

January 27, 2025

Kush Rawal, Assistant Engineer

**ADDENDUM NO. 1
TO THE CONTRACT DOCUMENTS**

**Humboldt Community Services District
5055 Walnut Drive
Eureka, CA 95503**

WALNUT DRIVE UTILITY EARTHQUAKE RECOVERY & RESILIENCE PROJECT

TO ALL PLAN HOLDERS

The following amendment is hereby made a part of the Contract Documents for the subject project, as fully and completely as if the same were set forth therein. This Addendum No. 1 consists of pages **AD1-1 to AD1-15**.

CONTRACT DOCUMENTS

ADDITION - The meeting minutes for the Pre-Bid Meeting held on January 13 2025, at 2:00 PM are attached and shall be considered part of this Addendum. (2 pages)

ADDITION – The sign in sheet for the Pre-Bid Meeting held on January 13 2025, at 2:00 PM is attached and shall be considered part of this Addendum. (1 page)

ADDITION – The “Walnut Drive Earthquake Recovery and Resilience Project Sewer Map” containing extended sewer infrastructure maps beyond project extents is attached and shall be considered part of this Addendum. (1 page)

ADDITION – “The Walnut Drive Earthquake Recovery and Resilience Project Water Map” containing extended water infrastructure maps beyond project extents is attached and shall be considered part of this Addendum. (1 page)

ADDITION – “Bend Angles Walnut Drive Earthquake Utility Recovery and Resilience” containing the bend angles not called out in the plans is attached and shall be considered part of this Addendum. (2 pages)

ADDITION – The revised Bid Schedule containing an updated schedule of bids and a bid total section is attached and shall be considered part of this Addendum. This revised Bid Schedule will take the place of the Bid Schedule in the original Contract Documents. (2 pages)

ADDITION – The revised Sheet 1 of the construction plans containing a revision to the Water Main specification is attached and shall be considered part of this Addendum. (1 page)

QUESTIONS SUBMITTED:

- Q1. I see provisions to change sewer laterals to PVC but do not see options for watermain to be installed using PVC. Can you confirm HCSD is single sourcing HDPE as the material for the water main.
- A1. This is confirmation that HCSD is single sourcing HDPE as the material for the Water Main.
- Q2. Who is responsible for compaction testing costs; HCSD or the Contractor?
- A2. The Contractor will be responsible for compaction testing costs.
- Q3. Can we use trench plates instead of cold patch (with cold patched ramps at transitions), for public traffic access, over backfilled and/or partially backfilled trenches?
- A3. Trench plates with cold patch transitions over exposed trenches is acceptable for public traffic access. It is critical to maintain the transitions to the trench plates to maintain public safety and avoid liability for damaged vehicles.
- Q4. Is there a striping plan?
- A4. There is not a striping plan in place for this project. Any original striping removed within the project extents is to be returned to its original condition. Please make sure to keep records of the size, shape color, etc of existing striping before beginning construction.
- Q5. Should we assume full restriping of existing or just where the roadway was repaved?
- A5. Restriping will be limited to only the original striping that is removed by the trenching extents, and where striping is damaged by construction activities, not the entire roadway.
- Q6. What are the striping standards/specs; thermoplastic or paint, line type, width, etc.?
- A6. The striping standards and specs are returning the existing striping to original condition. Before construction begins, its critical to take notes on the original site condition regarding the width, material, color, etc. Please refer to Humboldt County Road Standards for specifications.
- Q7. Can you provide a larger zoomed out map/line work for reference of existing sewer and water connections showing the whole project area which may be affected by construction?
- A7. Yes, two attachments containing a PDF of the greater project extents shall be posted to the District Public Notices page along with this response to RFI's. The first attachment labeled "Walnut Drive Earthquake Recovery and Resilience Project Sewer Map" shall show the sewer infrastructure and the second will be water infrastructure labeled "Walnut Drive Earthquake Recovery and Resilience Project Water Map".
- Q8. Will the HCSD preform bacterial testing for water mainlines?
- A8. The contractor shall be responsible performing the bacteriologic testing of the water mains compliant with current AWWA standards.
- Q9. Who is responsible for testing costs?

- A9. The Contractor shall be responsible for all testing costs in the compaction and disinfection processes.
- Q10. Is there a jurisdictional stamped and/or wet signed version of the plans; current set says not for construction (From Hum Builders Exchange)?
- A10. The current set posted on the Humboldt Community Services District website on the Public Notices page has a stamped version of the plans.
- Q11. Do you anticipate any changes to the plans, before being stamped?
- A11. No, the plans are currently stamped and no changes are currently anticipated
- Q12. Has the County approved the project for construction; is the Contractor responsible for obtaining any County permits besides the traffic plan?
- A12. No other permits are required by the County beyond the Encroachment permit which will be the responsibility of the Contractor to submit to the County. The County has reviewed the Project and Traffic control plan and is aware of the upcoming project. In the event that the contractor requires full road closure, the contractor will need to obtain approval from the County.
- Q13. Is there an Engineers Estimate for the project?
- A13. There is not an Engineers Estimate that will be made available for this project.
- Q14. What are the deliverables for Bid Item 2, Boundary Survey? (How do we show/prove we have accurately defined property lines and easements?)
- A14. Bid Item #2 Boundary Survey is removed from the Bid Schedule and no longer a bid item.
- Q15. Does the survey need to be conducted by a licensed Surveyor?
- A15. Bid Item #2 Boundary Survey is removed from the Bid Schedule and no longer a bid item.
- Q16. Alternative Bid Items 12, 13 and 14 do not provide an approximate quantity or a unit of measure, can you please provide more detail; what length of piping should we assume will be removed?
- A16. Quantities are as follows:
Sewer Main – approximately 750 L.F.
Sewer Laterals – approximately 90 L.F.
Water Main – approximately 1075 L.F.
Water Laterals – approximately 120 L.F.
- Q17. General Section of the Technical Specs States: “All work shall comply with the permitting requirements provided in Appendices D-F.” There is no Appendices D-F in the bid documents; what are the permitting requirements to comply with?
- A17. This statement is an error as you are correct, there is no Appendices D-F. The only permitting requirements to comply with will be the encroachment permit and the associated traffic control plan(s) that the Contractor will be responsible for obtaining.
- Q18. What type of fittings should be used for mainline water pipe bends, shown on the plans?

- A18. Pipe fittings shall match the materials and pressure ratings of the pipe. Contractor to submit Manufacturer's specification sheets to district/designer for review and approval.
- Q19. What are the bend angles (not called out on the plans)?
- A19. Please reference attachment "Bend Angles Walnut Drive Earthquake Utility Recovery and Resilience".
- Q20. The most common HDPE pipe DR rating is 11, this will result in a Lateral with an Inside diameter of 3.6 inches. While a typical 4" sewer pipe has an ID of 3.98". This will result in a 3/16" lip and a 3/8" reduction in size at the pipe transition coupler. To prevent this can 4" SDR 35 be used for the laterals?
- A20. HDPE sized to match ductile iron pipe was found that meets the plan requirements. These HDPE pipes have a 4" inside diameter, which should address the problem as stated in the RFI. If there is an issue with sourcing pipes of this size, SDR 35 should not be an issue, as the sewer laterals are not pressurized.
- Q21. Do the cleanouts need to be replaced, if not how close to the existing cleanout should the transition to the new lateral be?
- A21. Any cleanout components that are broken or are necessary to bring the existing cleanout to grade shall be replaced.
- Q22. Are there any existing Survey control points established for this project?
- A22. The following are Control Points the District has record of:
- Monument at intersection of Huckleberry Lane and Blackberry Lane:
 Elev = 283.00
 N 2164152.07
 E 5966525.55
- Monument lid at Ardahg Lane and Northridge Drive:
 Elev = 335.00
 N 2162103.07
 E 5966840.55
- SSMH lid at intersection of Walnut and Greenbriar Lane:
 Elev = 297.00
 N 2163341.07
 E 5966922.55
- Monument lid on Walnut Drive in front of 5046 Walnut Drive:
 Elev = 254.00
 N 2164944.07
 E 5967311.55
- Q23. Bid item 2 "Boundary Survey" is a very broad definition. This could be a very costly and time-consuming task. Is there any one specific item or area of concern that needs boundary survey level accuracy to complete this construction project?
- A23. Bid Item #2 Boundary Survey is removed from the Bid Schedule and no longer a bid item.
- Q24. Is a 125 PSI working pressure rating for the water main acceptable?

- A24. Please plan for a 150 PSI working pressure rating for the water main components.
- Q25. Are the water lines on Hurst Rd, Greenbriar Rd, and Northridge Drive Looped? If not what type of temporary flow needs to be provided, such as daily peak flow of XX gpm, or Fire flow of X,XXX gpm?
- A25. Green Briar is not Looped, Hurst is looped, and Northridge is looped. A minimum of 900 gpm shall be available in the system for fire flow.
- Q26. Is there another fire hydrant, other than the one at STA 11+90, in the project vicinity that could be used for a temp water supply?
- A26. Please reference "Walnut Drive Earthquake Recovery and Resilience Project Water Map" attachment posted to the District Public Notices page. Referencing the attached "Walnut Drive Earthquake Recovery and Resilience Project Sewer Map" There are fire hydrants located at: 1) Station 11+14 on Walnut Drive 2) Station: 5+72 on Walnut Drive 3) Station 0+80 on BlackBerry Lane 4) Station 0+58 on Blackberry Lane 5) Station 6+25 on Northridge Drive 6) Station 5+77 on Northridge Drive 7) Station 0+38 on Ardahg Lane
- Q27. Can a bid total line be added to the bid form to be used for totaling the bids and defining the basis of award for lowest bidder?
- A27. Yes, the bid form shall be modified and posted to the District's Public Notices page as part of this Addendum.
- Q28. Does the District have a bid bond form they want bidders to use?
- A28. The general form of the bonds that the Contractor will be required to furnish at the time of execution of the agreement are included in the Contract Documents and should be carefully examined by the bidder. The bonds will be executed in triplicate original counterparts.

Bids submitted without these pages signed, dated, and attached may be rejected. If you have any questions or comments, contact Kush Rawal at (707)443-1340 Ext. 221.

Received by:

Contractor: _____ Date: _____

Signature: _____

Sincerely,



Kush Rawal
Assistant Engineer

Pre-Bid Conference Minutes
Humboldt Community Services District
Walnut Drive Utility Earthquake Recovery and Resilience Project
January 13, 2025 at 2:00 PM

Humboldt Community Service District Employees present at the Pre-Bid Conference were:

*Kush Rawal
Ana Rodriguez
Darren Toland*

- 1) **Mandatory Pre-Bid Conference (PBC):** Roll for the meeting was taken by having interested bidding parties provide the name of their firm, the firm representative's name, and email address in the zoom chat. A roll sheet was created to be posted on the Humboldt Community Services District website.
- 2) **Bid Due:** February 10, 2025 @ 5:00 pm
- 3) **RFI's Due By:** January 20, 2025 @ 5:00 pm. Email to: zdj@whitchurchengineering.com and engineer@humboldtcsd.org
- 4) **Scope of Work consists of:**
 - a) Replacing approximately 1,200 feet of existing 6-inch water main line with 12-inch, 8-inch, and 6-inch HDPE
 - b) Replacing approximately 150 feet of existing water service lines with 1" PE lines bringing each property meter to grade to District Standards
 - c) Replacing approximately 850 feet of existing sewer main line with 10-inch and 8-inch HDPE
 - d) Replacing approximately 100 feet of existing sewer laterals from the mainline to edge of the public right of way with 4-inch HDPE laterals and bringing each property line cleanout to grade to District Standards
 - e) Constructing 6 new manholes per District Standards
- 5) **Estimated Bid Award:** February 21, 2025
 - a) **Project Duration:** Project shall be completed in a window beginning March 31, 2025 and terminating November 3, 2025 over 100 consecutive work days (excluding weekends and holidays).
- 6) **Liquidated Damages:** \$1000/day
- 7) **Encroachment Permit:** Contractor is responsible for obtaining Humboldt County Encroachment Permit and submitting the District approved Traffic Control Plan attached on sheet 10 of the plan sheets. Any traffic control plans required by the County beyond the attached traffic control plan will be the responsibility of the Contractor to produce and submit. Contractor must submit a copy of the encroachment permit to the District with a minimum of 4 weeks before construction begins.
- 8) **Workplan Submittal:** The Contractor is responsible for generating and submitting a "Maintaining Water and Sewer Service Work Plan" for District review that will outline the contractor's plan to complete new water and sewer construction while maintaining water and sewer service. The work plan must be submitted to the District at minimum 30 days before work begins to allow the District to review and approve the submittal. The workplan should provide a detailed description of the materials and labor necessary to keep each residence within the project extents in service during the entirety of the project duration. The workplan must be approved by the District before construction can begin.

- 9) **Prevailing Wage Project:** Contractor shall maintain certified payroll reports in accordance with the DIR requirements. The Contractor shall also have them available upon request by the District.
- 10) **Working hours for project:** 7:30 A.M. to 4:30 P.M. Monday through Friday. Requests to work outside of these hours shall be sent to District for approval.
- 11) **Notifications:** Local residents will be notified of project by the District.
- 12) **Sanitary Facilities:** Contractor will furnish a sanitary facility for employees for the duration of the project, as noted in the specifications.
- 13) **Maintaining Site Conditions:** Contractors will be responsible for noting the existing site conditions. Contractor will be responsible for returning the site to its original conditions at the conclusion of the project.
- 14) **Meeting Minutes:** Despite any notes or recordings of proceedings of the PBC by anyone present, these printed Minutes prevail. These minutes shall be posted to the District website at: <https://humboldtcsd.org/public-notice>.
- 15) **Non-Collusion:** Contractors are to adhere to District, County, and State laws regarding collusion. Any discussion of project with any competitive firm after completion of PBC, via personal meetings, telephone, or any other means, constitutes collusion and will result in appropriate legal action by the District. However, prime contractors may talk to potential subcontractors.

At the end of the meeting District staff solicited questions from meeting attendees. No questions or concerns were made by meeting attendees.

The meeting concluded.

Walnut Drive Utility Earthquake Recovery and Resilience Project

Pre-Bid Conference Meeting Sign-In Sheet

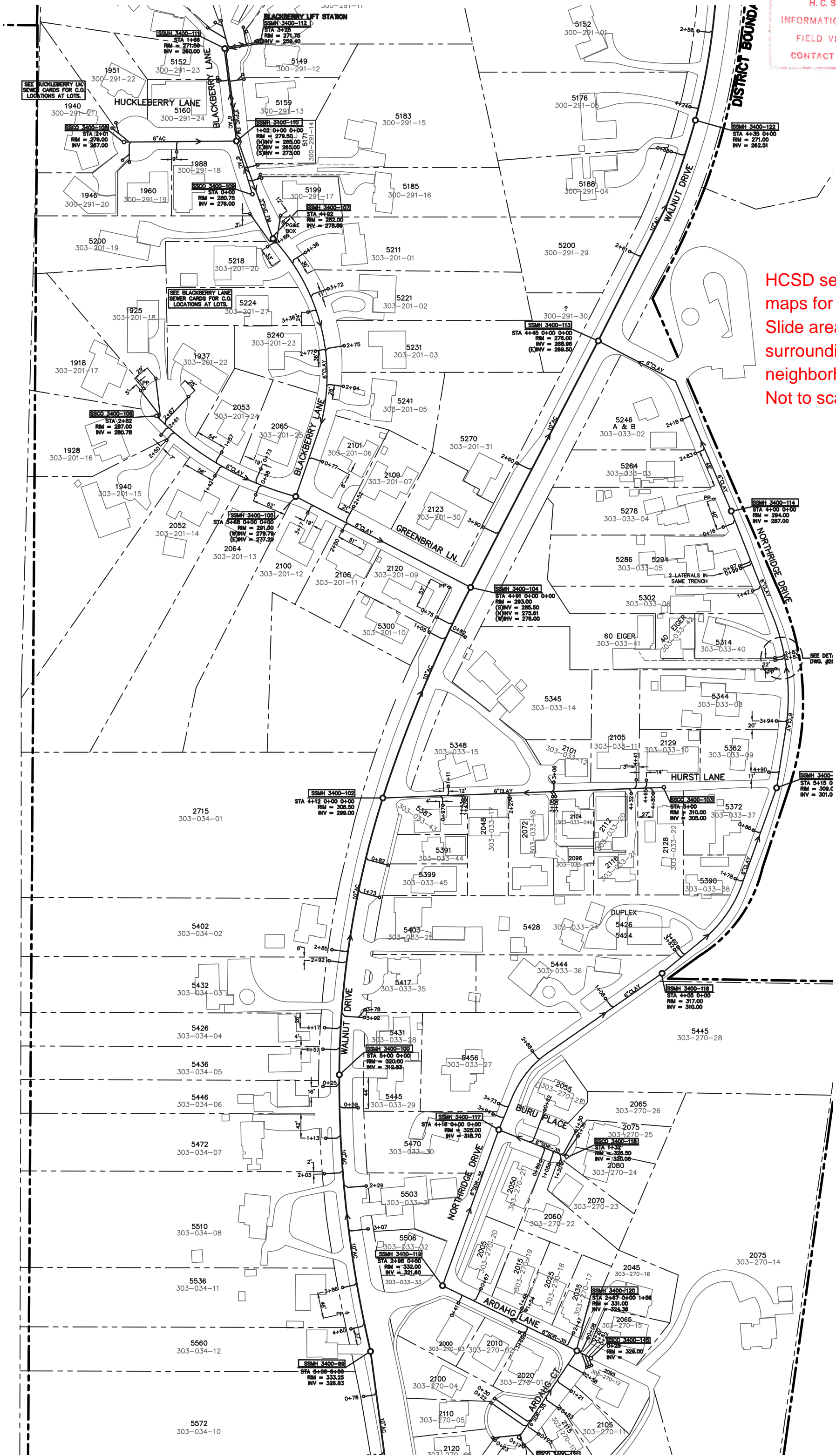
Monday, January 13, 2025 at 2:00 P.M.

Name	Company	Email
Kush Rawal Ana Rodriguez Darren Toland	HCSD	krawal@humboldtcsd.org anarodriguez@humboldtcsd.org dtoland@humboldtcsd.org
Jessica Jewett	Kernen	jessica@kernenconstruction.com
Kalynne Hannah	Hooven	kalynne@hoovenco.com
Casey Poff	GRS	Casey@grsinc.biz
Mike Wiebelhaus	Allen Gill Construction	mikew@allengillconstruction.com
Donny Mobley	Mobley Construction	mobleyconst@gmail.com
Ryan Wahlund	Wahlund Construction	bids@wahlcon.com
Mark Benzinger	Mercer Fraser	mbenzinger@mercfraser.com
Zach Johnson	Whitchurch Engineering	zdi@whitchurchengineering.com

*Note: This Sign-In Sheet is adapted from the chat in the zoom meeting when registered parties were asked to type in their name into the zoom chat with an email to serve as an official sign in

H.C.S.D.
INFORMATION ONLY
FIELD VERIFY
CONTACT U.S.A.

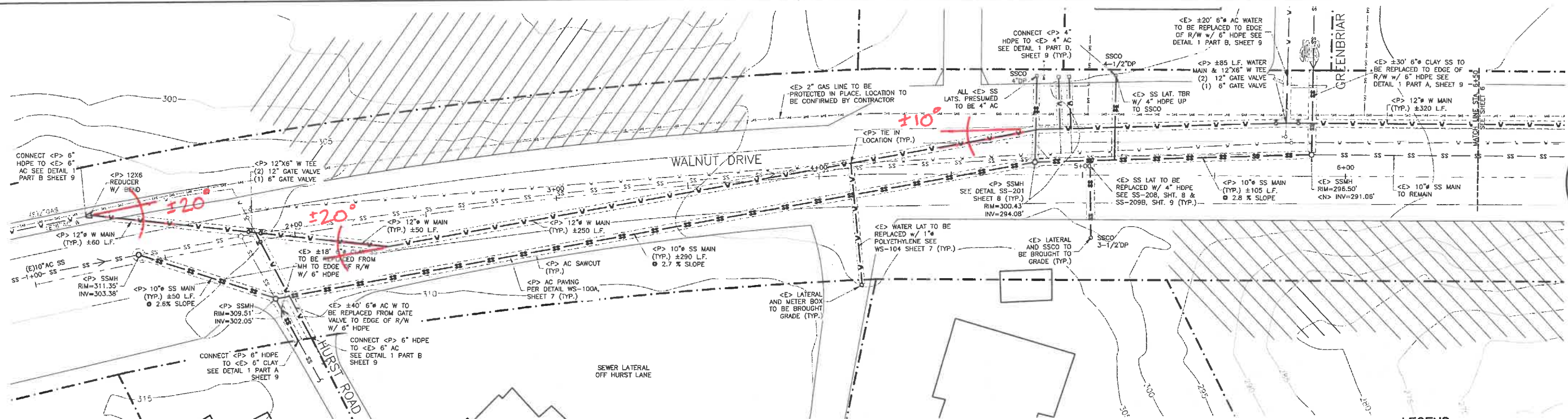
HCSD sewer
maps for Walnut
Slide area and
surrounding
neighborhoods.
Not to scale.



H. C. S. D.
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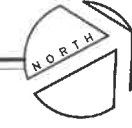
HCSD water maps
for slide area and
surrounding
neighborhoods.
Not to scale

THERE IS ABANDONED
8" WS MAIN ON
NORTHRISE DRIVE

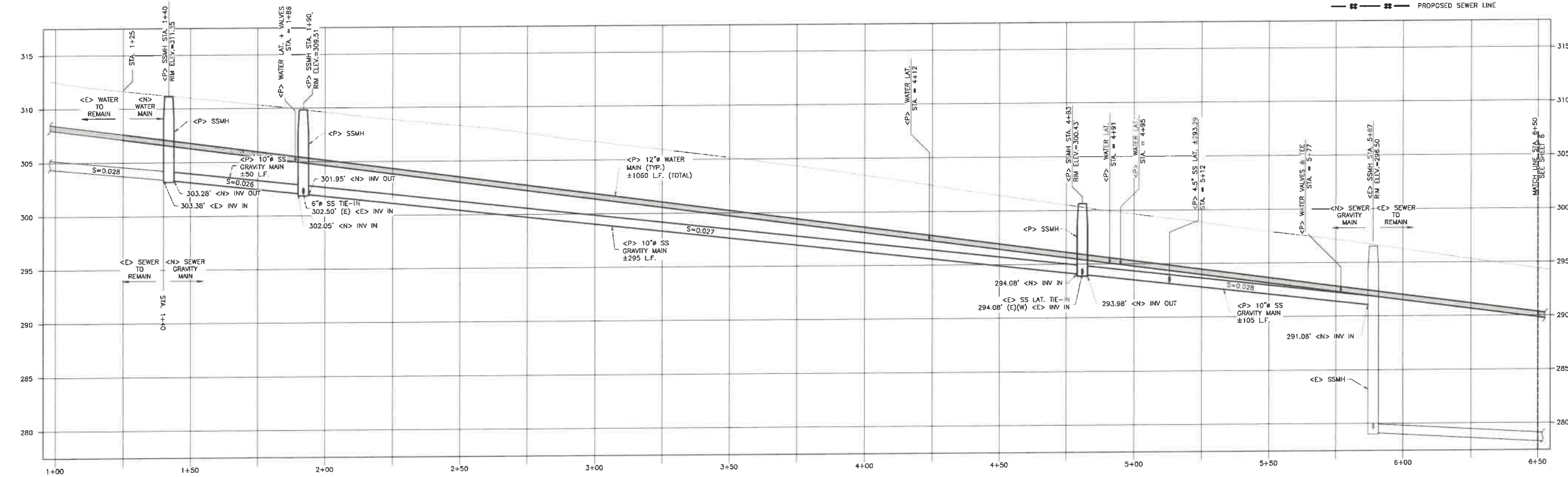


- NOTES:**
- PROPERTY LINES SHOWN ARE APPROXIMATE AND BASED ON ASSESSOR PARCEL MAPS.
 - SANITARY SEWER MANHOLE PROPOSED AT 4+43 IN ORDER TO NOT EXCEED THE MAXIMUM DISTANCE BETWEEN MANHOLES OF 300 F.T. SET BY THE CPC STANDARD 719.6.
 - ALL NEW SANITARY SEWER LINE TO BE CAMERA SCOPED AND DEPTH MEASUREMENTS ARE TO BE RECORDED BEFORE ACCEPTING INTO SERVICE.
 - ALL NEW WATER MAIN LINES TO BE 12" DIA. HDPE, UNLESS OTHERWISE STATED. ALL NEW WATER SERVICE LINES TO BE 1" DIA.
 - ALL NEW SANITARY SEWER MAIN LINES TO BE 10" DIA. HDPE UNLESS OTHERWISE STATED. ALL NEW SANITARY SEWER LATERALS TO BE HDPE WITH A 4" DIA.
 - ALL NEW MANHOLES TO INCLUDE RUN OUTS IN CHANNELS TO ALLOW SEWER CAMERA ACCESS.
 - ALL NEW SANITARY SEWER LATERALS AND WATER METER BOXES TO BE RAISED TO GRADE PER HCD STANDARD.
 - ALL NEW SANITARY SEWER LATERALS TO BE REPLACED FOLLOWING HCD STANDARDS, SUBSTITUTING PVC WITH HDPE WITH AN ADDITIONAL COUPLER TO CONNECT THE EXISTING AC TO THE PROPOSED HDPE.
 - ALL NEW WATER SERVICE LATERAL TO BE REPLACED FOLLOWING HCD STANDARDS.
 - HCD STAFF SHALL BE PRESENT TO SEE THE CONNECTIONS MADE TO THE EXISTING INFRASTRUCTURE AT THE EDGE OF ROW PRIOR TO BACKFILL.

<P> SITE PLAN - STA. 1+00 TO 6+50
SCALE: 1"=20'



- LEGEND**
- ASSUMED RIGHT OF WAY/PROPERTY LINE
 - FOG LINE
 - PAVEMENT CENTERLINE
 - CONTOUR TOPOGRAPHIC LINE @ 1'
 - EDGE OF PAVEMENT
 - EXISTING WATER LINE TO BE ABANDONED IN PLACE
 - EXISTING SEWER LINE TO BE ABANDONED IN PLACE
 - EXISTING WATER LINE TO REMAIN
 - EXISTING SEWER LINE TO REMAIN
 - PROPOSED WATER LINE
 - PROPOSED SEWER LINE



PROFILE STA. 1+00 TO STA. 6+50

SCALE: 1"=20' HORIZ.
1"=5' VERT.

THESE PLANS ARE ORIGINALLY
PRINTED ON 22"x34" PAPER.



This drawing or drawing set shall not be used for construction unless a jurisdictional stamp (County, City, State, Federal) has been issued on the drawing, stating "FOR PERMIT" or similar verbiage, a wet signed professional engineer's stamp, and permit documents have been issued for the project.

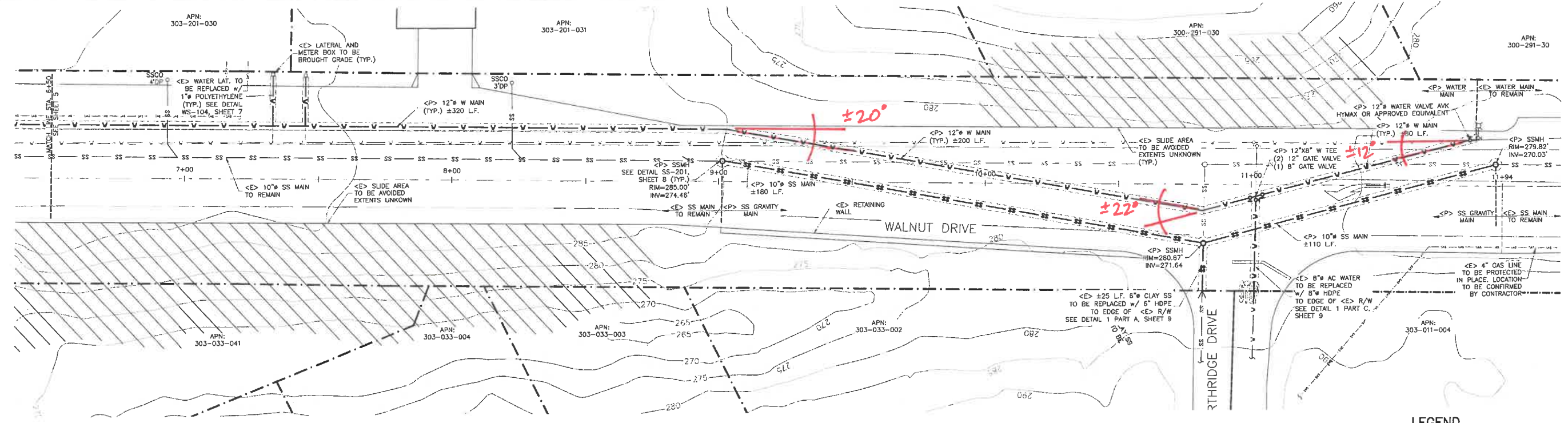
REVISIONS	BY

WHITCHURCH ENGINEERING, INC.
610 8th Street, Fortuna, California 95540
Phone (707) 725-6926

HCD WALNUT DRIVE UTILITY IMPROVEMENTS
WALNUT DRIVE CUTTEN, CA 95503
APN: HCD RIGHT-OF-WAY
PROPOSED PARTIAL SITE PLAN AND PROFILE FOR 1+00 TO 6+50
For: TK WILLIAMS, 5055 WALNUT DRIVE, (707) 443-4550

Date	JULY 15, '24
Scale	AS NOTED
Design	ZDJ
Drawn	ALW
Job	HCD 2303
Sheet	5

BID RFI MARKUPS - WEI-127.25



NOTES:

- PROPERTY LINES SHOWN ARE APPROXIMATE AND BASED ON ASSESSOR PARCEL MAPS.
- SANITARY SEWER MANHOLE PROPOSED AT 4+43 IN ORDER TO NOT EXCEED THE MAXIMUM DISTANCE BETWEEN MANHOLES OF 300 F.T. SET BY THE CPC STANDARD 719.6.
- ALL NEW SANITARY SEWER LINE TO BE CAMERA SCOPED AND DEPTH MEASUREMENTS ARE TO BE RECORDED BEFORE ACCEPTING INTO SERVICE.
- ALL NEW WATER MAIN LINES TO BE 12" DIA. HDPE, UNLESS OTHERWISE STATED. ALL NEW WATER SERVICE LINES TO BE 1" DIA.
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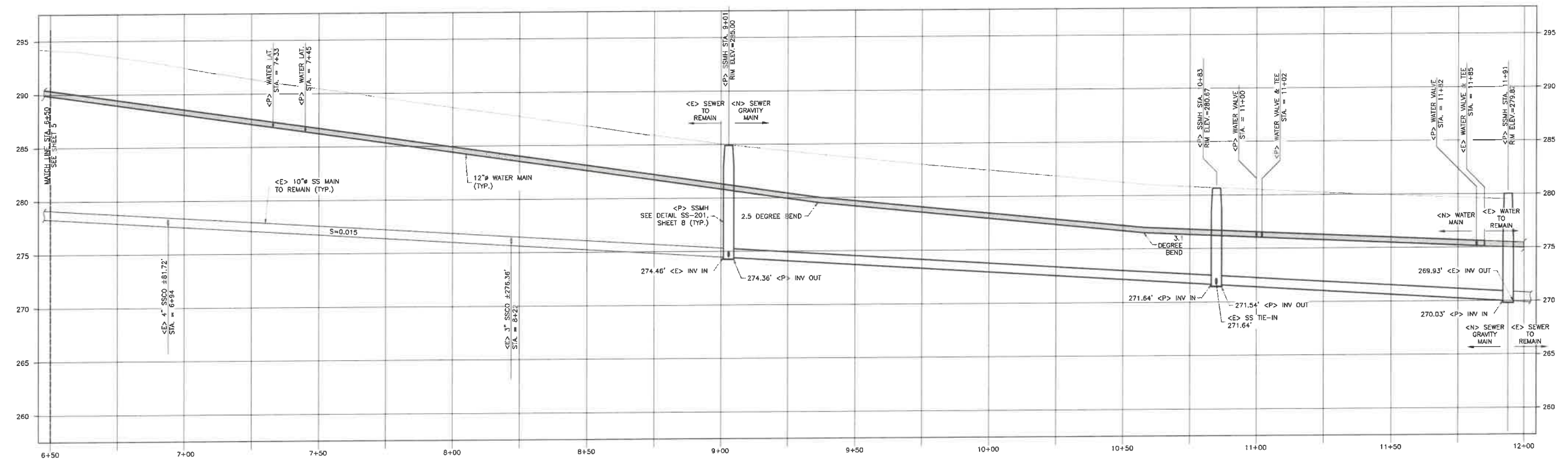
<P> SITE PLAN - STA. 6+50 TO 12+00

SCALE: 1"=20'



LEGEND

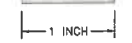
- ASSUMED RIGHT OF WAY/PROPERTY LINE
- FOG LINE
- PAVEMENT CENTERLINE
- CONTOUR TOPOGRAPHIC LINE @ 1'
- EDGE OF PAVEMENT
- EXISTING WATER LINE TO BE ABANDONED IN PLACE
- EXISTING SEWER LINE TO BE ABANDONED IN PLACE
- EXISTING WATER LINE TO REMAIN
- EXISTING SEWER LINE TO REMAIN
- PROPOSED WATER LINE
- PROPOSED SEWER LINE



PROFILE STA. 6+50 TO STA. 12+00

SCALE: 1"=20' HORIZ.
1"=5' VERT.

THESE PLANS ARE ORIGINALLY
PRINTED ON 22"x34" PAPER.



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REVISIONS	BY

WHITCHURCH ENGINEERING, INC.
610 9th Street, Fortuna, California 95540
Phone (707) 725-6926

HCD WALNUT DRIVE UTILITY IMPROVEMENTS
WALNUT DRIVE CUTTEN, CA 95503
APN: 303-033-002

**PROPOSED PARTIAL SITE PLAN AND
PROFILE FOR STA. 6+50 TO 12+00**

For: TK WILLIAMS, 5055 WALNUT DRIVE, (707) 443-4550

Date	JULY 15, '24
Scale	AS NOTED
Design	ZDJ
Drawn	ALW
Job	HCD 2303
Sheet	6

BID RFI MARKUPS - WEI - 1.27.25

Bid Schedule

Attachment B

Walnut Drive Utility Earthquake Recovery and Resiliency Project

Bid Item No.	Approx. Quantity	Unit	Bid Item Description	Unit Price	Total Item Price
1.	1	Lump Sum	Mobilization/Demobilization	\$ <u>N/A</u>	\$ _____
2.	1	Lump Sum	Boundary Survey	\$ <u>N/A</u>	\$ _____
3.	1	Lump Sum	Traffic Control	\$ <u>N/A</u>	\$ _____
4.	1060 Feet	Lump Sum	12" HDPE Water Main Installation	\$ <u>N/A</u>	\$ _____
5.	40 Feet	Lump Sum	8" HDPE Water Main Installation	\$ <u>N/A</u>	\$ _____
6.	60 Feet	Lump Sum	6" HDPE Water Main Installation	\$ <u>N/A</u>	\$ _____
7.	140 Feet	Lump Sum	1" PE Water Service Installation	\$ <u>N/A</u>	\$ _____
8.	740 Feet	Lump Sum	10" HDPE Sewer Main Installation	\$ <u>N/A</u>	\$ _____
9.	80 Feet	Lump Sum	6" HDPE Sewer Main Installation	\$ <u>N/A</u>	\$ _____
10.	100 Feet	Lump Sum	4" HDPE Sewer Lateral Installation	\$ <u>N/A</u>	\$ _____
11.	6	Each	Manhole Installation	\$ _____	\$ _____
Subtotal Base Bid Items No. 1-11					\$ _____

Additive Bid Item(s)

Bid Item No.	Approx. Quantity	Unit	Bid Item Description	Unit Price	Total Item Price
12.	1	Lump Sum	Mainline Removal	\$ <u>N/A</u>	\$ _____
13.	1	Lump Sum	Service Line Removal	\$ <u>N/A</u>	\$ _____

14.	1	Lump Sum	Lateral Line Removal	\$ <u>N/A</u>	\$ _____
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* Note: Items 15-21 are included in the event that in-field quantities exceed those listed in the approved plan set.

15.	1	Per Day	Additional Traffic Control	\$ _____	\$ <u>N/A</u>
16.	1	Per Linear Foot	Additional Water Main Installation	\$ _____	\$ <u>N/A</u>
17.	1	Per Linear Foot	Additional Water Service Installation	\$ _____	\$ <u>N/A</u>
18.	1	Per Linear Foot	Additional Sewer Main Installation	\$ _____	\$ <u>N/A</u>
19.	1	Per Linear Foot	Additional Sewer Lateral Installation	\$ _____	\$ <u>N/A</u>
20.	1	Per Cubic Yard	Additional Earthwork	\$ _____	\$ <u>N/A</u>
21.	1	Per Square Yard	Additional Paving	\$ _____	\$ <u>N/A</u>
Subtotal Additive Bid Items No. 12-21					\$ _____

Subtotal Base Bid Items No. 1-11	\$ _____
Subtotal Additive Bid Items No. 12-21	\$ _____
Total Bid (Base + Additive)	\$ _____

Signature of Bidder

Company

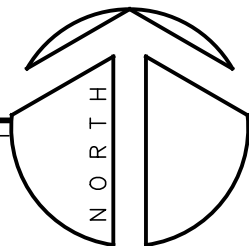
***** BIDDER MUST SIGN THIS PAGE *****

Note: See "Section 01 22 00: Measurement and Payment" for a detailed description of each bid item



LOCATION MAP

NO SCALE



PROJECT DATA

PROJECT DESCRIPTION – REPLACEMENT AND UPGRADES OF EXISTING SANITARY SEWER AND WATER MAINS ALONG WALNUT DRIVE, BETWEEN NORTHDRIDGE DRIVE AND HURST LANE. ALL WORK TO TAKE PLACE WITHIN HUMBOLDT COUNTY RIGHT-OF-WAY

PROJECT ADDRESS – WALNUT DRIVE, CUTTEN, CA 95503

CLIENT – HUMBOLDT COMMUNITY SERVICES DISTRICT

JURISDICTION – COUNTY OF HUMBOLDT

SHEET INDEX

- VICINITY MAP & CONSTRUCTION NOTES
- OVERALL SITE PLAN
- EXISTING PARTIAL SITE PLAN AND PROFILE FOR 1+00 TO 6+50
- EXISTING PARTIAL SITE PLAN AND PROFILE FOR 6+50 TO 12+00
- PROPOSED PARTIAL SITE PLAN AND PROFILE FOR 1+00 TO 6+50
- PROPOSED PARTIAL SITE PLAN AND PROFILE FOR 6+50 TO 12+00
- HCSD STANDARD DETAILS
- HCSD STANDARD DETAILS
- HCSD STANDARD DETAILS
- TRAFFIC CONTROL PLAN

GRADING NOTES

- STRAIGHT GRADE BETWEEN FINISHED GRADES SHOWN
- CONTOURS SHOWN ARE BASED ON EXISTING TOPOGRAPHY AT 1' INTERVALS.
- GRADE ELEVATIONS ARE BASED ON THE TOPOGRAPHIC LINE WORK IN THE BACKGROUND DRAWINGS PROVIDED BY HUMBOLDT COMMUNITY SERVICES DISTRICT.

UTILITY NOTES

- EXISTING UTILITIES ARE BASED ON HUMBOLDT COMMUNITY SERVICES DISTRICT SLIDE AREA OVERVIEW DRAWING AND SITE VISIT BY WHITCHURCH ENGINEERING ON SEPTEMBER 13, 2023
- UTILITY LOCATIONS AND SIZING TO BE CONFIRMED PRIOR TO DEVELOPMENT

PROJECT INFORMATION:

CIVIL ENGINEER:
WHITCHURCH ENGINEERING INC.
610 9TH STREET
FORTUNA, CA 95540

AC ASPHALT CONCRETE
AGG. AGGREGATE
APPROV. APPROVED
BW BACK OF WALK
BO BLOW-OFF
CATV CABLE TELEVISION
CC CONCRETE
CL CENTERLINE
CO CLEANOUT
CONC. CONCRETE
DI DRAINAGE INLET
(E) EAST
<E> EXISTING
EL ELEVATION
ELEC. ELECTRICAL
EP EDGE OF PAVEMENT
EV ELECTRICAL VAULT
EXIST. EXISTING
FF FINISHED FLOOR
FH FIRE HYDRANT
FL FLOW LINE

FW FRONT OF WALK
GD GROUND
GM GAS METER
GRD GROUND
IP IRON PIPE
JP JOINT UTILITY POLE
JB JUNCTION BOX
HP HIGH POINT
MH MANHOLE
MIN. MINIMUM
(N) NORTH
<N> NEW
P.P. POWER POLE
<P> PROPOSED
P.S.I. POUNDS PER SQUARE INCH
PUE PUBLIC UTILITY EASEMENT
RCP REINFORCE CONCRETE PIPE
RD. ROAD
R/W RIGHT OF WAY
SD STORM DRAIN
S.F. SQUARE FOOT

SHT. SHEET
SS SANITARY SEWER
SSCO SANITARY SEWER CLEANOUT
SSMH SANITARY SEWER MANHOLE
SD STORMDRAIN
SQ. SQUARE
(S) SOUTH
TR TELEPHONE VAULT
STD. STANDARD
SWK. SIDEWALK
T.B.M. TEMPORARY BENCH MARK
TBR TO BE REPLACED
TO TOP OF CURB
TOG TOP OF GRATE
TYP. TYPICAL
THK. THICK
UTIL. UTILITY
W WATER
WTR WATER
W/ WITH
(W) WEST
WM WATER METER
WV WATER VALVE

ABBREVIATIONS

SITE PREPARATION

- ALL TOPSOIL, VEGETATION, ORGANICS, AND DEBRIS SHOULD BE REMOVED FROM THE PROPOSED BUILDING AND PAVEMENT AREAS. THE GENERAL DEPTH OF STRIPPING SHOULD BE SUFFICIENTLY DEEP TO REMOVE THE ROOT SYSTEMS AND ORGANIC TOP SOILS. FOR ESTIMATE PURPOSES, A MINIMUM STRIPPING DEPTH OF 6 INCHES SHOULD BE USED. THE ACTUAL DEPTH OF STRIPPING SHOULD BE REVIEWED BY THE SOILS CONSULTANT AT THE TIME OF CONSTRUCTION 0.5'-1.0' IS THE TYPICAL TOP SOIL DEPTH FOR THIS SITE. DEEPER STRIPPING MAY BE REQUIRED IN LOCALIZED AREAS. STRIPPING SHOULD EXTEND LATEROALLY A MINIMUM OF 10 FEET OUTSIDE THE BUILDING AND PAVEMENT PERIMETERS. THESE MATERIALS WILL NOT BE SUITABLE FOR USE AS ENGINEERED FILL; HOWEVER, STRIPPED TOPSOIL MAY BE STOCKPILED AND REUSED IN LANDSCAPE AREAS AT THE DISCRETION OF THE OWNER.
- THE CONTRACTOR SHOULD LOCATE ALL FOUNDATIONS, FLOOR SLABS, DEBRIS PITS, FILL SOILS, PAVEMENTS, AND SUBSURFACE STRUCTURES. THESE SOILS OR STRUCTURES SHOULD BE ENTIRELY REMOVED. THE RESULTING EXCAVATIONS SHOULD BE CLEANED OF ALL LOOSE OR ORGANIC MATERIAL, THE EXPOSED NATIVE SOILS SHOULD BE SCARIFIED TO A DEPTH OF 8 INCHES, THEN COMPACTED AS ENGINEERED FILL AND THE EXCAVATION BACKFILLED WITH ENGINEERED FILL.
- ALL UTILITY LINES SHOULD BE LOCATED. THOSE UTILITY LINES NOT ANTICIPATED TO BE USED AFTER CONSTRUCTION SHOULD BE EXCAVATED AND REMOVED. UTILITY LINES SHOULD NOT BE CRUSHED AND LEFT IN PLACE. THE RESULTING EXCAVATIONS SHOULD BE CLEANED OF ALL LOOSE OR ORGANIC MATERIAL, THE EXPOSED NATIVE SOILS SHOULD BE SCARIFIED TO A DEPTH OF 6 INCHES, THEN COMPACTED AS ENGINEERED FILL AND THE EXCAVATION BACKFILLED WITH ENGINEERED FILL.
- THE IN-PLACE DENSITY OF EXISTING UTILITY TRENCH BACKFILLS WHICH ARE ANTICIPATED TO REMAIN SHOULD BE DETERMINED. EXISTING TRENCH BACKFILL WITH A RELATIVE DENSITY LESS THAN 90 PERCENT PER ASTM D1557 SHOULD BE OVER-EXCAVATED AND REPLACED AS ENGINEERED FILL WITH A MINIMUM RELATIVE DENSITY OF 92 PERCENT.
- THE CONTRACTOR SHOULD LOCATE ALL MONITORING AND/OR ON-SITE WATER WELLS. ALL WELLS SCHEDULED FOR DEMOLITION SHOULD BE ABANDONED PER STATE AND LOCAL REQUIREMENTS. ANY WELL (WATER OR MONITORING) THAT FALLS WITHIN THE BUILDING SHOULD BE ABANDONED. THE CONTRACTOR SHOULD OBTAIN AN ABANDONMENT PERMIT FROM THE LOCAL ENVIRONMENTAL HEALTH DEPARTMENT, AND ISSUE CERTIFICATES OF DESTRUCTION TO THE OWNER AND THE SOILS CONSULTANT UPON COMPLETION.
- EXCAVATIONS BELOW GROUNDWATER CAN BE BACKFILLED USING EITHER A SAND-CEMENT SLURRY, OR GRAVEL ENCASED IN A GEOTEXTILE FILTER FABRIC OR ENGINEERED FILL MATERIAL. ONCE THE EXCAVATION IS BACKFILLED ABOVE THE GROUNDWATER TABLE, SILTY SAND SOILS SHOULD BE USED AS BACKFILL.

- THE EXPOSED GROUND SURFACE IN AREAS TO RECEIVE ENGINEERED FILL MATERIAL, FLOOR SLABS OR PAVEMENTS SHOULD BE SCARIFIED TO A DEPTH OF 8 INCHES, MOISTURE CONDITIONED TO WITHIN TWO PERCENT OF OPTIMUM MOISTURE CONTENT AND COMPACTED AS ENGINEERED FILL. THE ZONE OF SCARIFICATION AND COMPACTION SHOULD EXTEND LATEROALLY A MINIMUM OF 10 FEET OUTSIDE THE PERIMETERS OF THE BUILDING. THE SCARIFICATION AND COMPACTION SHOULD BE CONDUCTED FOLLOWING STRIPPING OPERATIONS. REMOVAL OF SUBSURFACE STRUCTURES, OVER-EXCAVATION, AND REMOVAL OF ALL SOFT OR PLIANT AREAS.
- ALL FILL REQUIRED TO BRING THE SITE TO FINAL GRADE SHOULD BE PLACED AS ENGINEERED FILL. IN ADDITION, ALL NATIVE SOILS OVER-EXCAVATED SHOULD BE COMPACTED AS ENGINEERED FILL.
- IT SHOULD BE NOTED THAT WATER COULD SEEP INTO EXCAVATIONS. DEWATERING MAY BE REQUIRED. GROUNDWATER WILL ALSO IMPACT THE EXCAVATION, PLACEMENT, AND BACKFILL OF UTILITY LINES. CONTRACTORS SHOULD ANTICIPATE REMOVING WATER SEEPAGE. GRANULAR MATERIALS ENCASED IN A GEOTEXTILE STABILIZATION FABRIC, OR CEMENT-SAND SLURRY BACKFILL MATERIALS SHOULD BE ANTICIPATED WHEN BACKFILLING UTILITY LINES.
- SUITABLE EXCESS CUT MATERIALS MAY BE RESUSED ON SITE TO FILL THE LID AREA AND THE NORTH SLOPE. MATERIAL SHALL BE PLACED AND COMPACTED PER THE SOILS REPORT.

DUST CONTROL DURING CONSTRUCTION. DURING CONSTRUCTION ACTIVITIES,

THE FOLLOWING DUST CONTROL MEASURES SHALL BE TAKEN:

- WATER ALL ACTIVE CONSTRUCTION AREAS TWICE PER DAY AND USE EROSION CONTROL MEASURES TO PREVENT WATER RUNOFF CONTAINING SILT AND DEBRIS FROM ENTERING THE STORM DRAINAGE SYSTEM.
- COVER TRUCKS HAULING SOIL, SAND AND OTHER LOOSE MATERIAL.
- PAVE, WATER OR APPLY NON-TOXIC SOIL STABILIZERS ON UNPAVED ACCESS ROADS AND PARKING AREAS.
- SWEEP PAVED ACCESS ROADS AND PARKING AREAS DAILY.
- SWEEP STREETS DAILY IF VISIBLE MATERIAL IS CARRIED ONTO ADJACENT PUBLIC STREETS.
- INSTALL EROSION CONTROL MEASURES TO PREVENT SILT RUNOFF TO PUBLIC ROADWAYS.
- REPLANT VEGETATION IN DISTURBED AREAS WITHIN 30 DAYS OF COMPLETION OF PROJECT. THE CONSTRUCTION SITE SHALL BE MAINTAINED IN A CLEAN AND ORDERLY FOCAL REGION AND BE KEPT FREE OF DEBRIS. SOLID WASTE GENERATE DURING CONSTRUCTION SHALL BE DISPOSED OF IN AN APPROPRIATE MANNER. SUCH WASTE SHALL INCLUDE, BUT NOT BE LIMITED TO: CONCRETE FORMS, WASTE CONCRETE AND ASPHALT, EMPTY CONTAINERS OF BUILDING MATERIALS AND EXCESS BUILDING MATERIALS.

DISCOVERY OF PREHISTORIC OR ARCHAEOLOGICAL RESOURCES

SHOULD CONCENTRATIONS OF ARCHAEOLOGICAL MATERIALS BE ENCOUNTERED DURING CONSTRUCTION OR GRADING OPERATIONS, ALL GROUND-DISTURBING WORK SHALL BE TEMPORARILY HALTED ON THE SITE. WORK NEAR THE ARCHAEOLOGICAL FINDS SHALL NOT BE RESUMED UNTIL A QUALIFIED ARCHAEOLOGIST HAS EVALUATED THE MATERIALS AND OFFERED RECOMMENDATIONS FOR FURTHER ACTION. PREHISTORIC MATERIALS WHICH COULD BE ENCOUNTERED INCLUDE: OBSIDIAN OR CHERT FLAKES OR TOOLS, LOCALLY DARKENED MIDDEN, GROUNDSTONE ARTIFACTS, DEPOSITIONS OF SHELL, DIETARY BONE, AND HUMAN BURIALS. SHOULD HUMAN REMAINS BE UNCOVERED, STATE LAW REQUIRES THAT THE COUNTY CORONER BE CONTACTED IMMEDIATELY. SHOULD THE CORONER DETERMINE THAT THE REMAINS ARE LIKELY THOSE OF A NATIVE AMERICAN, THE CALIFORNIA NATIVE AMERICAN HERITAGE COMMISSION MUST BE CONTACTED. THE HERITAGE COMMISSION CONSULTS WITH THE MOST LIKELY NATIVE AMERICAN DESCENDANTS TO DETERMINE THE APPROPRIATE TREATMENT OF THE REMAINS.

DAYS AND HOURS OF CONSTRUCTION AND NOISE CONTROL.

HOURS OF CONSTRUCTION AND NOISE CONTROL. THE FOLLOWING SHALL APPLY TO CONSTRUCTION NOISE FROM TOOLS AND EQUIPMENT:

- THE OPERATION OF TOOLS OR EQUIPMENT USED IN CONSTRUCTION, DRILLING, REPAIR, ALTERATION OR DEMOLITION SHALL BE LIMITED TO BETWEEN THE HOURS OF 7 A.M. AND 5 P.M. MONDAY THROUGH FRIDAY. WEEKEND OPERATION MAY ONLY BE ACCEPTABLE, PROVIDED THAT THE COUNTY OF HUMBOLDT IS NOTIFIED 48 HOURS (2 BUSINESS DAYS) IN ADVANCE AND AGREES TO THE WEEKEND OPERATION.
- NO HEAVY EQUIPMENT RELATED CONSTRUCTION ACTIVITIES SHALL BE ALLOWED ON SUNDAYS OR HOLIDAYS.
- CONTRACTOR SHALL SELECT STAGING AREAS AS FAR AS FEASIBLY POSSIBLE FROM SENSITIVE RECEPTORS.
- CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION EQUIPMENT WITH MANUFACTURER'S SPECIFIED NOISE-MUFFLING DEVICES.
- UNNECESSARY IDLING OF INTERNAL COMBUSTION ENGINES SHALL BE PROHIBITED. THIS WOULD MEAN TURNING OFF EQUIPMENT IF IT WILL NOT BE USED FOR 5 OR MORE MINUTES.
- ALL STATIONARY NOISE-GENERATING CONSTRUCTION EQUIPMENT SUCH AS AIR COMPRESSORS AS FAR AS POSSIBLE FROM HOMES AND BUSINESSES.
- CONTRACTOR SHALL SELECT QUIET CONSTRUCTION EQUIPMENT, PRIMARY AIR COMPRESSORS, WHENEVER POSSIBLE.
- TRUCK DRIVERS SHALL ADHERE TO POSTED SPEED ON LOCAL ROADS. ALTERNATE TRUCK ROUTES SHALL BE CONSIDERED IF COMPLAINTS OCCUR.

SPECIFICATIONS:

PIPES:

- WATER PIPE SHALL BE CONSTRUCTED:
 - FUSIBLE HIGH DENSITY POLYETHYLENE (HDPE) CONFORMING TO ASTM F667 WITH **SDR 11** ~~SDR 35~~ OR BETTER EQUIVALENT.
 - ALL LINES TO HAVE #10 COATED COPPER TRACER WIRE INSTALLED PER HCSD STANDARDS.
- SANITARY SEWER PIPE SHALL BE CONSTRUCTED:
 - FUSIBLE HIGH DENSITY POLYETHYLENE (HDPE) CONFORMING TO ASTM F667 WITH SDR 35 OR BETTER EQUIVALENT.
 - ALL LINES TO HAVE #10 COATED COPPER TRACER WIRE INSTALLED PER HCSD STANDARDS.
 - ALL LINES THAT REQUIRED COUPLINGS SHALL BE FITTED WITH CALDER STYLE SHIELDED SEWER COUPLINGS PER HCSD STANDARDS.
- ASPHALT PAVING SHALL BE CONSTRUCTED OF
 - $\frac{3}{4}$ " HOT MIX ASPHALT, TYPE B, CONFORMING TO CALTRANS STANDARD SPECIFICATION SECTION 39.
 - THE FINISHED SURFACE OF THE ASPHALT CONCRETE SHALL BE WITHIN 0.05 FOOT OF THE DESIGN GRADES.
- CLASS 2 AGGREGATE BASE SHALL BE CONSTRUCTED OF:
 - $\frac{1}{2}$ INCH MAXIMUM AS DEFINED IN SECTION 26-1.02B OF THE CALTRANS STANDARD SPECIFICATIONS (2018 EDITION)
 - WHERE SPECIFIED AGGREGATE BASE THICKNESS IS 0.50 FOOT OR LESS, THE AGGREGATE BASE MAY BE SPREAD AND COMPACTED IN ONE LAYER.
 - WHERE SPECIFIED AGGREGATE BASE THICKNESS IN GREATER THAN 0.50 FOOT, SPREAD AND COMPACTED IN 2 OR MORE LAYERS APPROXIMATELY EQUAL IN THICKNESS. THE COMPACTED THICKNESS OF ANY ONE LAYER MUST NOT EXCEED 0.50 FOOT.
 - ALL AGGREGATE BASE SHALL BE COMPACTED TO 95% RELATIVE COMPACTION.

E. SAND SHALL BE SAND EQUIVALENT 45.

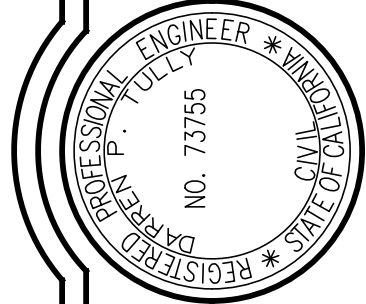
F. RIVER RUN GRAVELS MAY BE USED FOR SUB BASE MATERIALS FOR THE ROADWAY. A COMPACTION OF 90% OR BETTER PER ASTM D-1557 IS REQUIRED.

ENCROACHMENT NOTES:

HUMBOLDT COUNTY SERVICES DISTRICT HOLDS THE ENCROACHMENT PERMIT NO. 2313. THE FOLLOWING NOTES ARE WRITTEN WITH RESPECT TO THE SPECIFIC REQUIREMENTS LISTED IN THE PERMIT

- ANY OPENING OR EXCAVATION MATE UNDER THE AUTHORITY OF THIS PERMIT SHALL NOT EXCEED FOUR (4) FEET IN WIDTH AND/OR FIFTY (50) FEET IN LENGTH.
- THE MINIMUM OVERHEAD CLEARANCE OF CABLES AT ALL ROAD CROSSINGS SHALL BE EIGHTEEN FEET (18').
- NO COMPLETE ROAD CLOSURE IS AUTHORIZED UNDER THIS PERMIT, UNLESS AUTHORIZED IN WRITING BY THE DIRECTOR OF PUBLIC WORKS.
- EXCAVATIONS SHALL BE CONDUCTED IN SUCH A MANNER THAT NOT MORE THAN ONE TRAFFIC LANE IS CLOSED AT ANY ONE TIME.
- NO OPEN TRENCHES WITHIN COUNTY RIGHT OF WAY SHALL BE ALLOWED DURING NON-WORKING HOURS.
- BACKFILL MATERIAL USED IN ALL TRENCHES SHALL CONFORM TO SECTION 19 OF CALTRANS STANDARD SPECIFICATIONS, DATE 2018. THE ATTACHED TYPE 1 TRENCH DETAIL SHALL BE USED FOR ALL ROADS.
- ALL TRENCHES SHALL BE TEMPORARILY CAPPED WITH A MINIMUM OF THREE INCHES (3") OF COLD MIX PRIOR TO OPENING THE ROADWAY TO PUBLIC TRAFFIC.
- PERMANENT PAVEMENT RESTORATION SHALL CONSISTS OF MINIMUM OF THREE (3") INCHES OF TYPE B ASPHALT CONCRETE (HOT MIX).
- THE DEPARTMENT OF PUBLIC WORKS RESERVES THE RIGHT TO MAKE AS MANY COMPACTION TESTS AS IT DEEMS REASONABLY NECESSARY TO ENSURE THAT THE COMPACTION REQUIREMENTS ARE MET.
- THE OPERATION OF TOOLS OR EQUIPMENT USED IN CONSTRUCTION, DRILLING, REPAIR, ALTERATION OR DEMOLITION SHALL BE LIMITED TO BETWEEN THE HOURS OF 7 A.M. AND 5 P.M. MONDAY THROUGH FRIDAY. WEEKEND OPERATION MAY ONLY BE ACCEPTABLE, PROVIDED THAT THE COUNTY OF HUMBOLDT IS NOTIFIED 48 HOURS (2 BUSINESS DAYS) IN ADVANCE AND AGREES TO THE WEEKEND OPERATION.

REVISIONS	BY



WHITCHURCH ENGINEERING, INC.

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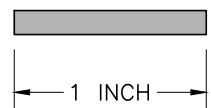
HCSD WALNUT DRIVE UTILITY IMPROVEMENTS
WALNUT DRIVE CUTTEN, CA 95503
APN: HCSD RIGHT-OF-WAY

VICINITY MAP & CONSTRUCTION NOTES

For: TK WILLIAMS, 5055 WALNUT DRIVE, (707) 443-4550

Date	JULY 15, '24
Scale	AS NOTED
Design	ZDU
Drawn	ALW
Job	HCD 2303
Sheet	1

THESE PLANS ARE ORIGINALLY
PRINTED ON 22"x34" PAPER.



This drawing or drawing set shall not be used for construction unless a jurisdictional stamp (County, City, State, Federal) has been issued on the drawing, stating "FOR PERMIT" or similar verbiage, a wet signed professional engineer's stamp, and permit documents have been issued for the project.