTION	DATE	APPR.

DESIGN BY	JOB
DRAWN BY	JDP
CHECK BY	NTC
HORIZONTAL DATUM	CCS83, ZONE 3
VERTICAL DATUM	NAVD88

DRAWING SCALE
H: 1"=10'
V: N.T.S.
ORIGINAL DRAWING SCALE
0 1/2" 1"

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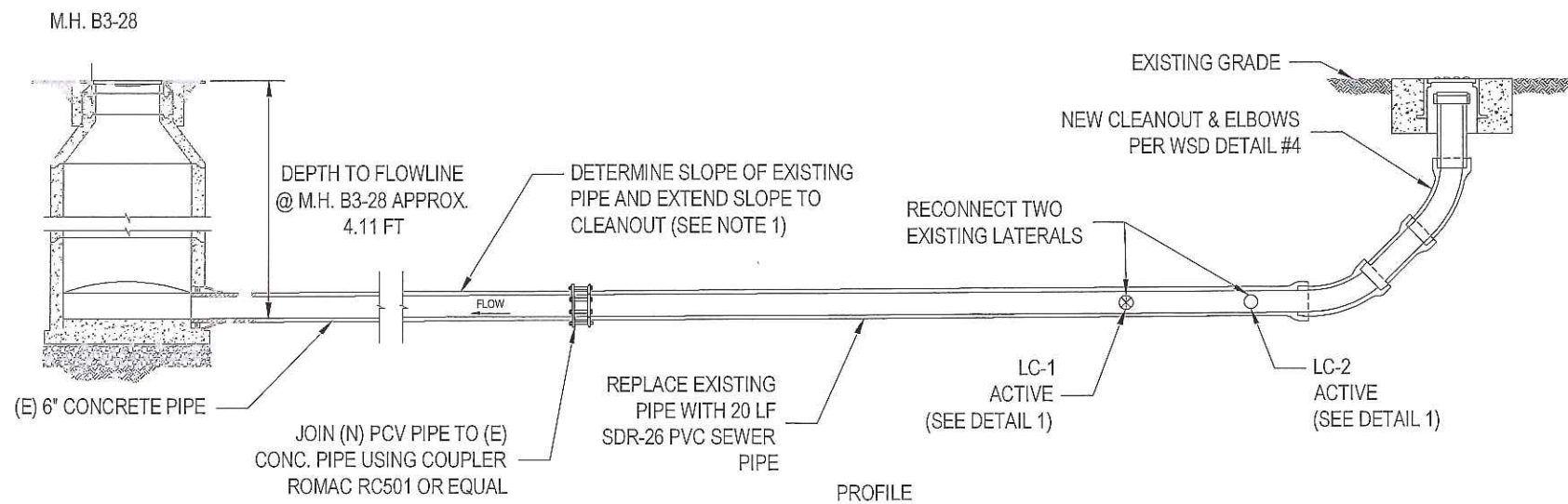
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West Sacramento, CA 95691
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WOODBIDGE SANITARY DISTRICT
SAN JOAQUIN COUNTY

2018 SEWER REPAIRS
CIPP REHABILITATION
PLAN AND PROFILE

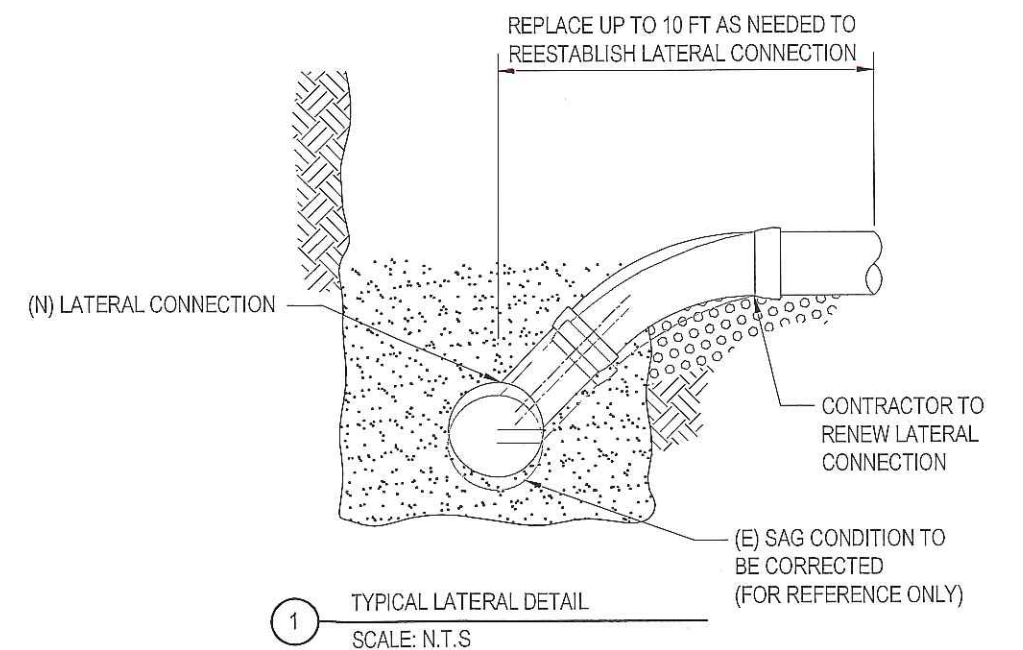
DATE	AUGUST 2018
SHEET IDENTIFICATION	
SHEET 3 OF 6	
KSN PROJECT FILE NO.	0072-9018

FILE SPEC: P:\0072-Woodbridge\9018_2018_Main\Projects\03_2018_Indiana_Repairs\08_Civil\400_Plans\020_CAD\Sheets\Sheet04-Alley_Sewer.dwg
PLOT DATE: Aug 23, 2018 - 11:10am



NOTES:

1. CONTRACTOR TO GRADE CHECK THE (E) SEWER FLOWLINE FROM MH TO REPAIR SECTION TO REESTABLISH DESIGN SLOPE. CONTRACTOR TO APPLY DESIGN SLOPE TO THE NEW PIPE & SUBGRADE THROUGH TO CLEANOUT CONNECTION. MINIMUM SLOPE SHALL BE 0.005 FT/FT
2. CONTRACTOR TO SCARIFY, FILL WITH SAND & RECOMPACT SUBGRADE TO DESIGN ELEVATION.

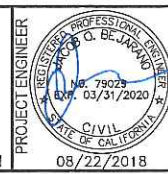
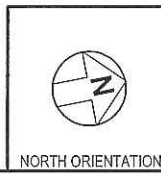


NOTES:

1. POT HOLE EXISTING LATERALS.



SUBMITTAL	
%	Date



NO.	DESCRIPTION	DATE	APPR.

DESIGN BY	JOB
DRAWN BY	MSK
CHECK BY	NTC
HORIZONTAL DATUM	CCS83, ZONE 3
VERTICAL DATUM	NAVD88

DRAWING SCALE	H: 1"=10'
	V: N.T.S.
ORIGINAL DRAWING SCALE	0 1/2" 1"

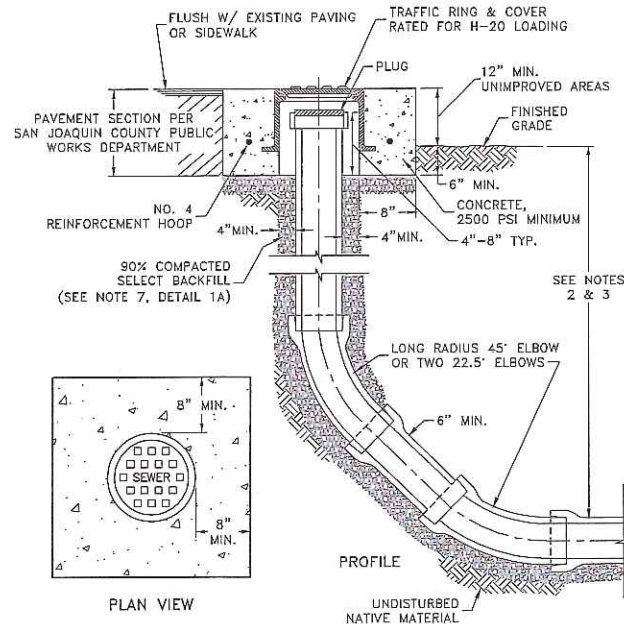
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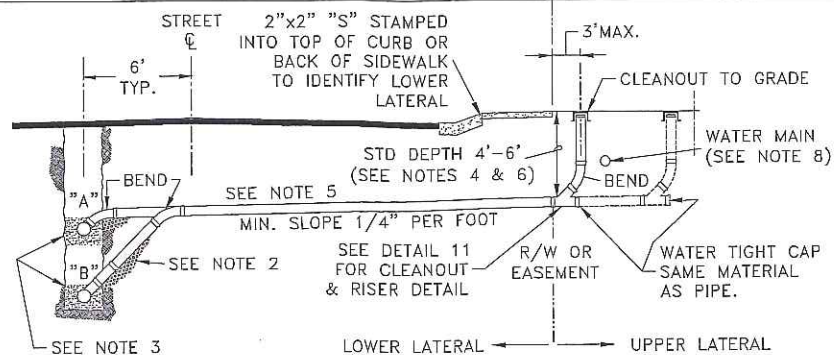
WOODBRIDGE SANITARY DISTRICT SAN JOAQUIN COUNTY
2018 SEWER REPAIRS CAROLINA ST ALLEY PIPE REPAIR PLAN AND PROFILE

DATE AUGUST 2018
SHEET IDENTIFICATION
SHEET 4 OF 6
KSN PROJECT FILE NO. 0072-9018



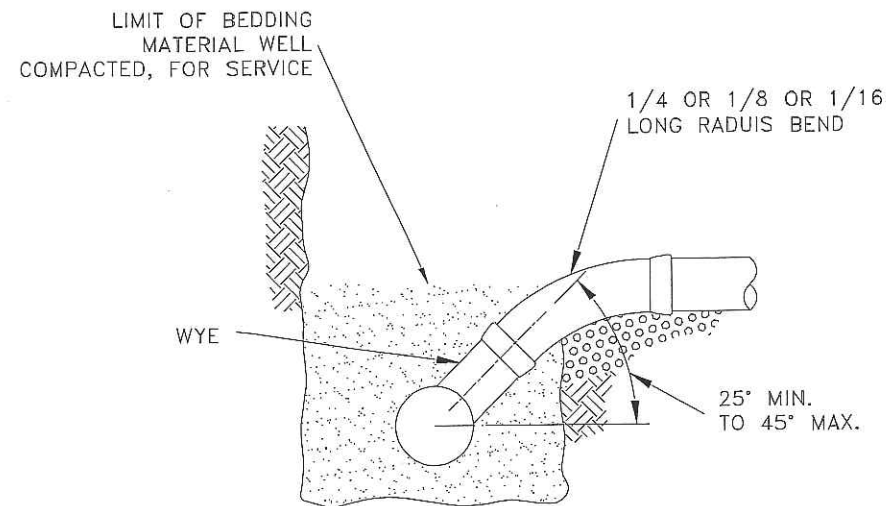
- NOTES:
1. ALL PIPE FITTINGS SHALL BE THE SAME SIZE AND MATERIAL AS THE HORIZONTAL PIPE TO WHICH THEY CONNECT. JOINT SHALL BE AS SPECIFIED FOR THE TYPE OF PIPE USED.
 2. MINIMUM COVER OF 30 INCHES FROM TOP OF PIPE TO FINISH GRADE IN NON-TRAVEL AREAS.
 3. MINIMUM COVER OF 30 INCHES FROM TOP OF PIPE TO SUB GRADE IN ROADS AND STREETS.

4 WSD STANDARD DETAIL NO. 4
SCALE: N.T.S



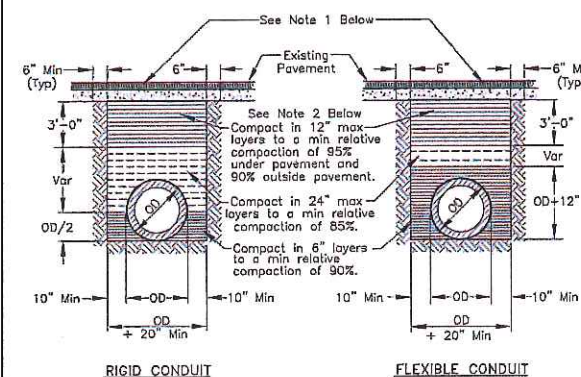
- NOTES:
1. ALL RESIDENTIAL LOWER LATERALS SHALL BE 4" INSIDE DIAMETER UNLESS OTHERWISE NOTED. ALL COMMERCIAL SERVICE LINES SHALL BE 6" PVC MIN. SDR 35 UNLESS OTHERWISE APPROVED BY DISTRICT ENGINEER.
 2. LOWER LATERALS SHALL HAVE PIPE BEDDING AND SELECT BACKFILL MATERIAL FROM OD/8 OR 4" MINIMUM BELOW TO 12" ABOVE THE PIPE BELL PER DETAIL 1.
 3. CONTRACTOR SHALL USE THE MOST APPROPRIATE TYPE CONNECTION (A OR B) FOR THE PARTICULAR SITUATION. SEE DETAIL 10B FOR TYPE A & TYPE B DETAILS.
 4. THE STANDARD LOWER LATERAL HAS 4' TO 6' OF COVER AT THE EDGE OF RIGHT-OF-WAY OR EASEMENT. THE STANDARD COVER MAY NEED TO BE DEEPER SHOULD OTHER UTILITIES BE LOCATED IN ADJACENT AREAS. SEE NOTE 8 BELOW.
 5. WHEN THE SEWER MAIN DEPTH IS SUCH THAT MINIMUM COVER AT PROPERTY LINE CANNOT BE MET, THE MINIMUM SLOPE OF 1/4" PER FOOT SHALL GOVERN THE COVER.
 6. MINIMUM SPECIFIED COVER AT THE EDGE OF RIGHT-OF-WAY OR EASEMENT SHALL BE MEASURED FROM EXISTING GROUND SURFACE OR EDGE OF ADJACENT ROADWAY, WHICHEVER IS LOWER.
 7. A SPECIFIC ELEVATION AT THE EDGE OF RIGHT-OF-WAY OR EASEMENT, WHEN SHOWN ON THE PLANS OR DESIGNATED BY THE ENGINEER, SHALL GOVERN.
 8. A MINIMUM VERTICAL SEPARATION OF 1 FOOT BETWEEN WATER LINE AND SEWER LINES MUST BE MAINTAINED.
 9. CLEANOUT AND RISER MEETING REQUIREMENTS OF FIGURE 11 SHALL BE INSTALLED AT ALL CHANGES IN GRADE OR ALIGNMENT EXCEEDING 22 1/2'.

10A WSD STANDARD DETAIL NO. 10A
SCALE: N.T.S



TYPE A
CONNECTION DETAILS

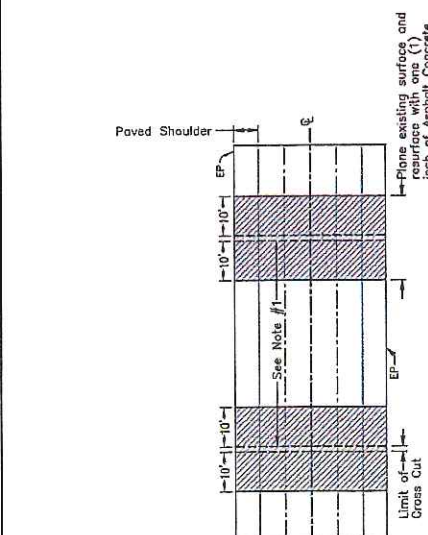
10B WSD STANDARD DETAIL NO. 10B
SCALE: N.T.S



- NOTES:
1. New pavement shall be 1" thicker than existing pavement, minimum of 0.25 Ft. New base shall be 1" thicker than existing base, min of 0.50 Ft.
 2. Select native material or imported granular material as approved by the Director of Public Works. Backfill with materials equal to or better than the existing pavement and base in quality.
 3. Relative compaction of materials shall be tested in accordance with the State of California, Dept. of Transportation Testing Manuals, test method No. California 216 or 231.
 4. All existing pavement shall be neatly cut to line prior to trench excavation.
 5. Jetting or ponding will be permitted within the street right-of-way with a 3 year bond, when approved by the Director of Public Works.
 6. When shown by soil composition and compactability, ninety percent (90%) compaction may be used, when approved by the Director of Public Works.
 7. Special bedding and backfill requirements may be shown on the plans or specified in the special provisions.

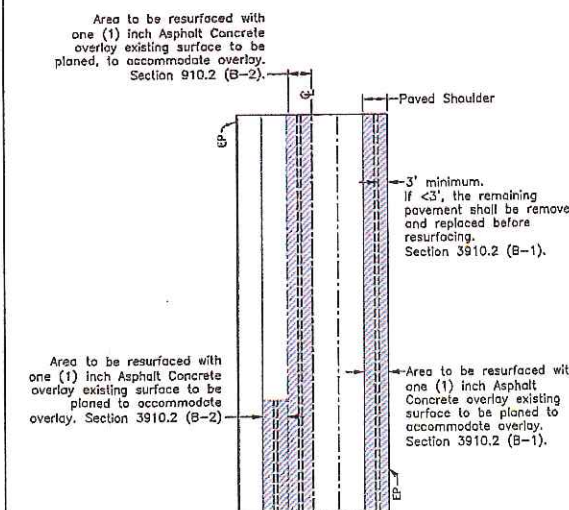
Public Works
COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS
Working for YOU
Approved by: Thomas M. Elise
No. Revision Description Date
Std. Dwg. No. R-29
Date: DEC 2014

- NOTES:
1. If the distance between cross-cuts are less than 150' the entire area between cross-cuts shall be planned and resurfaced with one (1) inch of Asphalt Concrete.
 2. The resurfacing requirements shall be in addition to County Standard Drawing No. R-29.
 3. Resurfacing for Bell Holes shall meet these requirements. If excavation occurs within the shoulder or lane, only that area shall be resurfaced as shown.
 4. If cross-cutting is performed on Local Roads at intervals less than 150' a Seal Coat for that half of the roadway containing the trench can be used in lieu of resurfacing. Section 3910.3 (B-2).



Public Works
TRENCH CUTTING POLICY
CROSS CUTTING OF
COUNTY ROADWAYS
COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS
Working for YOU
Approved by: Thomas M. Elise
No. Revision Description Date
Std. Dwg. No. R-36
Date: DEC 2014

- NOTES:
1. The resurfacing requirements shall be in addition to County Standard Drawing No. R-29.
 2. If longitudinal cuts are required on a Local Road a Seal Coat can be used for that half of the roadway containing the trench. Section 3910.3 (B-1).



Public Works
TRENCH CUTTING POLICY
LONGITUDINAL CUTTING
OF COUNTY ROADWAYS
COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS
Working for YOU
Approved by: Thomas M. Elise
No. Revision Description Date
Std. Dwg. No. R-37
Date: DEC 2014



SUBMITTAL	
%	Date



NO.	DESCRIPTION	DATE	APPR.

DESIGN BY	JOB
DRAWN BY	NTC
CHECK BY	NTC
HORIZONTAL DATUM	CCS83, ZONE 3
VERTICAL DATUM	NAVD88

DRAWING SCALE	N.T.S.
ORIGINAL DRAWING SCALE	0 1/2 1"

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916-403-5900

WOODBRIDGE SANITARY DISTRICT SAN JOAQUIN COUNTY	DATE AUGUST 2018
2018 SEWER REPAIRS STANDARD DETAILS	SHEET IDENTIFICATION SHEET 5 OF 6 KSN PROJECT FILE NO. 0072-9018

Notes for Figure 6H-3—Typical Application 3
Work on the Shoulders

Guidance:

1. A **SHOULDER WORK** sign should be placed on the left side of the roadway for a divided or one-way street only if the left shoulder is affected.

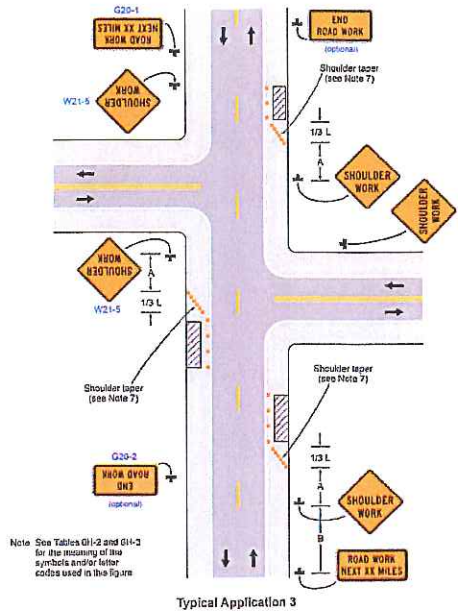
Option:

2. The Workers symbol signs may be used instead of **SHOULDER WORK** signs.
3. The **SHOULDER WORK AHEAD** sign on an intersecting roadway may be omitted where road users emerging from that roadway will encounter another advance warning sign prior to this activity area.
4. For short duration operations of 60 minutes or less, all signs and channelizing devices may be eliminated if a vehicle with activated high-intensity rotating, flashing, oscillating, or strobe lights is used.
5. Vehicle hazard warning signals may be used to supplement high-intensity rotating, flashing, oscillating, or strobe lights.

Standard:

6. Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity rotating, flashing, oscillating, or strobe lights.
7. When paved shoulders having a width of 8 feet or more are closed, at least one advance warning sign shall be used. In addition, channelizing devices shall be used to close the shoulder in advance to delineate the beginning of the work space and direct vehicular traffic to remain within the traveled way.

Figure 6H-3. Work on the Shoulders (TA-3)



Notes for Figure 6H-27—Typical Application 27
Closure at the Side of an Intersection

Guidance:

1. The situation depicted can be simplified by closing one or more of the intersection approaches. If this cannot be done, and/or when capacity is a problem, through vehicular traffic should be directed to other roads or streets.
2. Depending on road user conditions, flagger(s) or uniformed law enforcement officer(s) should be used to direct road users within the intersection.

Standard:

3. At night, flagger stations shall be illuminated, except in emergencies.

Option:

4. Flashing warning lights and/or flags may be used to call attention to the advance warning signs.
5. For short-duration work operations, the channelizing devices may be eliminated if a vehicle displaying high-intensity rotating, flashing, oscillating, or strobe lights is positioned in the work space.
6. A **BE PREPARED TO STOP** sign may be added to the sign series.

Guidance:

7. When used, the **BE PREPARED TO STOP** sign should be located before the **Flagger** symbol sign.
8. **ONE LANE ROAD AHEAD** signs should also be used to provide adequate advance warning.

Support:

9. Turns can be prohibited as required by vehicular traffic conditions. Unless the streets are wide, it might be physically impossible to make certain turns, especially for large vehicles.

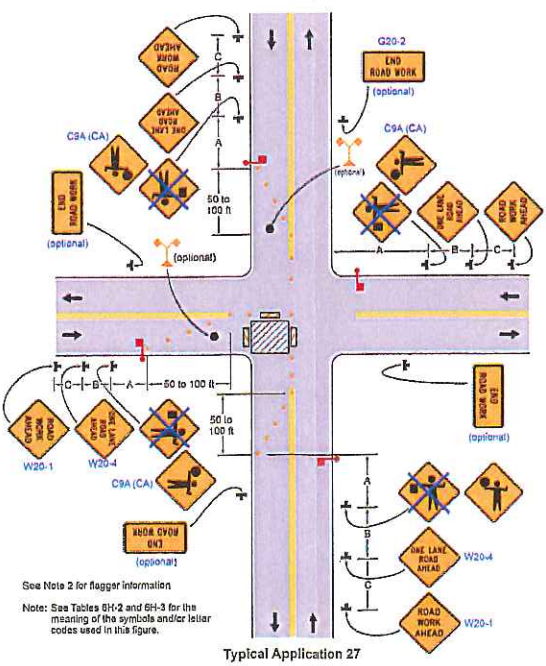
Option:

10. Vehicle hazard warning signals may be used to supplement high-intensity rotating, flashing, oscillating, or strobe lights.

Standard:

11. Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity rotating, flashing, oscillating, or strobe lights.

Figure 6H-27. Closure at the Side of an Intersection (TA-27)



FILE SPEC: P:\0072-Woodbridge\9018_2018_Maint_Proj\03_2018_Indiana_Roads\08_Civil\400_Plans\020_CAD\Sheets\Sh06_Traffic_Control.dwg
PLOT DATE: Aug 23, 2018 - 11:20am



SUBMITTAL	
%	Date



NO.	DESCRIPTION	DATE	APPR.

DESIGN BY	JOB
DRAWN BY	NTC
CHECK BY	NTC
HORIZONTAL DATUM	CCS83, ZONE 3
VERTICAL DATUM	NAVD88

DRAWING SCALE	N.T.S.
ORIGINAL DRAWING SCALE	0 1/2" 1"



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WOODBIDGE SANITARY DISTRICT
SAN JOAQUIN COUNTY

2018 SEWER REPAIRS
TRAFFIC CONTROL

DATE	AUGUST 2018
SHEET IDENTIFICATION	
SHEET 6 OF 6	
KSN PROJECT FILE NO.	0072-9018