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CITY OF SPARKS

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



APPROVALS:



10/13/2022 DATE

10/13/2022

DATE

PLANS PREPARED AND SUBMITTED BY:



JAMES R. PRINGLE, P.E. PROJECT ENGINEER

4 October 2022

DATE

ENGINEER:

Reno, NV 89511 www.stantec.com





GENERAL NOTES

- 1. LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THE PLANS ARE APPROXIMATE, AND WERE NOT DETERMINED BY FIELD INVESTIGATION. EXISTING UTILITIES ARE SHOWN BASED UPON AVAILABLE RECORD DRAWINGS. ALL UNDERGROUND UTILITIES MAY NOT BE SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITY STRUCTURES, WHETHER SHOWN OR NOT, AND TO NOTIFY ALL UTILITY COMPANIES TO VERIFY IN THE FIELD THE LOCATION OF THEIR INSTALLATIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PROTECT ALL UTILITY STRUCTURES FROM DAMAGE. THE EXPENSE OF REPAIR OR REPLACEMENT SHALL BE BORNE SOLELY BY THE CONTRACTOR. THE CONTRACTOR SHALL REQUEST FIELD MARKING OF EXISTING UTILITIES AT LEAST 48 HOURS IN ADVANCE OF BEGINNING CONSTRUCTION BY CALLING UNDERGROUND SERVICE ALERT AT 811. IT WILL BE THE CONTRACTORS RESPONSIBILITY TO MAINTAIN AND PROTECT ALL UTILITIES DURING CONSTRUCTION.
- 2. TOPOGRAPHIC INFORMATION CONTAINED WITHIN THESE CONSTRUCTION DOCUMENTS WAS PREPARED BY CONVENTIONAL FIELD TOPOGRAPHIC SURVEYS.

THE BASIS OF BEARING IS NEVADA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD 83 (94 HARN) UTILIZING A COMBINED GRID TO GROUND FACTOR OF 1.000197939. BASIS OF BEARINGS FROM TIES TO CENTERLINE MONUMENTS WITHIN TRACT MAP 5173, THE AMENDED PLAT OF KILEY RANCH NORTH VILLAGE 40, RECORDED IN THE OFFICE OF THE WASHOE COUNTY RECORDER ON JULY 28, 2016 AS FILE NO. 4614781.

THE BASIS OF ELEVATIONS IS CITY OF SPARKS BENCHMARK NO. 131 BEING A RIVET AND 2-INCH ALUMINUM WASHER IN THE TOP OF CURB APPROXIMATELY 21 FEET SOUTH OF THE SOUTHERLY RETURN OF THE INTERSECTION OF SPARKS BOULEVARD AND NIGHT LATCH DRIVE. ELEVATION TAKEN AS 4469.79' (NAVD88).

- 3. WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE EXECUTED TO COMPLETION WITHOUT DELAY SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC. THE CONSTRUCTION OF THE STREET IMPROVEMENTS SHALL ALLOW FOR THE PERPETUATION OF ALL EXISTING LEGAL ACCESSES AND EXISTING DRIVEWAYS, UNLESS OTHERWISE NOTED.
- 4. THE CONTRACTOR SHALL COOPERATE WITH OTHER CONTRACTORS OR UTILITY COMPANY FORCES WORKING ON THE SITE, AND WITH BUSINESS OWNERS ACTIVE OPERATIONS.
- 5. ALL SURFACES SHALL BE RESTORED TO THEIR ORIGINAL OR BETTER CONDITION AT THE COMPLETION OF CONSTRUCTION. EXISTING CONCRETE SUCH AS SIDEWALK, CURB, AND GUTTER SHALL BE REMOVED TO LIMITS MARKED IN FIELD BY THE ENGINEER. ALL REMOVAL MATERIALS SHALL BE DISPOSED OF OFF SITE AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN WORKING ON PRIVATE PROPERTY.
- 6. AT LOCATIONS WHERE NEW UNDERGROUND FACILITIES CROSS EXISTING FACILITIES THE CONTRACTOR SHALL EXPOSE THE EXISTING FACILITY AND VERIFY THAT SUFFICIENT HORIZONTAL AND VERTICAL CLEARANCE EXISTS FOR THE NEW FACILITY TO BE CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE PLANS. AT LOCATIONS WHERE NEW UNDERGROUND FACILITIES ARE TO BE CONNECTED TO EXISTING FACILITIES THE CONTRACTOR SHALL EXPOSE THE EXISTING FACILITY AND VERIFY THAT THE CONNECTION CAN BE MADE AS SHOWN ON THE PLANS. THIS VERIFICATION SHALL BE PERFORMED PRIOR TO ANY CONSTRUCTION. ANY CONFLICTS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION AS SOON AS THEY ARE DISCOVERED.
- 7. ALL DIMENSIONS TO CURBS OR CURB AND GUTTERS ARE TO THE FRONT FACE OF CURB UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- 8. EXISTING DRAINAGE FACILITIES, OR INTERIM ENGINEER APPROVED ALTERNATIVES, SHALL BE KEPT IN SERVICE AT ALL TIMES DURING CONSTRUCTION.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING ROADS, BUILDINGS OR OTHER STRUCTURES RESULTING FROM HIS CONSTRUCTION ACTIVITIES. REPAIRS SHALL BE MADE TO THE SATISFACTION OF THE CITY OF SPARKS, THE PROPERTY OWNERS, AND THE ENGINEER AT NO ADDITIONAL COST.
- 10. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF DISCREPANCIES BETWEEN THE INFORMATION SHOWN ON THESE DRAWINGS AND THE CONDITIONS EXISTING IN THE FIELD. THE CONTRACTOR SHALL COMPARE ALL DRAWINGS AND VERIFY THE FIGURES BEFORE STARTING THE WORK AND WILL BE RESPONSIBLE FOR ANY ERRORS WHICH MIGHT HAVE BEEN AVOIDED THEREBY. IF THE CONTRACTOR FAILS TO NOTIFY THE OWNER OR THEIR REPRESENTATIVE IN A TIMELY MANNER OF ANY APPARENT ERROR OR OMISSION ON THE PLANS OR SPECIFICATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING WORK INCORRECTLY DONE AT THE CONTRACTOR'S EXPENSE.
- 11. THE USE OF POTABLE WATER FROM THE PUBLIC WATER SYSTEM FOR CONSTRUCTION PURPOSES IS PROHIBITED. CONSTRUCTION WATER USED FOR COMPACTION AND DUST CONTROL SHALL BE OBTAINED FROM THE RENO-SPARKS SEWAGE TREATMENT PLANT AT 8500 CLEAN WATER WAY, RENO NEVADA, TMWA'S TRUCK FILL STATIONS. OR ANOTHER APPROVED SOURCE.
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL MANHOLE RIMS AND ANY EXISTING UTILITY COVERS WITHIN THE CONSTRUCTION LIMITS ARE SET FLUSH WITH THE NEW FINISH GRADE.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING STAGING AREA LOCATIONS. CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL PRIOR TO USING A STAGING AREA. THE CONTRACTOR SHALL OBTAIN ANY PERMITS FROM THE CITY OF SPARKS THAT ARE REQUIRED FOR STOCKPILING/PROCESSING MATERIALS.
- 14. PAYMENT FOR WORK SHOWN ON THESE PLANS EITHER SPECIFIED OR INFERRED, BUT NOT INCLUDED IN THE BID PROPOSAL, SHALL BE CONSIDERED AS INCLUDED IN THE PRICE PAID FOR OTHER ITEMS OF WORK.
- 15. DURING THE ENTIRE DURATION OF THIS CONSTRUCTION CONTRACT, THE CONTRACTOR SHALL IMPLEMENT STRINGENT DUST CONTROL MEASURES IN ACCORDANCE WITH THE TERMS OF THE APPROVED DUST CONTROL PERMIT AND WASHOE COUNTY HEALTH DEPARTMENT RULES AND REGULATIONS. THE CONTRACTOR IS REQUIRED TO SUPPRESS DUST AT ALL TIMES, 24 HOURS A DAY, SEVEN (7) DAYS A WEEK, REGARDLESS OF WHEN CONSTRUCTION ACTIVITIES ARE OCCURRING.
- 16. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRS TO EXISTING LANDSCAPING DAMAGED BY OR THROUGH CONSTRUCTION ACTIVITIES. REPAIRS SHALL BE MADE TO THE SATISFACTION OF THE ENGINEER AND OWNER. THERE WILL BE NO DIRECT PAYMENT FOR THIS WORK.
- 17. CITY OF SPARKS STANDARD DETAILS SHALL APPLY EXCEPT WHERE OTHERWISE NOTED ON THE PLANS.
- 18. BEFORE ANY WORK IS STARTED IN THE STREET RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ADVANCED WARNING SIGNS FOR THE CONSTRUCTION ZONE. ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "NEVADA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION" — CURRENT EDITION AND TO THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" - CURRENT EDITION AND BE APPROVED BY THE CITY OF SPARKS.
- 19. PROTECTION AND REPLACEMENT OF ALL SURVEY MONUMENTS OR PROPERTY STAKES NOT DELINEATED ON THE CONTRACT DRAWINGS SHALL BE THE CONTRACTOR'S RESPONSIBILITY. DAMAGED OR REMOVED MONUMENTS AND/OR PROPERTY STAKES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 20. ALL MATERIALS AND CONSTRUCTIONS SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2012, SSWPC, REVISION 8.

ABBREVIATIONS								
AC A.D. AP APP ARV BC BFC BVCS BW CB CMP CONC. CONST.								
DI.I.P. DI.W EG ELEV. EP EVCS EVCS (e) FF FFC	DROP INLET DROP INLET DUCTILE IRON PIPE DRIVEWAY END OF CURVE EXISTING GROUND ELEVATION EDGE OF PAVEMENT END OF VERTICAL CURVE ELEVATION END OF VERTICAL CURVE STATION EXISTING EXISTING FINISH FLOOR FRONT FACE OF CURB							
FGH FL FLG FTV G B HORZ. HW IE K	FINISH GRADE FIRE HYDRANT FLOWLINE FLANGED FEET FLUSH VALVE GAS GRADE BREAK HORIZONTAL HEAD WALL INVERT ELEVATION RATE OF VERTICAL CURVATURE							
L LAT. LF LP LT. M.D.D. MIN. MJ MPOC NDP PC	LENGTH LEFT LATERAL LINEAL FEET LOW POINT LEFT MAXIMUM DRY DENSITY MINIMUM MECHANICAL JOINT MID POINT OF CURVE NO DIRECT PAYMENT POINT OF CURVATURE							

PORTLAND CEMENT CONCRETE POINT OF COMPOUND CURVATURE POINT OF INTERSECTION

PEDESTRIAN PUSH BUTTON

PROPOSED
POINT OF REVERSE CURVATURE
POINT OF TANGENCY

REINFORCED CONCRETE PIPE

STORM DRAIN MANHOLE

SANITARY SEWER MANHOLE

TOP OF DEPRESSED CURB TOP OF PAVEMENT

VERTICAL POINT OF INTERSECTION

STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

POINT OF VERTICAL INTERSECTION

POINT ON CURVE POINT ON TANGENT

POLYVINYL CHLORIDE

REFERENCE

RETURN RADIUS POINT

RIGHT OF WAY

STORM DRAIN

SQUARE FEET SANITARY SEWER

SANITARY SEWER

SIDEWALK

WATER

TOP OF CURB

VERTICAL CURVE

STATION SHARED USE PATH

PVI

SSWR

TDC TP

Τ̈́ΥΡ. VERT.

INDEX OF SHEETS							
SHEET NO.	SHEET NAME	SHEET DESCRIPTION					
1	C-0	COVER SHEET					
2	C-1	NOTES, ABBREVIATIONS, AND SHEET INDEX					
3	C-2	SITE PLAN AND KEY SHEET					
4	PP-1	PLAN AND PROFILE STA. 0+00 TO STA. 10+00					
5	PP-2	PLAN AND PROFILE STA. 10+00 TO STA. 11+81					
6	PP-3	PLAN AND PROFILE RETAINING WALL					
7	DT-1	TYPICAL DETAILS					
8	DT-2	RETAINING WALL DETAILS					

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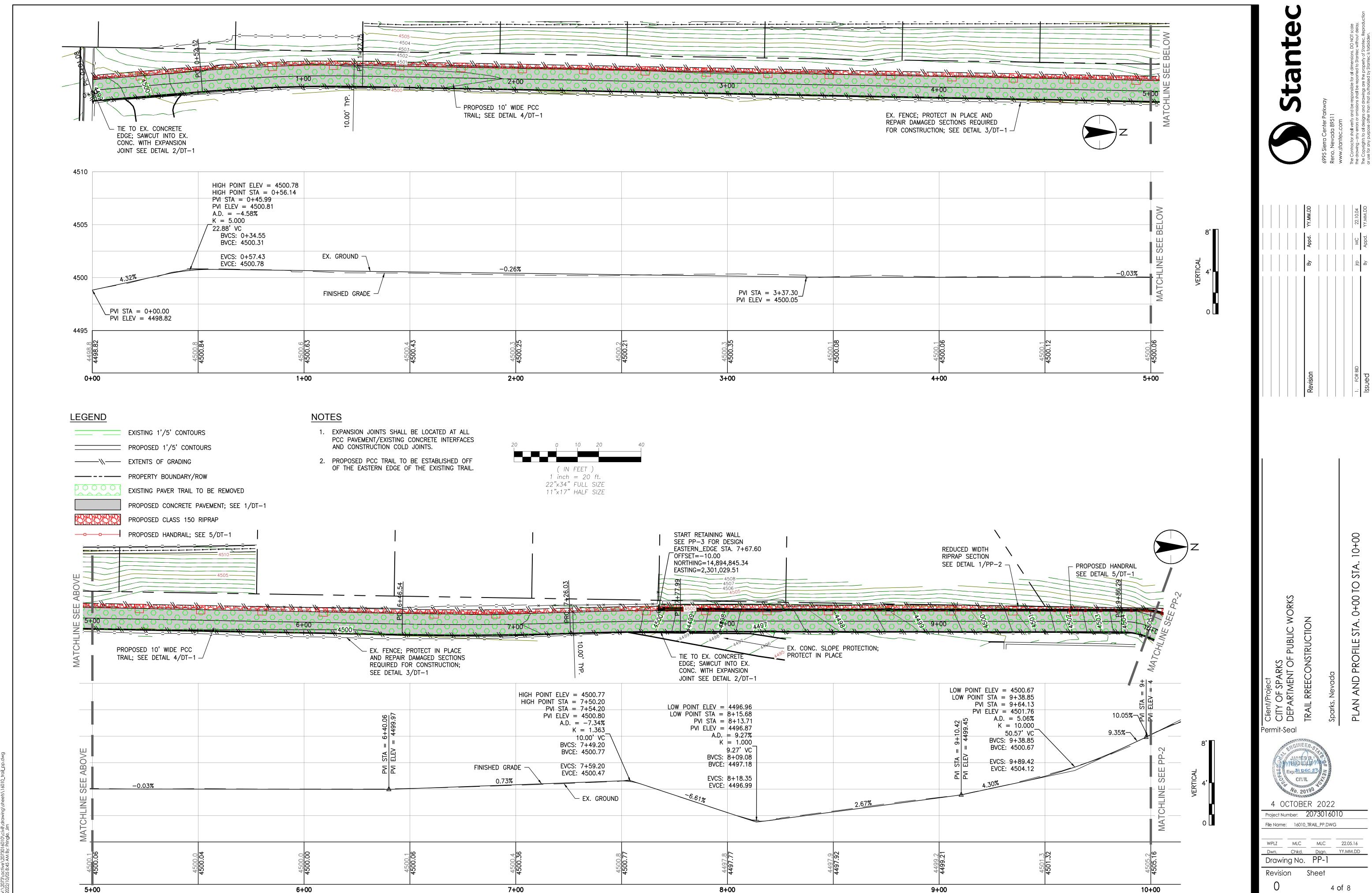
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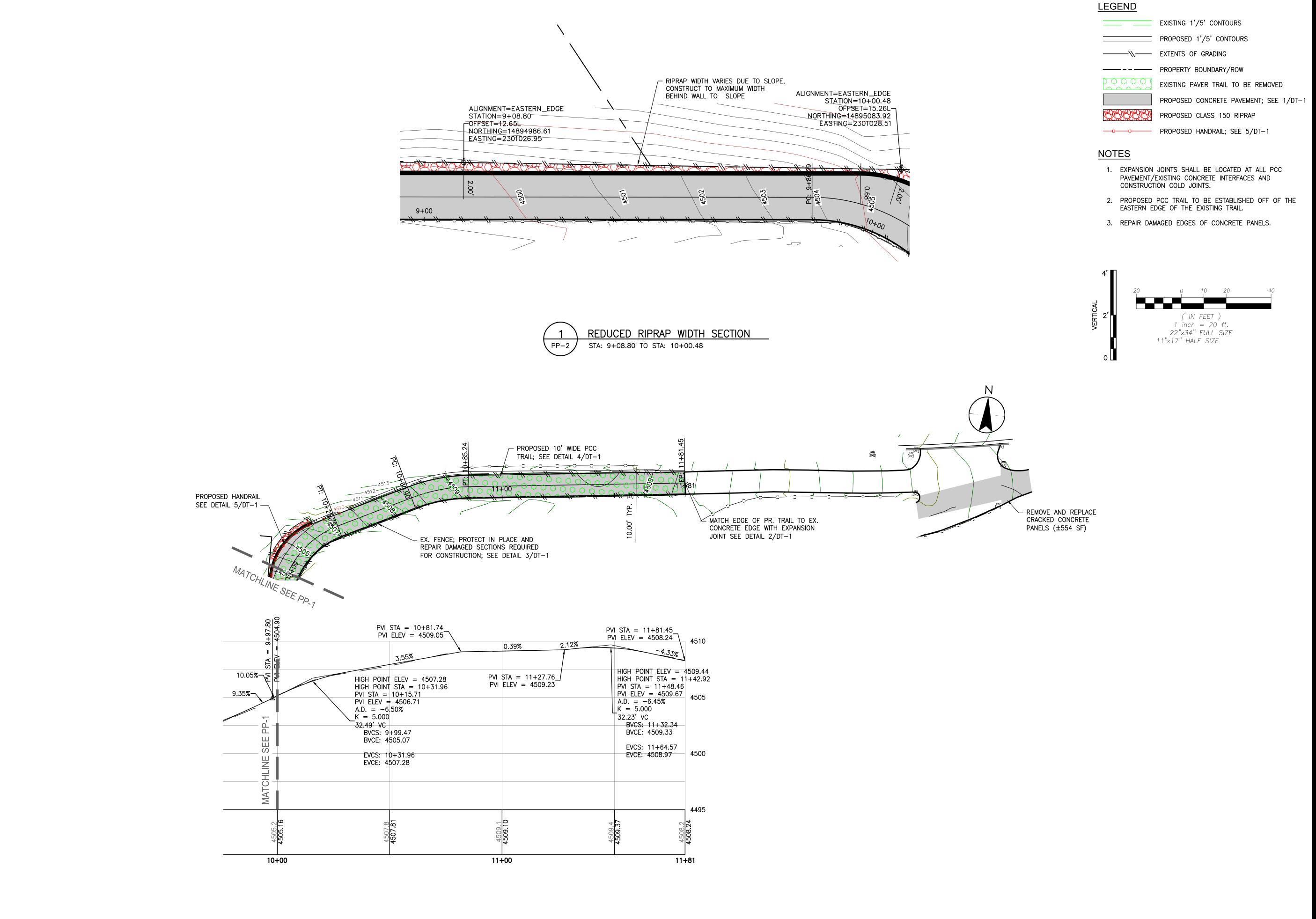


<u>LEGEND</u> PROPOSED CONCRETE PAVEMENT; SEE 1/DT-1 (IN FEET) 1 inch = 80 ft. 22"x34" FULL SIZE 11"x17" HALF SIZE

Drawing No. C-2

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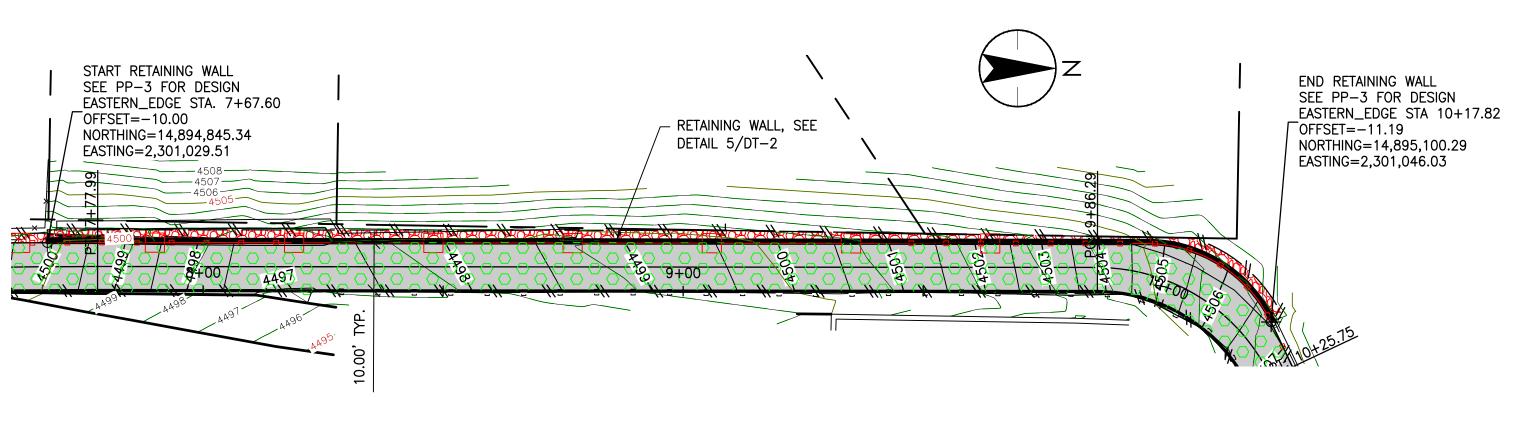
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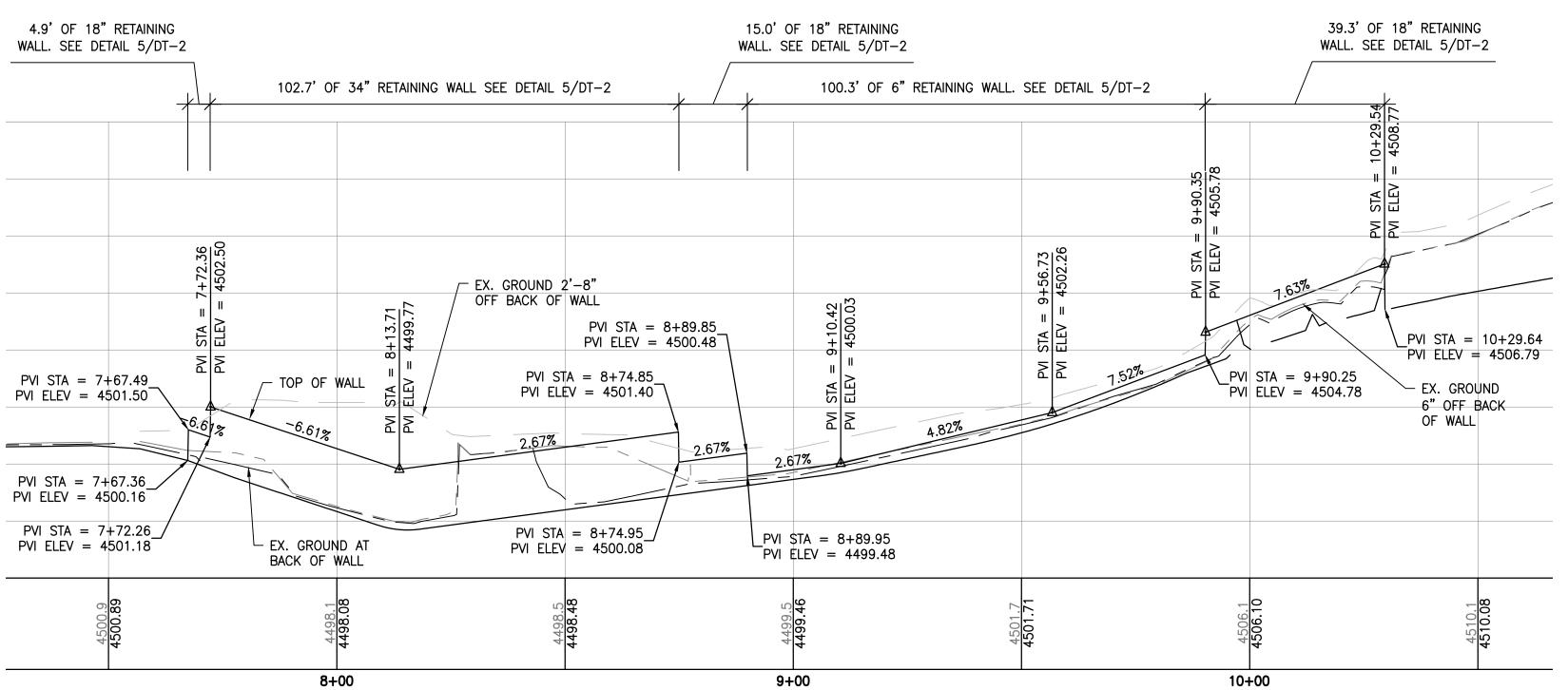
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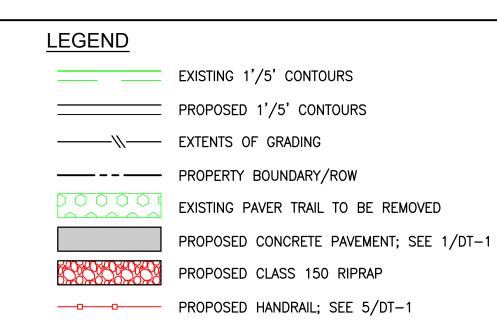
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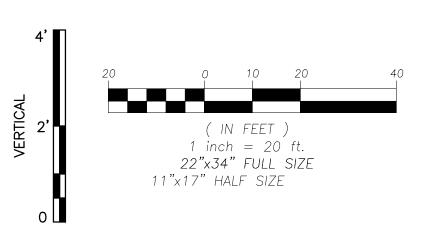


RETAINING WALL PLAN AND PROFILE



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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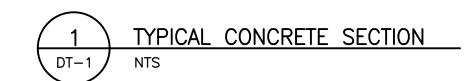
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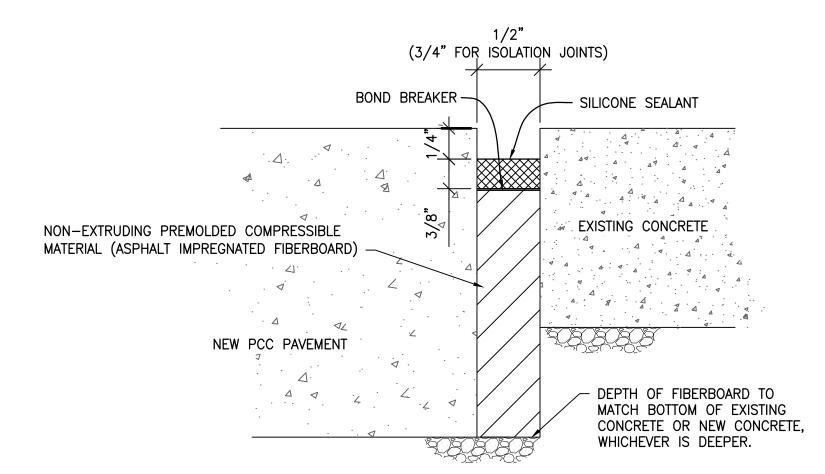
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1. FIBER-REINFORCED PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH AT 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH MAX. WATER-CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES. MIX DESIGN SHALL CONFORM TO THE REQUIREMENTS OF SECTION 337 OF STANDARD SPECIFICATIONS OF PUBLIC WORKS CONSTRUCTIONS (SSPWC). 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.

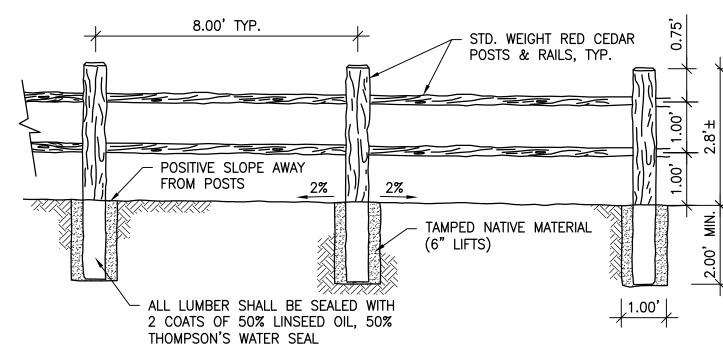




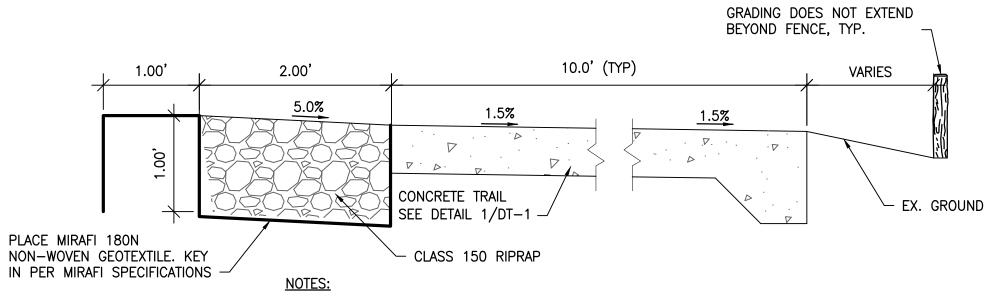
NOTES:

1. EXPANSION JOINTS AS SHOWN ON THE PLANS SHALL CONSIST OF A $\frac{1}{2}$ 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.

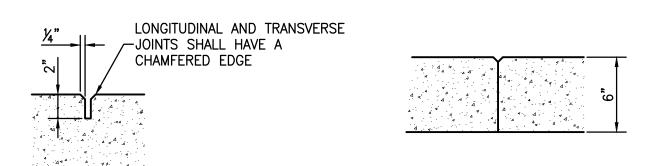




SPLIT RAIL FENCE DETAIL



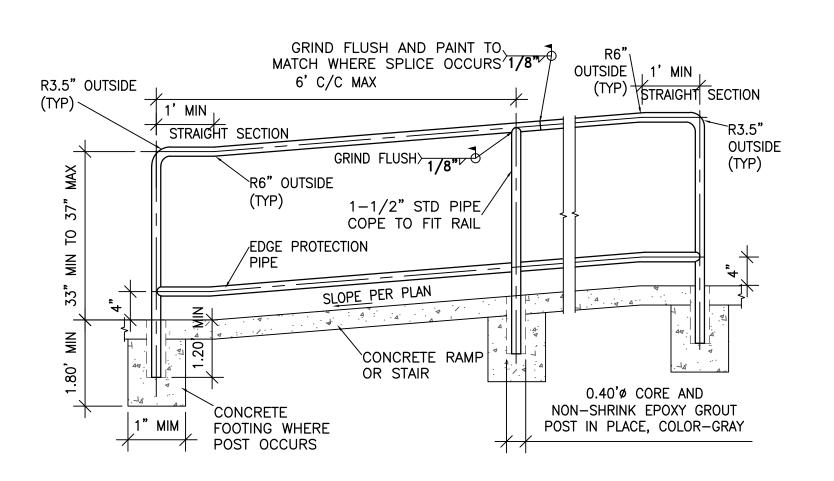
- 1. JOINTING PATTERN SHALL BE 5'x5' PANELS WITH CENTERLINE JOINT. SEE DETAIL A FOR CONTROL JOINTS AND DETAIL B FOR CONSTRUCTION JOINTS.
- 2. ALL ADJACENT CONCRETE REMOVAL SHALL BE TO NEAT SAW CUT LINES AT RIGHT ANGLES TO NEW CONCRETE.
- 3. JOINTS TO BE CUT AT A MINIMUM OF 4 HOURS TO A MAXIMUM OF 12 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)





PIPE HANDRAIL NOTES:

- 1. ALL PIPE HANDRAILS TO BE 1½" 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.



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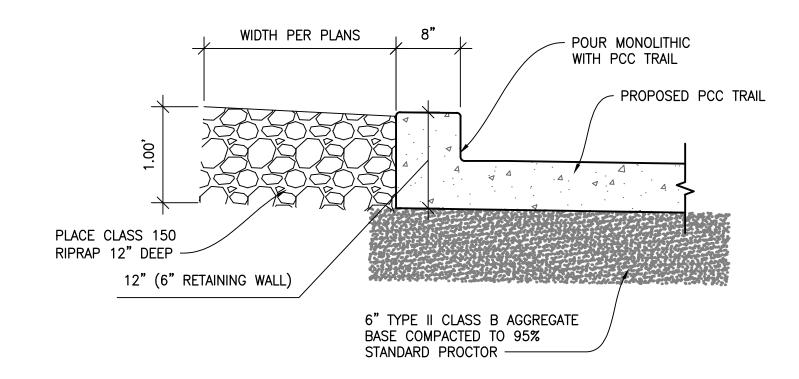
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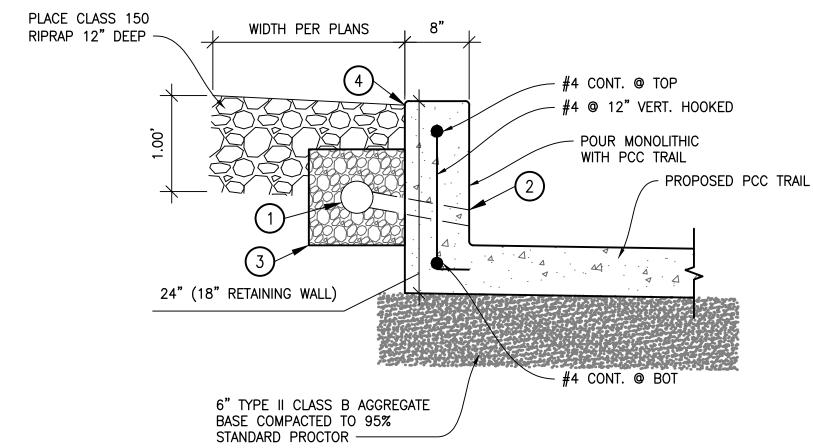
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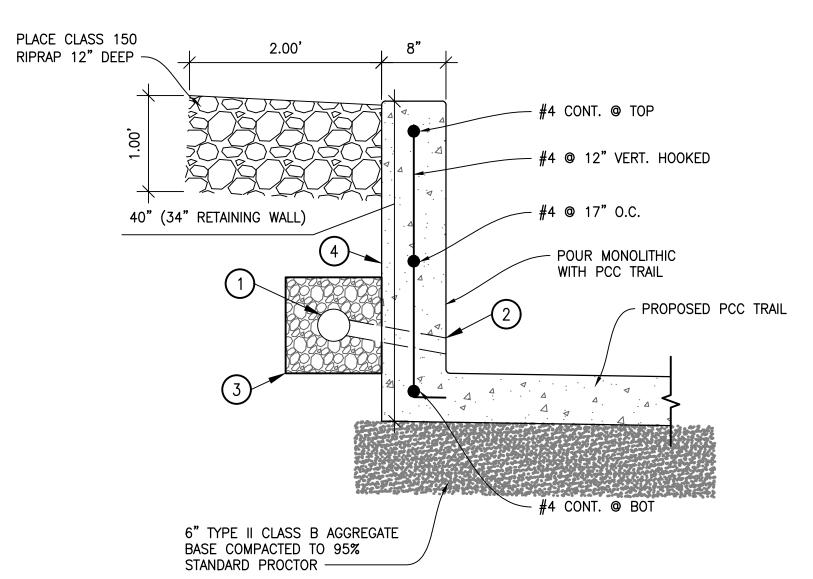
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CONSTRUCTION NOTES:

- CONSTRUCT CONTINUOUS 4-INCH PERFORATED PIPE AND DRAIN TO DAYLIGHT.
- CONSTRUCT 2-INCH WEEP HOLE DRAINS AT MAXIMUM 20-FEET ON CENTER. INVERT OUT = 0.2' ABOVE SIDEWALK FINISHED GRADE.
- 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.
- 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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