

# A CITY OF SPARKS PROJECT

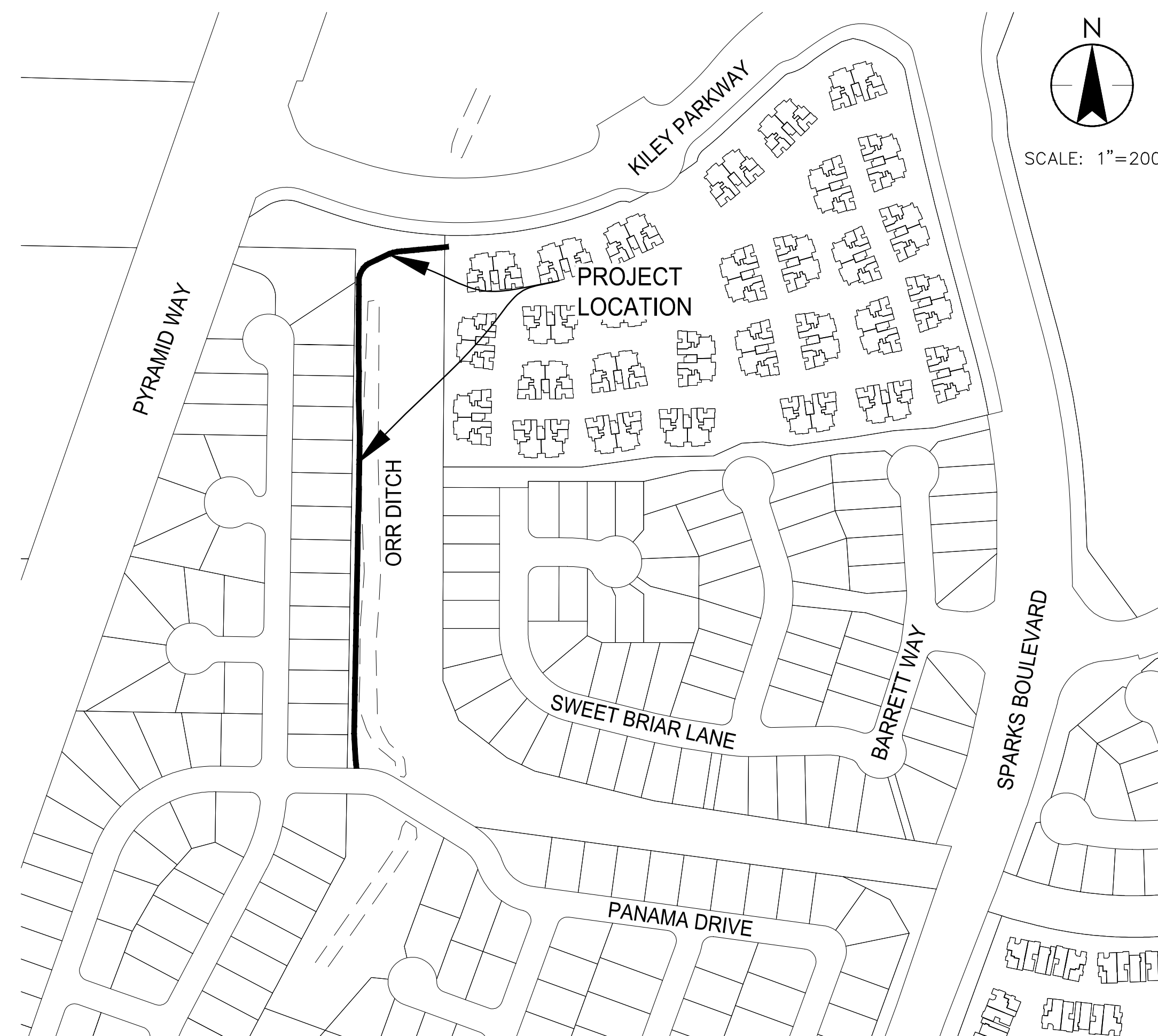
ISSUED FOR BID

## CITY OF SPARKS PROJECT BID NO. 22/23-003

### NEVADA PUBLIC WORKS PROJECT NO. WA-2023-030 TRAIL REPLACEMENT FROM KILEY PKWY TO PANAMA DR SPARKS, WASHOE COUNTY, NEVADA

#### CITY OF SPARKS

ED LAWSON	MAYOR
DONALD ABBOTT	COUNCIL MEMBER WARD 1
DIAN VANDERWELL	COUNCIL MEMBER WARD 2
PAUL ANDERSON	COUNCIL MEMBER WARD 3
CHARLENE BYBEE	COUNCIL MEMBER WARD 4
KRISTOPHER DAHIR	COUNCIL MEMBER WARD 5
NEIL KRUTZ	CITY MANAGER



#### APPROVALS:



*Jon R. Ericson*  
 JON R. ERICSON, P.E., P.T.O.E.  
 CITY ENGINEER

10/13/2022  
 DATE

*Amber Sosa*

AMBER SOSA, P.E., TRANSPORTATION MANAGER  
 PROJECT MANAGER

10/13/2022  
 DATE

#### PLANS PREPARED AND SUBMITTED BY:



4 OCTOBER 2022

*James R. Pringle*  
 JAMES R. PRINGLE, P.E.  
 PROJECT ENGINEER

4 October 2022  
 DATE

ENGINEER:



6995 Sierra Center Parkway  
 Reno, NV 89511  
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STANTEC PROJECT NO. 2073016010

C-0







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 2022/10/05 8:43 AM By: jrb@stntec.com

ORIGINAL SHEET - ANSI D



**LEGEND**

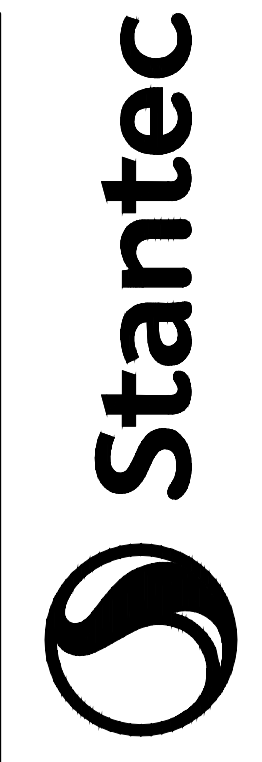
--- EXTENTS OF GRADING

■ PROPOSED CONCRETE PAVEMENT; SEE 1/DT-1

N

80 0 40 80 160

( IN FEET )  
 1 inch = 80 ft.  
 22"x34" FULL SIZE  
 11"x17" HALF SIZE



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Revision	By	Appr.	YY/MM/DD
1.	FOR BD	MC	22.10.04
		By	YY/MM/DD

Client/Project  
 CITY OF SPARKS  
 DEPARTMENT OF PUBLIC WORKS  
 TRAIL RECONSTRUCTION

Permit-Seal

Sparks, Nevada

**SITE PLAN AND KEY SHEET**



4 OCTOBER 2022

Project Number: 2073016010

File Name: 16010\_TRAIL\_C2.DWG

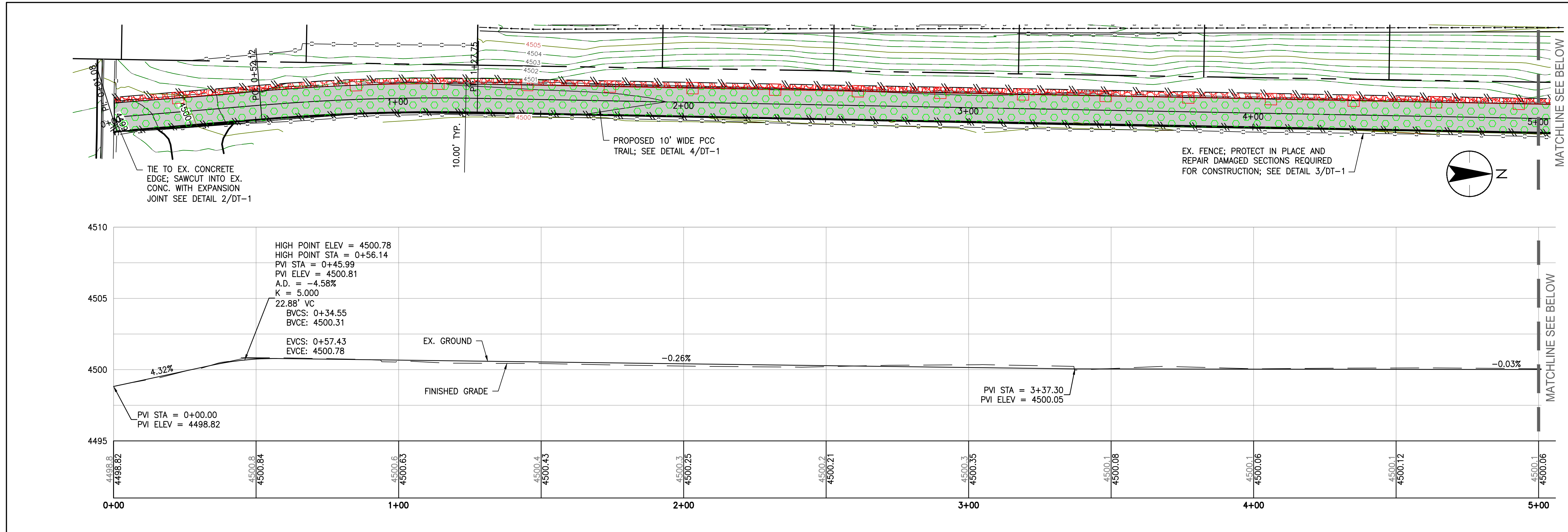
WPLZ	MLC	MLC	22.05.16
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Drawing No. C-2

Revision Sheet



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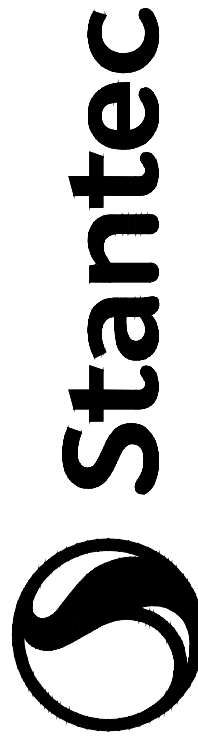
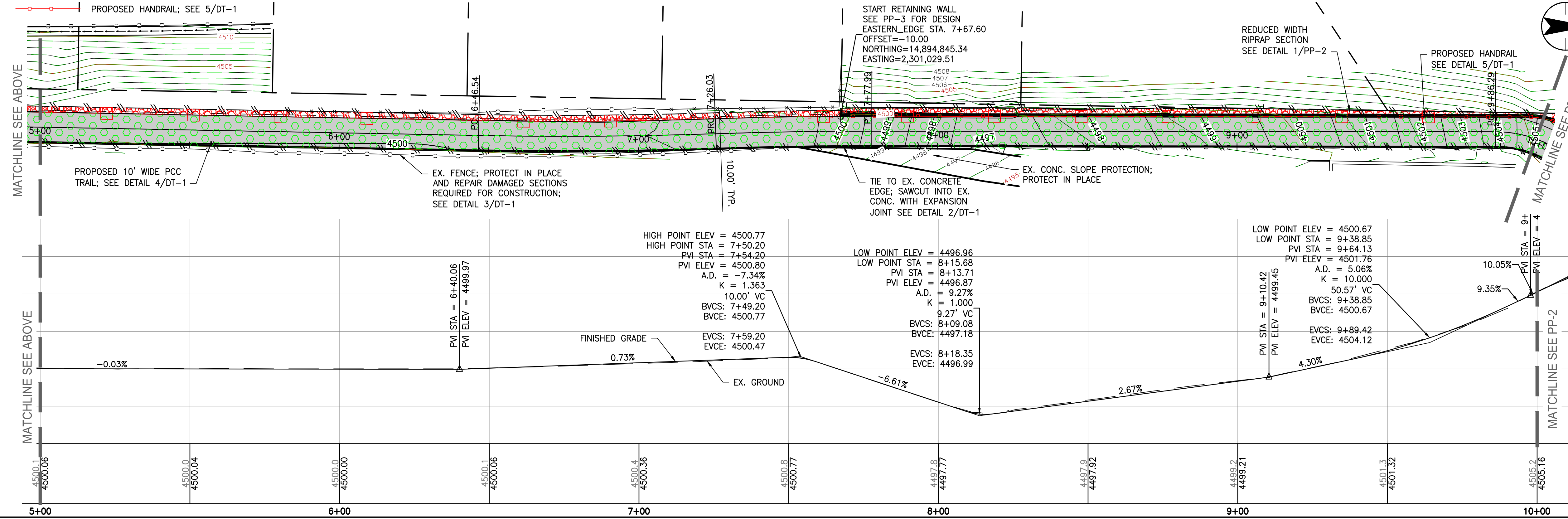
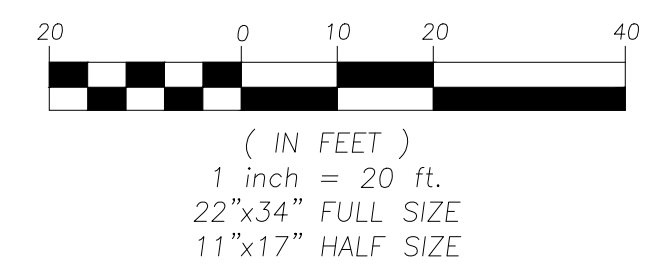


**LEGEND**

- EXISTING 1'/5' CONTOURS
- PROPOSED 1'/5' CONTOURS
- EXTENTS OF GRADING
- PROPERTY BOUNDARY/ROW
- EXISTING PAVER TRAIL TO BE REMOVED
- PROPOSED CONCRETE PAVEMENT; SEE 1/DT-1
- PROPOSED CLASS 150 RIPRAP
- PROPOSED HANDRAIL; SEE 5/DT-1

**NOTES**

1. EXPANSION JOINTS SHALL BE LOCATED AT ALL PCC PAVEMENT/EXISTING CONCRETE INTERFACES AND CONSTRUCTION COLD JOINTS.
2. PROPOSED PCC TRAIL TO BE ESTABLISHED OFF OF THE EASTERN EDGE OF THE EXISTING TRAIL.



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Revision	By	Appd.	Yr./MM/DD
1.	FOR BID	MC	22.10.04
		BY	YY/MM/DD
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		ISSUED	

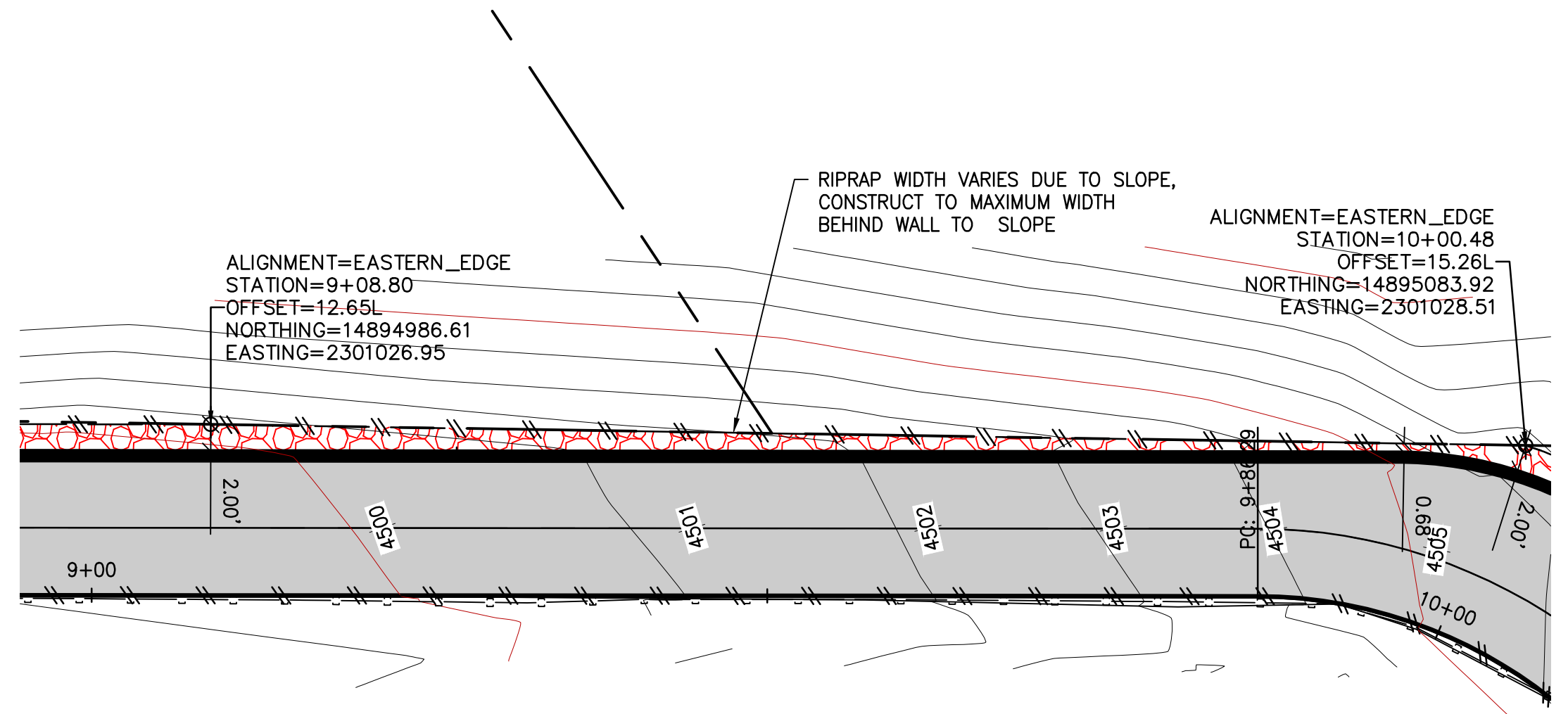
Client/Project  
CITY OF SPARKS  
DEPARTMENT OF PUBLIC WORKS  
TRAIL RECONSTRUCTION  
Permit Seal  
Sparks, Nevada  
PLAN AND PROFILE STA. 0+00 TO STA. 10+00

4 OCTOBER 2022  
Project Number: 2073016010  
File Name: 16010\_TRAIL\_PP.DWG

WPLZ	MLC	MLC	22.05.16
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Drawing No. PP-1  
Revision Sheet  
0 4 of 8





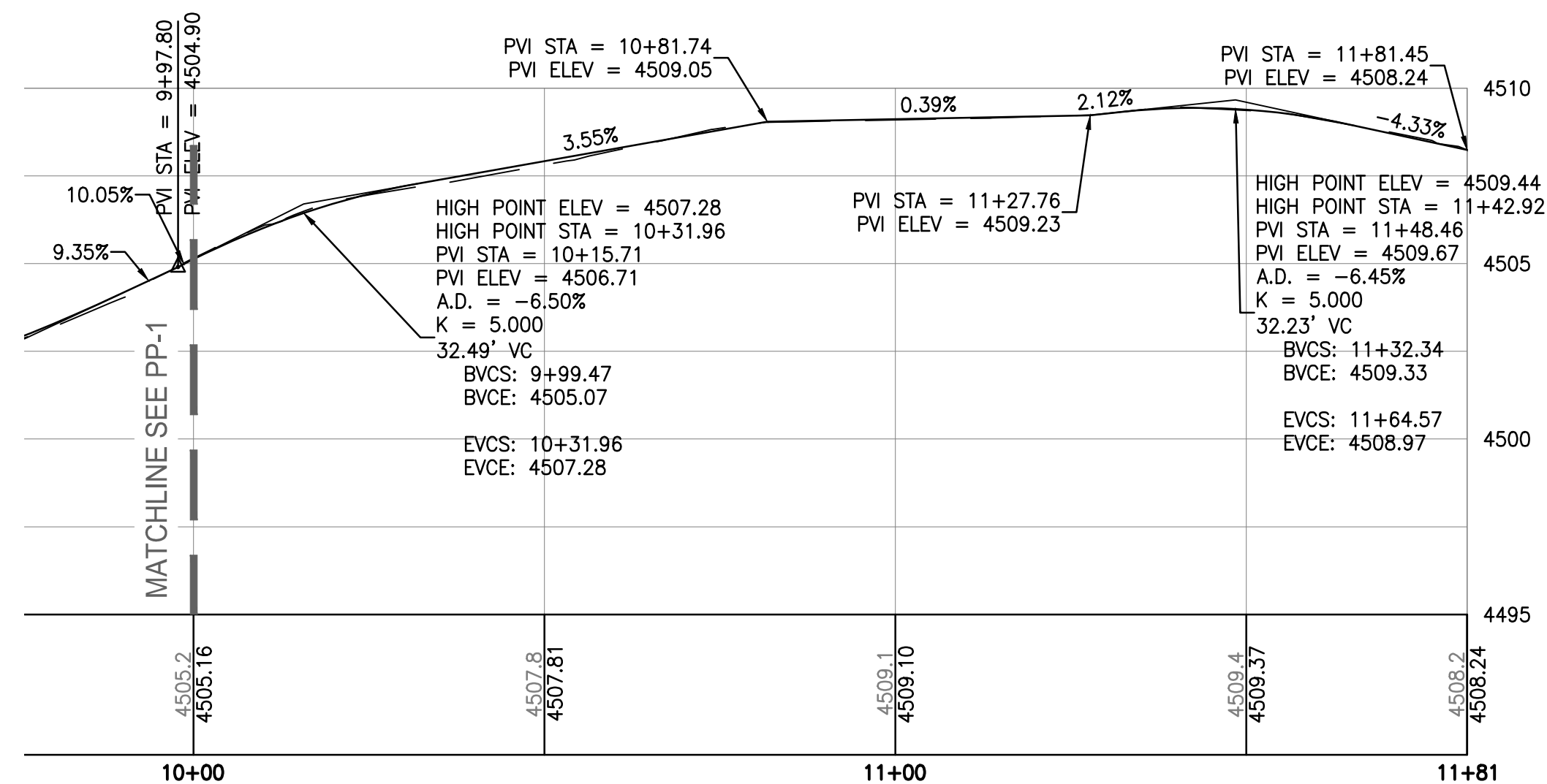
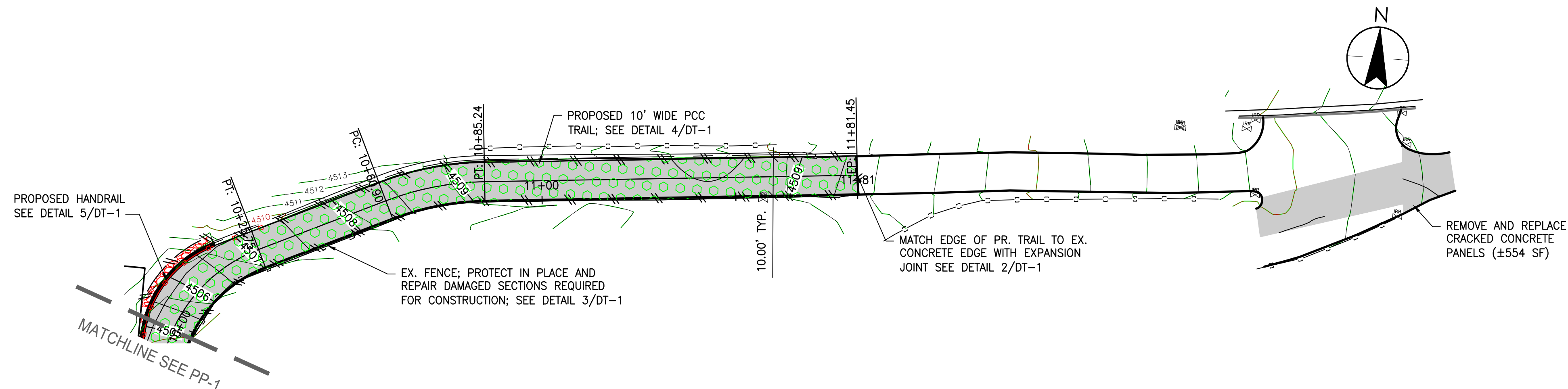
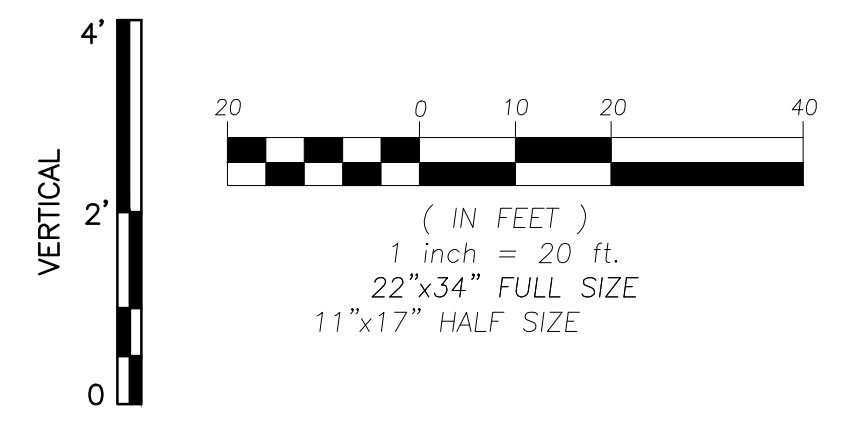
1 REDUCED RIPRAP WIDTH SECTION  
PP-2 STA: 9+08.80 TO STA: 10+00.48

**LEGEND**

- EXISTING 1'/5' CONTOURS
- PROPOSED 1'/5' CONTOURS
- EXTENTS OF GRADING
- PROPERTY BOUNDARY/ROW
- EXISTING PAVER TRAIL TO BE REMOVED
- PROPOSED CONCRETE PAVEMENT; SEE 1/DT-1
- PROPOSED CLASS 150 RIPRAP
- PROPOSED HANDRAIL; SEE 5/DT-1

**NOTES**

- EXPANSION JOINTS SHALL BE LOCATED AT ALL PCC PAVEMENT/EXISTING CONCRETE INTERFACES AND CONSTRUCTION COLD JOINTS.
- PROPOSED PCC TRAIL TO BE ESTABLISHED OFF OF THE EASTERN EDGE OF THE EXISTING TRAIL.
- REPAIR DAMAGED EDGES OF CONCRETE PANELS.



Revision

Revision	By	Appr.	Y/M/DD

Issued	By	Appr.	Y/M/DD
1.	FOR BID	MC	22.10.04
			YYMMDD

Client/Project  
CITY OF SPARKS  
DEPARTMENT OF PUBLIC WORKS  
TRAIL RECONSTRUCTION  
Sparks, Nevada  
PLAN AND PROFILE STA. 10+00 TO STA. 11+81



4 OCTOBER 2022  
Project Number: 2073016010  
File Name: 16010\_TRAIL\_PP.DWG

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Dwn	Chkd.	Dsgn.	22.05.16

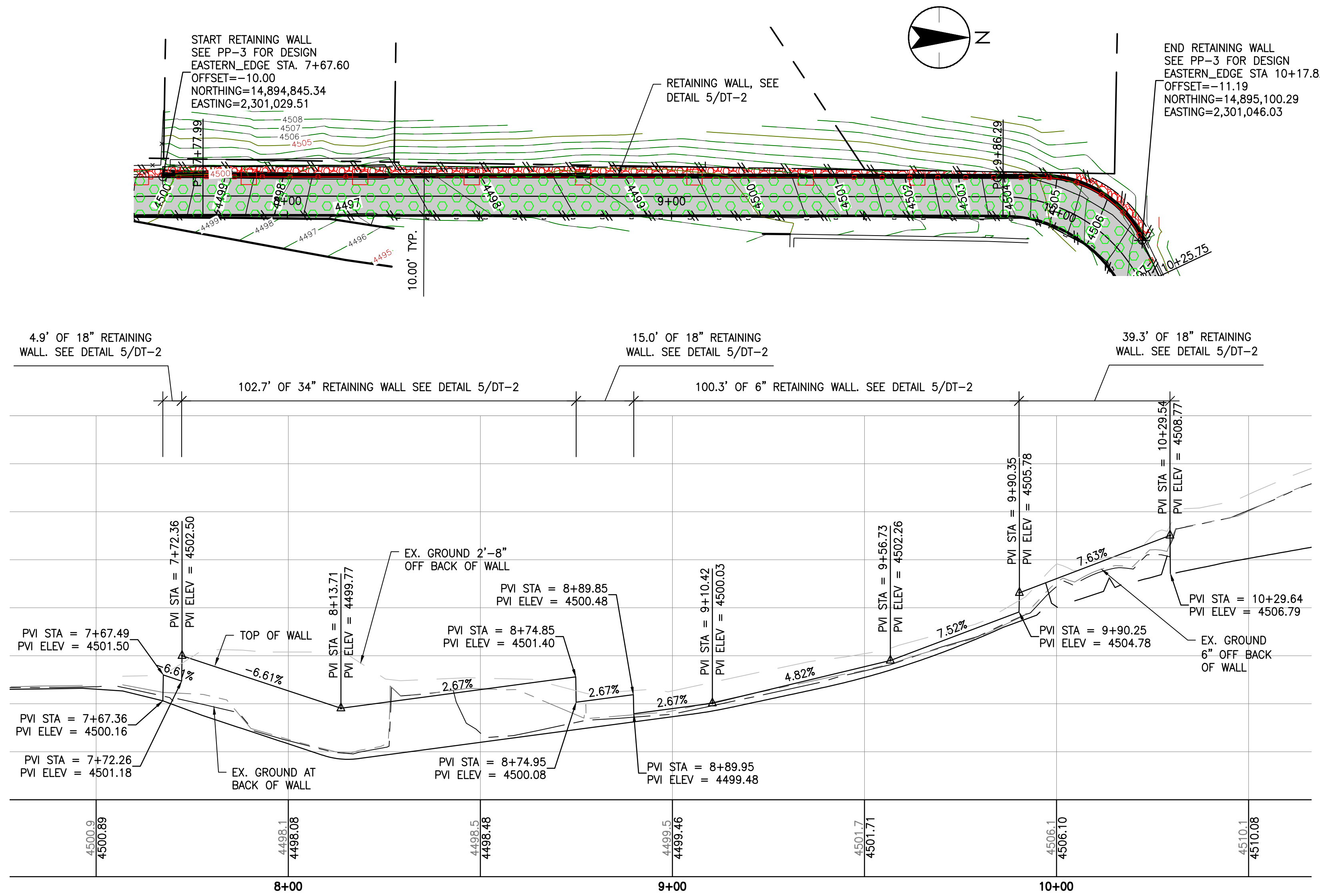
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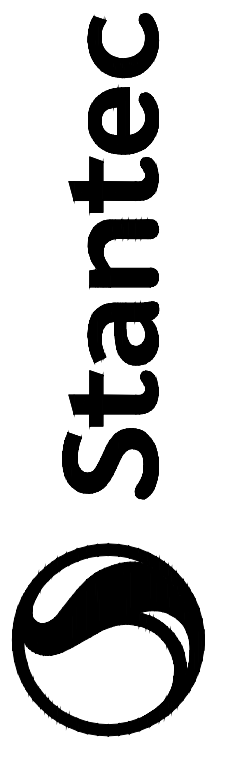
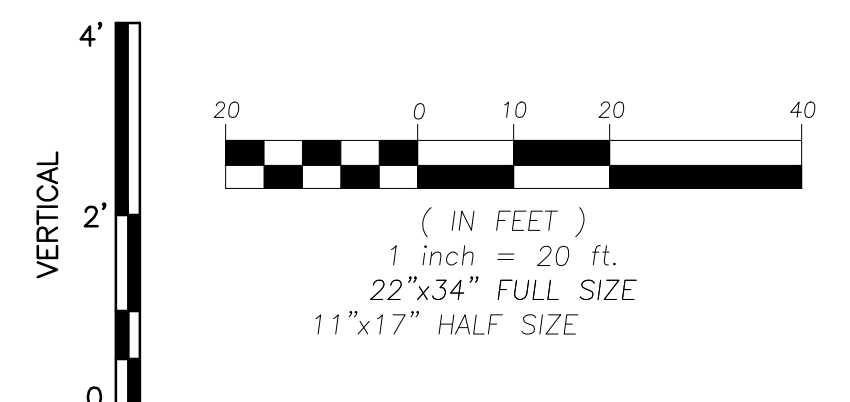
ORIGINAL SHEET - ANSI D



1 RETAINING WALL PLAN AND PROFILE  
 PP-3

- LEGEND**
- EXISTING 1'/5' CONTOURS
  - PROPOSED 1'/5' CONTOURS
  - EXTENTS OF GRADING
  - PROPERTY BOUNDARY/ROW
  - EXISTING PAVEMENT TRAIL TO BE REMOVED
  - PROPOSED CONCRETE PAVEMENT; SEE 1/DT-1
  - PROPOSED CLASS 150 RIPRAP
  - PROPOSED HANDRAIL; SEE 5/DT-1

- NOTES**
1. EXPANSION JOINTS SHALL BE LOCATED AT ALL PCC PAVEMENT/EXISTING CONCRETE INTERFACES AND CONSTRUCTION COLD JOINTS.
  2. PROPOSED PCC TRAIL TO BE ESTABLISHED OFF OF THE EASTERN EDGE OF THE EXISTING TRAIL.



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1.	FOR BID	FP	22.10.04
		BY	Yr./MM/DD

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 CITY OF SPARKS  
 DEPARTMENT OF PUBLIC WORKS  
 TRAIL RECONSTRUCTION

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Sparks, Nevada

PLAN AND PROFILE RETAINING WALL

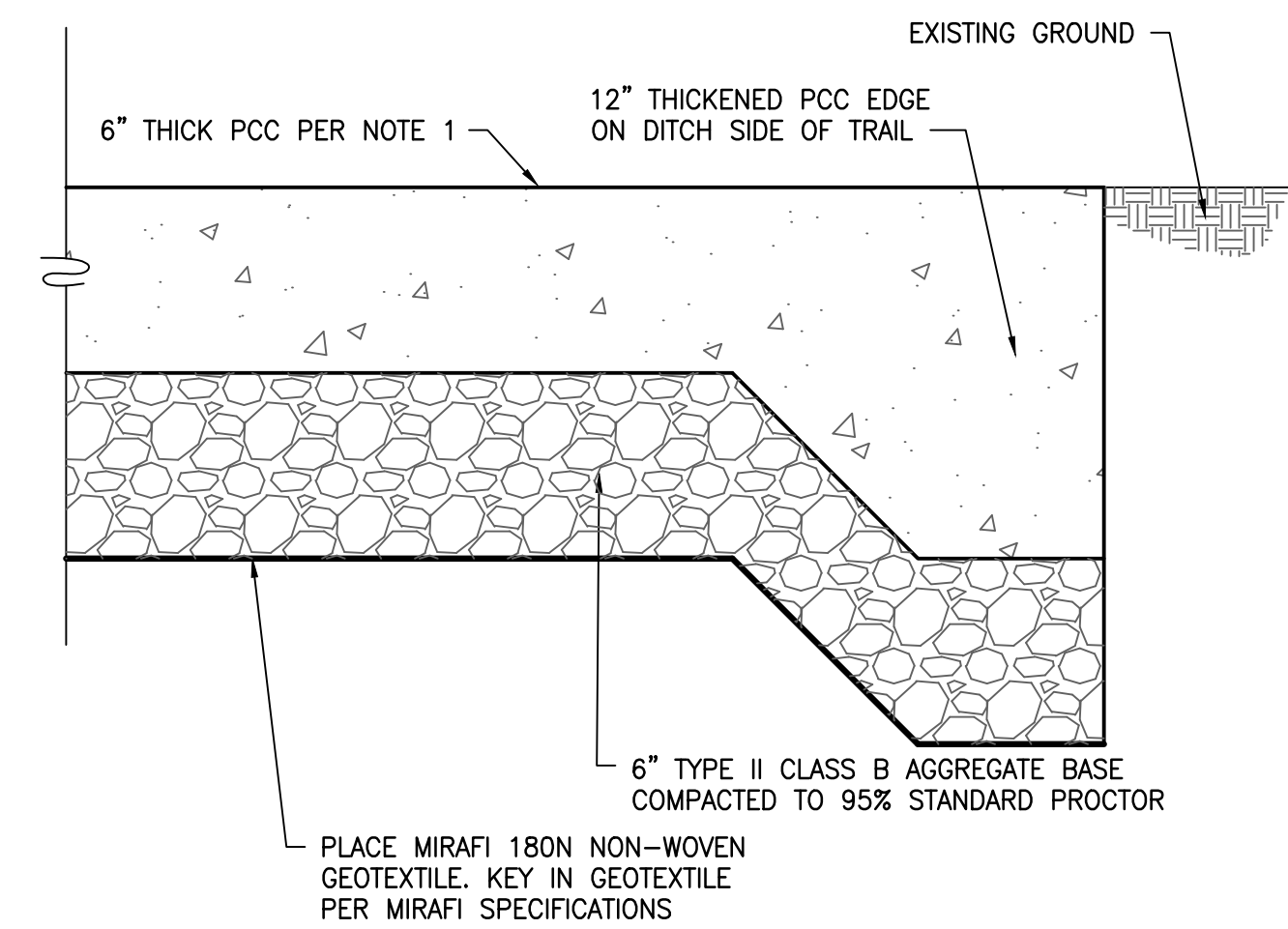


4 OCTOBER 2022  
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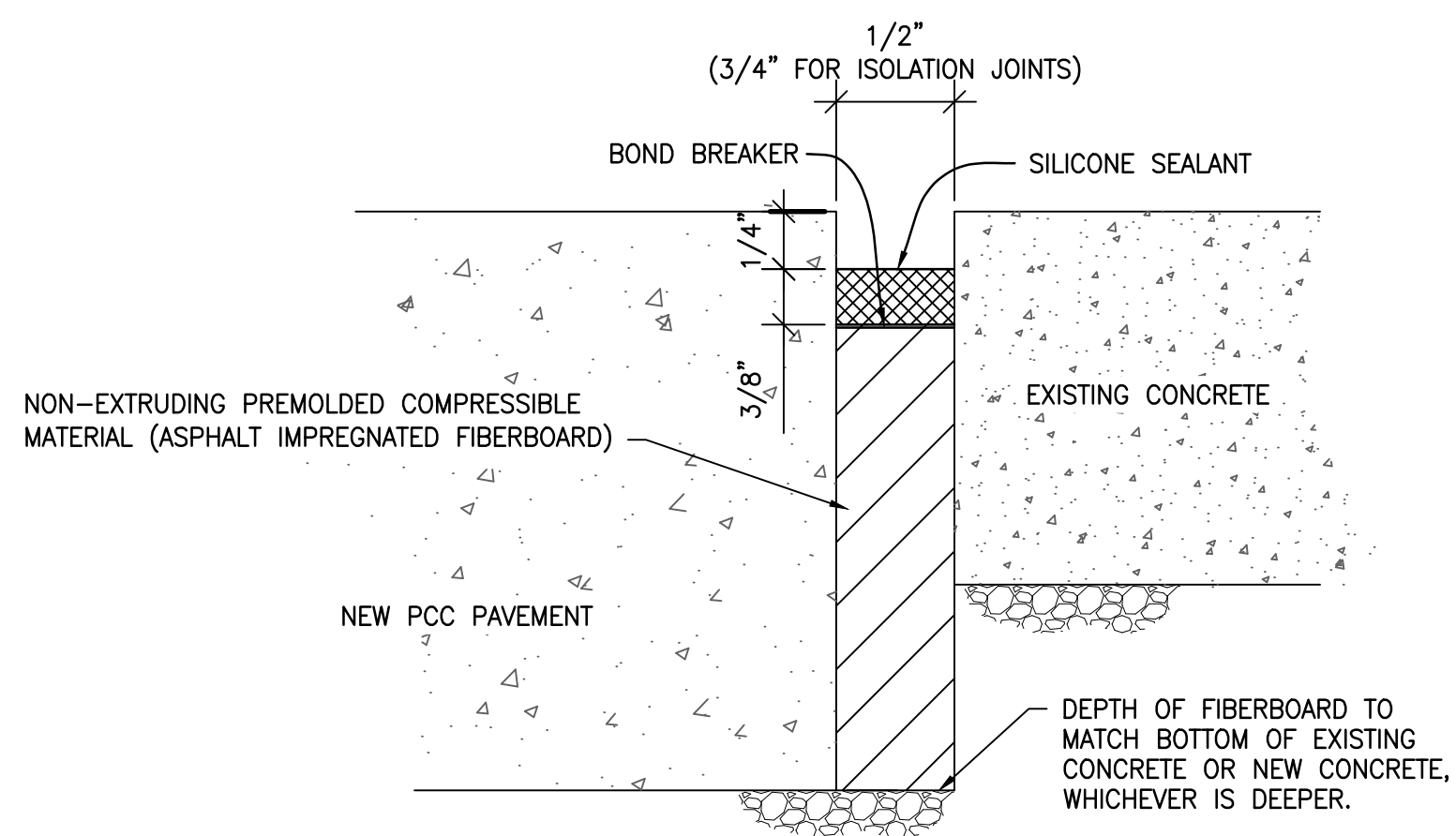
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 Revision Sheet





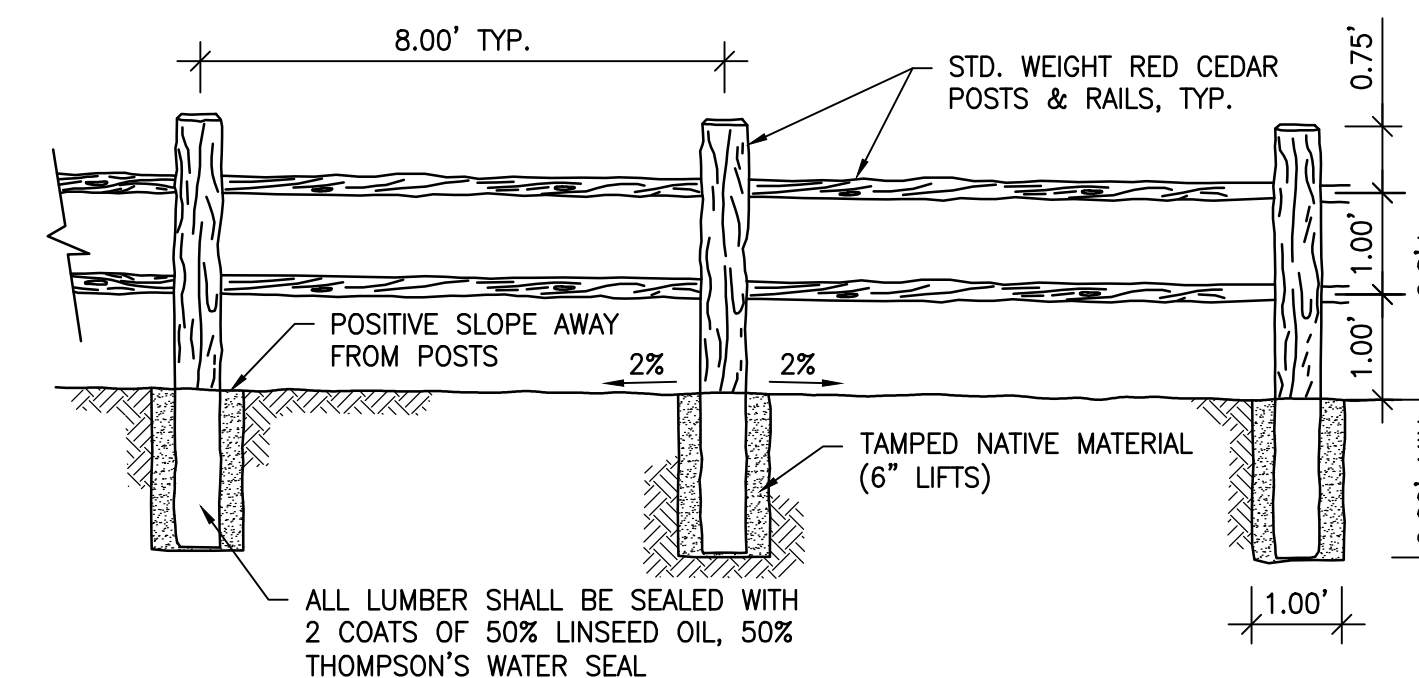
NOTE:  
 1. FIBER-REINFORCED PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH AT 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH MAX. WATER-CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES. MIX DESIGN SHALL CONFORM TO THE REQUIREMENTS OF SECTION 337 OF STANDARD SPECIFICATIONS OF PUBLIC WORKS CONSTRUCTIONS (SSPW). CEMENT SHALL BE TYPE II, A COARSE AGGREGATE GRADATION CONFORMING TO SIZE NO. 67 TUF STRAND FIBER REINFORCEMENT, AT 5-6 POUNDS PER CUBIC YARD OF CONCRETE, SHALL BE ADDED TO THE P.C.C. ALL MATERIALS SHALL CONFORM TO SSPWC.

1 TYPICAL CONCRETE SECTION  
DT-1 NTS

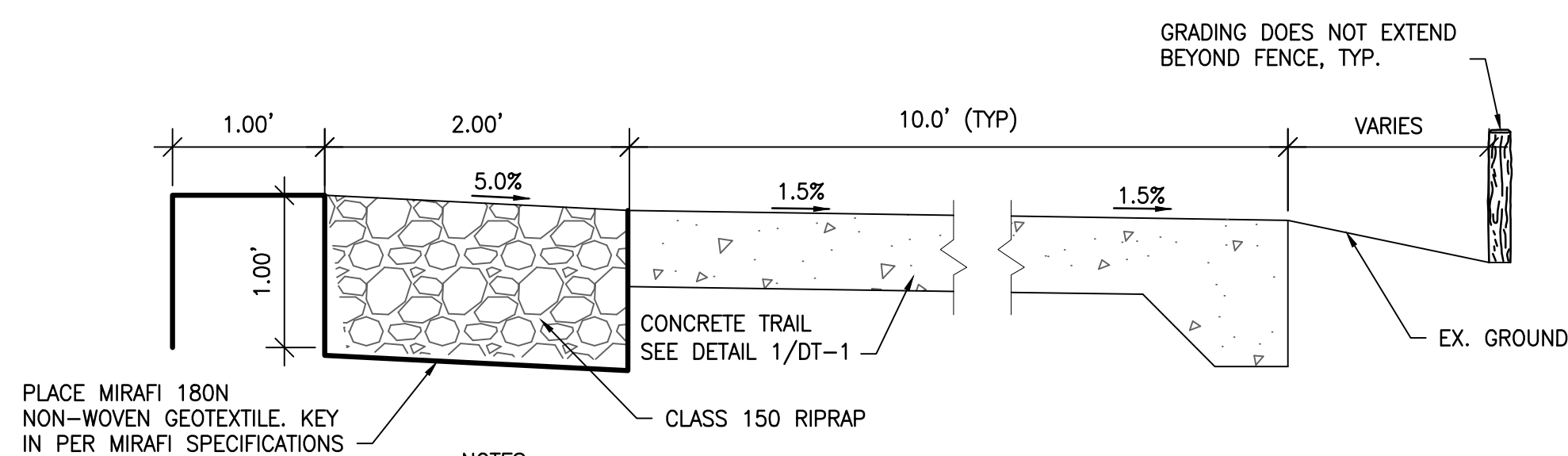


NOTES:  
 1. EXPANSION JOINTS AS SHOWN ON THE PLANS SHALL CONSIST OF A 1/2 INCH PREMOLDED EXPANSION JOINT WITH WHITE CAP OR BACKER ROD AND CAULK. THE PREMOLDED EXPANSION JOINT MATERIAL IS AN ASPHALT COATED FIBER EXPANSION JOINT, THE WHITE CAP/BACKER IS A CLOSED BACKER ROD AND CAULK. WITHIN ROADWAY, THE CAULK SHALL BE A DOW CORNING 880 - SL SELF LEVELING SILICONE JOINT SEALANT, INCRETE SYSTEMS POWDER COLOR DARK GRAY (4 LBS PER SACK) - MATCH FRENCH GRAY, OR APPROVED EQUAL.

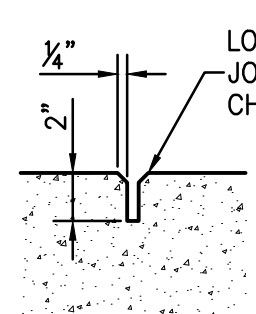
2 EXPANSION JOINT DETAIL  
DT-1 NTS



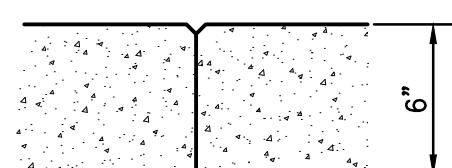
3 SPLIT RAIL FENCE DETAIL  
DT-1 NTS



NOTES:  
 1. JOINTING PATTERN SHALL BE 5'x5' PANELS WITH CENTERLINE JOINT. SEE DETAIL A FOR CONTROL JOINTS AND DETAIL B FOR CONSTRUCTION JOINTS.  
 2. ALL ADJACENT CONCRETE REMOVAL SHALL BE TO NEAT SAW CUT LINES AT RIGHT ANGLES TO NEW CONCRETE.  
 3. JOINTS TO BE CUT AT A MINIMUM OF 4 HOURS TO A MAXIMUM OF 12 HOURS AFTER THE CONCLUSION OF BRUSH FINISHING.  
 4. SEE DETAIL 2/DT-1 FOR EXPANSION JOINT DETAIL.  
 5. FULLY WRAP POLES WITH MINIMUM 1/2" FLEXIBLE EXPANSION JOINT.  
 6. CONCRETE REMOVAL SHALL BE TO AN EXISTING JOINT. PANELS SHALL BE FULL DEPTH SAWCUT TO PROVIDE A CLEAN EDGE PRIOR TO REPLACING P.C.C. ALLEY.

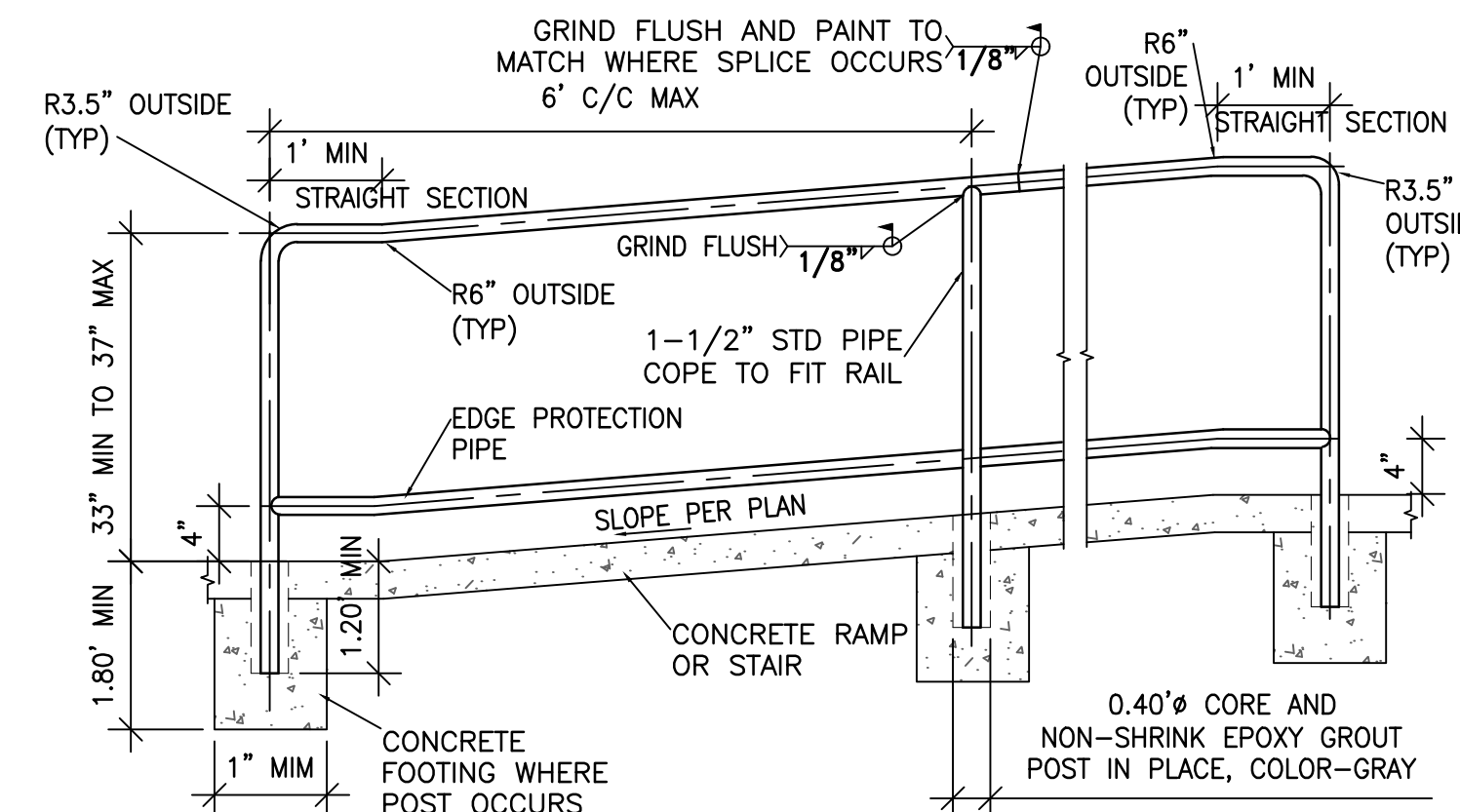


DETAIL A (CONTROL JOINT)



DETAIL B (CONSTRUCTION JOINT)

4 TYPICAL TRAIL SECTION  
DT-1 NTS



PIPE HANDRAIL NOTES:  
 1. ALL PIPE HANDRAILS TO BE 1 1/2" STANDARD PIPE.  
 2. TOP OF HANDRAILS TO BE 34" MIN AND 38" MAX ABOVE RAMPS, WALKS AND STAIRS.  
 3. ALL INSIDE VERTICAL AND HORIZONTAL BENDS SHALL BE 2" RADIUS.  
 4. SPACE POSTS EQUALLY, 6' MAXIMUM SPAN, ADD MID-POSTS AS NEEDED.  
 5. EDGE PROTECTION PIPE SHALL NOT BE PROVIDED WHERE PIPE HANDRAIL IS PLACED ON 4" CURB OR IS ADJACENT TO WALL ABOVE RAMP.  
 6. PROVIDE 1" MIN. STRAIGHT HANDRAIL SECTION AT TOP & BOTTOM OF RAMPS AND STAIRS.

5 HANDRAIL DETAIL  
DT-1 NTS

Revision	By	Appd.	Y1.MM.DD
1.	FOR BID	MC	22.10.04
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		By	YY.MM.DD
		Appd.	YY.MM.DD



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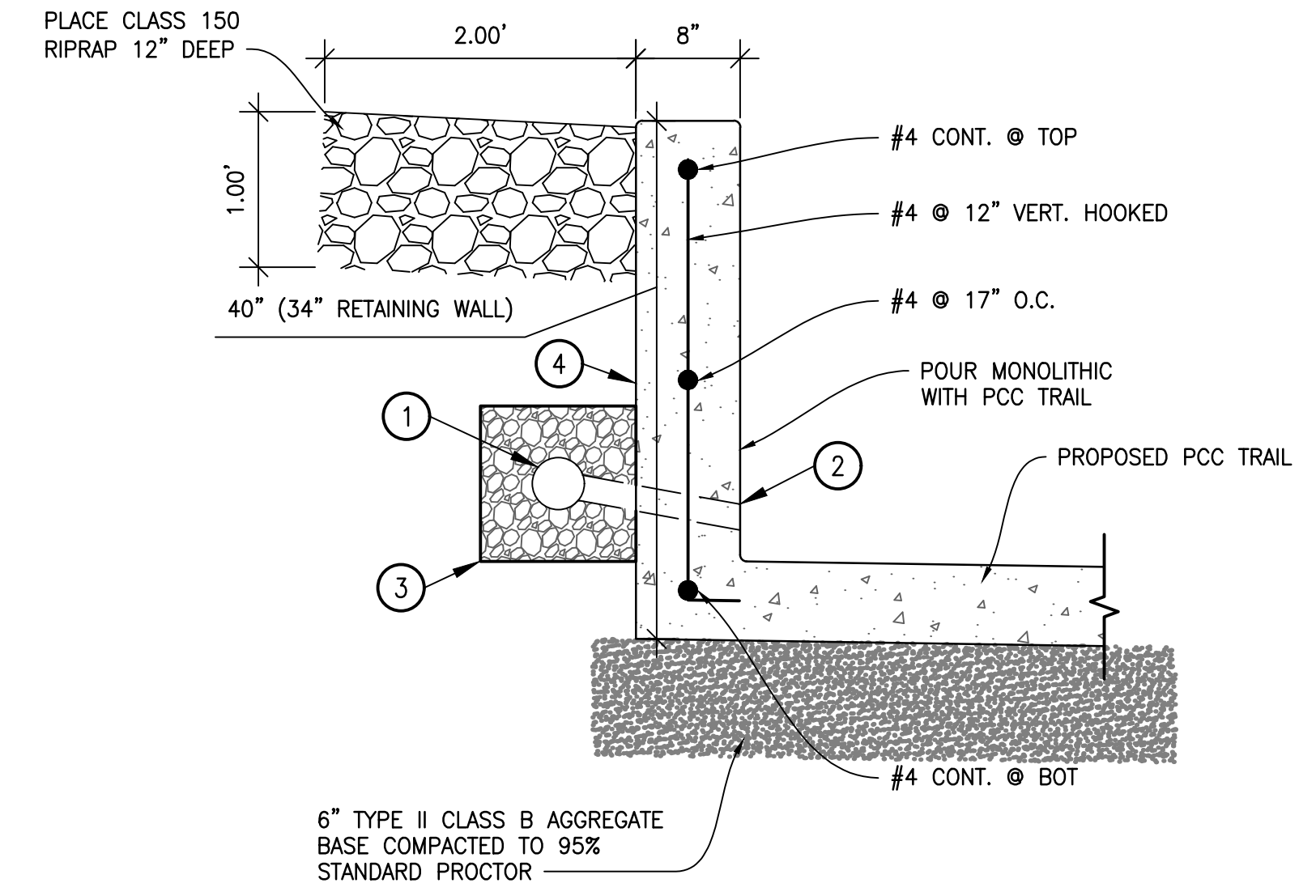
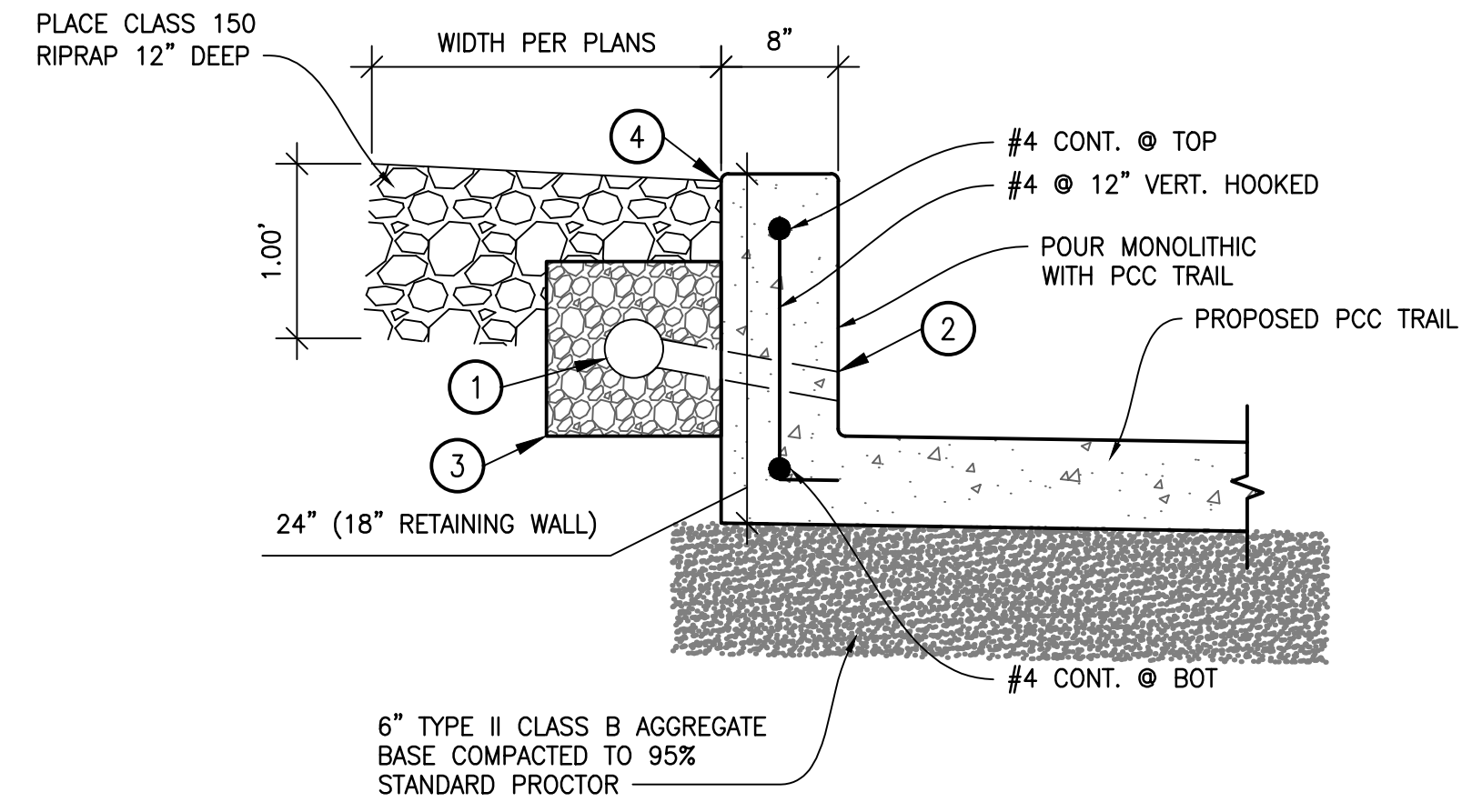
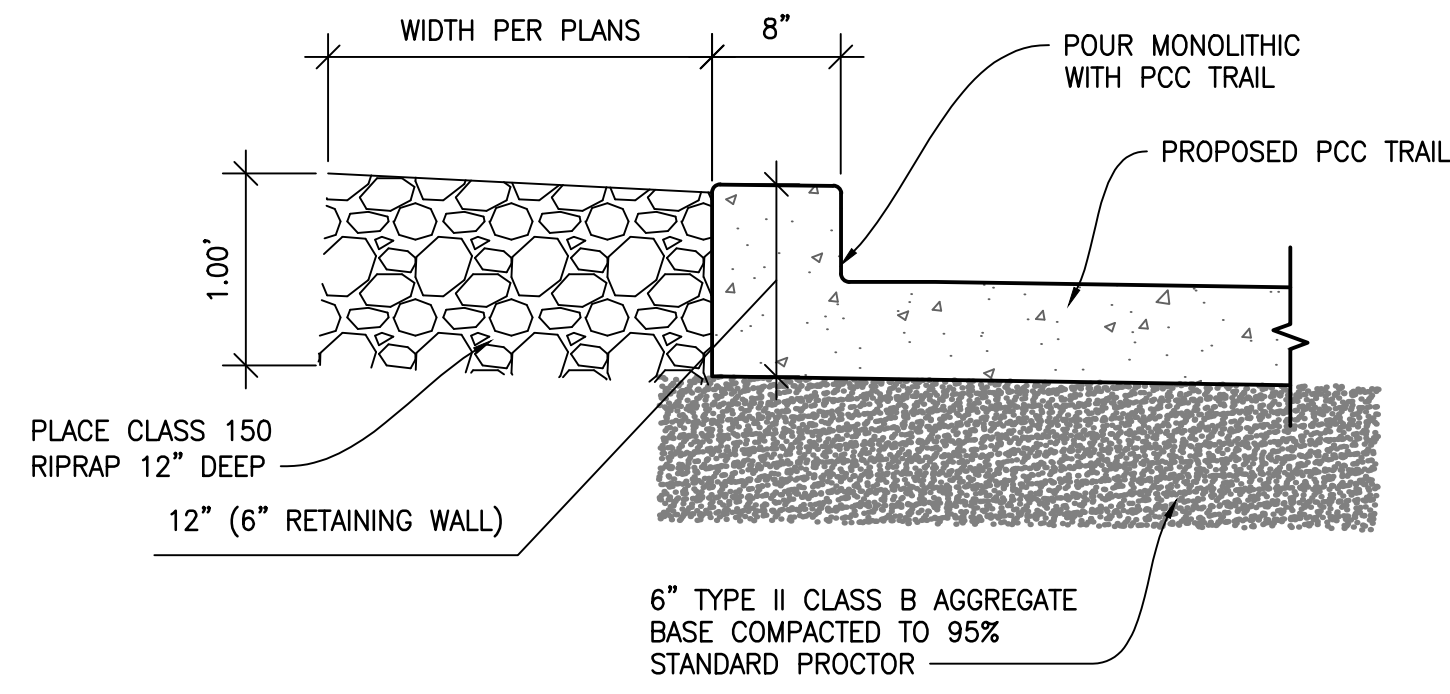
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Dwn	Chkcd	Dsgn	YYMMDD

Drawing No. DT-1  
 Revision Sheet



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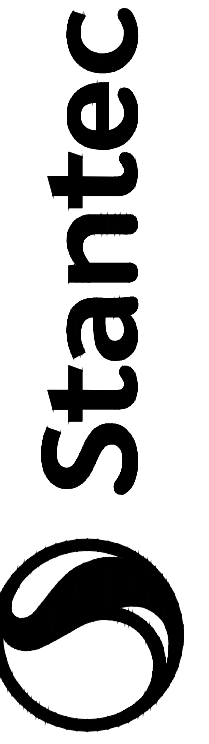
ORIGINAL SHEET - ANSI D



**5** RETAINING WALL DETAIL  
DT-2 NTS

**CONSTRUCTION NOTES:**

- ① CONSTRUCT CONTINUOUS 4-INCH PERFORATED PIPE AND DRAIN TO DAYLIGHT.
- ② CONSTRUCT 2-INCH WEEP HOLE DRAINS AT MAXIMUM 20- FEET ON CENTER. INVERT OUT = 0.2' ABOVE SIDEWALK FINISHED GRADE.
- ③ CONSTRUCT MINIMUM 12"x12"x12" FILTER FABRIC WRAPPED DRAIN ROCK AT BACK OF WALL. BOTTOM OF DRAIN ROCK TO MATCH FINISHED GRADE OF NEW SIDEWALK.
- ④ CONSTRUCT MIRADRAIN 6000 COMPOSITE OVER CLEAR WATER REPELLANT. WATER REPELLANT SHALL BE CONTINUOUS AT RETAINED SOIL. TERMINATE MIRADRAIN 12" BELOW FINISH GRADE ON RETAINED SIDE.



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CITY OF SPARKS  
DEPARTMENT OF PUBLIC WORKS  
TRAIL RECONSTRUCTION

Permit-Seal



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Drawing No. DT-2

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8 of 8

Sparks, Nevada  
RETAINING WALL DETAILS