

Change Requested by: Engineer Contractor

CCO No.	Suppl. No.	Contract No.	Contract Name	Federal Number(s)
3		8597 Project No. 36204002	Patterson Drive Emergency Culvert Repair Project	NA

To **Doug Veerkamp General Engineering, Inc.** Contractor

You are directed to make the following changes from the plans and specifications or do the following described work not included in the plans and specifications for this Contract.

NOTE: This change order must be approved by the Board of Supervisors. Yes No

Description of work to be done, estimate of quantities and prices to be paid. (Segregate between additional work at contract price, agreed price and force account.) Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time. The last percentage shown is the net accumulated increase or decrease from the original quantity in the Bid Item List.

Increases in Bid Items at Bid Item Unit Prices

In accordance with Standard Specification 4-1.05, Changes and Extra Work, and as shown on sheets 4 and 5 of this Contract Change Order #3, revise the scope of the drainage system installation to account for over excavation and additional slurry-cement backfill due to saturated subgrade conditions caused by the failed existing 30" CMP and rainwater intrusion. Perform additional Roadway Excavation and Culvert Slurry-Cement Backfill at the following agreed quantities and Contract Bid Item Prices:

Item 06, Roadway Excavation (Final Pay).....	+9 CY (+10.0%).....	+\$1,800.00
Item 14, Culvert Slurry-Cement Backfill (Final Pay).....	+7 CY (+10.0%).....	+\$2,975.00
Item 16, Minor Concrete (Curb and Gutter).....	+20 LF (+100.0%).....	+\$5,200.00

Estimated Cost of Agreed Quantity at Bid Item Prices = \$9,975.00

Extra Work at Force Account:

In accordance with Standard Specifications 4-1.05, Changes and Extra Work; and 9-1.04, Force Account, perform the following Extra Work at Force Account.

- Perform Additional Pumping of Water and Over Excavation of Saturated Material Within Trench Due to Seepage of Saturated Ground and Water Standing in Existing 30" CMP:

Furnish equipment and labor to provide additional flagging, add pumps in trench to pump water from trench caused by seeping ground water and water standing in/under existing failed 30" CMP. Furnish equipment and labor to excavate saturated material under pipe and from sluffing trench walls behind shoring. Haul and dispose of saturated material off site. Furnish material and labor to install Tensar Biaxial Geogrid BX1200 in the bottom of trench.

Estimated Cost at Force Account = \$2,605.91

- Repair Approximately 10 Lineal Feet of Flowline in Existing 30" CMP

Furnish equipment, materials, labor, and additional flagging to vacuum saturated material under eroded flowline of existing 30" CMP, install 6" welded wire mesh and 6-sack concrete to re-build the flowline of the eroded 30" CMP, remove roots that penetrated into the 30" CMP, and mortar the separation in the pipe that was caused by root intrusion.

Estimated Cost at Force Account = \$5,854.83

Change Requested by: Engineer Contractor X

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3		8597 Project No. 36204002	Patterson Drive Emergency Culvert Repair Project	NA

- Perform Additional Flagging, Trench Plate Removal, and Pumping in Trench to Remove Rainwater Intrusion During Storm:

Perform additional traffic control and flagging, perform additional pumping of water intrusion, and furnish 3 cubic yards of 6-sack concrete that was wasted due to water intrusion during the storm on 4/4/24. During the continued storm on 4/5/24, perform additional traffic control and flagging to remove trench plate from west end of trench for trench inspection and placement of additional pumps. Deliver extra generator and install additional 2" pumps to prevent rainwater intrusion from rising in trench and causing further trench wall saturation. Monitor pumps and water level in trench over the weekend on 4/6/24 to 4/7/24.

Estimated Cost at Force Account = \$6,314.75

- Perform Additional Pumping of Water Within Trench Due to Rainwater Intrusion & Muck-out Trench after Storm:

Furnish equipment, materials, and labor to continue pumping water in trench caused by rainwater intrusion and additional flow from upstream existing 30" CMP. Furnish equipment and labor to muck-out saturated material from bottom of trench. Re-grade 30" HDPE pipe to join to upstream existing 30" CMP.

Estimated Cost at Force Account = \$7,134.66

- Repair PVC Irrigation Lines Under the Existing Concrete Driveway Apron and Place in PVC Casing

Furnish equipment, materials, and labor to repair two existing 1" PVC irrigation lines that were in place below the existing driveway apron but not shown on Exhibit C Details. Install a 4" PVC casing below new driveway subgrade during Class 2 Asphalt Base placement. Run new 1" PVC irrigation lines through the new 4" PVC casing, and tie-in to the existing irrigation system.

Estimated Cost at Force Account = \$2,045.69

Total Estimated Cost of Contract Change Order #3: \$33,930.84

EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION
Contract Change Order

Sheet 3 of 5


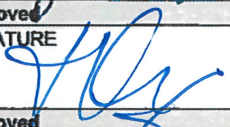
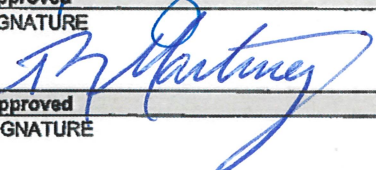
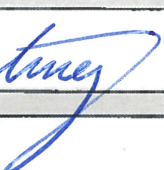
Change Requested by: Engineer Contractor X

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Estimated Cost: Decrease Increase **\$33,930.84**

By reason of this order the time of completion will be adjusted as follows: **No Adjustment**

Submitted by		
SIGNATURE	(PRINT NAME & TITLE)	DATE
	Brian Franklin, P.E., Resident Engineer	5/29/24
Approved		
SIGNATURE	(PRINT NAME & TITLE)	DATE
	John Kahling, P.E., Deputy Director, Engineering (H)	05/29/24
Approved		
SIGNATURE	(PRINT NAME & TITLE)	DATE
	Rafael Martinez, Director Department of Transportation, El Dorado County	5/29/24
Approved		
SIGNATURE	(PRINT NAME & TITLE)	DATE
	Wendy Thomas, Chair Board of Supervisors, El Dorado County	

We the undersigned contractor, have given careful consideration to the change proposed and agree, if this proposal is approved, that we will provide all equipment, furnish the materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above. The prices and terms of payment shown above comprise full and final compensation for all direct costs, indirect costs, cumulative costs, and all overhead costs incurred as a result of this contract change order. NOTE: If you, the contractor, do not sign acceptance of this order, your attention is directed to the requirements of the specification as to proceeding with the ordered work and filing a written protest within the time therein specified.


Contractor Acceptance by		
SIGNATURE	(PRINT NAME & TITLE)	DATE
	Matt Veckman	5-23-24

EXHIBIT C - DETAIL SHEETS (3 OF 4)

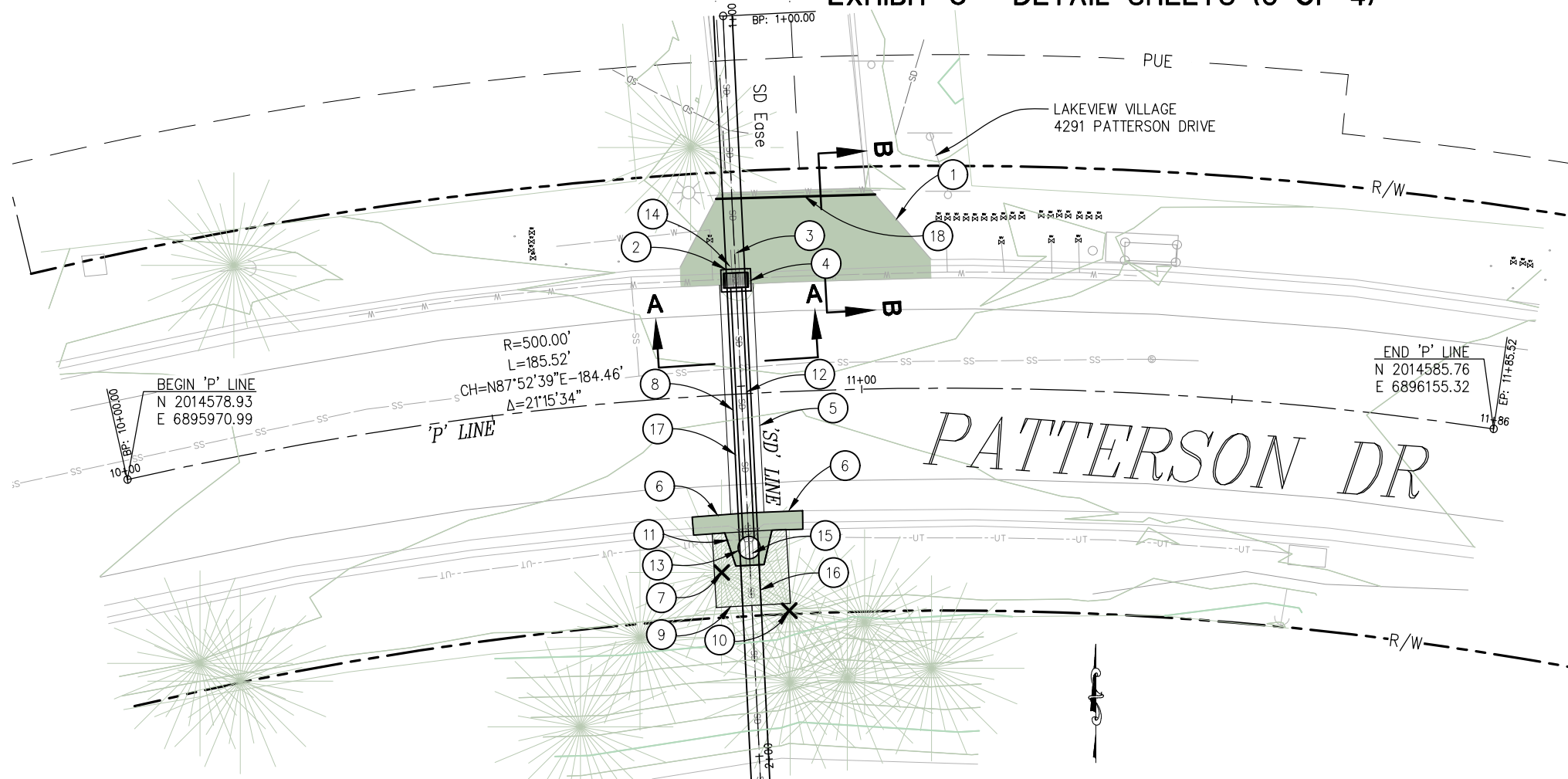
Contract Change Order #3 - Sheet 4 of 5

GENERAL NOTES:

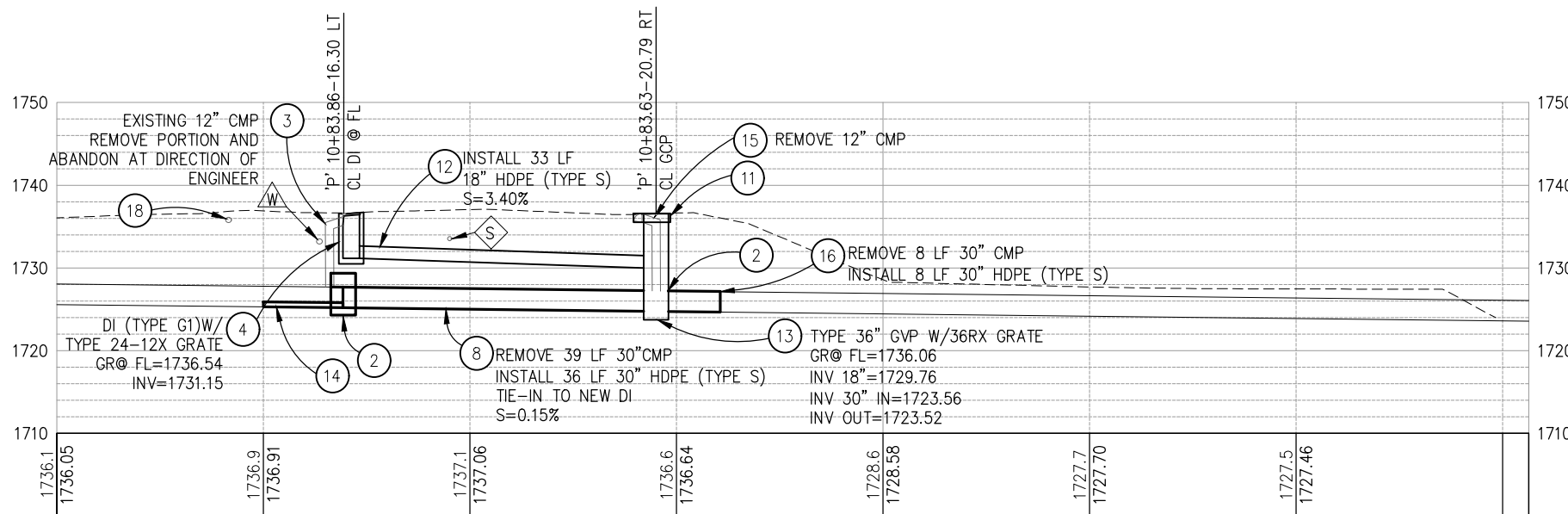
- SHORING AS NEEDED FOR VERTICAL TRENCH EXCAVATION. EXCAVATION SAFETY PLAN SUBMITTAL REQUIRED FOR REVIEW & APPROVAL.
- MAINTAIN TRAFFIC THROUGH DRIVEWAY.
- MAINTAIN TRAFFIC ON PATTERSON RD W/ REVERSING TRAFFIC CONTROL.
- PLACE PCMS BOARD ON PATTERSON DRIVE IN EACH DIRECTION WITH MESSAGE AND LAYOUT APPROVED BY ENGINEER.
- THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. CONTRACTOR TO POTHOLE AND VERIFY LOCATION AND ELEVATION OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON PLAN AND/OR IDENTIFIED BY USA MARKINGS PRIOR TO EXCAVATION. SUPPORT UTILITIES AS NEEDED DURING CONSTRUCTION AND NOTIFY ENGINEER AND UTILITY COMPANY IF A UTILITY CONFLICT IS IDENTIFIED.
- WATER FLOWING IN EXISTING 30" CMP MUST BE PUMPED OR DIVERTED AROUND WORK ZONE BY METHODS APPROVED BY ENGINEER. WATER DIVERSION SUBMITTAL REQUIRED FOR REVIEW & APPROVAL.

CONSTRUCTION NOTES:

- REMOVE AND REPLACE CONCRETE DRIVEWAY APRON (353 SF) PER CROSS SECTION B-B DETAILS ON SHEET 4 OF 4. MATCH EXISTING SLOPE, ADJACENT ASPHALT GRADES, AND GUTTER FLOWLINE.
- CC01 - TIE-IN EXISTING 30" CMP TO NEW 30" HDPE PIPE WITH REINFORCED CONCRETE COUPLER PER SECTION C-C DETAILS ON SHEET 4 OF 4..
- REMOVE PORTION AND ABANDON EXISTING 12" CMP BY CRUSHING TIGHT BELOW DRIVEWAY SUBGRADE AT DIRECTION OF ENGINEER.
- CC01 - INSTALL DI (TYPE G1 24"x36"x65" INNER DIMENSIONS) W/ 24-12X GRATE. (CIP PER CT STANDARD PLAN D72B OR PRECAST PER CT STANDARD PLAN D73B)
- PAVE BACK TRENCH ZONE W/ 3/8" HMA APPROVED BY ENGINEER (3" DEPTH). TRENCH BACKFILL WITH 2-SACK SAND-CEMENT SLURRY (SCREED TO CONSISTENT 3" BELOW FINISH GRADE) APPROVED BY ENGINEER.
- CC03 - REMOVE AND REPLACE CURB AND/OR GUTTER (MATCH EXISTING) 20 LF BOTH SIDES OF DI. SLOPE TO DRAIN TO DI.
- REMOVE 18" STUMP.
- REMOVE 39 LF 30" CMP. REPLACE W/ 36 LF 30" HDPE (TYPE S) AND CONNECT TO GCP.
- CC03 - COVER DISTURBED GROUND WITH LEAF MULCH AND CHIP STOCKPILED PRIOR TO EXCAVATION.
- CC02 - REMOVE 12" DBH OAK TREE AND ROOT BALL.
- CC01 - TIE-IN CONCRETE APRON AND 6" CURB AND GUTTER.
- CC01 - INSTALL 33 LF 18" HDPE (TYPE S) WITH WATER TIGHT JOINTS. TIE-INTO G1 AND GCP INLETS.
- CC01 - INSTALL DI (TYPE 36" GCP) W/36RX GRATE (PER CT STANDARD PLAN D75B, D77B, AND D75C).
- CC03 - REMOVE SATURATED MATERIAL BELOW PIPE - CAST NEW PIPE FLOWLINE WITH 6-SACK CONCRETE REINFORCED WITH 6" WELDED WIRE MESH AS DIRECTED BY ENGINEER.
- REMOVE EXISTING 12" CMP.
- CC02 - EXTEND 30" HDPE (TYPE S) 8 LF FROM GCP TO R/W - COUPLE AT R/W TO 30" HDPE REPLACEMENT (BY OTHERS).
- SEE CD SHEET FOR DRAINAGE SYSTEM DETAILS.
- CC03 - REPLACE UNMARKED EXISTING 3/4" IRRIGATION LINES WITH 4" PVC CONDUIT CONTAINING TWO 3/4" IRRIGATION LINES TIED INTO EXISTING LINES ON EACH SIDE OF DRIVEWAY.



PLAN LAYOUT - IMPROVEMENTS



'SD' - PROFILE

SCALE: 1"=10' H,V

ORIGINAL SCALE IS IN INCHES. FOR REDUCED PLANS. Drawing name: Z:\Civil 3D\Projects\Patterson Drive Emergency Culvert Repair\CADD Files\Sheets\AS-BUILD\AS-BUILD-L&D.dwg Layout Tab: L&D May 29, 2024 - 9:21am KSugiyama



PREPARED UNDER THE SUPERVISION OF:
B. Franklin
 REGISTERED CIVIL ENGINEER
 LICENSE NO. C68952
 DATE: MARCH 14, 2024

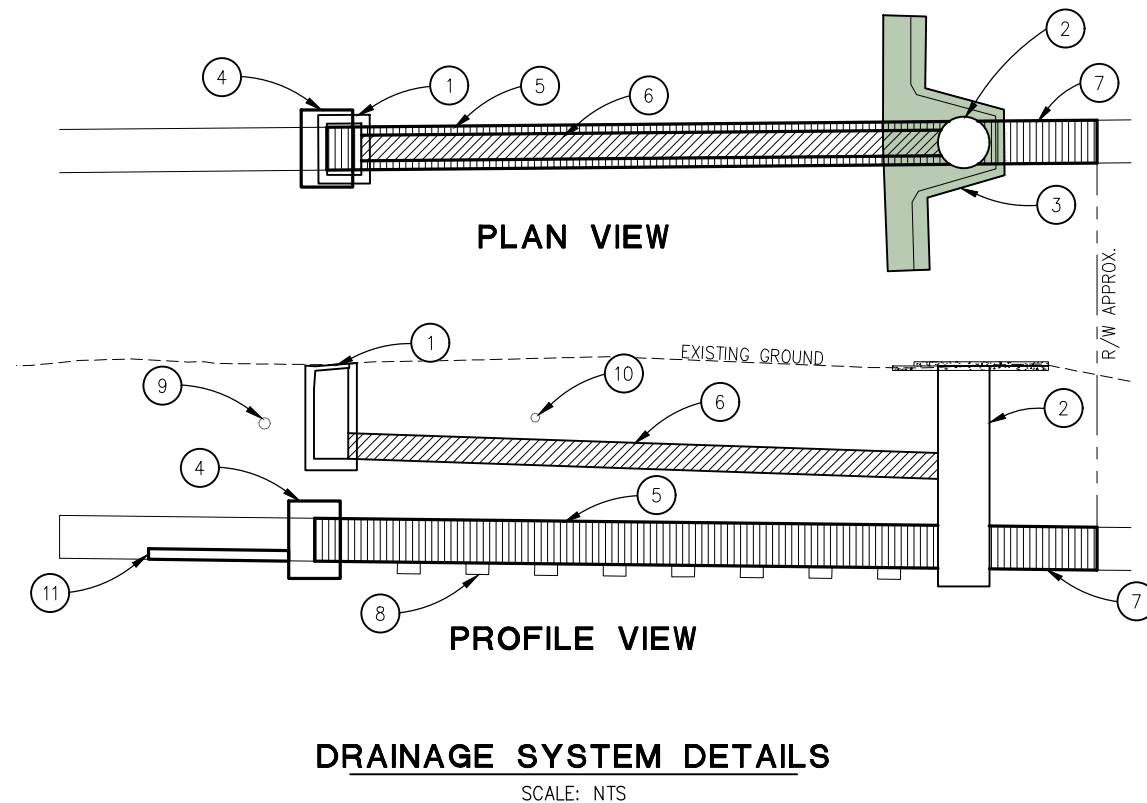
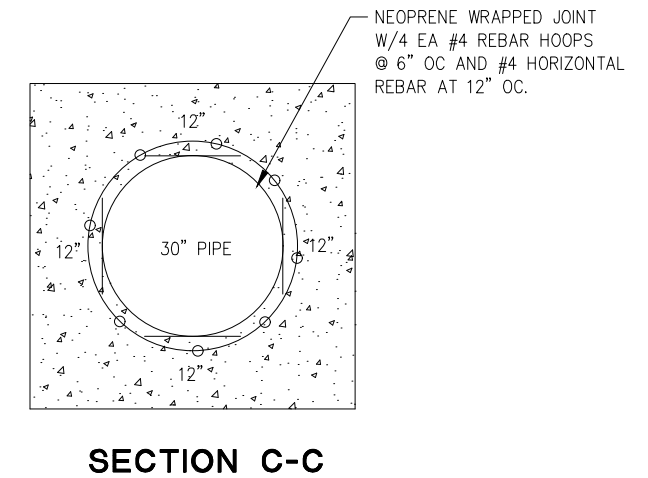
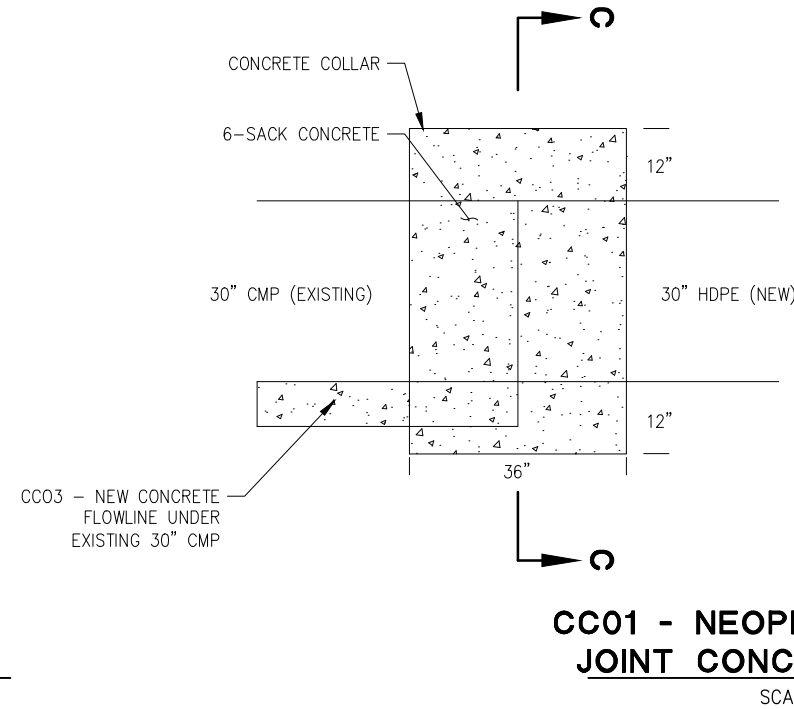
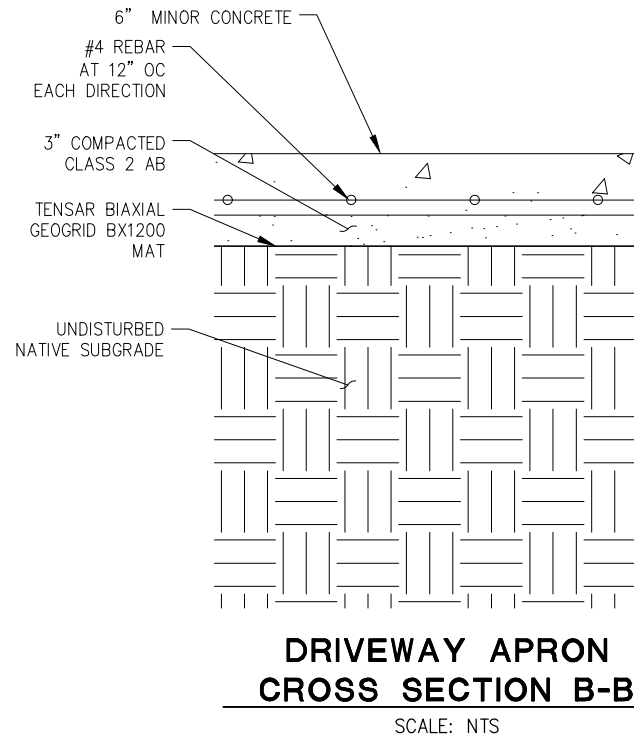
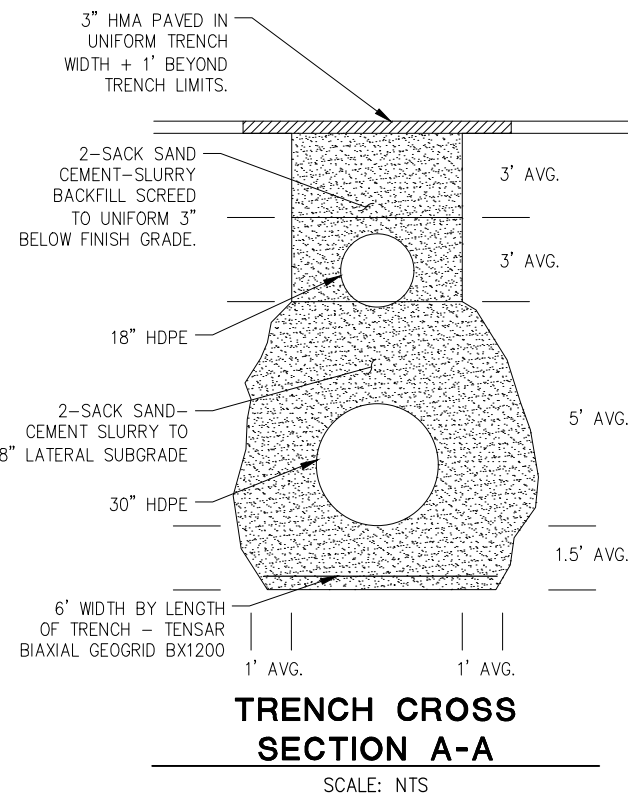
DESIGNED: BCF
 DRAWN: KIS
 CHECKED: BCF
 DATE: 3/13/2024
 ROAD NUMBER: 898



COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

PATTERSON DRIVE EMERGENCY
 CULVERT REPAIR PROJECT

SHEET
P&D
 3 OF 4
 CONTRACT No.
8597



CONSTRUCTION NOTES:

- 1 - CC01 - COMPLY WITH CT STANDARD PLAN D72B CIP OR D73B PRECAST G-1 REINFORCED INLET AND 24-12X TRAFFIC/BIKE/PEDESTRIAN RATED STEED GRATE (D77B) - MATCH BACK OF GRATE TO FLOWLINE GUTTER/DRIVEWAY LIP.
- 2 - CC01 - COMPLY WITH CT STANDARD PLAN D75B TYPE GCP WITH ADDED #4 REBAR @ 12" OC BOTH DIRECTIONS IN BASE. INSTALL STEP DETAIL PER D75C ON SIDE WITHOUT PIPE PENETRATION.
- 3 - CC01 - CONCRETE APRON BEHIND CURB AROUND OCP GRATE WITH 6" CURB SURROUND. TIE-IN TO EXISTING CURB AND GUTTER. CAST ON COMPETENT UNDISTURBED SUBGRADE OR 4" COMPACTED CLASS 2 AB AS DIRECTED BY ENGINEER.
- 4 - CC01 - NEOPRENE WRAPPED JOINT, REBAR, AND CIP CONCRETE COLLAR. SEE DETAIL THIS SHEET.
- 5 - NEW 36 LF 30" HDPE (TYPE S) WITH WATER TIGHT JOINTS.
- 6 - CC01 - NEW 33 LF 18" HDPE (TYPE S) WITH WATERTIGHT JOINTS.
- 7 - CC02 - NEW 30" HDPE (TYPE S) WITH WATER TIGHT JOINTS. EXTEND 8 LF TO R/W. MATCH EXISTING 0.15% SLOPE. COUPLE TO ADJACENT 30" HDPE PIPE REPLACEMENT BEYOND R/W (BY OTHERS).
- 8 - CC03 - 2'X8"X16" BRICK EVERY 4' OC (TYPICAL). LOW SLUMP 2 SACK SAND SLURRY BACKFILL FROM BOTTOM OF 1.5' OVER EXCAVATION UNDER 30" HDPE TO 18" HDPE SUBGRADE - THEN 2-SACK SAND-CEMENT SLURRY FROM BOTTOM OF 18" HDPE TO 3" BELOW HMA FINISH GRADE.
- 9 - EXISTING EID WATER LINE.
- 10 - EXISTING SEWER LINE. MAINTAIN 1' SEPARATION FROM BOTTOM OF SEWER LINE TO TOP OF 18" HDPE.
- 11 - CC03 - REMOVE SATURATED MATERIAL BELOW PIPE - CAST NEW PIPE FLOWLINE WITH 6-SACK CONCRETE REINFORCED WITH 6" WELDED WIRE MESH AS DIRECTED BY ENGINEER.

ORIGINAL SCALE IS IN INCHES
Drawing name: Z:\Civil 3D Projects\Patterson Drive Emergency Culvert Repair\CADD Files\AS-BUILT\AS-BUILT-L&D.dwg Layout Tab: CD May 29, 2024 - 9:21am KSubiyanto
FOR REDUCED PLANS



PREPARED UNDER THE SUPERVISION OF:
B. Frankland
REGISTERED CIVIL ENGINEER
DATE: MARCH 14, 2024

DESIGNED: BCF
DRAWN: KIS
CHECKED: BCF
DATE: 3/13/2024
ROAD NUMBER: 898



COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

PATTERSON DRIVE EMERGENCY
CULVERT REPAIR PROJECT

CONSTRUCTION DETAILS
SCALE : AS SHOWN

SHEET
CD
4 OF 4
CONTRACT No.
8597