CITY OF FERNDALE WATER QUALITY AND DRAINAGE IMPROVEMENT PROJECT

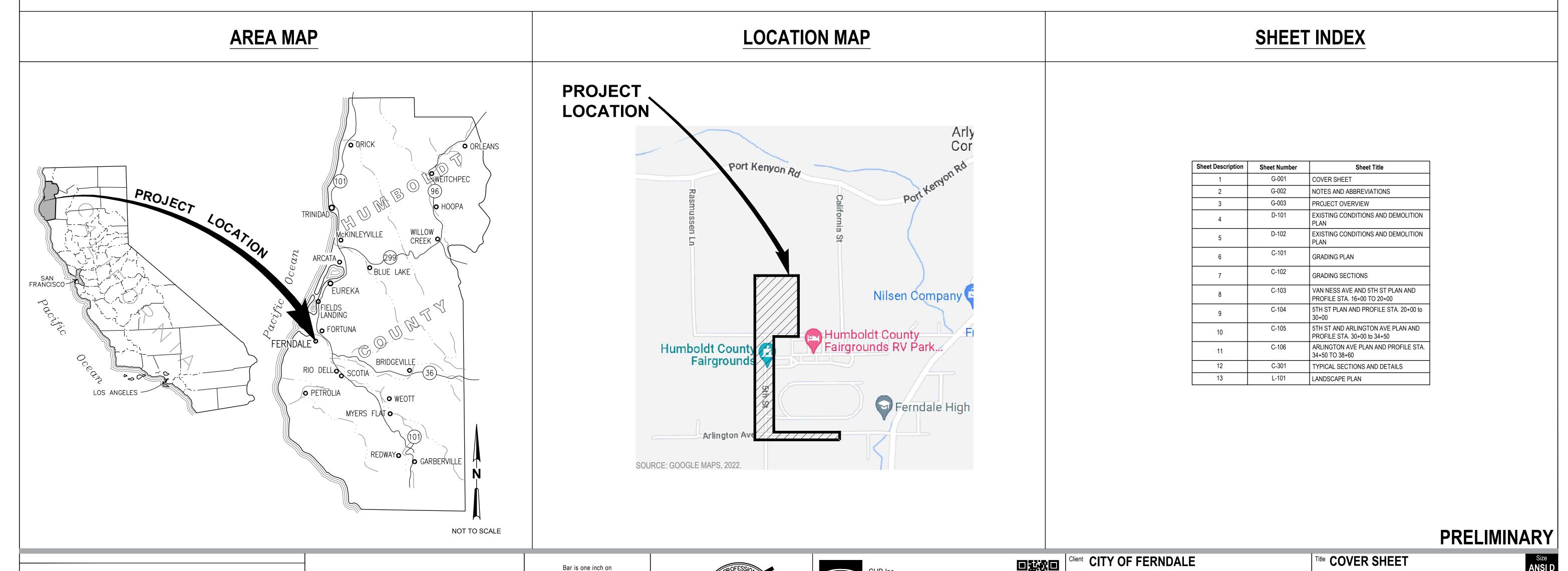
SEWER OVERFLOW AND STORMWATER REUSE MUNICIPAL GRANT

AGREEMENT NO. D2219002

65% DESIGN

SEPTEMBER 2024

PROJECT NUMBER: 12638533



4080 Plaza Goldorado Circle Suite B

Cameron Park California 95682 USA

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ect WATER QUALITY AND DRAINAGE

2024-09-12

AS SHOWN

IMPROVEMENTS PROJECT

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Author

Designer TAYLOR ALLEN

Plot Date: 20 September 2024 - 12:54 PM

Drafting Check BRETT VIVYAN Project Manager BRETT VIVYAN

Design Check BRETT VIVYAN Project Director JEREMY SVEHLA

Plotted By: Emma Vaio

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GENERAL NOTES

- PROJECT REQUIRES A CLASS A GENERAL ENGINEERING CONTRACTOR'S LICENSE IN THE STATE OF CALIFORNIA.
- 2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO THE COMMENCEMENT OF WORK AND REPORT ANY DISCREPANCIES TO THE CITY'S PROJECT MANAGER. CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND BECOMING FAMILIAR WITH THE SITE CONDITIONS PRIOR TO BIDDING. SHOULD EXISTING CONDITIONS DIFFER FROM THOSE SHOWN OR INDICATED. OR IF IT APPEARS THAT THESE PLANS, AND SPECIFICATIONS DO NOT ADEQUATELY DETAIL THE WORK TO BE DONE, CONTRACTOR SHALL NOTIFY THE CITY'S PROJECT MANAGER PRIOR TO CONTINUING WITH ANY RELATED WORK. NO ALLOWANCE WILL BE MADE ON CONTRACTOR'S BEHALF FOR ANY EXTRA EXPENSE RESULTING FROM FAILURE OR NEGLECT IN DETERMINING THE CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED. NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALE.
- CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THAT NEW FEATURES TIE INTO EXISTING SITE DEVELOPMENT, PAVEMENT JOINTS MATCH CORRECTLY, AND THAT GENERAL DESIGN ELEVATIONS FOR NEW CONSTRUCTION PROVIDE PROPER PAVEMENT AND DRAINAGE SLOPES FROM EXISTING TIE IN POINTS. REPORT DISCREPANCIES TO CITY'S PROJECT MANAGER PRIOR TO CONSTRUCTION.
- 4. QUANTITIES OF ITEMS, LENGTH OF PROJECT, AND SITE CONDITIONS SHOWN IN THE PLANS ARE APPROXIMATE. ALL MATERIALS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
- 5. CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE DURING THE COURSE 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.
- 6. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY AND ALL DAMAGES TO EXISTING STRUCTURES, ROADS, AND UTILITIES DURING CONSTRUCTION. ALL DAMAGE SHALL BE RESTORED TO EQUAL OR BETTER CONDITION AT THE CONTRACTOR'S EXPENSE.
- 7. A SET OF SIGNED WORKING DRAWINGS AND A SET OF SPECIFICATIONS WILL BE KEPT AT ALL TIMES AT THE JOB SITE ON WHICH ALL CHANGES OR VARIATIONS IN THE WORK, INCLUDING ALL EXISTING UTILITIES, ARE TO BE RECORDED AND/OR CORRECTED DAILY AND SUBMITTED TO THE CITY'S PROJECT MANAGER WHEN THE WORK TO BE DONE IS COMPLETED.
- 8. CONTRACTOR SHALL PROVIDE AND MAINTAIN SUFFICIENT TEMPORARY BARRIERS TO PROVIDE FOR THE SAFETY OF THE STAFF AND PUBLIC TO THE SATISFACTION OF THE CITY'S PROJECT MANAGER.
- 9. CONTRACTOR SHALL NOTIFY THE CITY'S PROJECT MANAGER AT LEAST 72 HOURS IN ADVANCE OF COMMENCEMENT OF ANY PART OF THE WORK AND SHALL COORDINATE CONSTRUCTION SCHEDULE ACCORDINGLY.
- 10. UNSUITABLE EXCAVATED MATERIAL SHALL BE REMOVED FROM SITE AND DISPOSED OF IN A MANNER CONSISTENT WITH APPLICABLE REGULATIONS. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY AND EXPENSE FOR PROPER DISPOSAL OF UNSUITABLE MATERIALS TAKEN FROM SITE.
- 11. THE DESIGN FEATURES INCLUDING HORIZONTAL AND VERTICAL ALIGNMENTS. TYPICAL SECTIONS. APPROACHES, AND OTHER DESIGN DETAILS SHOWN ON THESE DESIGN PLANS SHALL NOT BE ALTERED OR MODIFIED IN ANY WAY DURING CONSTRUCTION WITHOUT THE EXPRESSED, WRITTEN DIRECTION AND APPROVAL OF THE CITY'S PROJECT MANAGER. DRAINAGE STRUCTURES SHALL BE INSTALLED AS SHOWN ON THE PLANS WITH ONLY MINOR CORRECTIONS IN LOCATION SKEW AND/OR ELEVATIONS AS NEEDED TO FIT FIELD CONDITIONS AS DETERMINED BY THE CITY'S PROJECT MANAGER.
- 12. THE CONTRACTOR SHALL READ AND MAKE CAREFUL EXAMINATION OF THE PLANS, SPECIFICATIONS, QUANTITIES AND MATERIAL ESTIMATES AND VISIT THE SITE OF THE PROPOSED CONSTRUCTION TO BECOME FAMILIAR WITH THE SITE CONDITIONS AND LIMITATIONS BEFORE MAKING A BID. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL ERRORS RESULTING FROM THE FAILURE TO MAKE SUCH AN EXAMINATION. ANY INFORMATION DERIVED FROM THE MAPS, PLANS, SPECIFICATIONS, PROFILES, DRAWINGS OR FROM THE ENGINEER WILL NOT RELIEVE THE CONTRACTOR FROM ANY RISK OR FROM FULFILLING THE TERMS OF THE CONTRACT.
- 13. NO WORK SHALL BE PERFORMED OUTSIDE OF THE DESIGNATED LIMITS OF WORK WITHOUT THE APPROVAL OF THE CITY'S PROJECT MANAGER.
- 14. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING STAGING AREAS WITH THE CITY'S PROJECT MANAGER.
- 15. UPON COMPLETION OF THE CONSTRUCTION PROJECT, THE CONTRACTOR SHALL LEAVE THE PROJECT AREA FREE OF DEBRIS AND UNUSED MATERIAL. ALL DAMAGE CAUSED BY THE CONTRACTOR SHALL BE RESTORED TO AN "AS GOOD OR BETTER" CONDITION.
- 16. THE CONTRACTOR SHALL BE REQUIRED TO SAWCUT OR GRIND THE EXISTING ASPHALT PAVEMENT WHERE OLD ASPHALT IS TO TIE INTO THE NEW ASPHALT PAVEMENT. THE CONTRACTOR SHALL BE REQUIRED TO TAPER THE NEW ASPHALT CONCRETE SURFACING TO MATCH THE EXISTING PAVEMENT SECTION AT TIE-IN POINTS AND TO PROVIDE FOR A SMOOTH TRANSITION AS DIRECTED BY THE CITY'S PROJECT MANAGER.
- 17. UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL PROTECT EXISTING SURVEY MONUMENTS WITHIN WORK LIMITS. ANY MONUMENT DAMAGED BY THE CONTRACTOR SHALL BE RESET IN ACCORDANCE WITH THE CALIFORNIA PROFESSIONAL LAND SURVEYORS ACT.
- 18. WHENEVER ANY MATERIAL OR EQUIPMENT IS INDICATED OR SPECIFIED BY PATENT OR PROPRIETARY NAME OR BY THE NAME OF THE MANUFACTURER. SUCH SPECIFICATION SHALL BE CONSIDERED AS USED FOR DESCRIBING THE MATERIAL OR EQUIPMENT DESIRED AND SHALL BE CONSIDERED AS USED FOR DESCRIBING THE MATERIAL OR EQUIPMENT DESIRED AND SHALL BE CONSIDERED AS FOLLOWED BY THE WORDS "OR APPROVED EQUAL". THE CONTRACTOR MAY OFFER ANY MATERIAL OR EQUIPMENT WHICH SHALL BE EQUAL IN EVERY RESPECT TO THAT SPECIFIED, PROVIDED THAT WRITTEN APPROVAL FIRST IS OBTAINED FROM THE CITY'S PROJECT MANAGER

UTILITY NOTES

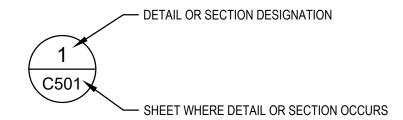
- 1. LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE PLOTTED FROM RECORD DRAWINGS, LOCATION MARK-UP, AND INTERPOLATION OF PHYSICAL EVIDENCE ON THE SITE AND ARE SUBJECT TO FIELD VERIFICATION BY THE CONTRACTOR.
- 2. ALL LOCATIONS FOR WORK SHALL BE CHECKED AND COORDINATED WITH EXISTING CONDITIONS IN THE FIELD BEFORE BEGINNING CONSTRUCTION UNDER THIS SECTION OR ANY OTHER SECTION.
- 3. THE WORKING DRAWINGS ARE GENERALLY DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND OR ELBOW REQUIRED FOR INSTALLATION IN THE SPACE PROVIDED. THEY DO NOT SHOW EVERY DIMENSION, COMPONENT PIECE, OR FITTING REQUIRED TO COMPLETE THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND WORKING SYSTEM.
- 4. CONTRACTOR SHALL COORDINATE A UTILITY LOCATE AT LEAST TWO WORKING DAYS PRIOR TO BEGINNING ANY UTILITY CONSTRUCTION FOR LOCATION MARK-UP OF ALL EXISTING UTILITIES. CONTRACTOR SHALL COORDINATE THE UTILITY LOCATE WITH CITY FOR ALL UTILITY WORK. INFORM CITY'S PROJECT MANAGER IMMEDIATELY IF LOCATE INDICATES THAT EXISTING UTILITIES ARE DIFFERENT THAN SHOWN ON DRAWINGS.
- 5. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES, FEATURES, AND STRUCTURES LOCATED ON THE SITE. LOCATE, PROTECT, AND AVOID DISRUPTION OF ALL ABOVE AND BELOW GRADE UTILITIES DURING CONSTRUCTION. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EQUAL OR BETTER THAN THE EXISTING CONDITION AT CONTRACTORS
- ALL UTILITY CONSTRUCTION SHALL CONFORM TO CITY STANDARDS, AND CURRENT CALIFORNIA CODES.
- ALL BURIED LINES TO HAVE 12 INCHES MINIMUM COVER, UNLESS NOTED OTHERWISE.
- 8. ALL EXISTING UTILITIES AND TIE-IN POINTS SHOULD BE CONSIDERED ACTIVE UTILITIES UNLESS OTHERWISE INDICATED.
- 9. CONFIRM ALL UTILITY APPURTENANCES WITH CITY.
- 10. CONTRACTOR SHALL COORDINATE ALL UTILITY SHUTDOWNS WITH THE CITY PROJECT MANAGER, A MINIMUM OF TWO WEEKS IN ADVANCE.

WATER POLLUTION CONTROL NOTES

- 1. AT A MINIMUM, THE CONTRACTOR SHALL EMPLOY THE FOLLOWING BEST MANAGEMENT PRACTICES (BMPS) AS DESCRIBED IN THE CURRENT CALIFORNIA STORMWATER BMP HANDBOOK FOR CONSTRUCTION (WWW.CASQA.ORG):
 - SCHEDULING SE-1 SILT FENCE
 - FIBER ROLLS
 - SE-7
 - STREET SWEEPING AND VACUUMING SE-10 STORM DRAIN INLET PROTECTION
 - WE-1 WIND EROSION CONTROL
 - NS-3 PAVING AND GRINDING OPERATIONS
 - NS-9 VEHICLE EQUIPMENT AND FUELING
 - NS-10 **VEHICLE & EQUIPMENT MAINTENANCE** WM-1 MATERIALS DELIVERY AND STORAGE
 - WM-2 MATERIAL USE
 - WM-3 STOCKPILE MANAGEMENT
 - WM-4 SPILL PREVENTION AND CONTROL
 - WM-5 SOLID WASTE MANAGEMENT
 - WM-8 CONCRETE WASTE MANAGEMENT
 - WM-9 SANITARY/SEPTIC WASTE MANAGEMENT
- 2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MINIMIZE EROSION AND PREVENT THE TRANSPORT OF SEDIMENT TO SENSITIVE AREAS.
- 3. SUFFICIENT EROSION CONTROL SUPPLIES SHALL BE AVAILABLE ON-SITE AT ALL TIMES TO DEAL WITH AREAS SUSCEPTIBLE TO EROSION DURING RAIN EVENTS.
- 4. MINIMIZE DISTURBANCE OF EXISTING VEGETATION TO THAT NECESSARY TO COMPLETE THE WORK.
- 5. THE CONTRACTOR SHALL MAKE ADEQUATE PREPARATIONS, INCLUDING TRAINING & EQUIPMENT, TO CONTAIN SPILLS OF OIL AND OTHER HAZARDOUS MATERIALS.
- 6. ACTIVITIES SUCH AS VEHICLE WASHING ARE TO BE CARRIED OUT AT AN OFF-SITE FACILITY WHEREIN THE WATER IS DISCHARGED INTO A SANITARY SEWER.
- 7. THE CONTRACTOR SHALL PROVIDE COVERED WASTE RECEPTACLE FOR COMMON SOLID WASTES AT CONVENIENT LOCATIONS ON THE JOB SITE AND PROVIDE REGULAR COLLECTION OF WASTES.
- 8. THE CONTRACTOR SHALL PROVIDE SANITARY FACILITIES OF SUFFICIENT NUMBER AND SIZE TO ACCOMMODATE CONSTRUCTION CREWS AND ENSURE ADEQUATE ANCHORAGE OF SUCH FACILITIES TO PREVENT THEM FROM BEING TIPPED BY THE WEATHER OR VANDALISM.
- 9. APPROPRIATE STORAGE AND DISPOSAL OF WATER FROM DEWATERING OPERATIONS SHALL BE EXERCISED IN THE EVENT THAT ACCUMULATED WATER MUST BE REMOVED FROM A WORK LOCATION.
- 10. COVERED AND SECURED STORAGE AREAS FOR POTENTIALLY TOXIC MATERIALS SHALL BE PROVIDED. ALL HAZARDOUS MATERIAL CONTAINERS SHOULD BE PLACED IN SECONDARY CONTAINMENT.
- 11. VEHICLE AND EQUIPMENT & MAINTENANCE SHOULD BE PERFORMED OFF-SITE WHENEVER PRACTICAL.
- 12. SOIL STOCKPILES SHALL BE COVERED, AND LOCATED AT LEAST 50 FEET AWAY FROM DRAINAGE CHANNELS AND STORMWATER SYSTEMS.
- 13. CONTRACTOR MUST ENSURE THAT THE CONSTRUCTION SITE IS PREPARED PRIOR TO THE ONSET OF ANY STORM.
- 14. ALL SEDIMENT DEPOSITED ON PAVED SURFACES SHALL BE SWEPT AT THE END OF EACH WORKING DAY, AS NECESSARY OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE. A STABILIZED CONSTRUCTION ENTRANCE MAY BE REQUIRED TO PREVENT SEDIMENT FROM BEING DEPOSITED ON PAVED ROADWAYS.
- 15. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN ACCORDANCE TO THEIR RESPECTIVE BMP FACT SHEET UNTIL DISTURBED AREAS ARE STABILIZED.
- 16. THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. VARIATIONS MAY BE MADE TO THE PLAN IN THE FIELD SUBJECT TO THE APPROVAL OF OR AT THE DIRECTION OF THE OWNERS REPRESENTATIVE.
- 17. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIX ANY DEFICIENCIES INDICATED BY THE CITY'S PROJECT MANAGER TO PREVENT EROSION AND CONTROL SEDIMENT.

ABBREVIATIONS LEGEND

CITY	CITY OF FERNDALE		EXISTING	PROPOSED
DIA, Ø EL, ELEV	DIAMETER ELEVATION	OVERHEAD ELECTRICAL	OHE	
EG	EXISTING GROUND	STORM DRAIN PIPE	SD	
EX	EXISTING	STORM DRAIN INLET	≡	
FG FL	FINISHED GRADE FLOW LINE			D
FT	FOOT OR FEET	STORM DRAIN MANHOLE		•
G	GAS	SANITARY SEWER PIPE		
HMA	HOT MIX ASPHALT	SANITARY SEWER MANHOLE	(55)	
JT LF	JOINT TRENCH LINEAR FEET	WATER MAIN	W	
MAX	MAXIMUM	WATER VALVE	\bowtie	
MIN	MINIMUM	FIRE HYDRANT	Юч	
(N)	NEW	FENCE	x	
OHE S	OVERHEAD ELECTRICAL SLOPE	ELECTRICAL POLE	6	
SD	STORM DRAIN	PROPERTY LINE		
SS	SANITARY SEWER	EDGE OF PAVEMENT		
STA.	STATION	STORM WATER DITCH		
TYP W	TYPICAL WATER	MINOR CONTOUR		
		MAJOR CONTOUR		
		LIMITS OF DISTURBANCE		
		LIMITS OF GRADING		



PRELIMINARY

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Client CITY OF FERNDALE

ject WATER QUALITY AND DRAINAGE

Title NOTES AND ABBREVIATIONS

IMPROVEMENTS PROJECT

2024-09-12

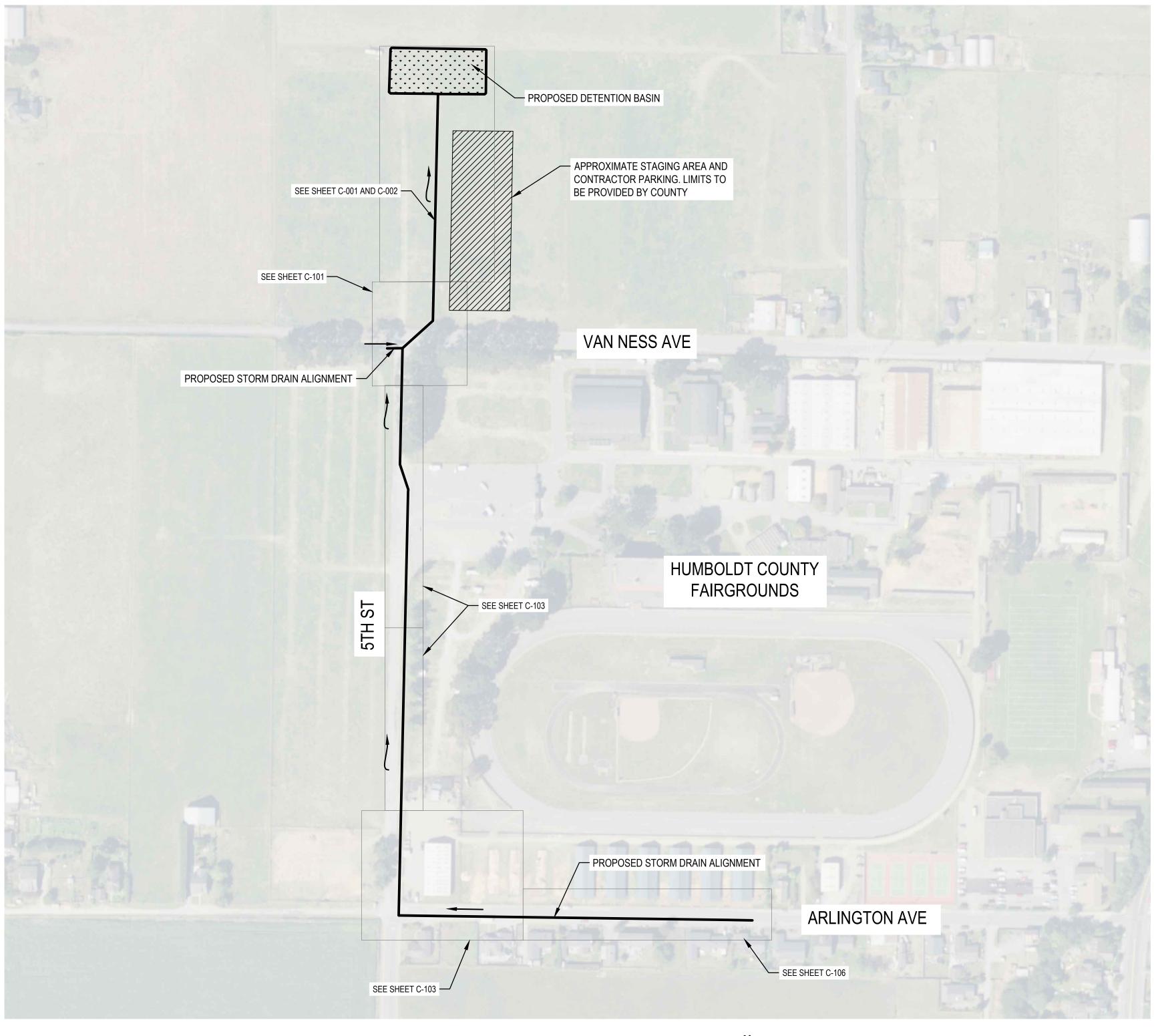
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Design Check BRETT VIVYAN Project Director JEREMY SVEHLA Designer TAYLOR ALLEN Plot Date: 20 September 2024 - 12:54 PM Plotted By: Emma Vaio

No. Issue

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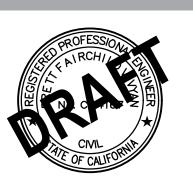


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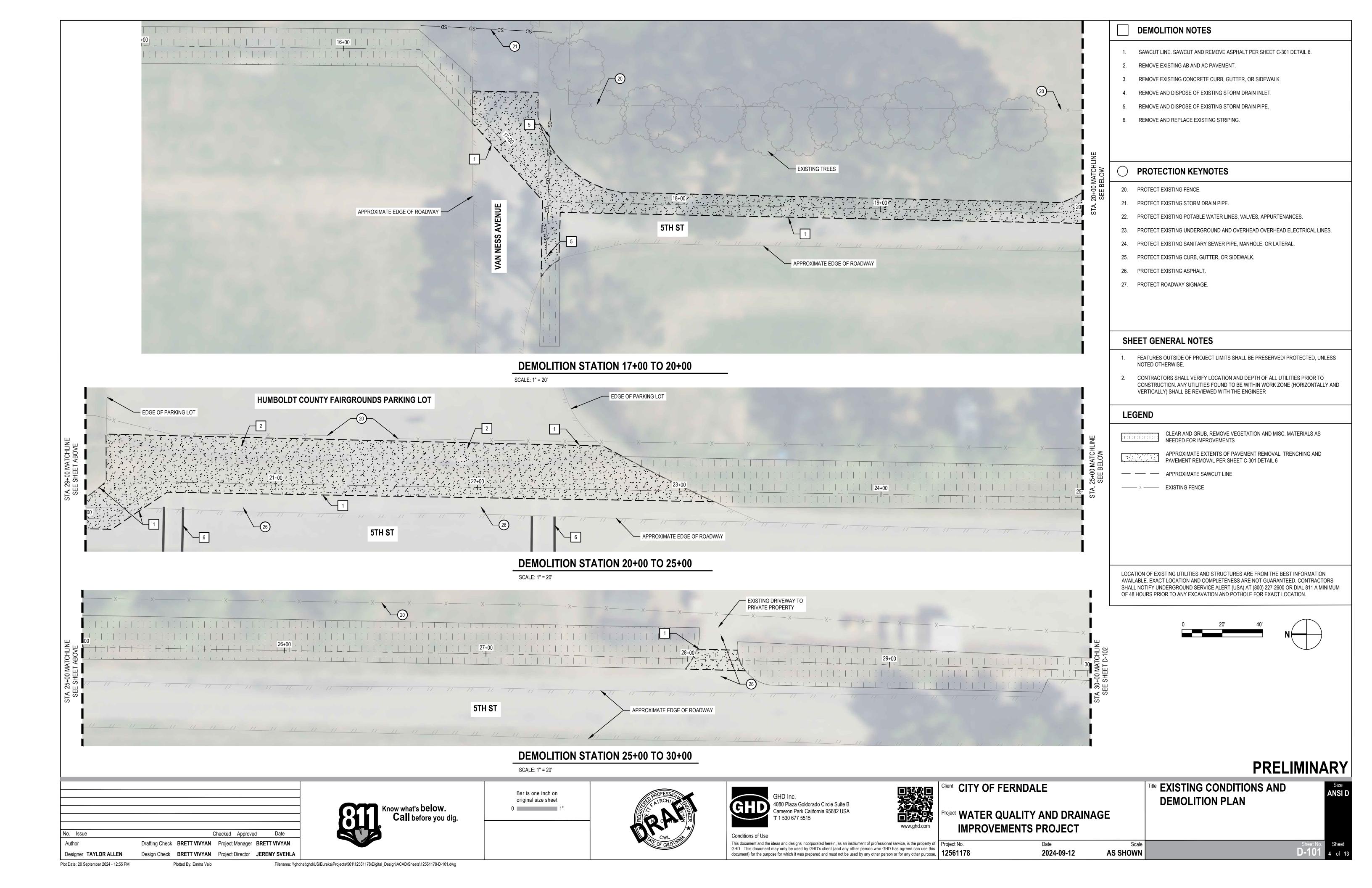
Client CITY OF FERNDALE

Title PROJECT OVERVIEW

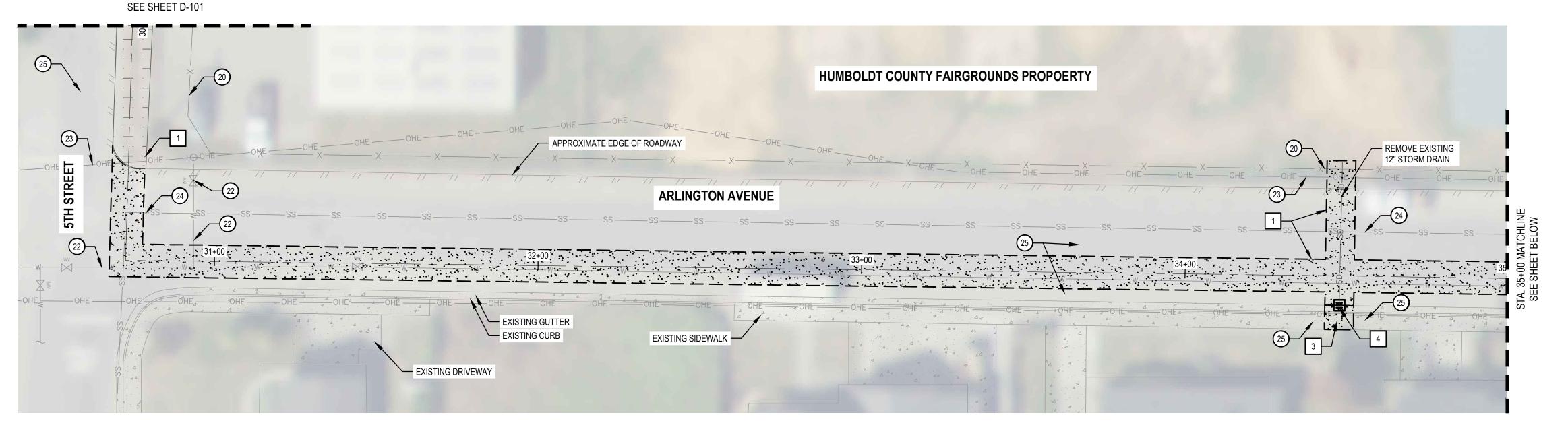
roject WATER QUALITY AND DRAINAGE

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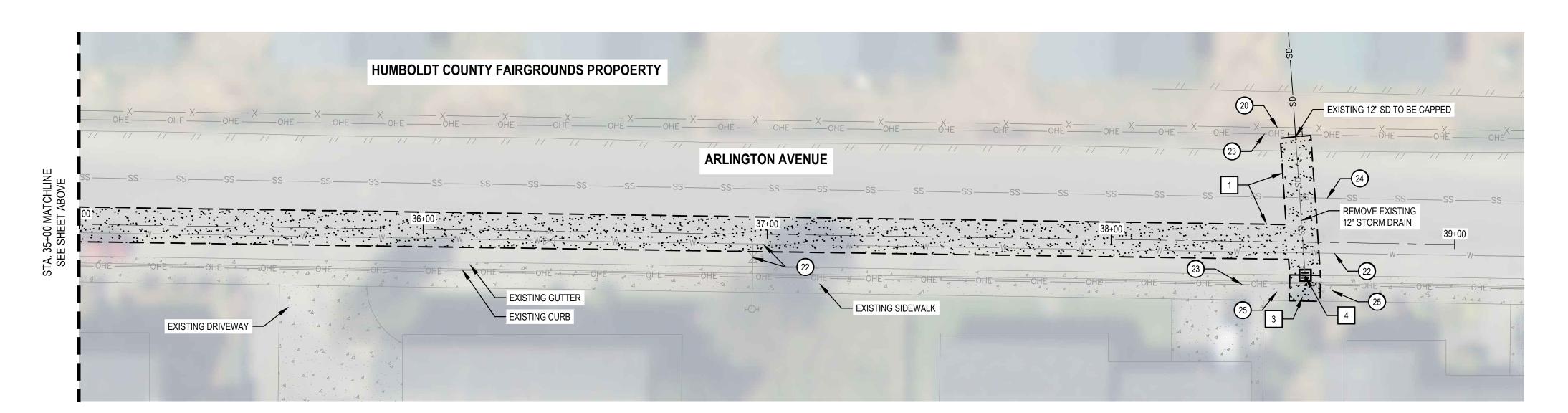


STA. 30+00 MATCHLINE



DEMOLITION STATION 30+00 TO 35+00

SCALE: 1" = 20'



DEMOLITION STATION 35+00 TO 39+00

SCALE: 1" = 20'

Bar is one inch on

original size sheet

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DEMOLITION NOTES

- 1. SAWCUT LINE. SAWCUT AND REMOVE ASPHALT PER SHEET C-301 DETAIL 6.
- 2. REMOVE EXISTING AB AND AC PAVEMENT.
- 3. REMOVE EXISTING CONCRETE CURB, GUTTER, OR SIDEWALK.
- 4. REMOVE AND DISPOSE OF EXISTING STORM DRAIN INLET.
- 5. REMOVE AND DISPOSE OF EXISTING STORM DRAIN PIPE.
- REMOVE AND REPLACE EXISTING STRIPING.

PROTECTION KEYNOTES

- 20. PROTECT EXISTING FENCE.
- 21. PROTECT EXISTING STORM DRAIN PIPE.
- 22. PROTECT EXISTING POTABLE WATER AND OVERHEAD ELECTRICAL LINES.
- 23. PROTECT EXISTING SANITARY SEWER PIPE, MANHOLE, OR LATERAL.
- 24. PROTECT EXISTING CURB, GUTTER, OR SIDEWALK.
- PROTECT EXISTING ASPHALT.
- 26. PROTECT ROADWAY SIGNAGE.

SHEET GENERAL NOTES

- FEATURES OUTSIDE OF PROJECT LIMITS SHALL BE PRESERVED/ PROTECTED, UNLESS NOTED OTHERWISE.
- CONTRACTORS SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. ANY UTILITIES FOUND TO BE WITHIN WORK ZONE (HORIZONTALLY AND VERTICALLY) SHALL BE REVIEWED WITH THE ENGINEER

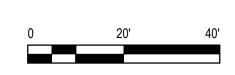
LEGEND

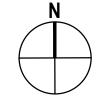
CLEAR AND GRUB, REMOVE VEGETATION AND MISC. MATERIALS AS NEEDED FOR IMPROVEMENTS

APPROXIMATE EXTENTS OF PAVEMENT REMOVAL. TRENCHING AND PAVEMENT REMOVAL PER SHEET C-301 DETAIL 6 — — APPROXIMATE SAWCUT LINE

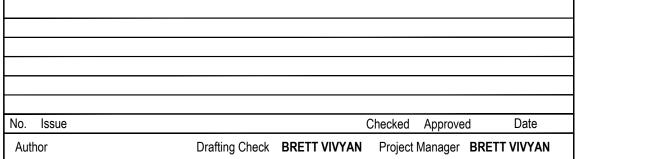
——— × ——— EXISTING FENCE

LOCATION OF EXISTING UTILITIES AND STRUCTURES ARE FROM THE BEST INFORMATION AVAILABLE. EXACT LOCATION AND COMPLETENESS ARE NOT GUARANTEED. CONTRACTORS SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600 OR DIAL 811 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION AND POTHOLE FOR EXACT LOCATION.





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ject WATER QUALITY AND DRAINAGE

IMPROVEMENTS PROJECT

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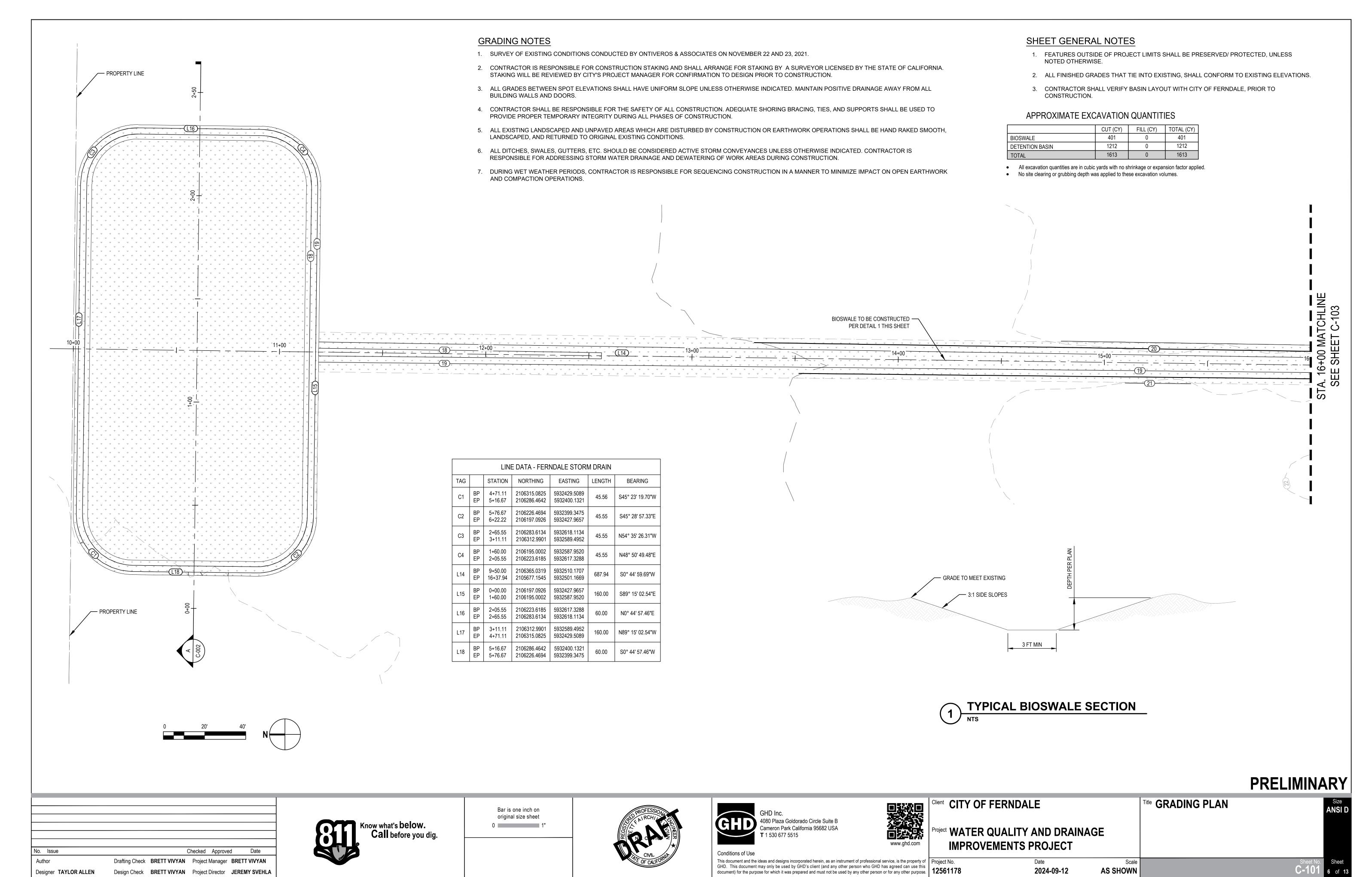
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Scale

AS SHOWN

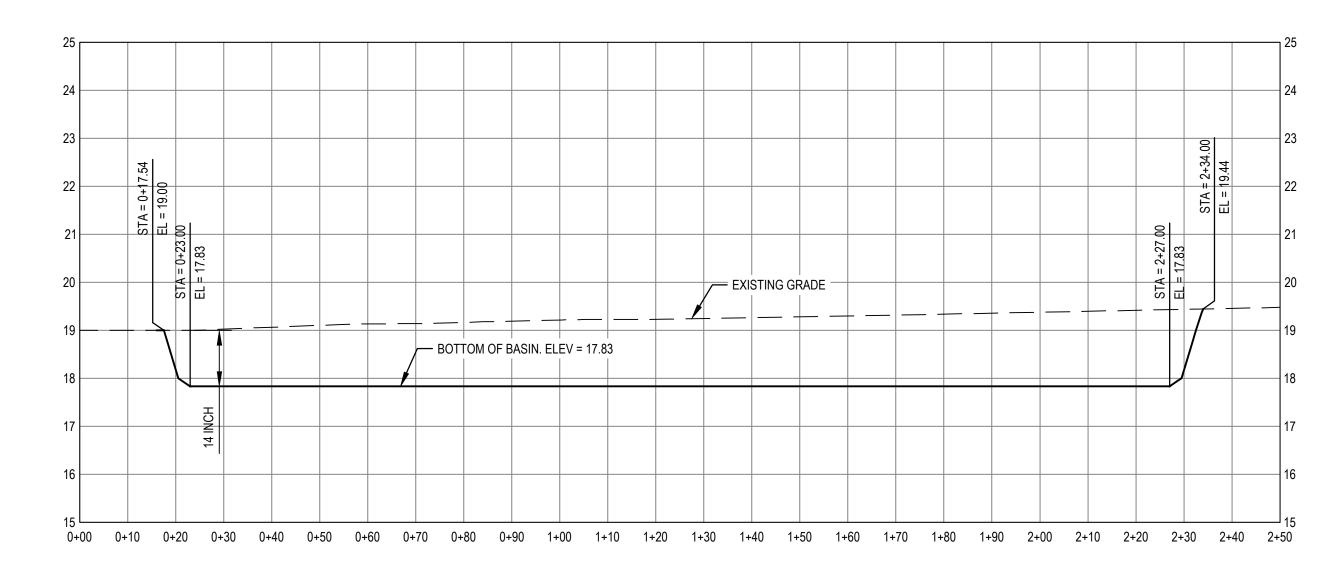


Designer TAYLOR ALLEN Design Check BRETT VIVYAN Project Director JEREMY SVEHLA Plot Date: 20 September 2024 - 12:55 PM Plotted By: Emma Vaio

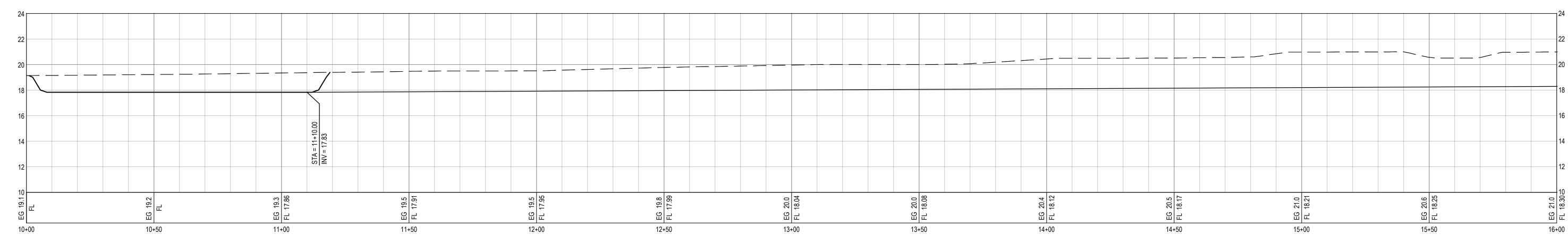


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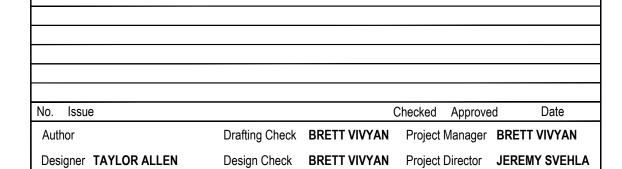




STA. 10+00 TO 16+00 PROFILE VIEW

SCALE: 1" = 20' HORZ. 5:1 VERTICAL EXAGGERATION

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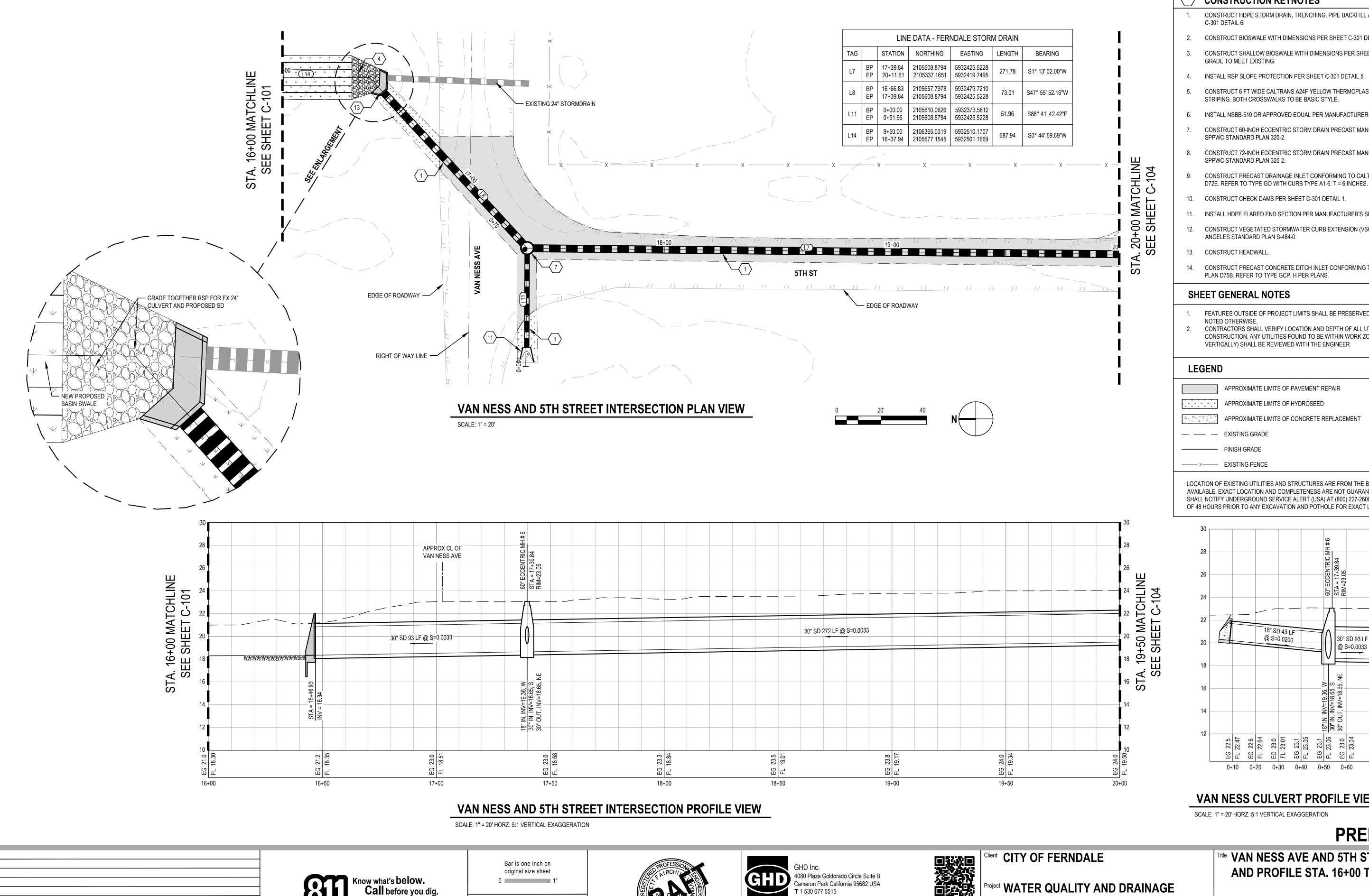
Client CITY OF FERNDALE

Title GRADING SECTIONS

roject WATER QUALITY AND DRAINAGE **IMPROVEMENTS PROJECT**

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CONSTRUCTION KEYNOTES

- CONSTRUCT HDPE STORM DRAIN, TRENCHING, PIPE BACKFILL AND BEDDING PER SHEET C-301 DETAIL 6.
- 2. CONSTRUCT BIOSWALE WITH DIMENSIONS PER SHEET C-301 DETAIL 2.
- CONSTRUCT SHALLOW BIOSWALE WITH DIMENSIONS PER SHEET C-301 DETAIL 3. FIT GRADE TO MEET EXISTING.
- 4. INSTALL RSP SLOPE PROTECTION PER SHEET C-301 DETAIL 5.
- 5. CONSTRUCT 6 FT WIDE CALTRANS A24F YELLOW THERMOPLASTIC CROSSWALK STRIPING. BOTH CROSSWALKS TO BE BASIC STYLE.
- INSTALL NSBB-510 OR APPROVED EQUAL PER MANUFACTURER INSTRUCTIONS.
- CONSTRUCT 60-INCH ECCENTRIC STORM DRAIN PRECAST MANHOLE CONFORMING TO
- CONSTRUCT 72-INCH ECCENTRIC STORM DRAIN PRECAST MANHOLE CONFORMING TO SPPWC STANDARD PLAN 320-2.
- CONSTRUCT PRECAST DRAINAGE INLET CONFORMING TO CALTRANS STANDARD PLAN
- 10. CONSTRUCT CHECK DAMS PER SHEET C-301 DETAIL 1.
- 11. INSTALL HDPE FLARED END SECTION PER MANUFACTURER'S SPECIFICATIONS.
- 12. CONSTRUCT VEGETATED STORMWATER CURB EXTENSION (VSCE) PER CITY OF LOS ANGELES STANDARD PLAN S-484-0.
- 13. CONSTRUCT HEADWALL.
- 14. CONSTRUCT PRECAST CONCRETE DITCH INLET CONFORMING TO CALTRANS STANDARD PLAN D75B. REFER TO TYPE GCP. H PER PLANS.

SHEET GENERAL NOTES

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- CONTRACTORS SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. ANY UTILITIES FOUND TO BE WITHIN WORK ZONE (HORIZONTALLY AND VERTICALLY) SHALL BE REVIEWED WITH THE ENGINEER

LEGEND

APPROXIMATE LIMITS OF PAVEMENT REPAIR

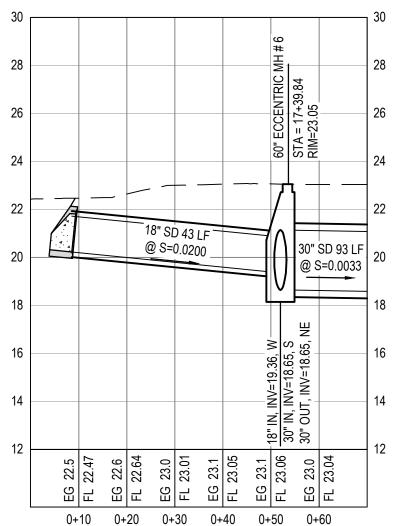
APPROXIMATE LIMITS OF HYDROSEED

APPROXIMATE LIMITS OF CONCRETE REPLACEMENT

— — EXISTING GRADE

FINISH GRADE

LOCATION OF EXISTING UTILITIES AND STRUCTURES ARE FROM THE BEST INFORMATION AVAILABLE. EXACT LOCATION AND COMPLETENESS ARE NOT GUARANTEED. CONTRACTORS SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600 OR DIAL 811 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION AND POTHOLE FOR EXACT LOCATION.



VAN NESS CULVERT PROFILE VIEW

SCALE: 1" = 20' HORZ. 5:1 VERTICAL EXAGGERATION

Scale

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Plotted By: Emma Vaio

Design Check BRETT VIVYAN Project Director JEREMY SVEHLA

Designer TAYLOR ALLEN

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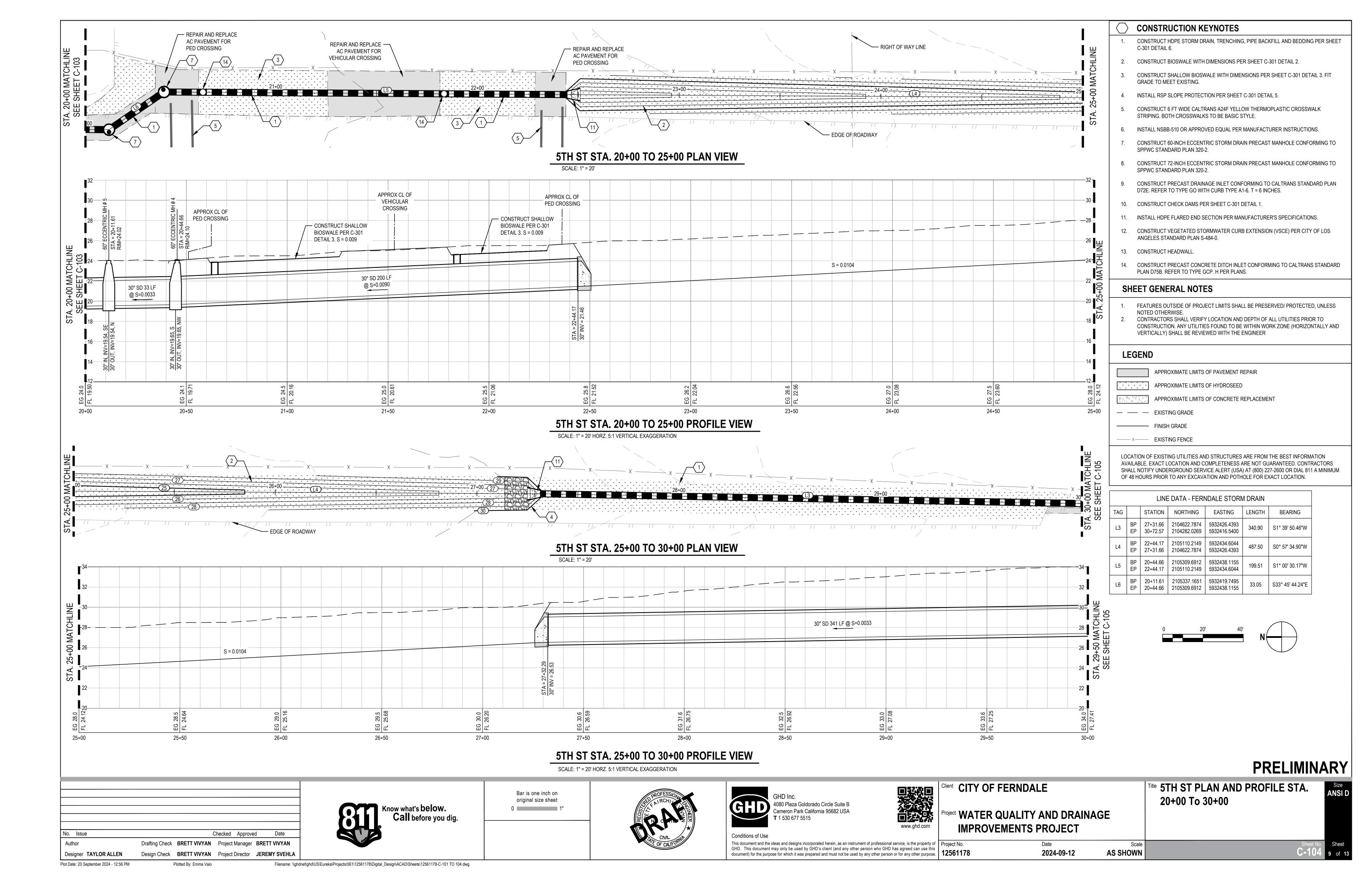
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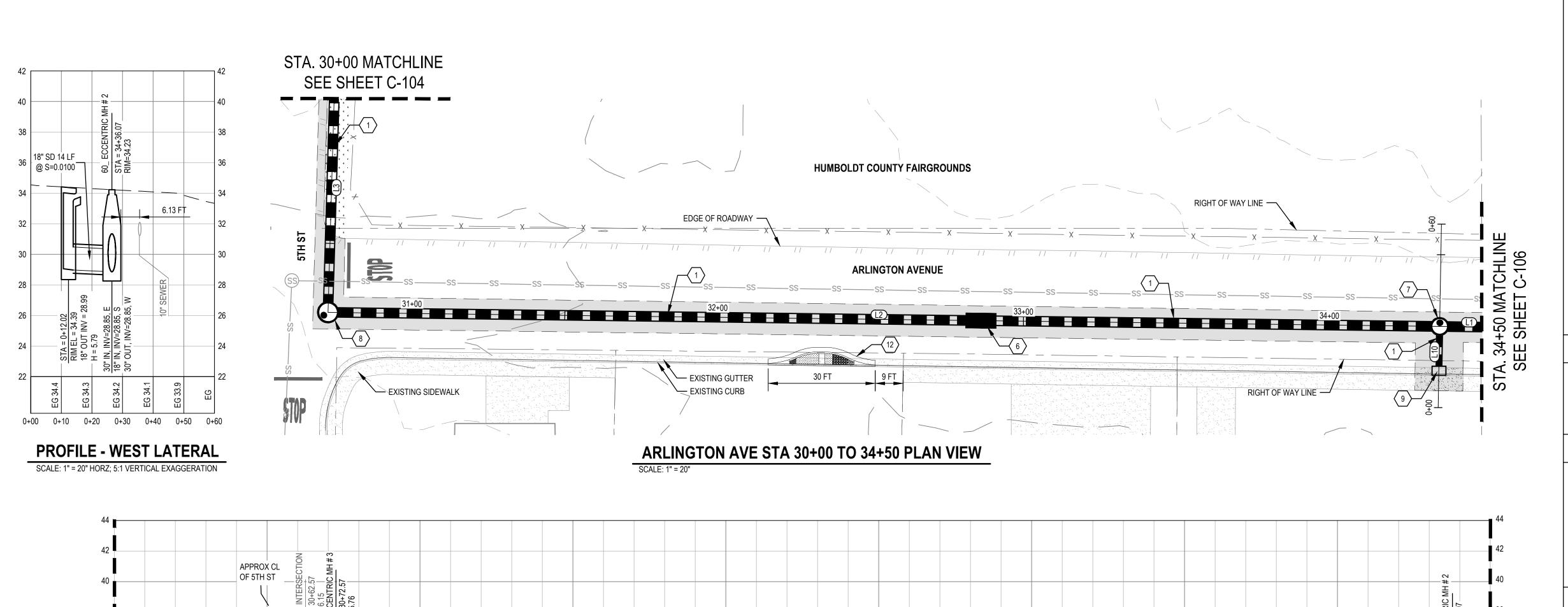
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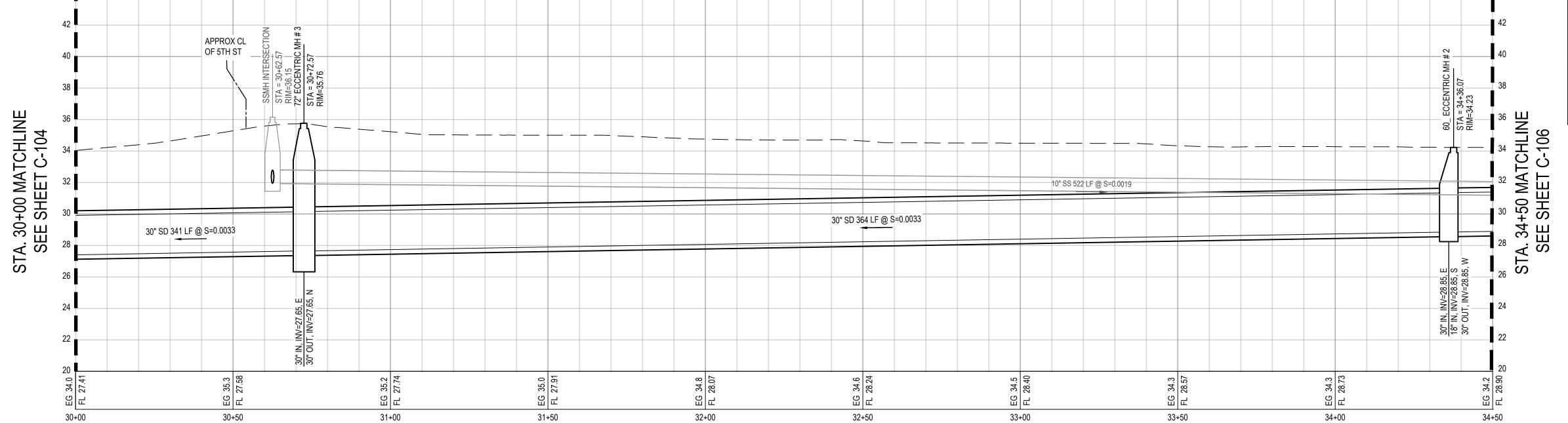
2024-09-12

IMPROVEMENTS PROJECT

Title VAN NESS AVE AND 5TH ST PLAN AND PROFILE STA. 16+00 TO 20+00







ARLINGTON AVE STA 30+00 TO 34+50 PROFILE VIEW

SCALE: 1" = 20" HORZ; 5:1 VERTICAL EXAGGERATION

CONSTRUCTION KEYNOTES

- CONSTRUCT HDPE STORM DRAIN, TRENCHING, PIPE BACKFILL AND BEDDING PER SHEET C-301 DETAIL 6.
- 2. CONSTRUCT BIOSWALE WITH DIMENSIONS PER SHEET C-301 DETAIL 2.
- CONSTRUCT SHALLOW BIOSWALE WITH DIMENSIONS PER SHEET C-301 DETAIL 3. FIT GRADE TO MEET EXISTING.
- 4. INSTALL RSP SLOPE PROTECTION PER SHEET C-301 DETAIL 5.
- CONSTRUCT 6 FT WIDE CALTRANS A24F YELLOW THERMOPLASTIC CROSSWALK STRIPING. BOTH CROSSWALKS TO BE BASIC STYLE.
- INSTALL NSBB-510 OR APPROVED EQUAL PER MANUFACTURER INSTRUCTIONS.
- CONSTRUCT 60-INCH ECCENTRIC STORM DRAIN PRECAST MANHOLE CONFORMING TO
- CONSTRUCT 72-INCH ECCENTRIC STORM DRAIN PRECAST MANHOLE CONFORMING TO SPPWC STANDARD PLAN 320-2.
- CONSTRUCT PRECAST DRAINAGE INLET CONFORMING TO CALTRANS STANDARD PLAN D72E. REFER TO TYPE GO WITH CURB TYPE A1-6. T = 6 INCHES.
- 10. CONSTRUCT CHECK DAMS PER SHEET C-301 DETAIL 1.

SPPWC STANDARD PLAN 320-2.

- 11. INSTALL HDPE FLARED END SECTION PER MANUFACTURER'S SPECIFICATIONS.
- 12. CONSTRUCT VEGETATED STORMWATER CURB EXTENSION (VSCE) PER CITY OF LOS ANGELES STANDARD PLAN S-484-0.
- 13. CONSTRUCT HEADWALL.
- 14. CONSTRUCT PRECAST CONCRETE DITCH INLET CONFORMING TO CALTRANS STANDARD PLAN D75B. REFER TO TYPE GCP. H PER PLANS.

SHEET GENERAL NOTES

- FEATURES OUTSIDE OF PROJECT LIMITS SHALL BE PRESERVED/ PROTECTED, UNLESS NOTED OTHERWISE.
- CONTRACTORS SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. ANY UTILITIES FOUND TO BE WITHIN WORK ZONE (HORIZONTALLY AND VERTICALLY) SHALL BE REVIEWED WITH THE ENGINEER

LEGEND

Scale

AS SHOWN

————— EXISTING FENCE

APPROXIMATE LIMITS OF PAVEMENT REPAIR APPROXIMATE LIMITS OF HYDROSEED APPROXIMATE LIMITS OF CONCRETE REPLACEMENT — — EXISTING GRADE FINISH GRADE

LOCATION OF EXISTING UTILITIES AND STRUCTURES ARE FROM THE BEST INFORMATION AVAILABLE. EXACT LOCATION AND COMPLETENESS ARE NOT GUARANTEED. CONTRACTORS SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600 OR DIAL 811 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION AND POTHOLE FOR EXACT LOCATION.

LINE DATA - FERNDALE STORM DRAIN EASTING LENGTH NORTHING BEARING STATION 2104277.3141 2104270.6565 5932786.5467 5933243.7757 S89° 09' 56.86"E 38+99.88 BP 30+72.57 2104282.0269 5932416.5400 EP 34+42.60 2104277.3141 5932786.5467 S89° 16' 12.91"E L3 BP 27+31.66 2104622.7874 5932426.4393 EP 30+72.57 2104282.0269 5932416.5400 S1° 39' 50.46"W L10 BP 0+00.00 2104250.8745 5932779.5735 EP 0+60.00 2104310.8617 5932780.6575 60.00 N1° 02' 07.05"E



PRELIMINARY

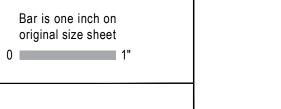
Checked Approved No. Issue Author Drafting Check BRETT VIVYAN Project Manager BRETT VIVYAN

Plotted By: Emma Vaio

Designer TAYLOR ALLEN

Plot Date: 20 September 2024 - 12:56 PM









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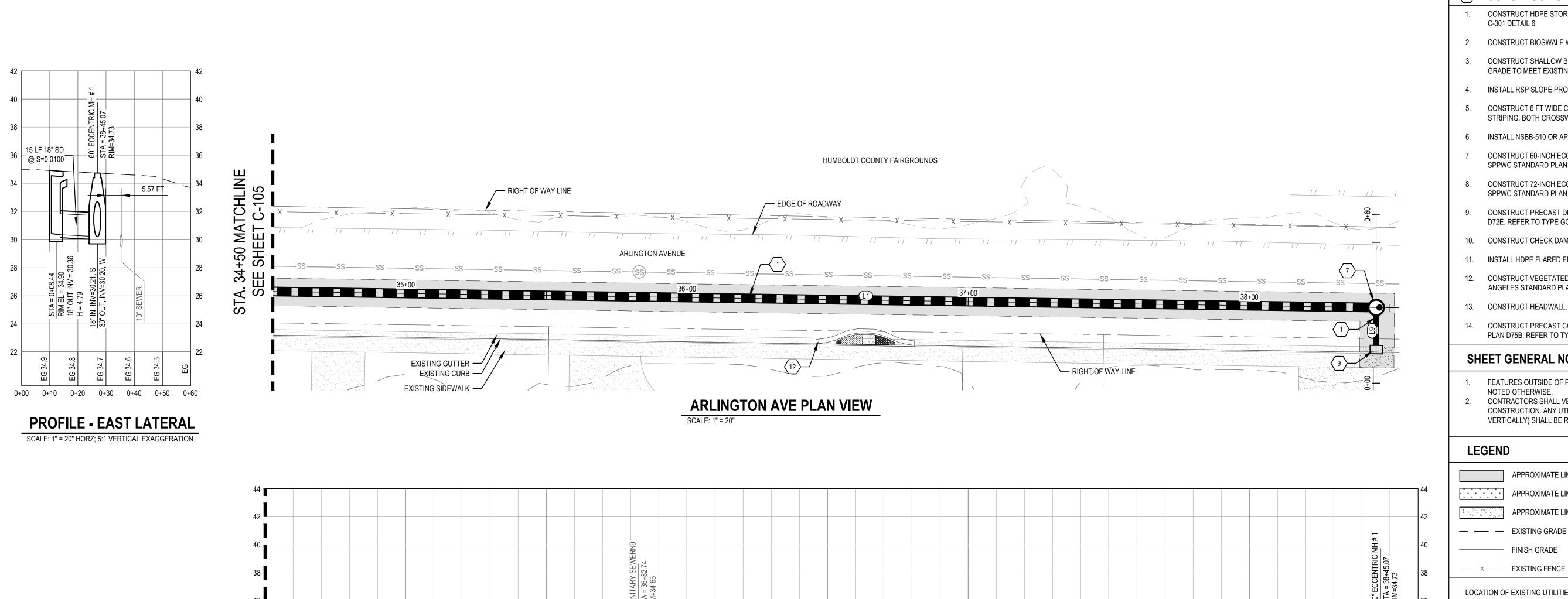
Client CITY OF FERNDALE

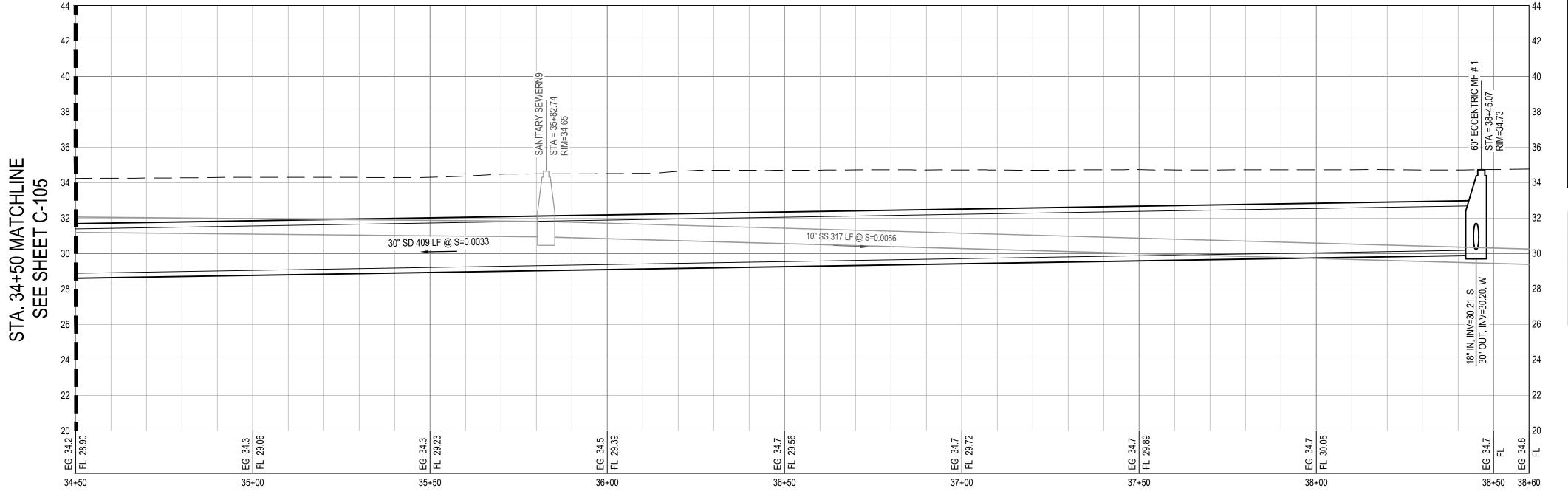
2024-09-12

pject WATER QUALITY AND DRAINAGE **IMPROVEMENTS PROJECT**

Title 5TH ST AND ARLINGTON AVE PLAN AND PROFILE STA. 30+00 To 34+50

Design Check BRETT VIVYAN Project Director JEREMY SVEHLA





ARLINGTON AVE PROFILE VIEW

SCALE: 1" = 20" HORZ; 5:1 VERTICAL EXAGGERATION

Bar is one inch on

original size sheet

0 1"

CONSTRUCTION KEYNOTES

- CONSTRUCT HDPE STORM DRAIN, TRENCHING, PIPE BACKFILL AND BEDDING PER SHEET C-301 DETAIL 6.
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SPPWC STANDARD PLAN 320-2.

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- 13. CONSTRUCT HEADWALL.
- 14. CONSTRUCT PRECAST CONCRETE DITCH INLET CONFORMING TO CALTRANS STANDARD PLAN D75B. REFER TO TYPE GCP. H PER PLANS.

SHEET GENERAL NOTES

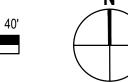
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LEGEND APPROXIMATE LIMITS OF PAVEMENT REPAIR APPROXIMATE LIMITS OF HYDROSEED APPROXIMATE LIMITS OF CONCRETE REPLACEMENT — — EXISTING GRADE ———— FINISH GRADE

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LINE DATA - FERNDALE STORM DRAIN									
TAG		STATION	NORTHING	EASTING	LENGTH	BEARING			
L1	BP EP	34+42.60 38+99.88	2104277.3141 2104270.6565	5932786.5467 5933243.7757	457.28	S89° 09' 56.86"E			
L9	BP EP	0+13.42 0+26.87	2104258.0035 2104271.4545	5933188.9704 5933188.9697	13.45	N0° 00' 11.96"W			





PRELIMINARY

Title ARLINGTON AVE PLAN AND PROFILE STA. 34+50 TO 38+60

No. Issue Author Drafting Check BRETT VIVYAN Project Manager BRETT VIVYAN







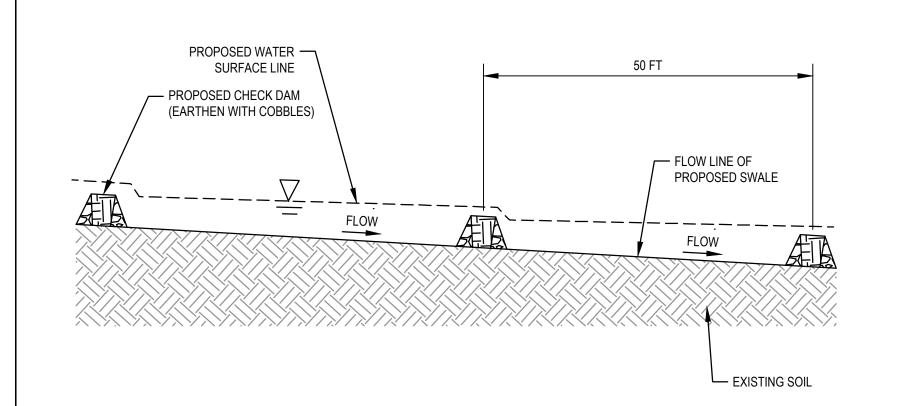
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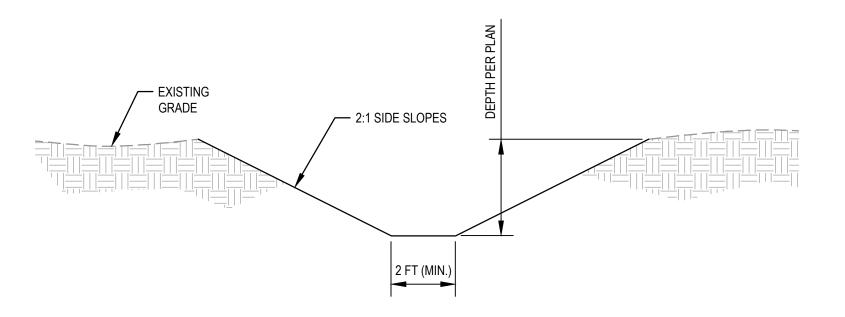
pject WATER QUALITY AND DRAINAGE **IMPROVEMENTS PROJECT**

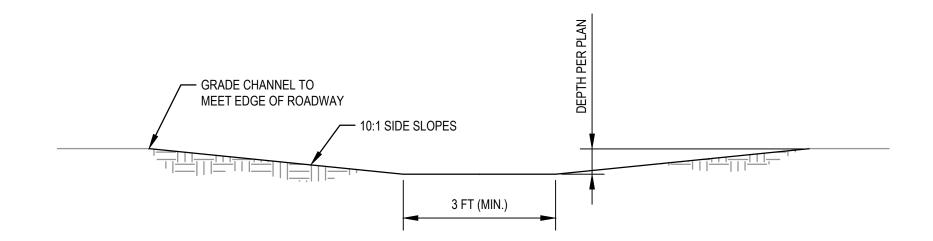
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Client CITY OF FERNDALE

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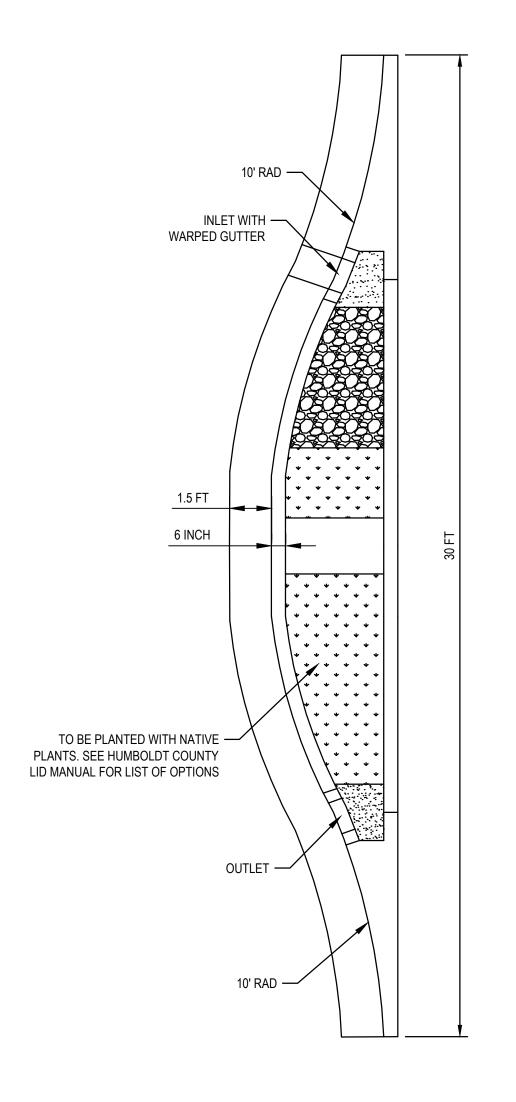


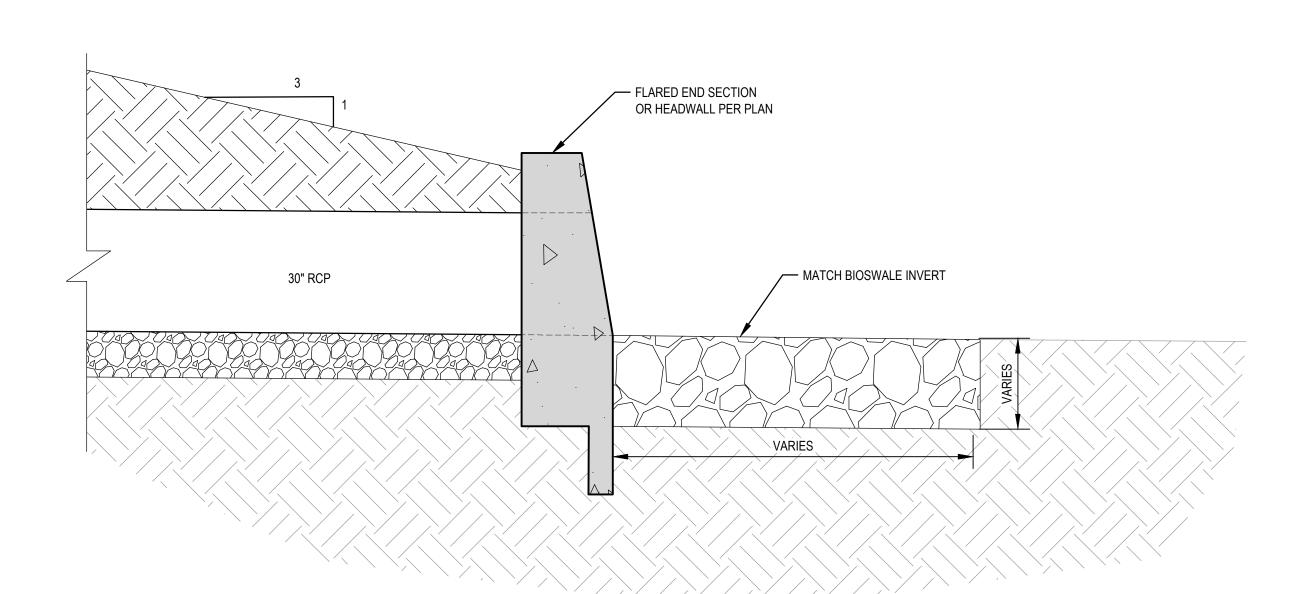
TYPICAL BIOSWALE WITH CHECK DAM PROFILE

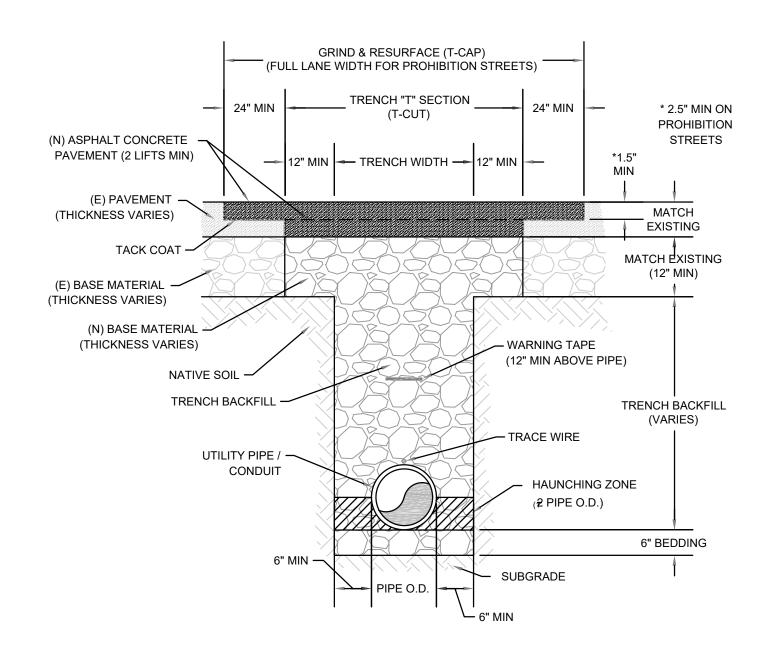
NTS

2 TYPICAL 5TH STREET BIOSWALE SECTION NTS

3 SHALLOW BIOSWALE SECTION NTS







VEGETATED STORMWATER CURB EXTENTION

NTS

8 RIPRAP DETAIL

NTS

6 TYPICAL TRENCH

PRELIMINARY

No. Issue

Checked Approved Date

Author

Drafting Check BRETT VIVYAN Project Manager BRETT VIVYAN

Designer TAYLOR ALLEN

Design Check BRETT VIVYAN Project Director JEREMY SVEHLA

Plotted By: Emma Vaio

Plot Date: 20 September 2024 - 12:57 PM

Know what's below.
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original size sheet





Client CITY OF FERNDALE

Project WATER QUALITY AND DRAINAGE
IMPROVEMENTS PROJECT

Title TYPICAL SECTIONS AND DETAILS

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