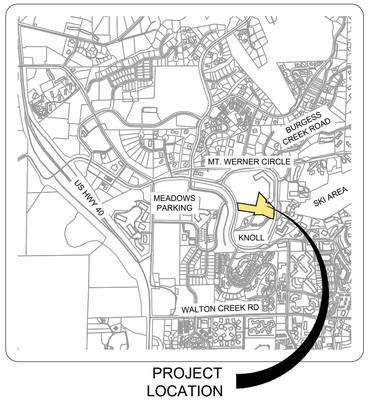
CONSTRUCTION DRAWINGS

FOR

THE AMBLE

LOT 1 AND TRAM LOT, FIFTH SUPPLEMENT TO THE CONDOMINIUM MAP AND PLAT OF THE STEAMBOAT GRAND RESORT HOTEL CONDOMINIUM
A RESUBDIVISION OF LOT 1, THE KNOLL; LOCATED IN THE SE1/4 SECTION 21 AND IN THE NE1/4 SECTION 28, T6N, R84W, 6TH P.M.;
CITY OF STEAMBOAT SPRINGS, COUNTY OF ROUTT, STATE OF COLORADO
CONTAINING A CALCULATED AREA OF 4.31 ACRES



NORTH

VICINITY MAP

1" = 1500'

CONTACT INFORMATION

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BASE MAPPING SURVEYOR
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(970) 871-9494
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Cover Page?

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
Know what's below. Call before you dig.
CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

COLORADO LICENSED
MATTHEW CARL EGGEN
50740
PROFESSIONAL ENGINEER
2/15/24

NOT VALID WITHOUT ORIGINAL SIGNATURE AND DATE

LANDMARK CONSULTANTS, INC.
CIVIL ENGINEERS | SURVEYORS
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Reviewed for Code Compliance
04/01/2024

NO.	DATE:	BY:	DESCRIPTION:
1	02.08.2024	MCE	PERMIT COMMENT RESPONSE

PROJECT: 2571-001
DATE: 12/15/2023
CONTACT: Matthew Eggen
EMAIL: matte@landmark-co.com

The Amble - Construction Drawings

Cover Sheet

SHEET
C.001

DRAWING FILENAME: P:\2571-001\Work\Production Drawings\SD\2.2\2571-001-C.001-C00-Cover Sheet.dwg LAYOUT NAME: C.001 DATE: Feb 08, 2024 - 11:54am USR OPERATOR: matthew
LIST OF XREFS: [ACAD\2571-001-xrefs.dwg]ADR[ADR-C00]

GENERAL NOTES

1. CITY OF STEAMBOAT SPRINGS PLAN REVIEW AND APPROVAL IS ONLY FOR GENERAL CONFORMANCE WITH CITY DESIGN CRITERIA AND THE CITY CODE. THE CITY IS NOT RESPONSIBLE FOR THE COMPLETENESS, ACCURACY AND ADEQUACY OF THE DRAWINGS. DESIGN, DIMENSIONS, AND ELEVATIONS SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE.
2. ONE COPY OF THE APPROVED CONSTRUCTION PLANS AND SPECIFICATIONS SHALL BE KEPT ON THE JOB SITE AT ALL TIMES. PRIOR TO THE START OF CONSTRUCTION, VERIFY WITH PROJECT ENGINEER THE LATEST REVISION DATE OF THE APPROVED CONSTRUCTION PLANS.
3. ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION OF PUBLIC IMPROVEMENTS SHALL MEET OR EXCEED THE STANDARDS AND SPECIFICATIONS SET FORTH IN THE CITY OF STEAMBOAT SPRINGS TECHNICAL SPECIFICATIONS (MARCH, 2018 EDITION), THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" BY THE COLORADO DEPARTMENT OF TRANSPORTATION, (2017 EDITION), AND APPLICABLE STATE AND FEDERAL REGULATIONS. WHERE THERE IS A DIRECT CONFLICT BETWEEN THESE PLANS AND THE SPECIFICATIONS, OR ANY APPLICABLE STANDARDS, THE MOST RESTRICTIVE STANDARD SHALL APPLY.
4. ALL WATER AND SANITARY SEWER CONSTRUCTION AND RELATED WORK SHALL CONFORM TO THE MOUNT WERNER WATER STANDARD SPECIFICATIONS FOR WATER AND WASTEWATER UTILITIES, CURRENT EDITION STANDARDS AND SPECIFICATIONS.
5. ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES AS REQUIRED MUST BE OBTAINED IN ORDER TO PERFORM THE WORK. THIS INCLUDES, BUT IS NOT LIMITED TO, RIGHT-OF-WAY PERMIT, GRADING AND EXCAVATION PERMIT, CONSTRUCTION DEWATERING PERMIT, STORM WATER QUALITY PERMIT, ARMY CORP OF ENGINEER PERMIT, ETC. IT IS THE APPLICABLE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COPY OF ALL APPLICABLE CODES, LICENSES, SPECIFICATIONS, AND STANDARDS NECESSARY TO PERFORM THE WORK, AND BE FAMILIAR WITH THEIR CONTENTS PRIOR TO COMMENCING ANY WORK.
6. PRIOR TO ANY WORK IN THE CITY RIGHT-OF-WAY INCLUDING STREET CUTS, CONTACT THE CITY OF STEAMBOAT SPRINGS STREET DEPARTMENT AT 970.879.1807 FOR PERMIT REQUIREMENTS. NO WORK SHALL OCCUR IN THE ROW BETWEEN NOVEMBER 1 - APRIL 1 UNLESS A WRITTEN VARIANCE HAS BEEN APPROVED AND ISSUED BY THE CITY PUBLIC WORKS DIRECTOR.
7. PRIOR TO CLOSURE OF ANY STREET OR PART OF STREET, AN APPROVED OBSTRUCTION PERMIT MUST BE ISSUED BY CITY CONSTRUCTION SERVICES FOREMAN.
8. PRIOR TO START OF CONSTRUCTION A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED WITH THE APPROPRIATE CONTRACTORS, ENGINEER, SURVEYOR, TESTING COMPANY, AFFECTED AGENCIES AND KEY SUBCONTRACTORS A MINIMUM OF 48-HOURS PRIOR TO THE START OF WORK.
9. THE LOCAL ENTITY AND ENGINEER SHALL BE NOTIFIED AT LEAST 2 WORKING DAYS PRIOR TO THE START OF ANY EARTH DISTURBING ACTIVITY, OR CONSTRUCTION ON ANY AND ALL PUBLIC IMPROVEMENTS. THE LOCAL ENTITY RESERVES THE RIGHT NOT TO ACCEPT THE IMPROVEMENTS IF SUBSEQUENT TESTING REVEALS AN IMPROPER INSTALLATION.
10. COORDINATE WITH THE PROJECT ENGINEER TO IDENTIFY PROJECT INSPECTION AND TESTING REQUIREMENTS. PROVIDE FOR INSPECTIONS AND TESTING AT AN ADEQUATE FREQUENCY FOR THE PROJECT ENGINEER TO DOCUMENT THAT PROJECT IS CONSTRUCTED IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. PRIOR TO MAKING ANY CHANGES TO THE APPROVED PLANS, IT IS THE APPROPRIATE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE PROJECT ENGINEER.
11. PROVIDE THE OWNER, ENGINEER, THEIR CONSULTANTS, INDEPENDENT TESTING LABORATORIES, ANY GOVERNMENTAL AGENCIES WITH JURISDICTIONAL INTERESTS, OTHER REPRESENTATIVES AND PERSONNEL, ACCESS TO THE SITE AND THE WORK AT REASONABLE TIMES FOR THEIR OBSERVATION, INSPECTING, AND TESTING. PROVIDE THEM PROPER AND SAFE CONDITIONS FOR SUCH ACCESS AND ADVISE THEM OF THE DEVELOPER'S SITE SAFETY PROCEDURES AND PROGRAMS SO THAT THEY MAY COMPLY THEREWITH AS IS APPLICABLE. COORDINATE WITH THE PROJECT ENGINEER SO THAT INSPECTING AND TESTING ARE PROVIDED AT AN ADEQUATE FREQUENCY FOR THE PROJECT ENGINEER TO AFFIRM THAT WORK WAS COMPLETED IN SUBSTANTIAL CONFORMANCE WITH THESE APPROVED PLANS.
12. NO WORK MAY COMMENCE WITHIN ANY IMPROVED PUBLIC RIGHT-OF-WAY UNTIL A RIGHT-OF-WAY PERMIT OR APPROPRIATE CONSTRUCTION PERMIT IS OBTAINED, IF APPLICABLE. SUBMIT A CONSTRUCTION TRAFFIC CONTROL PLAN, IN ACCORDANCE WITH MUTCD, TO THE APPROPRIATE RIGHT-OF-WAY AUTHORITY, (LOCAL ENTITY, COUNTY OR STATE), FOR APPROVAL, PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN, OR AFFECTING, THE RIGHT-OF-WAY. PROVIDE ANY AND ALL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED BY THE CONSTRUCTION ACTIVITIES.
13. SUBMIT A CONSTRUCTION SITE MANAGEMENT PLAN (CSMP) FOR REVIEW AND APPROVAL BY THE CITY CONSTRUCTION SERVICES FOREMAN PRIOR TO START OF CONSTRUCTION. THE CSMP MUST BE MAINTAINED ON-SITE AND UPDATED AS NEEDED TO REFLECT CURRENT CONDITIONS.
14. ALL CONTRACTORS ARE SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO UNCC) AT 1-800-922-1987, AT LEAST 2 WORKING DAYS PRIOR TO BEGINNING EXCAVATION OR GRADING, TO HAVE ALL REGISTERED UTILITY LOCATIONS MARKED. OTHER UNREGISTERED UTILITY ENTITIES (I.E. DITCH / IRRIGATION COMPANY) ARE TO BE LOCATED BY CONTACTING THE RESPECTIVE REPRESENTATIVE. UTILITY SERVICE LATERALS ARE ALSO TO BE LOCATED PRIOR TO BEGINNING EXCAVATION OR GRADING. THE TYPE, SIZE, LOCATION AND NUMBER OF ALL KNOWN UNDERGROUND UTILITIES ARE APPROXIMATE WHEN SHOWN ON THE DRAWINGS. VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES ALONG THE ROUTE OF THE WORK BEFORE COMMENCING NEW CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
15. FIELD LOCATE AND VERIFY ELEVATIONS OF ALL EXISTING SEWER MAINS, WATER MAINS, CURBS, GUTTERS AND OTHER UTILITIES AT THE POINTS OF CONNECTION SHOWN ON THE PLANS, AND AT ANY UTILITY CROSSINGS PRIOR TO INSTALLING ANY OF THE NEW IMPROVEMENTS. IF A CONFLICT EXISTS AND/OR A DESIGN MODIFICATION IS REQUIRED, COORDINATE WITH THE ENGINEER TO MODIFY THE DESIGN. DESIGN MODIFICATION(S) MUST BE APPROVED BY THE LOCAL ENTITY PRIOR TO BEGINNING CONSTRUCTION.
16. ALL UTILITY INSTALLATIONS WITHIN OR ACROSS THE ROADBED OR OTHER PAVED AREAS MUST BE COMPLETED PRIOR TO THE FINAL STAGES OF ROAD CONSTRUCTION. FOR THE PURPOSES OF THESE STANDARDS, ANY WORK INCLUDING, GRAVELS, PAVEMENTS, CURB AND GUTTER ABOVE THE SUBGRADE IS CONSIDERED FINAL STAGE WORK. ALL SERVICE LINES MUST BE STUBBED BEYOND THE ROAD PLATFORM OR TO THE PROPERTY LINES AND MARKED SO AS TO REDUCE THE EXCAVATION NECESSARY FOR BUILDING CONNECTIONS.
17. COORDINATE AND COOPERATE WITH THE LOCAL ENTITY, AND ALL UTILITY COMPANIES INVOLVED, WITH REGARD TO RELOCATIONS, ADJUSTMENTS, EXTENSIONS AND REARRANGEMENTS OF EXISTING UTILITIES DURING CONSTRUCTION, AND TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION AND WITH A MINIMUM DISRUPTION OF SERVICE. CONTACT, IN ADVANCE, ALL PARTIES AFFECTED BY ANY DISRUPTION OF ANY UTILITY SERVICE AS WELL AS THE UTILITY COMPANIES.
18. NO WORK MAY COMMENCE WITHIN ANY PUBLIC STORM WATER, SANITARY SEWER OR POTABLE WATER SYSTEM UNTIL THE UTILITY PROVIDERS ARE NOTIFIED. NOTIFICATION SHALL BE A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF ANY WORK. AT THE DISCRETION OF THE WATER UTILITY PROVIDER, A PRE-CONSTRUCTION MEETING MAY BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORK.
19. PROTECT ALL UTILITIES DURING CONSTRUCTION AND COORDINATE WITH THE APPROPRIATE UTILITY COMPANY FOR ANY UTILITY CROSSINGS REQUIRED.
20. WHEN APPLICABLE, THE DEVELOPER AND/OR CONTRACTOR SHALL HAVE ONSITE AT ALL TIMES, EACH OF THE FOLLOWING:
   - BEST MANAGEMENT PRACTICES (BMP) MAINTENANCE FOLDER
   - UP TO DATE STORMWATER MANAGEMENT PLAN (SWMP) THAT ACCURATELY REPRESENTS CURRENT FIELD CONDITIONS
   - ONE (1) SIGNED COPY OF THE APPROVED PLANS
   - ONE (1) COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS
   - A COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED FOR THE JOB.

23. IF, DURING THE CONSTRUCTION PROCESS, CONDITIONS ARE ENCOUNTERED WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, CONTACT THE DESIGNER AND THE LOCAL ENTITY ENGINEER IMMEDIATELY.
24. ALL REFERENCES TO ANY PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.
25. PROVIDE ALL LABOR AND MATERIALS NECESSARY FOR THE COMPLETION OF THE INTENDED IMPROVEMENTS SHOWN ON THESE DRAWINGS, OR DESIGNATED TO BE PROVIDED, INSTALLED, OR CONSTRUCTED, UNLESS SPECIFICALLY NOTED OTHERWISE.
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING AS-BUILT INFORMATION ON A SET OF RECORD DRAWINGS KEPT ON THE CONSTRUCTION SITE, AND AVAILABLE TO THE LOCAL ENTITY'S INSPECTOR AT ALL TIMES.
27. DIMENSIONS FOR LAYOUT AND CONSTRUCTION ARE NOT TO BE SCALED FROM ANY DRAWING. IF PERTINENT DIMENSIONS OR ELEVATIONS ARE NOT SHOWN, CONTACT THE DESIGNER FOR CLARIFICATION, AND ANNOTATE THE PROVIDED DIMENSION ON THE AS-BUILT RECORD DRAWINGS. CONTOURS ARE NOT SUITABLE FOR CONSTRUCTION LAYOUT.
28. SEQUENCE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO MINIMIZE POTENTIAL UTILITY CONFLICTS. IN GENERAL, GRADE RESTRICTED UTILITIES SUCH AS STORM SEWER AND SANITARY SEWER SHOULD BE CONSTRUCTED PRIOR TO INSTALLATION OF THE WATER LINES AND DRY UTILITIES.
29. EXISTING FENCES, TREES, STREETS, SIDEWALKS, CURBS AND GUTTERS, LANDSCAPING, STRUCTURES, AND IMPROVEMENTS DESTROYED, DAMAGED OR REMOVED DUE TO CONSTRUCTION OF THIS PROJECT SHALL BE REPLACED OR RESTORED IN LIKE KIND AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE INDICATED ON THESE PLANS.
30. THESE CONSTRUCTION PLANS SHALL BE VALID FOR A PERIOD OF THREE YEARS FROM THE DATE OF APPROVAL BY THE AUTHORITY HAVING JURISDICTION. USE OF THESE PLANS AFTER THE EXPIRATION DATE WILL REQUIRE A NEW REVIEW AND APPROVAL PROCESS BY THE LOCAL ENTITY PRIOR TO COMMENCEMENT OF ANY WORK SHOWN IN THESE PLANS.
31. ALL CONSTRUCTION IN AREAS DESIGNATED AS WILD FIRE HAZARD AREAS SHALL BE DONE IN ACCORDANCE WITH THE CONSTRUCTION CRITERIA AS ESTABLISHED IN THE WILD FIRE HAZARD AREA MITIGATION REGULATIONS IN FORCE AT THE TIME OF CONSTRUCTION.
32. THE CONTRACTOR AGREES THAT BY COMMENCING CONSTRUCTION THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE CONSTRUCTION OF THE PROJECT, INCLUDING, BUT NOT LIMITED TO THE SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE ENGINEER, AND THE GOVERNING AGENCIES AND THE OFFICERS, DIRECTORS, PARTNERS, EMPLOYEES, AGENTS AND OTHER CONSULTANTS OF EACH AND ANY OF THEM HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE NEGLIGENCE OF THE OWNER, THE ENGINEER, OR THE GOVERNING AGENCIES.
33. NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERING ANY CONFLICTS OR OTHER PROBLEMS IN CONFORMING TO THE APPROVED CONSTRUCTION DRAWINGS, SPECIFICATIONS OR DETAILS FOR ANY ELEMENT OF THE PROPOSED IMPROVEMENTS PRIOR TO PROCEEDING WITH ITS CONSTRUCTION.
34. COORDINATE THE INSTALLATION OR RELOCATION OF THE DRY UTILITY COMPANY'S FACILITIES. COST OF THE DRY UTILITY WORK SHALL BE BORNE BY THE OWNER, EXCEPT AS INDICATED IN THE PLANS AND SPECIFICATIONS.
35. PRESERVE PRIVATE AND PUBLIC PROPERTY AND PROTECT IT FROM DAMAGE THAT MAY RESULT FROM CONSTRUCTING THESE PROPOSED IMPROVEMENTS.
36. ACCESS TO ALL ADJACENT PROPERTIES AND FACILITIES SHALL BE MAINTAINED AT ALL TIMES. REQUIRED INTERRUPTION OF ACCESS SHALL BE COORDINATED WITH THE PROPERTY AND PROJECT OWNERS.
37. IF HAZARDOUS MATERIAL OR SUSPECT MATERIAL IS ENCOUNTERED NOTIFY THE OWNER AND ENGINEER BEFORE CONTINUING WORK. HAZARDOUS MATERIALS SHALL BE REMOVED AS REQUIRED.
38. THE APPROPRIATE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SOURCE OF CONSTRUCTION WATER FOR USE ON THIS PROJECT.
39. EXCESS MATERIAL SHALL BE REMOVED FROM SITE AND HANDLED IN ACCORDANCE TO ALL RULES AND REQUIREMENTS. A SEPARATE PERMIT MAY BE REQUIRED AND SHALL BE COORDINATED WITH THE AUTHORITY HAVING JURISDICTION.
40. OFFSITE AND ADJACENT SITE DATA IS SHOWN FOR REFERENCE PURPOSES ONLY.
41. ALL LANDSCAPING, REVEGETATION AND WETLANDS REQUIREMENTS DESIGN IS BY OTHERS. ALL DISTURBED AREAS ARE TO BE REVEGETATED UNLESS OTHERWISE NOTED.
42. ENSURE THAT WORK FOR THIS PROJECT BE PERFORMED BY CONTRACTORS (INCLUDING CONTRACTOR'S EMPLOYEES AND AGENTS) POSSESSING THE SKILLS, EXPERTISE AND UNDERSTANDING OF ALL APPLICABLE CODES, SPECIFICATIONS, STANDARDS AND MANUFACTURER REQUIREMENTS. BY COMMENCING WORK, THE CONTRACTORS REPRESENT THAT THEY UNDERSTAND AND ACCEPT THIS REQUIREMENT.
43. ALL CONSTRUCTION ACTIVITIES AND DISTURBANCES SHALL OCCUR WITHIN THE PROPERTY LIMITS. WHERE OFF-SITE WORK IS APPROVED, WRITTEN PERMISSION OF THE ADJACENT PROPERTY OWNER MUST BE OBTAINED PRIOR TO ANY OFF-SITE GRADING OR CONSTRUCTION.

CONSTRUCTION NOTES

A. GRADING AND DRAINAGE

44. NO WORK SHALL OCCUR IN WETLANDS OR FLOODPLAINS WITHOUT PERMITS. ANY WORK SHALL BE IN ACCORDANCE WITH ISSUED PERMITS.
45. VEGETATED SLOPES GREATER THAN 3:1 REQUIRE SOIL STABILIZATION.
46. CLEAN ALL INSTALLED CULVERTS AND STORM SEWERS PRIOR TO SUBSTANTIAL COMPLETION INSPECTIONS.
47. LENGTHS SHOWN ON PLANS ARE HORIZONTAL LENGTHS FROM CENTER OF MANHOLE TO CENTER OF MANHOLE OR TO THE END OF THE FLARED END SECTIONS, ACTUAL LENGTHS MAY VARY.
48. SLOPES ARE CALCULATED FROM INSIDE EDGE OF MANHOLE/STRUCTURE TO INSIDE EDGE OF MANHOLE/STRUCTURE.
49. IMPERVIOUS CLAY DAMS ARE REQUIRED IN TRENCH AT 50-FT INTERVALS AND AT CHANGES IN PIPE DIRECTION AND/OR AT PIPE JUNCTIONS FOR ALL DRAINAGE STRUCTURES.
50. A GEOTECHNICAL REPORT FOR THIS PROJECT WAS PREPARED UNDER THE TITLE OF "SUBSOIL AND FOUNDATION INVESTIGATION, THE AMBLE - STEAMBOAT GRAND PHASE II, STEAMBOAT SPRINGS, COLORADO" BY NWCC DATED DECEMBER 1, 2021, AND THEIR RECOMMENDATIONS ARE HEREBY INCORPORATED HEREIN. IF A CONFLICT OR DISCREPANCY OCCURS, NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERY.
51. MINIMUM COMPACTION REQUIREMENTS: PER THE REFERENCED GEOTECHNICAL REPORT, "THE FILL AREAS SHOULD BE PREPARED BY STRIPPING ANY EXISTING FILL MATERIALS AND TOPSOIL AND ORGANICS, SCARIFICATION AND COMPACTION TO AT LEAST 95% OF THE MAXIMUM STANDARD PROCTOR DENSITY AND WITHIN 2% OF OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698".

B. CONSTRUCTION SITE AND STORMWATER MANAGEMENT

52. CONTRACTOR SHALL SUBMIT A CONSTRUCTION SITE MANAGEMENT PLAN TO THE CITY FOR APPROVAL PRIOR TO BUILDING PERMIT ISSUANCE.
53. WHEN REQUIRED THE CONTRACTOR SHALL PREPARE A STORMWATER MANAGEMENT PLAN. THE STORMWATER MANAGEMENT PLAN SHALL BE PREPARED BY A QUALIFIED INDIVIDUAL WITH KNOWLEDGE IN THE PRINCIPLES AND PRACTICES OF EROSION AND SEDIMENT CONTROL AND POLLUTION PREVENTION. THIS INDIVIDUAL SHOULD BE RESPONSIBLE FOR DEVELOPING, IMPLEMENTING, MAINTAINING, AND REVISING THE STORMWATER MANAGEMENT PLAN FOR THE DURATION OF THE PROJECT.
54. THE STORMWATER MANAGEMENT PLAN SHOULD ADDRESS INSTALLATION, INSPECTION AND MAINTENANCE OF ALL NECESSARY EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION AND REMOVE EROSION CONTROL WHEN PROJECT IS COMPLETE AND VEGETATION IS ESTABLISHED. WHEN TEMPORARY EROSION CONTROL MEASURES ARE REMOVED, CLEAN UP AND REMOVE ALL SEDIMENT AND DEBRIS FROM ALL DRAINAGE INFRASTRUCTURE AND OTHER PUBLIC FACILITIES.
55. ALL REQUIRED PERIMETER SILT AND CONSTRUCTION FENCING SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITY (STOCKPILING, STRIPPING, GRADING, ETC). ALL OTHER REQUIRED EROSION CONTROL MEASURES SHALL BE INSTALLED AT THE APPROPRIATE TIME IN THE CONSTRUCTION SEQUENCE AS INDICATED IN THE APPROVED PROJECT SCHEDULE, CONSTRUCTION PLANS, AND STORMWATER MANAGEMENT PLAN.
56. ENSURE THAT NO MUD OR DEBRIS SHALL BE TRACKED ONTO THE EXISTING PUBLIC STREET SYSTEM. MUD AND DEBRIS MUST BE REMOVED BY THE END OF EACH WORKING DAY BY AN APPROPRIATE MECHANICAL METHOD (I.E. MACHINE BROOM SWEEP, LIGHT DUTY FRONT-END LOADER, ETC.) OR AS APPROVED BY THE LOCAL ENTITY STREET INSPECTOR.
57. ALL STRUCTURAL EROSION CONTROL MEASURES SHALL BE INSTALLED AT THE LIMITS OF CONSTRUCTION AND AT AREAS WITH DISTURBED SOIL, ON- OR OFF-SITE, PRIOR TO ANY OTHER GROUND-DISTURBING ACTIVITY. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN GOOD REPAIR, UNTIL SUCH TIME AS THE ENTIRE DISTURBED AREAS ARE STABILIZED WITH HARD SURFACE OR LANDSCAPING. TO MITIGATE EROSION, UTILIZE STANDARD EROSION CONTROL TECHNIQUES DESCRIBED IN THE URBAN STORM DRAINAGE CRITERIA MANUAL, VOLUME 3 - BEST MANAGEMENT PRACTICES, AS PUBLISHED BY THE URBAN DRAINAGE AND FLOOD CONTROL DISTRICT (UDFCD).
58. PRE-DISTURBANCE VEGETATION SHALL BE PROTECTED AND RETAINED WHEREVER POSSIBLE. REMOVAL OR DISTURBANCE OF EXISTING VEGETATION SHALL BE LIMITED TO THE AREA(S) REQUIRED FOR IMMEDIATE CONSTRUCTION OPERATIONS, AND FOR THE SHORTEST PRACTICAL PERIOD OF TIME.
59. IMMEDIATELY CLEAN UP ANY CONSTRUCTION MATERIALS INADVERTENTLY DEPOSITED ON EXISTING STREETS, SIDEWALKS, OR OTHER PUBLIC RIGHTS OF WAY, AND MAKE SURE STREETS AND WALKWAYS ARE CLEANED AT THE END OF EACH WORKING DAY.
60. ALL RETAINED SEDIMENTS, PARTICULARLY THOSE ON PAVED ROADWAY SURFACES, SHALL BE REMOVED AND DISPOSED OF IN A MANNER AND LOCATION SO AS NOT TO CAUSE THEIR RELEASE INTO ANY WATERS OF THE UNITED STATES.
61. THE STORMWATER VOLUME CAPACITY OF DETENTION PONDS WILL BE RESTORED AND STORM SEWER LINES WILL BE CLEANED UPON COMPLETION OF THE PROJECT.
62. THE COLORADO DISCHARGE PERMIT SYSTEM (CDPS) REQUIREMENTS MAKE IT UNLAWFUL TO DISCHARGE OR ALLOW THE DISCHARGE OF ANY POLLUTANT OR CONTAMINATED WATER FROM CONSTRUCTION SITES. POLLUTANTS INCLUDE, BUT ARE NOT LIMITED TO DISCARDED BUILDING MATERIALS, CONCRETE TRUCK WASHOUT, CHEMICALS, OIL AND GAS PRODUCTS, LITTER, AND SANITARY WASTE. TAKE WHATEVER MEASURES ARE NECESSARY TO ASSURE THE PROPER CONTAINMENT AND DISPOSAL OF POLLUTANTS ON THE SITE IN ACCORDANCE WITH ANY AND ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

C. PAVING

63. UNLESS NOTED OTHERWISE, THE PAVEMENT SECTION SHALL CONSIST OF:
   A. 8-INCH THICK AGGREGATE SUBBASE COURSE: CLASS 2 AGGREGATE CONFORMING TO CDOT STANDARD SPECIFICATION SECTION 703 FOR AGGREGATES.
   B. 4-INCH THICK AGGREGATE BASE COURSE: CDOT STANDARD SPECIFICATIONS SECTION 703.03 FOR CLASS 6 AGGREGATE BASE COURSE;
   C. 4-INCH THICK ASPHALT PAVEMENT: CDOT STANDARD SPECIFICATIONS, LATEST EDITION, WITH TYPE SX GRADATION AND PG58-28 BINDER. TACK COATS SHALL BE SS-1H AND CONFORM TO AASHTO M140. PAVING SHALL NOT START UNTIL SUBGRADE COMPACTION AND MATERIAL TESTS ARE TAKEN AND ACCEPTED BY THE ENGINEER.
64. EXISTING ASPHALT PAVEMENT SHALL BE STRAIGHT SAW CUT A MINIMUM DISTANCE OF 1-FOOT FROM THE EXISTING EDGE, TO CREATE A CLEAN CONSTRUCTION JOINT. REMOVE EXISTING PAVEMENT TO A DISTANCE WHERE A CLEAN CONSTRUCTION JOINT CAN BE MADE. TACK COAT SHALL BE APPLIED TO ALL EXPOSED SURFACES INCLUDING SAW CUTS, POTHOLES, TRENCHES, AND ASPHALT OVERLAY. ASPHALT PATCHES IN THE RIGHT-OF-WAY SHALL BE PER CITY SPECIFICATIONS.
65. CONTACT CITY STREETS SUPERINTENDENT AT (970) 879-1807 TO SCHEDULE INSTALLATION OF PUBLIC STREET SIGNS. ALL OTHER TRAFFIC CONTROL SIGNS ARE THE RESPONSIBILITY OF THE DEVELOPER.
66. NO BASE MATERIAL SHALL BE LAID UNTIL THE SUBGRADE HAS BEEN REVIEWED AND APPROVED BY THE ENGINEER.
67. VALVE BOXES, CLEANOUTS AND MANHOLES ARE TO BE BROUGHT UP TO GRADE AT THE TIME OF PAVEMENT PLACEMENT OR OVERLAY. VALVE BOX ADJUSTING RINGS ARE NOT ALLOWED.
68. WHEN AN EXISTING ASPHALT STREET MUST BE CUT, THE STREET MUST BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN ITS ORIGINAL CONDITION. THE EXISTING STREET CONDITION SHALL BE DOCUMENTED BY THE ENGINEER BEFORE ANY CUTS ARE MADE. THE FINISHED PATCH SHALL BLEND SMOOTHLY INTO THE EXISTING SURFACE.
69. PERFORM A GUTTER WATER FLOW TEST IN THE PRESENCE OF THE ENGINEER AND PRIOR TO INSTALLATION OF ASPHALT. GUTTERS THAT HOLD MORE THAN 1/4 INCH DEEP OR 5 FEET LONGITUDINALLY, OF WATER, SHALL BE COMPLETELY REMOVED AND RECONSTRUCTED TO DRAIN PROPERLY.
70. PRIOR TO PLACEMENT OF H.B.P. OR CONCRETE WITHIN THE STREET AND AFTER MOISTURE/DENSITY TESTS HAVE BEEN TAKEN ON THE SUBGRADE MATERIAL (WHEN A FULL DEPTH SECTION IS PROPOSED) OR ON THE SUBGRADE AND BASE MATERIAL (WHEN A COMPOSITE SECTION IS PROPOSED), A MECHANICAL "PROOF ROLL" WILL BE REQUIRED. THE ENTIRE SUBGRADE AND/OR BASE MATERIAL SHALL BE ROLLED WITH A HEAVILY LOADED VEHICLE HAVING A TOTAL GVW OF NOT LESS THAN 50,000 LBS. AND A SINGLE AXLE WEIGHT OF AT LEAST 18,000 LBS. WITH PNEUMATIC TIRES INFLATED TO NOT LESS THAT 90 P.S.I.G. "PROOF ROLL" VEHICLES SHALL NOT TRAVEL AT SPEEDS GREATER THAN 3 M.P.H. ANY PORTION OF THE SUBGRADE OR BASE MATERIAL WHICH EXHIBITS EXCESSIVE PUMPING OR DEFORMATION, AS DETERMINED BY THE ENGINEER, SHALL BE REWORKED, REPLACED OR OTHERWISE MODIFIED TO FORM A SMOOTH, NON-YIELDING SURFACE. THE ENGINEER SHALL BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE "PROOF ROLL." ALL "PROOF ROLLS" SHALL BE PREFORMED IN THE PRESENCE OF AN ENGINEER.
71. NO UNDERMINING OF EXISTING PAVEMENT SHALL BE ALLOWED. IF UNDERMINING IS EVIDENT, PAVEMENT SHALL BE CUT BACK ACCORDINGLY. NO ADDITIONAL PAYMENT SHALL BE PROVIDED.

D. WATER AND SEWER NOTES

72. ALL WATER AND SEWER CONSTRUCTION SHALL BE PER MT. WERNER WATER WATER & SEWER STANDARD SPECIFICATIONS, LATEST EDITION, AS APPLICABLE.
73. THE PARTICLE SIZE OF BEDDING AND SHADING MATERIAL SHALL BE 3/4 INCH WASHED OR SCREENED ROCK (NOT ROAD BASE OR CLASS 6) AND SHALL EXTEND THE FULL WIDTH OF THE TRENCH.
74. ALL MATERIALS USED FOR BACKFILL SHALL BE FREE FROM REFUSE ORGANIC MATERIAL, COBBLES, BOULDERS, LARGE ROCKS OR STONES OR FROZEN SOILS GREATER THAN 6-INCHES IN DIAMETER.

PROJECT NOTES:

75. AN AUTOCAD COMPATIBLE FILE WILL BE PROVIDED FOR CONSTRUCTION STAKING PURPOSES, UPON ACCEPTANCE OF LANDMARK'S CAD RELEASE POLICY.
76. IF THESE DRAWINGS ARE PRESENTED IN A FORMAT OTHER THAN 24" X 36", THE GRAPHIC SCALE SHOULD NOT BE USED.
77. THE CONTRACTOR ACKNOWLEDGES AND UNDERSTANDS THAT THE CONTRACT DOCUMENTS MAY REPRESENT IMPERFECT DATA AND MAY CONTAIN ERRORS, OMISSIONS, CONFLICTS, INCONSISTENCIES, CODE VIOLATIONS AND IMPROPER USE OF MATERIALS. SUCH DEFICIENCIES WILL BE CORRECTED WHEN IDENTIFIED. THE CONTRACTOR AGREES TO CAREFULLY STUDY AND COMPARE THE INDIVIDUAL CONTRACT DOCUMENTS AND REPORT AT ONCE IN WRITING T THE OWNER ANY DEFICIENCIES THE CONTRACTOR MAY DISCOVER. THE CONTRACTOR FURTHER AGREES TO REQUIRE EACH SUBCONTRACTOR TO LIKEWISE STUDY THE DOCUMENTS AND REPORT AT ONCE ANY DEFICIENCIES DISCOVERED.
78. THE CONTRACTOR SHALL RESOLVE ALL REPORTED APPLICABLE DEFICIENCIES WITH LANDMARK PRIOR TO AWARDING ANY SUBCONTRACTS OR STARTING ANY WORK WITH THE CONTRACTOR'S OWN EMPLOYEES. IF ANY DEFICIENCIES CANNOT BE RESOLVED BY THE CONTRACTOR WITHOUT ADDITIONAL TIME OR ADDITIONAL EXPENSES, THE CONTRACTOR SHALL SO INFORM THE OWNER IN WRITING. ANY SUCH ADDITIONAL WORK PERFORMED PRIOR TO RECEIPT OF INSTRUCTIONS FROM THE OWNER WILL BE DONE AT THE CONTRACTOR'S RISK.

CONSTRUCTION PHASE SERVICES:

IT IS UNDERSTOOD AND AGREED THAT LANDMARK DOES NOT HAVE AN OBLIGATION TO CONDUCT CONSTRUCTION OBSERVATION OR REVIEW OF THE CONTRACTOR'S PERFORMANCE OR ANY OTHER CONSTRUCTION PHASE SERVICES, AND THAT SUCH SERVICES WILL BE PROVIDED FOR BY THE OWNER AS MAY BE REQUIRED BY THE CITY OF STEAMBOAT SPRINGS. THE OWNER ASSUMES ALL RESPONSIBILITY FOR INTERPRETATION OF THESE CONSTRUCTION DOCUMENTS AND FOR CONSTRUCTION OBSERVATION AND THE OWNER WAIVES ANY CLAIMS AGAINST LANDMARK THAT MAY BE IN ANY WAY CONNECTED THERETO.

IN ADDITION, THE OWNER AGREES, TO THE FULLEST EXTENT PERMITTED BY LAW, TO INDEMNIFY AND HOLD HARMLESS LANDMARK, ITS OFFICERS, DIRECTORS, EMPLOYEES AND SUBCONSULTANTS (COLLECTIVELY, LANDMARK) AGAINST ALL DAMAGES, LIABILITIES OR COSTS, INCLUDING REASONABLE ATTORNEYS' FEES AND DEFENSE COSTS, ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE PERFORMANCE OF SUCH SERVICES BY OTHER PERSONS OR ENTITIES AND FROM ANY AND ALL CLAIMS ARISING FROM MODIFICATIONS, CLARIFICATIONS, INTERPRETATIONS, ADJUSTMENTS OR CHANGES MADE TO THESE CONSTRUCTION DOCUMENTS TO REFLECT CHANGED FIELD OR OTHER CONDITIONS, EXCEPT FOR CLAIMS ARISING FROM THE SOLE NEGLIGENCE OR WILLFUL MISCONDUCT OF LANDMARK.

ABBREVIATIONS	
ADA	AMERICAN'S WITH DISABILITIES ACT
APR	APPROXIMATE
BMP	BEST MANAGEMENT PRACTICE
BOT	BOTTOM
BVCE	BEGIN VERTICAL CURVE ELEVATION
BVCS	BEGIN VERTICAL CURVE STATION
BW / BOW	BOTTOM OF WALL
C&C	CUT AND CAPPED
CAP	CORRUGATED ALUMINUM PIPE
CIP	CAST-IN-PLACE
CL	CENTER LINE
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
CP	CONCRETE PIPE
CSP	CORRUGATED STEEL PIPE
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
EG	EXISTING GROUND
EL	ELEVATION
EOA / EA	EDGE OF ASPHALT
EOC	EDGE OF CONCRETE
EOP	EDGE OF PAVEMENT
EVCE	END VERTICAL CURVE ELEVATION
EVCS	END VERTICAL CURVE STATION
EX	EXISTING
F&G	FRAME AND GRATE
F&C	FRAME AND COVER
FES	FLARED END SECTION
FFE	FINISH FLOOR ELEVATION
FH	FIRE HYDRANT
FL	FLOW LINE
FG	FINISH GRADE
FG@BW	FINISH GRADE AT BOTTOM OF WALL
GB	GRADE BREAK
GFFE	GARAGE FINISH FLOOR ELEVATION
GTD	GRADE TO DRAIN
HDPE	HIGH-DENSITY POLYETHYLENE PIPE
INV	INVERT
LBS	POUNDS
LOD	LIMITS OF DISTURBANCE
MAX	MECHANICAL, ELECTRICAL, AND PLUMBING
ME	MAXIMUM
MEP	MATCH EXISTING
MH	MANHOLE
MIN	MINIMUM
MJ	MECHANICAL JOINT
NAP	NOT A PART (NOT INCLUDED IN SCOPE)
NTS	NOT TO SCALE
OFF	OFFSET
PC	POINT OF CURVE
PI	POINT OF INTERSECTION
PCC	POINT OF CONCAVE CURVE
PLDP	POROUS LANDSCAPE DETENTION POND
PRC	POINT OF REVERSE CURVE
PT	POINT OF TANGENT
PVC	POINT OF VERTICAL CURVE / POLYVINYL CHLORIDE PIPE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENT
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
REQ	REQUIRED
ROW	RIGHT OF WAY
STA	STATION
TB	THRUST BLOCK
TBC	TOP BACK OF CURB
TBR	TO BE REMOVED
TG	TOP OF GRATE
TOP	TOP OF PIPE
TTG	TAPERED TO GRADE
TW / TOW	TOP OF WALL
TYP	TYPICAL
VCP	VITRIFIED CLAY PIPE
VOL	VOLUME
W/	WITH

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COLORADO LICENSED
MATTHEW CARL EGGEN
50740
12/15/23
PROFESSIONAL ENGINEER

NOT VALID WITHOUT ORIGINAL SIGNATURE AND DATE

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Reviewed for Code Compliance
04/01/2024

NO.	DATE:	BY:	DESCRIPTION:
1	02.08.2024	MCE	PERMIT COMMENT RESPONSE

PROJECT:	2571-001
DATE:	12/15/2023
CONTACT:	Matthew Eggen
EMAIL:	matte@landmark-co.com

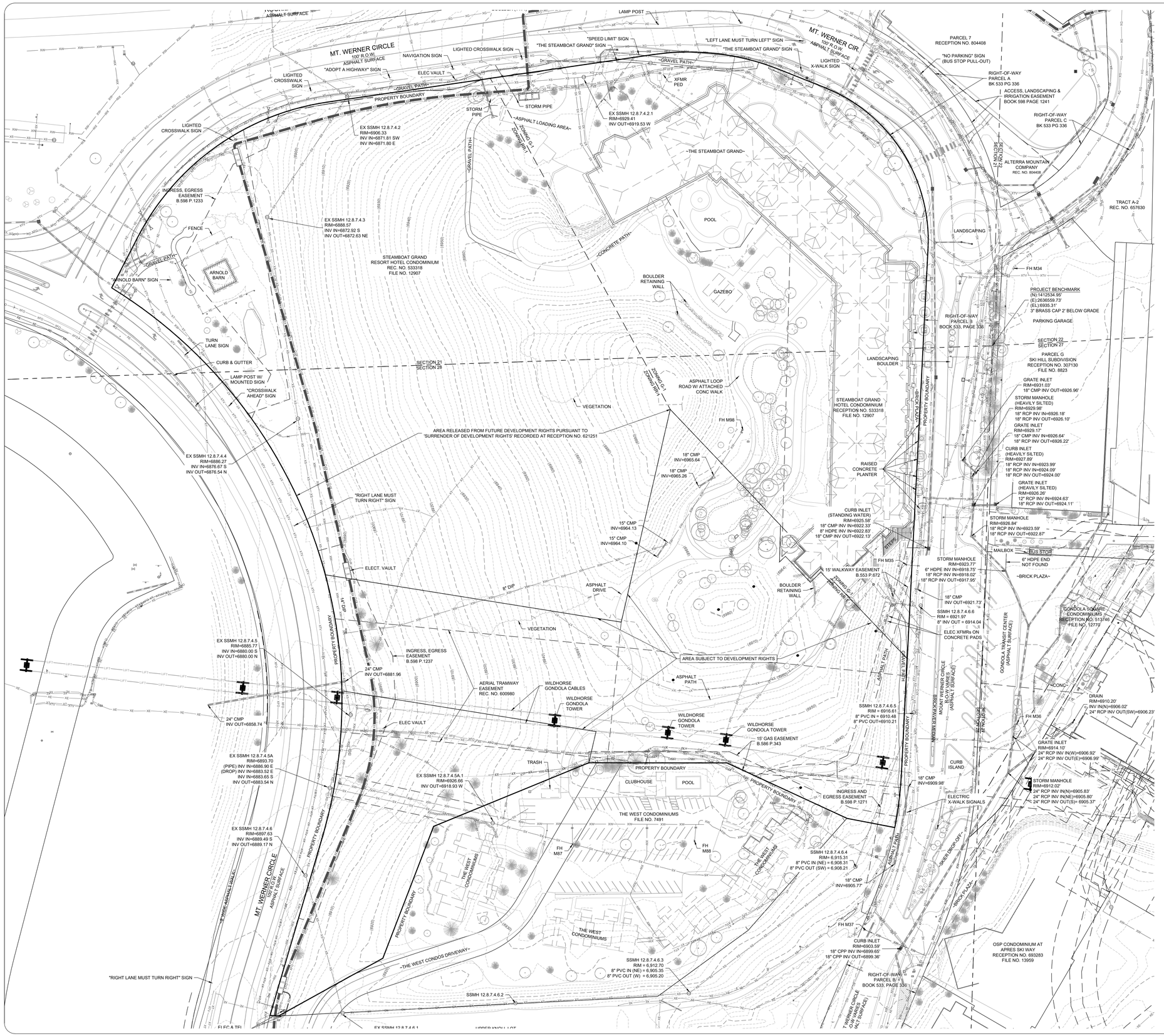
The Amble - Construction Drawings

CIVIL NOTES

SHEET

C.002

DRAWING FILENAME: P:\2571-001\DWGs\Production Drawings\DD 2.0\2571-001-C.002-DD 2.0-Civil Notes.dwg LAYOUT NAME: C.002 DATE: Feb 09, 2024 - 11:04am CAD OPERATOR: matthew
LIST OF XREFS: [xBORDER-CDs]



NORTH

60 0 60 120 180 Feet

(IN FEET)
1 inch = 60 ft.

LEGEND:

- MAJOR EX. CONTOUR (6800)
- ASPHALT
- CONCRETE
- GRAVEL
- SIGN
- SANITARY SEWER (XS)
- SANITARY SEWER MANHOLE AND CLEANOUT
- WATER LINE (XW)
- FIRE HYDRANT, GATE VALVE & CURB STOP
- GAS (XG)
- GAS METER AND MANHOLE/VAULT (GM)
- CABLE (XTV)
- CABLE PEDESTAL (TV)
- FIBER OPTIC (XFO)
- TELEPHONE (XT)
- TELEPHONE PEDESTAL AND MANHOLE/VAULT (T)
- ELECTRIC (XE)
- ELECTRIC PED, JUNCTION BOX AND METER (A) (EJ) (EM)
- LIGHT POLE AND LIGHT POLE W/ MAST
- OVERHEAD (XOH)
- UTILITY POLE AND GUY WIRE
- CULVERT W/ END SECTIONS
- INLET AND STORM MANHOLE (ST)
- CONIFEROUS AND DECIDUOUS TREE
- EX. SLOPES EXCEEDING 30%

1. BASIS OF BEARINGS: THE NORTH LINE OF THE NE1/4 SECTION 28, BEING MONUMENTED AS SHOWN HEREON AND BEARING S88°02'29"E BASED ON NAD83(2011) COLORADO NORTH ZONE COORDINATE SYSTEM.
2. THIS LAND SURVEY DOES NOT CONSTITUTE A TITLE SEARCH BY LANDMARK CONSULTANTS, INC. TO DETERMINE OWNERSHIP OF THIS TRACT, VERIFY THE DESCRIPTIONS SHOWN, VERIFY THE COMPATIBILITY OF THIS DESCRIPTION WITH THAT OF ADJACENT TRACTS, OR VERIFY EASEMENTS OF RECORD. FIDELITY NATIONAL TITLE INSURANCE COMPANY ISSUING OFFICE FILE NO. 100-N0037397-020-JY DATED MARCH 10, 2022 WAS RELIED UPON TO DETERMINE OWNERSHIP AND EASEMENTS OF RECORD SHOWN ON THIS IMPROVEMENT SURVEY PLAT.
3. THE MEASURED DISTANCES SHOWN HEREON ARE IN U.S. SURVEY FEET.
4. THE SUBJECT PROPERTY IS LOCATED WITHIN ZONE X, "AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD" AS DETERMINED BY THE F.E.MA. FLOOD INSURANCE RATE MAP NUMBER 08107C0883D, WITH AN EFFECTIVE DATE OF FEBRUARY 4, 2005.
5. BURIED UTILITIES AND/OR PIPE LINES ARE SHOWN PER VISIBLE AND APPARENT SURFACE EVIDENCE. IF MORE ACCURATE LOCATIONS OF UNDERGROUND UTILITIES ARE REQUIRED, THE UTILITY WILL HAVE TO BE VERIFIED BY FIELD POTHOLING. LANDMARK CONSULTANTS, INC. AND THE SURVEYOR OF RECORD SHALL NOT BE LIABLE FOR THE LOCATION OF OR THE FAILURE TO NOTE THE LOCATION OF NON-VISIBLE UTILITIES.
6. ALL REFERENCES HEREON TO BOOKS, PAGES, FILES AND RECEPTION NUMBERS ARE TO PUBLIC DOCUMENTS FILED IN THE RECORDS OF ROUTT COUNTY, COLORADO.
7. THE SUBJECT PROPERTY CONTAINS A CALCULATED AREA OF 19.96 ACRES.
8. POSTED ADDRESS: 2300 MOUNT WERNER CIRCLE
9. VERTICAL DATUM: THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
10. CONTOUR INTERVAL = 2 FOOT

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COLORADO LICENSED MATTHEW CARL EGGEN 50740 PROFESSIONAL ENGINEER
2/15/24
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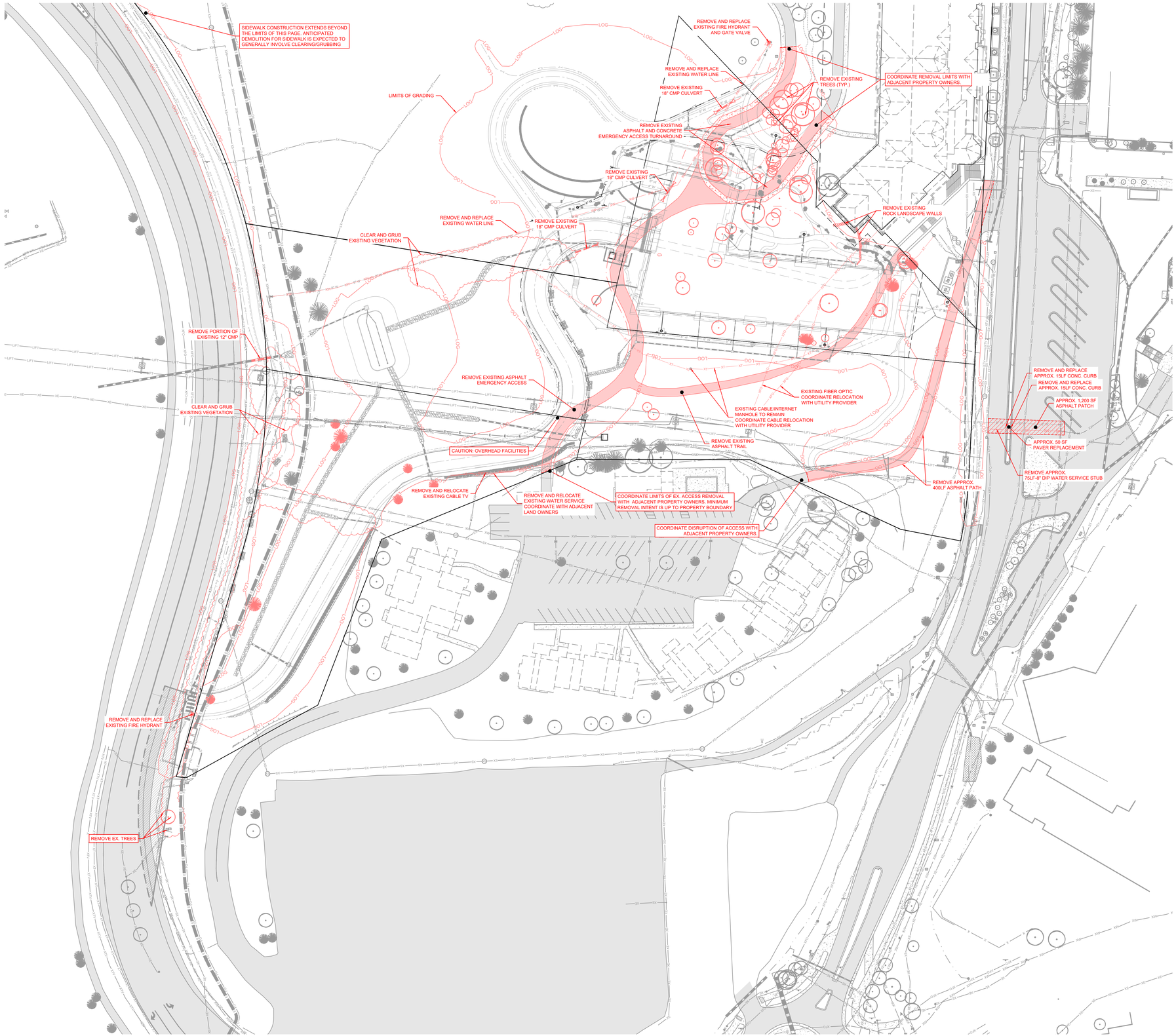
NO.	DATE:	BY:	DESCRIPTION:
1	02.09.2024	MCE	PERMIT COMMENT RESPONSE

PROJECT:	2571-001
DATE:	12/15/2023
CONTACT:	Matthew Eggen
EMAIL:	matte@landmark-co.com

The Amble - Construction Drawings
Existing Conditions Map

SHEET
C.003

DRAWING FILENAME: P:\2571-001\Work\Production Drawings\PDS 2.1\2571-001 C-SDS-DG 2.6 Existing Conditions.dwg LAYOUT NAME: C.003 DATE: Feb 09, 2024 - 11:56am CAD OPERATOR: matthew
LIST OF XREFS: (2571-001.dwg) (2571-001-Survey Data.dwg) (2571-001-Survey Data.dwg) (2571-001-xbase.dwg) (2571-001-xbase-PS.pltbl) [_adp] (MEMBERS.CTB)



NORTH

50 0 50 100 150 Feet

(IN FEET)
1 inch = 50 ft.

EXISTING CONDITIONS LEGEND:

- PROPERTY BOUNDARY
- ADJACENT PROPERTY BOUNDARY
- EASEMENT
- SECTION LINE
- CENTERLINE
- PROPERTY MONUMENT
- SECTION CORNER
- BUILDING
- LIMITS OF GRADING
- FENCE
- ASPHALT
- REMOVE ASPHALT
- CONCRETE
- REMOVE CONCRETE
- GRAVEL/SAND
- REMOVE/REPLACE
- SIGN
- SANITARY SEWER LINE MARKER MANHOLE AND CLEANOUT
- WATER LINE, FIRE HYDRANT GATE VALVE, CURB STOP & METER
- REMOVE WATER LINE, FIRE HYDRANT, GATE VALVE
- FIRE DEPT. CONNECTION, YARD HYDRANT, VENT PIPE, WATER MANHOLE AND WELL
- GAS LINE MARKER, VALVE, MANHOLE/VAULT, METER AND SHUTOFF
- CABLE LINE MARKER, VAULT AND PEDESTAL
- DUCT BANK
- FIBER OPTIC LINE MARKER, VAULT & PEDESTAL
- REMOVE FIBER OPTIC LINE MARKER, VAULT & PEDESTAL
- TELEPHONE LINE MARKER, VAULT, PEDESTAL AND MANHOLE
- REMOVE TELEPHONE LINE MARKER, VAULT, PEDESTAL AND MANHOLE
- ELECTRIC LINE MARKER, TRANSFORMER, METER AND SECONDARY PEDESTAL
- ELECTRIC MANHOLE, OUTLET, GENERATOR AND JUNCTION BOX
- LIGHT POLE, STREET LIGHT, TRAFFIC SIGNAL TRAFFIC CONTROL VAULT AND CABINET
- OVERHEAD UTILITY LINE GUY POLE, UTILITY POLE & GUY WIRE
- EXISTING IRRIGATION AND VALVE BOX
- REMOVE EXISTING IRRIGATION VALVE BOX
- DITCH/SWALE
- CULVERT W/ END SECTIONS
- STORM MANHOLE, MANHOLE INLET, GRATE INLET AND CURB INLET
- REMOVE EXISTING CULVERT AND STRUCTURES
- AIR CONDITIONER, MAILBOX, NEWSTAND, TRASH CAN, MISC. MANHOLE
- BOLLARD, BOLLARD W/LIGHT FLAG POLE AND DELINEATOR
- CONIFEROUS AND DECIDUOUS TREE (SCALED TO APPROXIMATE DRIPLINE)
- CONIFEROUS AND DECIDUOUS SHRUB (SCALED TO APPROXIMATE DRIPLINE)
- REMOVE CONIFEROUS AND DECIDUOUS TREE
- REMOVE CONIFEROUS AND DECIDUOUS SHRUB

DEMOLITION NOTES:

1. THE SIZE, TYPE AND LOCATION OF ALL KNOWN UNDERGROUND UTILITIES ARE APPROXIMATE WHEN SHOWN ON THESE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO VERIFY THE EXISTENCE OF ALL UNDERGROUND UTILITIES IN THE AREA OF THE WORK. BEFORE COMMENCING NEW CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR FOR ALL UNKNOWN UNDERGROUND UTILITIES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING DEMOLITION REMOVAL, REPLACEMENT, AND DISPOSAL OF ALL FACILITIES AND MATERIALS.
3. CONTRACTOR IS ENCOUGARED TO PERFORM DEMOLITION IN A MANNER THAT MAXIMIZED SALVAGE, RE-USE, AND RECYCLING OF MATERIALS. THIS INCLUDES APPROPRIATE SORTING AND STORING. IN PARTICULAR DEMOLISHED CONCRETE, ASPHALT, AND BASE COURSE SHOULD BE RECYCLED IF POSSIBLE.
4. LIMITS OF STREET CUT ARE APPROXIMATE. FINAL LIMITS ARE TO BE DETERMINED IN THE FIELD BY THE CITY ENGINEER. ALL REPAIRS TO BE IN ACCORDANCE WITH CITY STREET REPAIR STANDARDS.
5. MILL AND OVERLAY OF STREET CUT AREAS MAY BE REQUIRED. CONTACT CITY ENGINEER FOR DETERMINATION.
6. CONTRACTOR SHALL COORDINATE SITE DEMOLITION OPERATIONS WITH ALL OTHER TRADES PERFORMING WORK ON THE PROJECT.
7. CONTRACTOR SHALL REPLACE, REPAIR AND/OR RESTORE TO ORIGINAL CONDITION, ALL BUILDINGS AND SITE IMPROVEMENTS, NOT DESIGNATED FOR REMOVAL, THAT ARE DAMAGED AS A RESULT OF CONSTRUCTION OPERATIONS, AT NO ADDITIONAL COST TO OWNER. IF UTILITIES ARE DAMAGED, CONTRACTOR SHALL VERIFY REPLACEMENT REQUIREMENTS WITH UTILITY PROVIDERS AND ARRANGE FOR IMMEDIATE REPAIR.
8. QUANTITIES SHOWN ON DRAWINGS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD.

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COLORADO LICENSED MATTHEW CARL EGGEN 50740 PROFESSIONAL ENGINEER 12/15/23

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NO.	DATE:	BY:	DESCRIPTION:
1	02.08.2024	MCE	PERMIT COMMENT RESPONSE

PROJECT:	2571-001
DATE:	12/15/2023
CONTACT:	Matthew Eggen
EMAIL:	matte@landmark-co.com

The Amble - Construction Drawings

Demolition Plan

SHEET

C.020

DRAWING FILENAME: P:\2571-001\Work\Production Drawings\02-2.2\2571-001-C.020.02-2.2-Demo Plan.dwg LAYOUT NAME: C.020 DATE: Feb 08, 2024 - 11:04am CAD OPERATOR: matthew
LIST OF XREFS: 2571-001-xBaseSheet(2571-001-xBaseSite.dwg);(ABOVEGROUND%20(2571-001-xUtilPlan)(2571-001-xSiteSP)(2571-001-xSite-SP)(ABOVE_Log)(2571-001-xHatch-Ext)(2571-001-xPlat-RP)

NORTH

30 0 30 60 90 Feet

(IN FEET)
1 inch = 30 ft.

LEGEND:

- PROPERTY BOUNDARY
- TIE
- CONTROL POINT
- BENCHMARK
- GRID LINE (BY OTHERS)

NOTES:

1. ALL REFERENCES HEREON TO BOOKS, PAGES, FILES, RECEPTION NUMBERS AND FILE NUMBERS ARE TO PUBLIC DOCUMENTS FILED IN THE RECORDS OF ROUTT COUNTY, COLORADO.
2. COORDINATES AND BEARINGS SHOWN HEREON ARE COLORADO COORDINATE SYSTEM, NORTH ZONE 0501, US SURVEY FEET, NAD83(2011)
3. THE POSITION AND ALIGNMENT OF THE GRIDLINES SHOWN HEREON **MUST** BE COORDINATED WITH THE LIFT MANUFACTURER IN THE FIELD PRIOR TO CONSTRUCTION.

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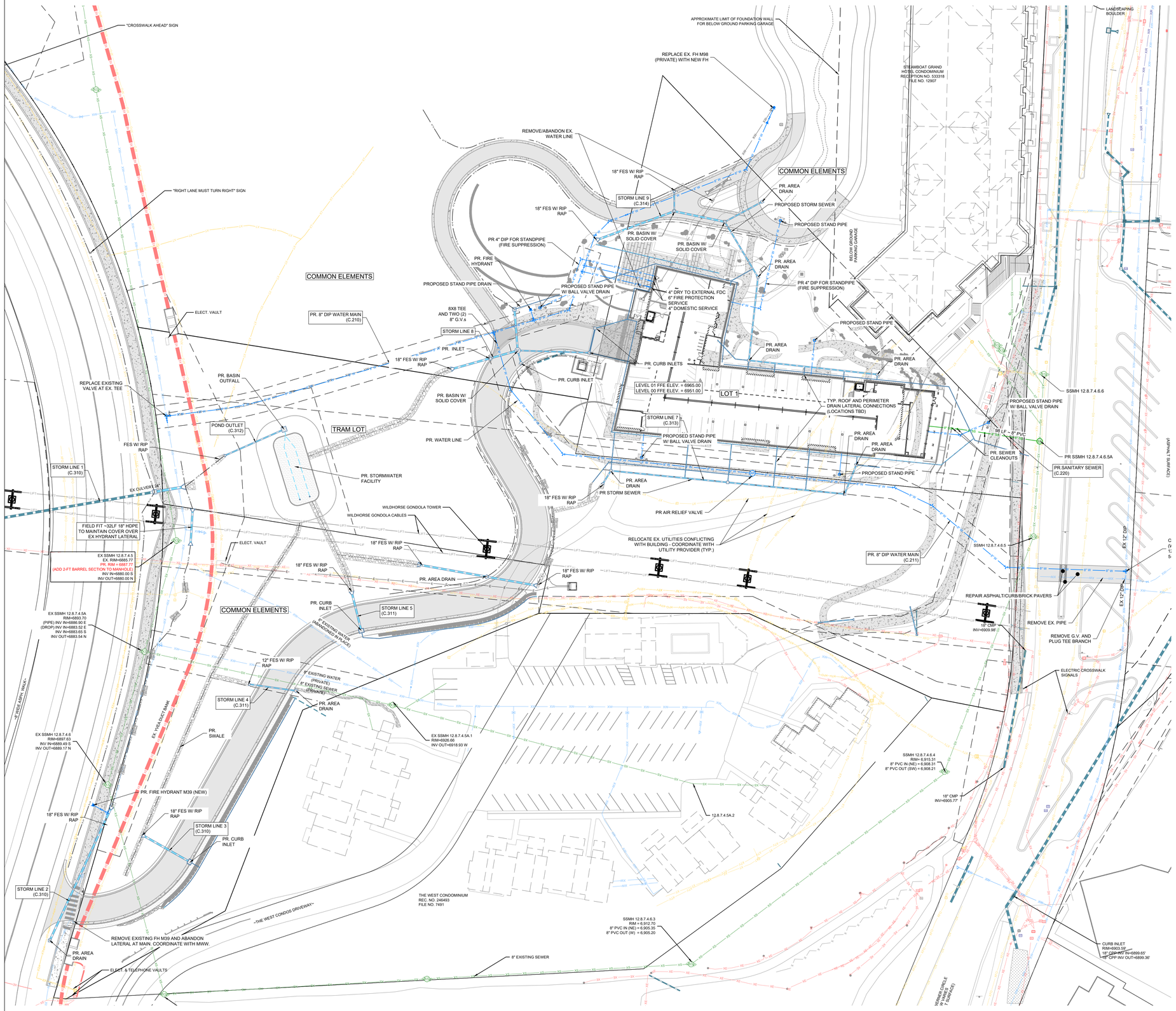
PROJECT:	2517-001
DATE:	12/15/2023
CONTACT:	Matthew Eggen
EMAIL:	matte@landmark-co.com

The Amble - Construction Drawings

Horizontal Control Plan

SHEET
C.110

DRAWING FILENAME: P:\2517-001\Work\Production Drawings\SD\2.2\SDT1-001-C-110-SD2.2-Horizontal Control Plan.dwg LAYOUT NAME: C.110 DATE: Feb 09, 2024 - 11:56am CAD OPERATOR: matthew
LIST OF XREFS: 2517-001-xBase.dwt|2517-001-xData.PPT|ACAD|ESRI.CSA|2517-001-xPlat.PPT|2517-001-xUtility Drawings|2517-001-xBaseElements|Arbor Comm2.mdl



NORTH

40 0 40 80 120 Feet

(IN FEET)
1 inch = 40 ft.

LEGEND:

- PR. SANITARY SEWER AND PIPE SIZE W/ MH & C.O.
- EX. SANITARY SEWER W/ MH & C.O.
- PR. WATER AND PIPE SIZE
- PR. GV, FH & CS
- PR. AIR RELIEF VALVE
- EX. WATER
- EX. ASPHALT
- PR. ASPHALT
- CONCRETE
- SIGN
- EX. GAS
- EX. GAS METER AND MANHOLE/VAULT
- EX. CABLE
- EX. CABLE PEDESTAL
- EX. FIBER OPTIC
- EX. TELEPHONE
- EX. TELEPHONE PEDESTAL AND MANHOLE/VAULT
- EX. ELECTRIC
- EX. ELECTRIC PED, JUNCTION BOX AND METER
- EX. LIGHT POLE AND LIGHT POLE W/ MAST
- EX. OVERHEAD
- UTILITY POLE AND GUY WIRE
- PR. CULVERT OR STORM PIPE W/ END SECTIONS
- PR. INLET AND STORM MANHOLE
- EX. CULVERT OR STORM PIPE W/ END SECTIONS
- EX. INLET AND STORM MANHOLE
- CONIFEROUS AND DECIDUOUS TREE

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CALL UTILITY NOTIFICATION CENTER OF COLORADO

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Reviewed for Code Compliance

04/01/2024

NO.	DATE:	BY:	DESCRIPTION:
1	02.08.2024	MCE	PERMIT COMMENT RESPONSE

PROJECT:	2571-001
DATE:	12/15/2023
CONTACT:	Matthew Eggen
EMAIL:	matte@landmark-co.com

The Amble - Construction Drawings

Civil Utility Plan

SHEET

C.200

DRAWING FILENAME: P:\2571-001\05\Production Drawings\02-25\2571-001-C.200.02-25-2.dwg LAYOUT NAME: C.200 DATE: Feb 26, 2024 - 11:04am CAD OPERATOR: matthew
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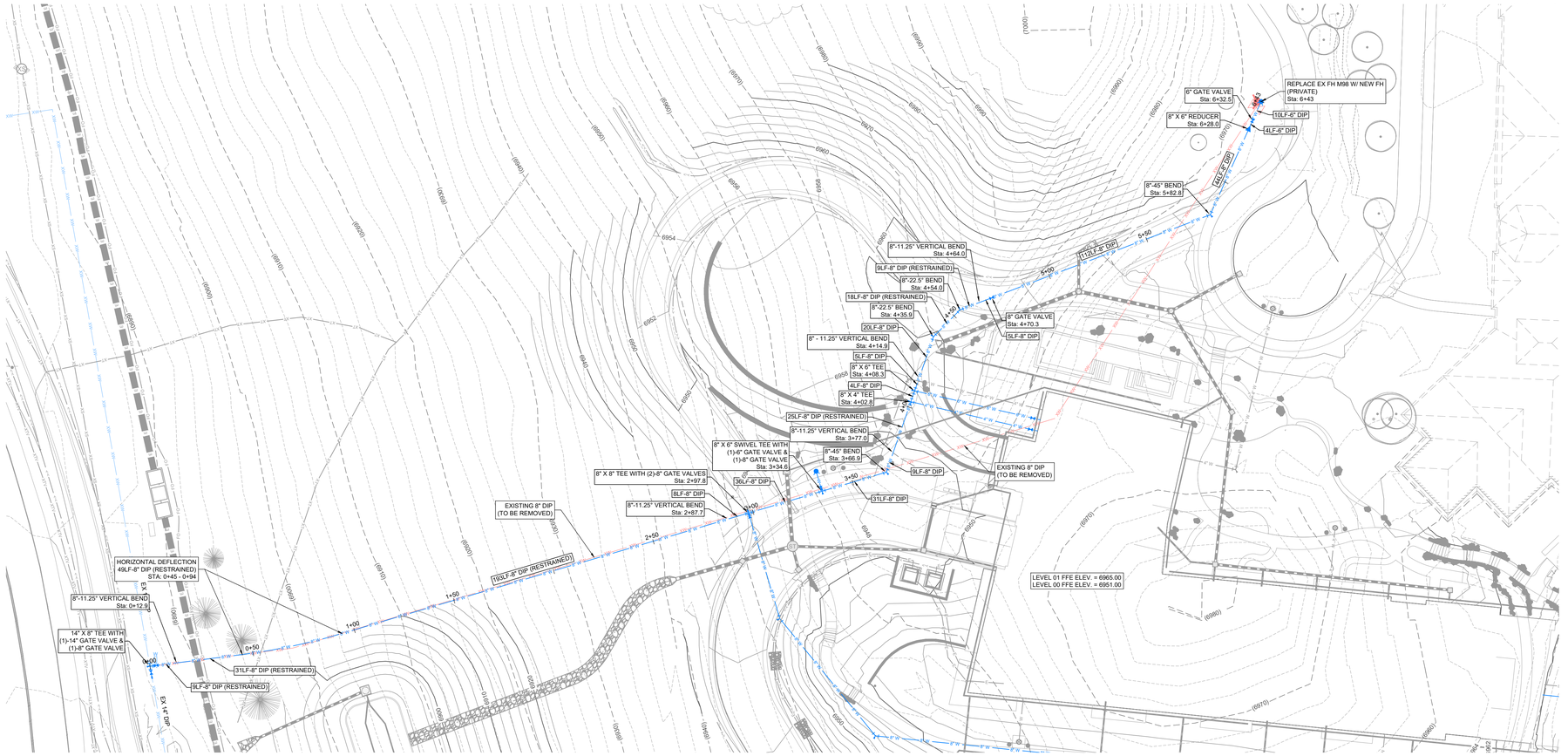
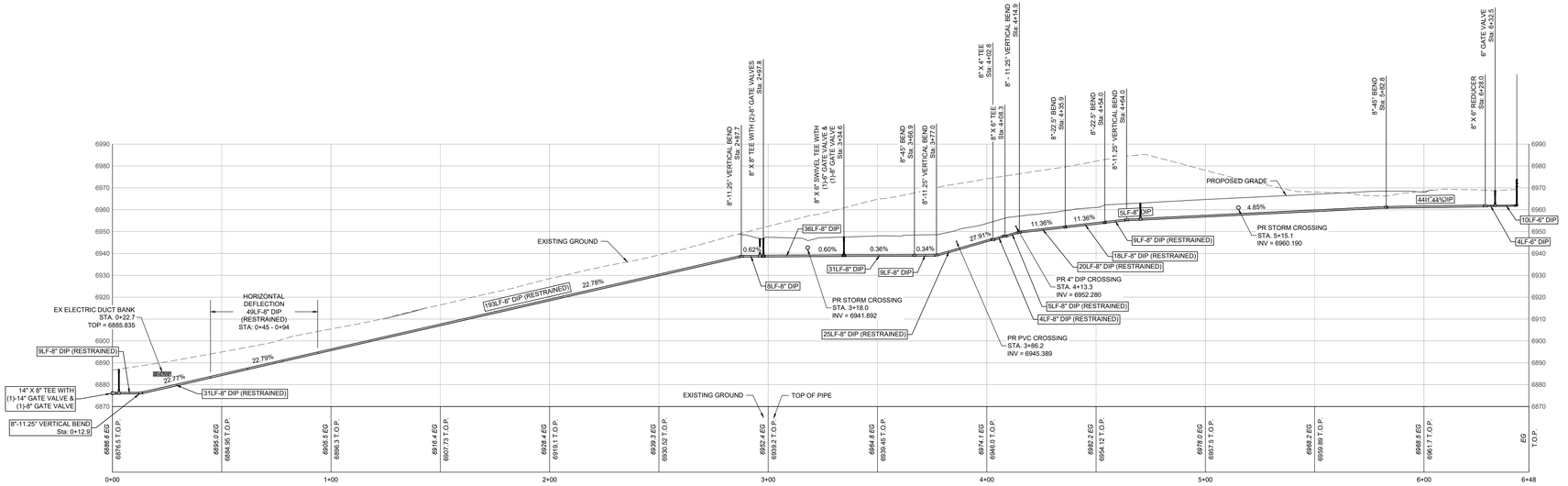


WATER MAIN PLAN & PROFILE
MOUNT WERNER CIRCLE TO GRAND FIRE HYDRANT - Sta: 0+00 - 6+43



NORTH

30 0 30 60 90 Feet

(IN FEET)
1 inch = 30 ft.

LEGEND:

- PR. SANITARY SEWER AND PIPE SIZE W/ MH & C.O.
- EX. SANITARY SEWER W/ MH & C.O.
- PR. WATER AND PIPE SIZE
- PR. GV, FH & CS
- PR. AIR RELIEF VALVE
- EX. WATER
- EX. ASPHALT
- PR. ASPHALT
- CONCRETE
- SIGN
- EX. GAS
- EX. GAS METER AND MANHOLE/VAULT
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COLORADO LICENSED
MATTHEW CARL EGGEN
50740
PROFESSIONAL ENGINEER
12/15/23
NOT VALID WITHOUT ORIGINAL SIGNATURE AND DATE

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Reviewed for Code Compliance
04/01/2024

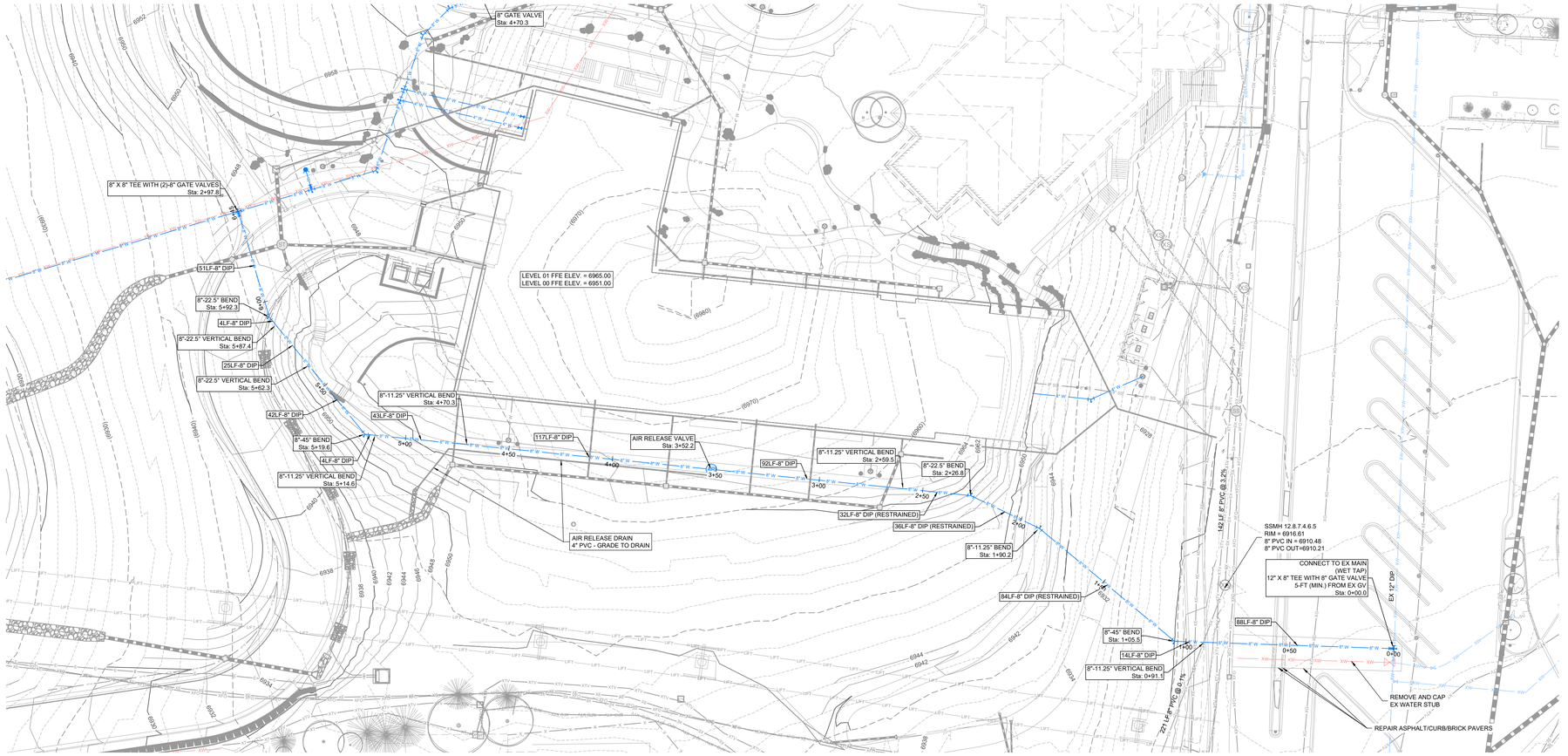
NO.	DATE:	BY:	DESCRIPTION:
1	02.08.2024	MCE	PERMIT COMMENT RESPONSE

PROJECT: 2571-001
DATE: 12/15/2023
CONTACT: Matthew Eggen
EMAIL: matte@landmark-co.com

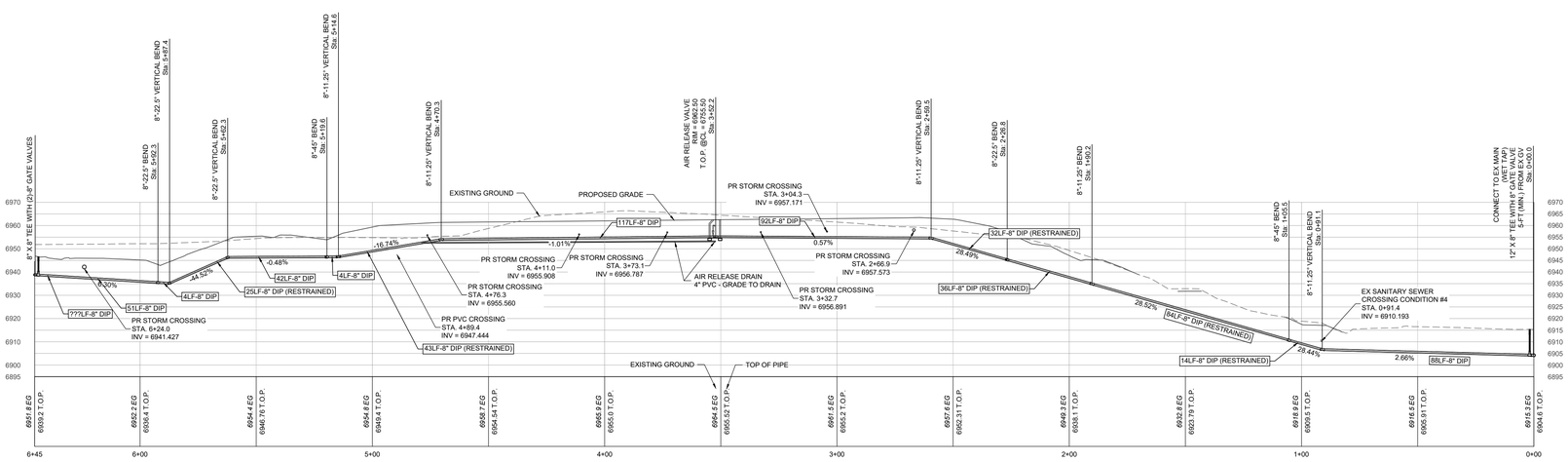
The Amble - Construction Drawings
Water Main Plan & Profile
Mount Werner Circle to Grand Fire Hydrant

SHEET
C.210

DRAWING FILENAME: P:\2571-001\00\pw\Production Drawings\02 2-25\2571-001 C 210 02-2-3 Water Main Plan & Profile.dwg LAYOUT NAME: C.210 DATE: Feb 08, 2024 - 11:05am CAD OPERATOR: matthew
LIST OF XREFS: 2571-001-xBase.dwg,2571-001-xBaseSheet.dwg,2571-001-xBasePP.dwg,2571-001-xBaseTB.dwg,2571-001-xLine.dwg,2571-001-xLineTB.dwg,2571-001-xLineTBHDR.dwg,2571-001-xLineTBHDR_Flag.dwg,2571-001-xModels.PP2,pdfDWGBACK.dwg



WATER MAIN PLAN & PROFILE
GTC TO ACCESS DRIVE - Sta: 0+00 - 6+45



LEGEND:

- PR. SANITARY SEWER AND PIPE SIZE W/ MH & C.O.
- EX. SANITARY SEWER W/ MH & C.O.
- PR. WATER AND PIPE SIZE
- PR. GV, FH & CS
- PR. AIR RELIEF VALVE
- EX. WATER
- EX. ASPHALT
- PR. ASPHALT
- CONCRETE
- SIGN
- EX. GAS
- EX. GAS METER AND MANHOLE/VAULT
- EX. CABLE
- EX. CABLE PEDESTAL
- EX. FIBER OPTIC
- EX. TELEPHONE
- EX. TELEPHONE PEDESTAL AND MANHOLE/VAULT
- EX. ELECTRIC
- EX. ELECTRIC PED, JUNCTION BOX AND METER
- EX. LIGHT POLE AND LIGHT POLE W/ MAST
- EX. OVERHEAD
- UTILITY POLE AND GUY WIRE
- PR. CULVERT OR STORM PIPE W/ END SECTIONS
- PR. INLET AND STORM MANHOLE
- EX. CULVERT OR STORM PIPE W/ END SECTIONS
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NORTH
30 0 30 60 90 Feet
(IN FEET)
1 inch = 30 ft.

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04/01/2024

NO.	DATE:	BY:	DESCRIPTION:
1	02.08.2024	MKE	PERMIT COMMENT RESPONSE

PROJECT:	2571-001
DATE:	12/15/2023
CONTACT:	Matthew Eigen
EMAIL:	matte@landmark-co.com

The Amble - Construction Drawings
Water Main Plan & Profile
Mount Werner Circle to Grand Fire Hydrant

SHEET
C.211

CALL UTILITY NOTIFICATION CENTER OF COLORADO
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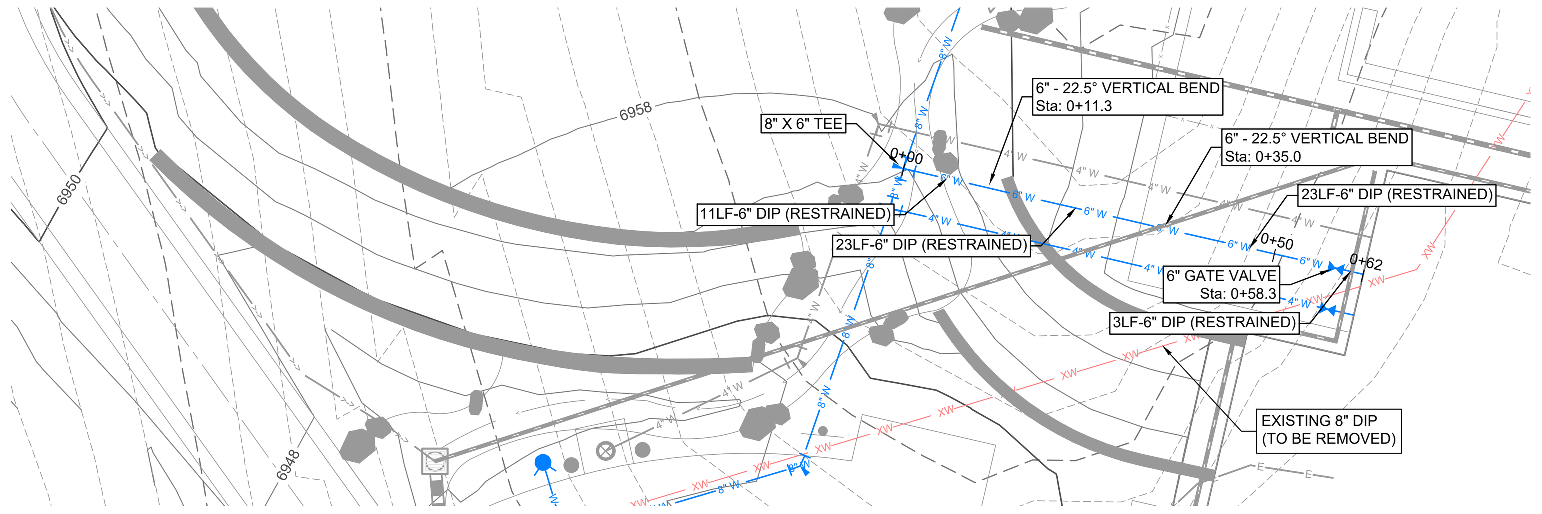
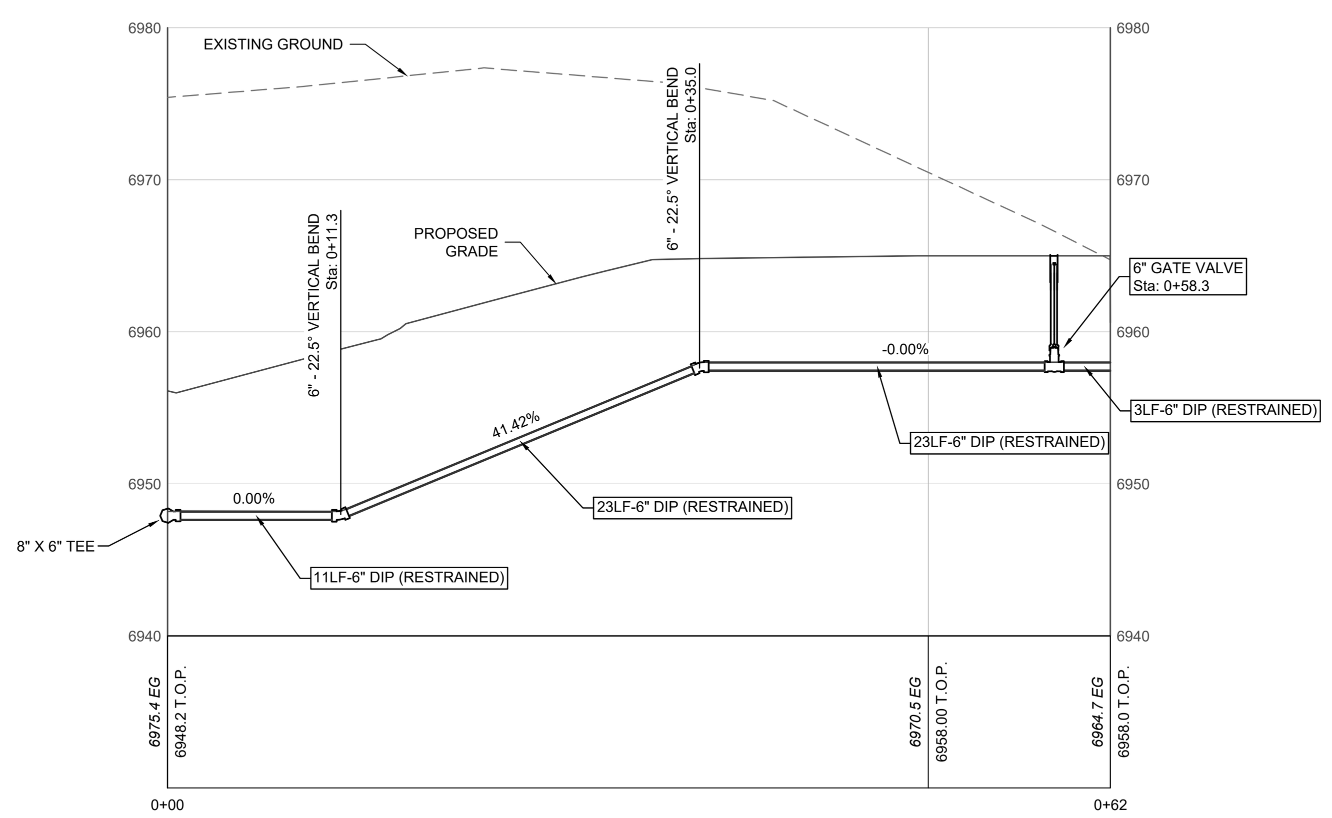
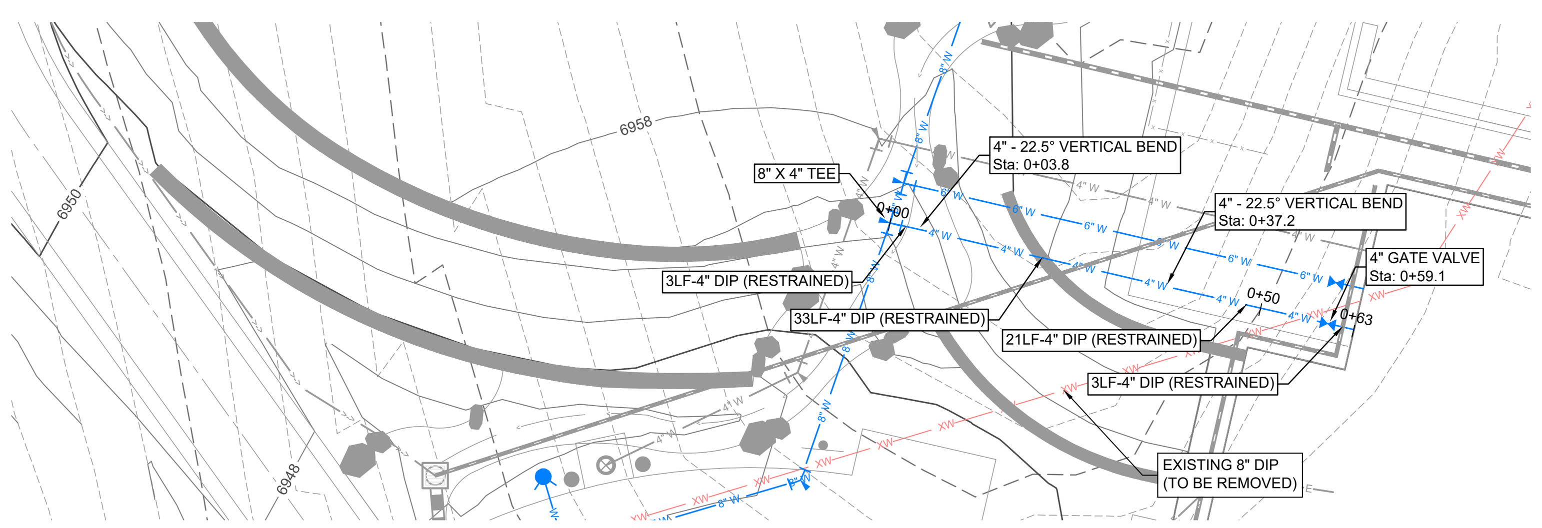
COLORADO LICENSED
MATTHEW CARL EIGEN
50740
PROFESSIONAL ENGINEER
12/15/23
NOT VALID WITHOUT ORIGINAL SIGNATURE AND DATE

DRAWING FILENAME: P:\2571-001\05\Plan\Production Drawings\SDS 2.2\2571-001 C 2 SDS 2.0 Water Main Plan & Profile.dwg LAYOUT NAME: C.211 DATE: Feb 09, 2024 - 11:56am CAD OPERATOR: matthew
LIST OF XREFS: (2571-001-x0-base-Data) (2571-001-x0-base-Ref) (2571-001-x0-ba-PPS) (2571-001-x0-ba-PP) (2571-001-x0-ba-Sht) (2571-001-x0-base-Plt) (2571-001-x0-ba-PP1) (2571-001-x0-SDS) [cirfs_1.dwg] (2571-001-x0-ba-PP1) (xBORDER-C2x2)

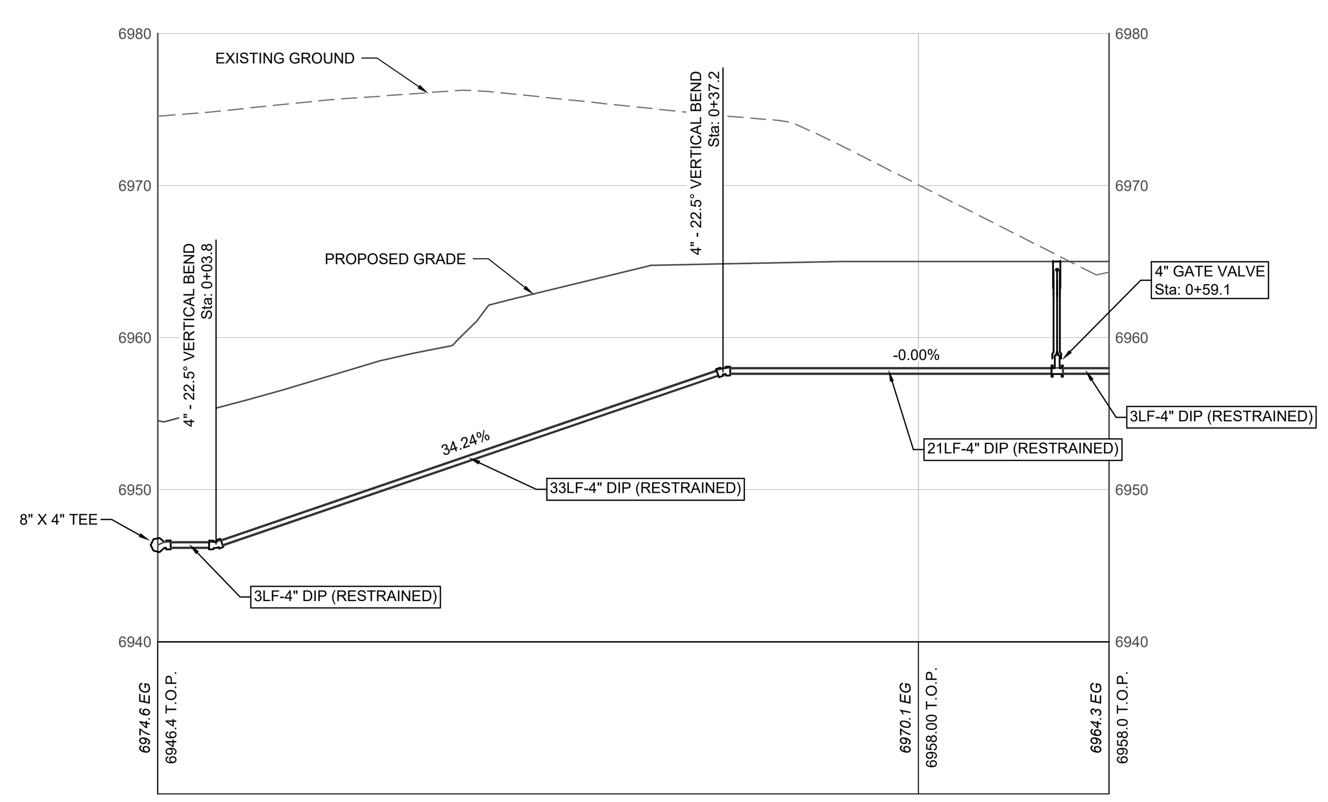


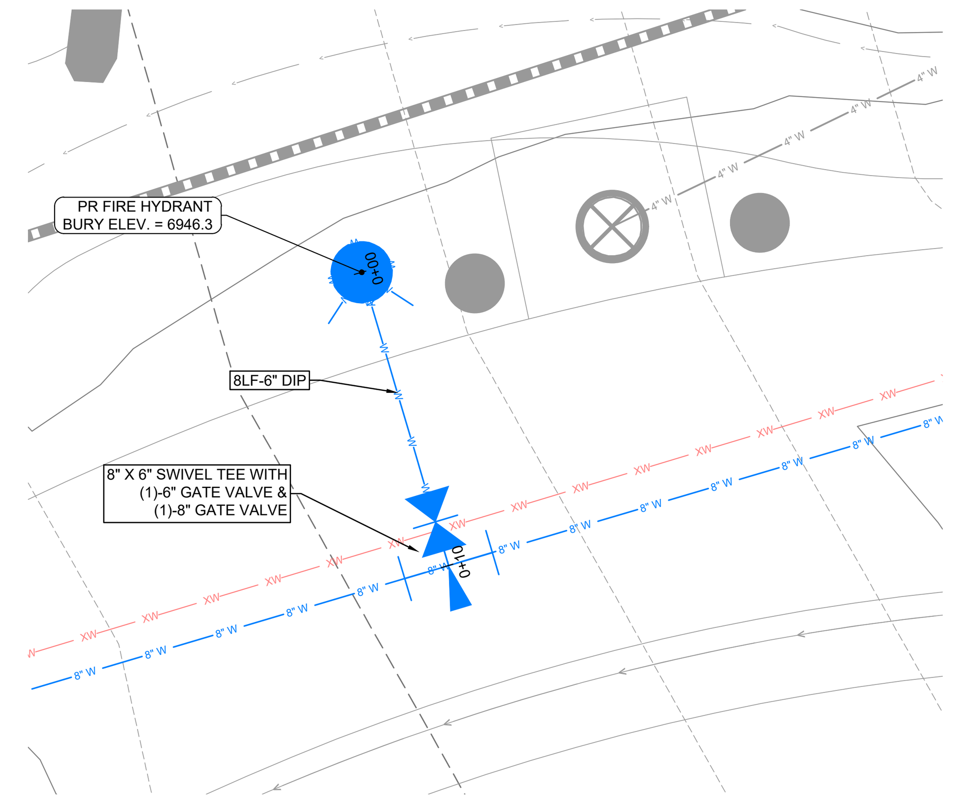
WATER PLAN & PROFILE
AMBLE WATER SERVICE - Sta: 0+00 - 1+78



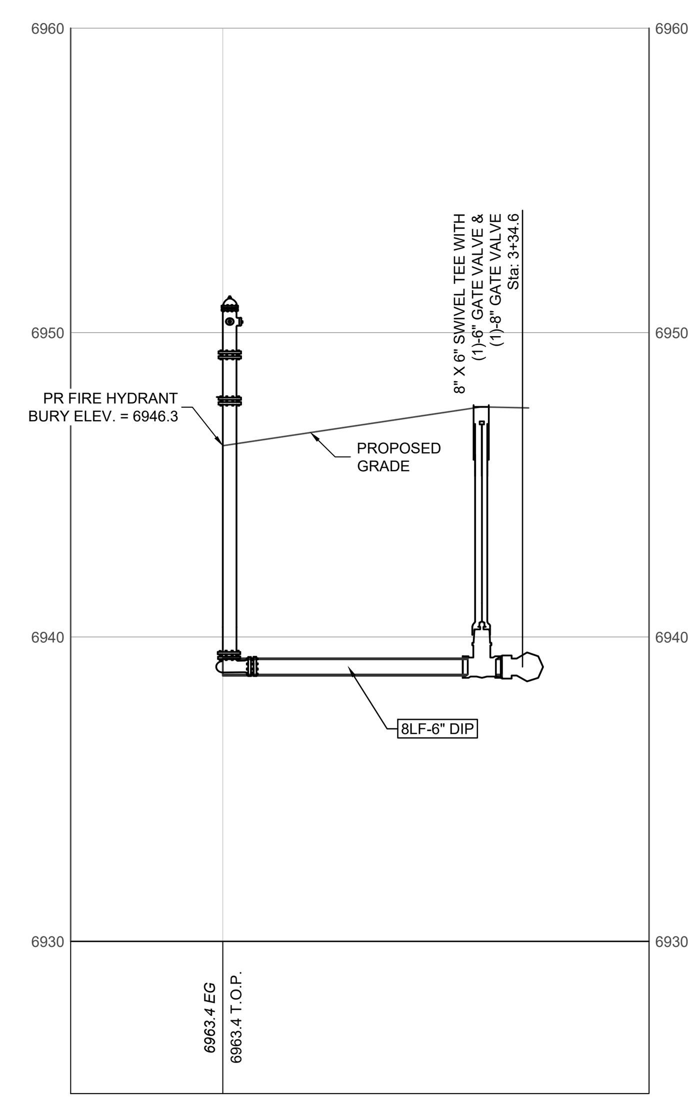


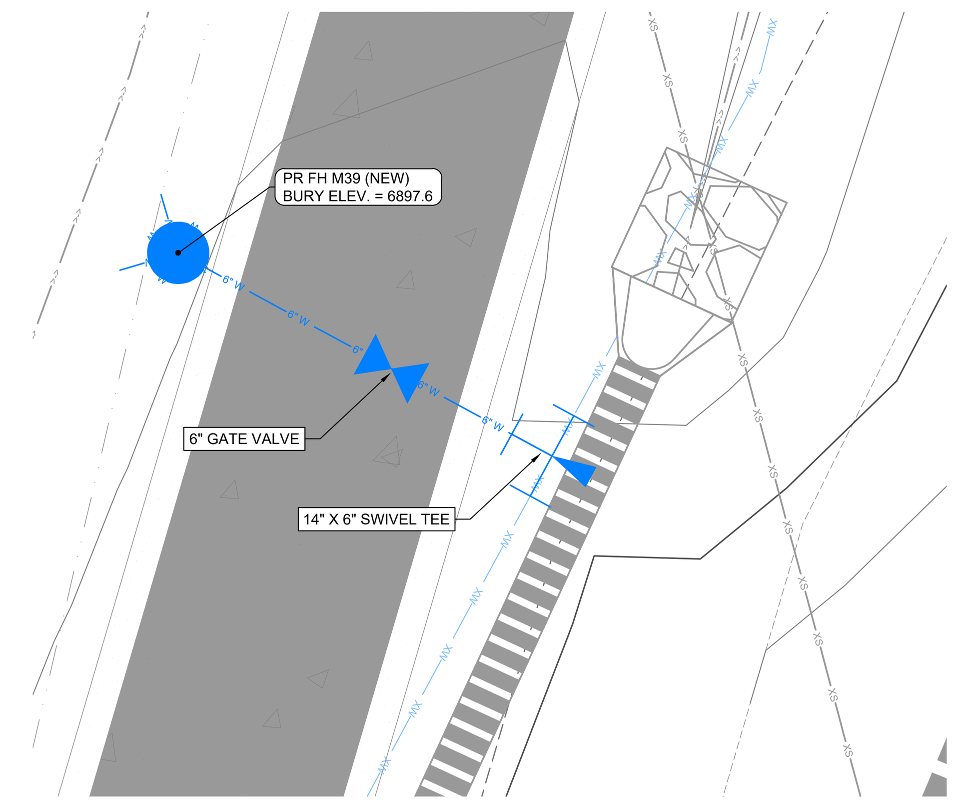
WATER PLAN & PROFILE
AMBLE WATER SERVICE - Sta: 0+00 - 1+78



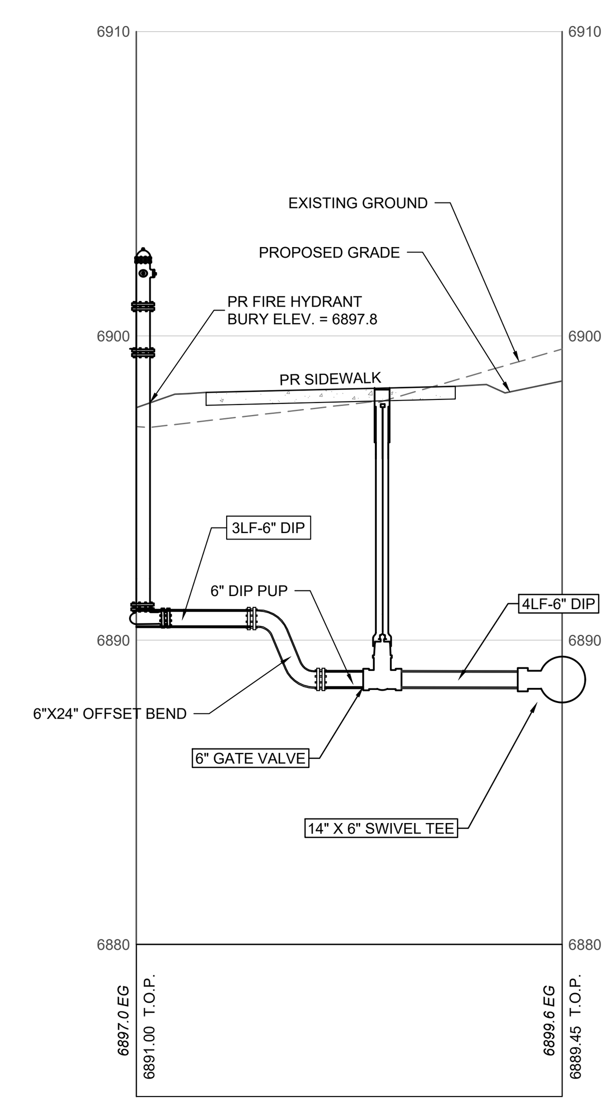


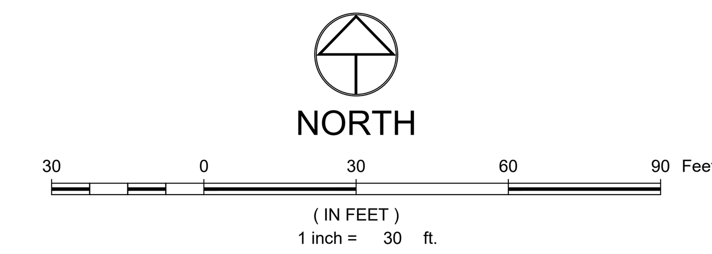
PR FIRE HYDRANT PLAN & PROFILE
SCALE: 1" = 5'





PR FIRE HYDRANT M39 - PLAN & PROFILE
SCALE: 1" = 5'





LEGEND:

- PR. SANITARY SEWER AND PIPE SIZE W/ MH & C.O.
- EX. SANITARY SEWER W/ MH & C.O.
- PR. WATER AND PIPE SIZE
- PR. GV, FH & CS
- PR. AIR RELIEF VALVE
- EX. WATER
- EX. ASPHALT
- PR. ASPHALT
- CONCRETE
- SIGN
- EX. GAS
- EX. GAS METER AND MANHOLE/VAULT
- EX. CABLE
- EX. CABLE PEDESTAL
- EX. FIBER OPTIC
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C.301: Provide a detailed Grading and Drainage Plan for entire site. Appears sheets may be missing.

CALL UTILITY NOTIFICATION CENTER OF COLORADO

811

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COLORADO LICENSED MATTHEW CARL EGGEN 50740 12/15/23 PROFESSIONAL ENGINEER

NOT VALID WITHOUT ORIGINAL SIGNATURE AND DATE

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Reviewed for Code Compliance
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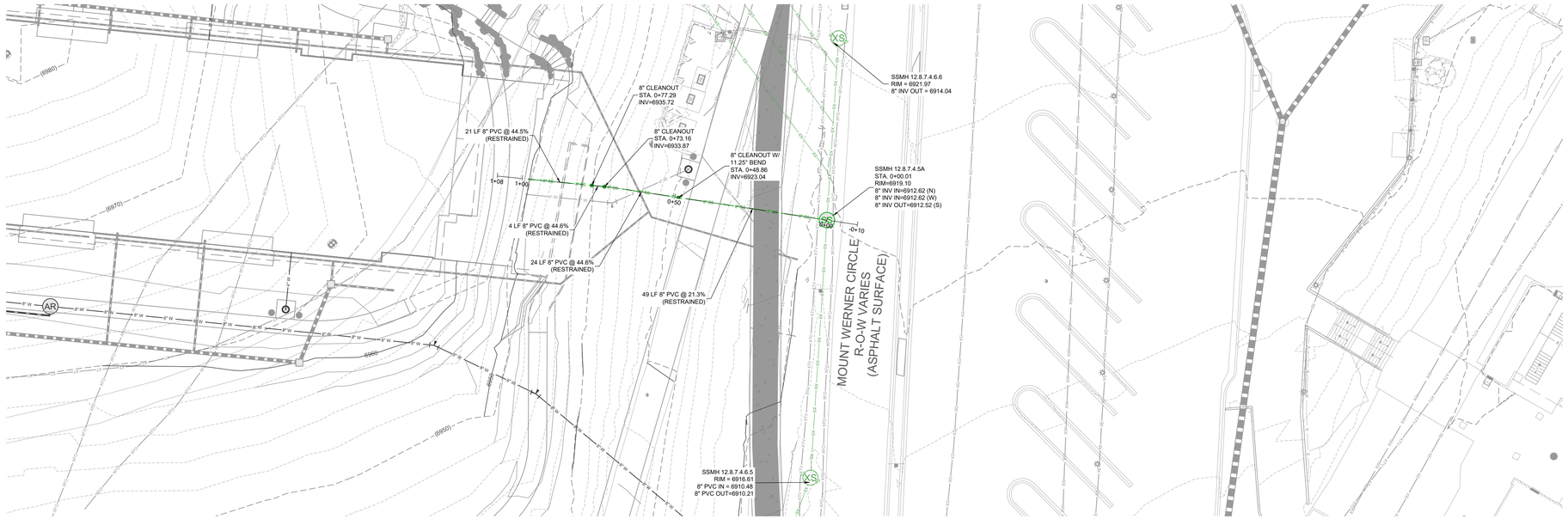
NO.	DATE:	BY:	DESCRIPTION:
1	02.08.2024	MCE	PERMIT COMMENT RESPONSE

PROJECT:	2571-001
DATE:	12/15/2023
CONTACT:	Matthew Eggen
EMAIL:	matte@landmark-co.com

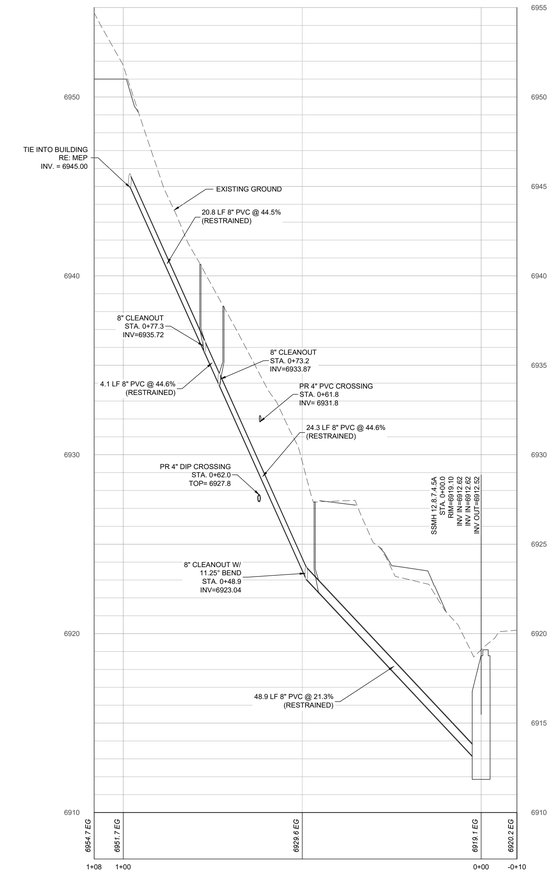
The Amble - Construction Drawings
Water Plan & Profile
Amble Service & Fire Hydrants

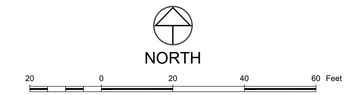
SHEET
C.212

DRAWING FILENAME: P:\2571-001\DWGs\Production Drawings\DD 2.0\2571-001-C.210-DD 2.0-Water Main Plan & Profile.dwg LAYOUT NAME: C.212 DATE: Feb 09, 2024 - 11:05am CAD OPERATOR: matthew
LIST OF XREFS: [2571-001-xExist-Utils-Demo] [2571-001-xExist-Demo] [2571-001-xSite-PP] [2571-001-xSite-DP] [2571-001-xUtil-PP] [2571-001-xUtil-DP] [XUTIL_Leg] [2571-001-xHatch-PP] [xBORDER-CDs]



SANITARY SEWER SERVICE
SCALE: 1" = 20' (H) ; 1" = 2' (V)





LEGEND:

PR. SANITARY SEWER AND PIPE SIZE W/ MH & C.O.
EX. SANITARY SEWER W/ MH & C.O.
PR. WATER AND PIPE SIZE
PR. GV, FH & CS
PR. AIR RELIEF VALVE
EX. WATER
EX. ASPHALT
PR. ASPHALT
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COLORADO LICENSED
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50740
PROFESSIONAL ENGINEER
4/15/24

NOT VALID WITHOUT ORIGINAL SIGNATURE AND DATE

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1	02.08.2024	MCE	PERMIT COMMENT RESPONSE

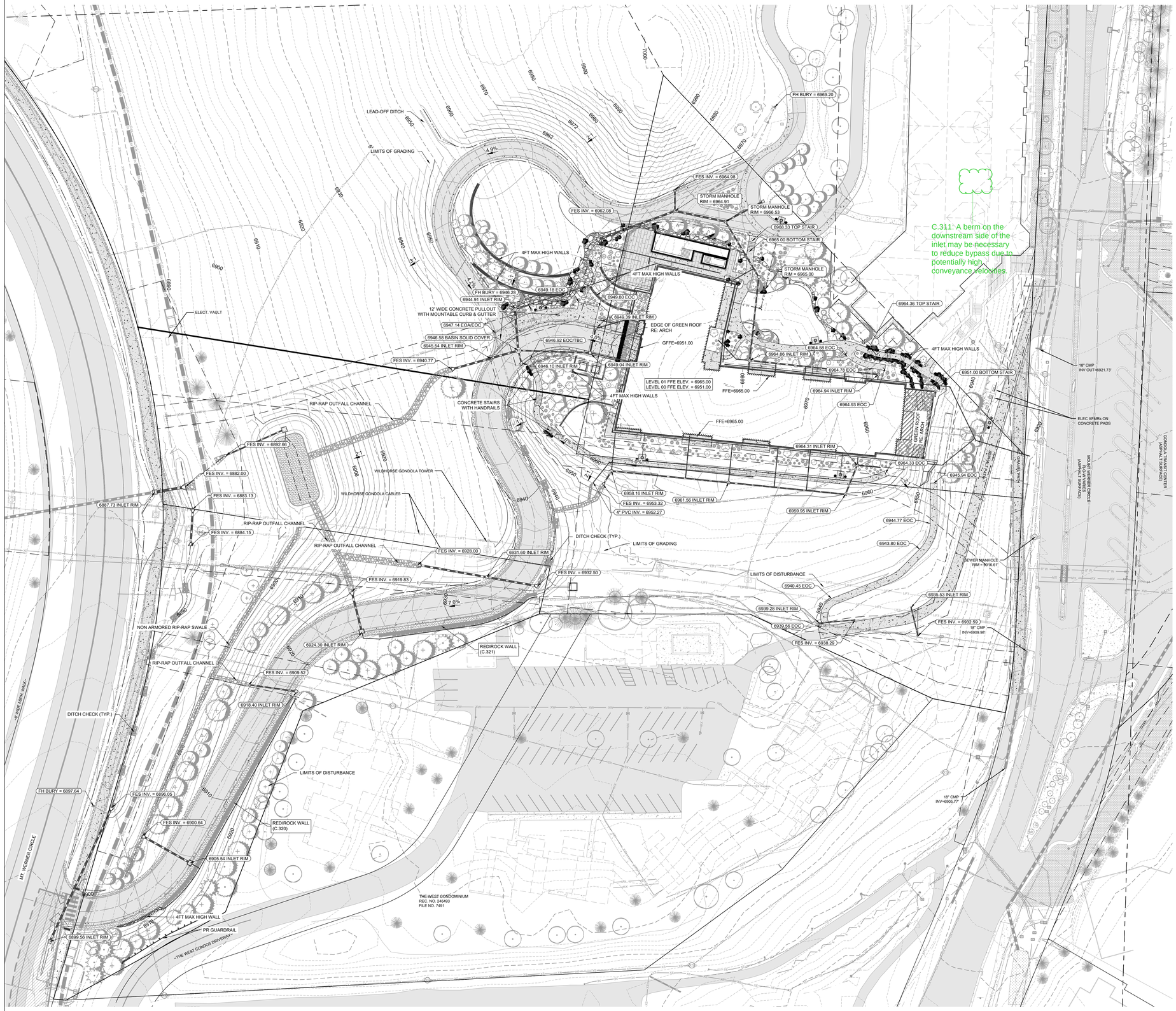
PROJECT:	2571-001
DATE:	12/15/2023
CONTACT:	Matthew Eggen
EMAIL:	matte@landmark-co.com

The Amble - Construction Drawings

Sanitary Sewer Plan & Profile

SHEET
C.220

DRAWING FILENAME: P:\2571-001\Work\Production Drawings\SDS 2.2\2571-001-C.220-SDS 2.0-Sheet Service Plan & Profile.dwg LAYOUT NAME: C.220 DATE: Feb 09, 2024 - 11:59am CAD OPERATOR: matthew
LOT / SF AREA'S: [xLOT6_1.sqg]:[2571-001-xBrad]:[2571-001-xdoe.sm]:[2571-001-xdoe.sm]:[2571-001-xSubdivBlg]:[2571-001-xdoe.sm]:[2571-001-xdoe.sm]:[2571-001-xdoe.sm]:[2571-001-xdoe.sm] [ABORDER.DGN]



NORTH

40 0 40 80 120 Feet

(IN FEET)
1 inch = 40 ft.

LEGEND:

- PR. MINOR CONTOUR
- PR. MAJOR CONTOUR — 6805
- EX. MINOR CONTOUR
- EX. MAJOR CONTOUR — (6800)
- PR. BUILDING
- PR. FOUNDATION
- PR. OVERHANG/ROOF
- EX. ASPHALT
- PR. ASPHALT
- PR. CONCRETE
- PR. GRAVEL
- PR. PATIO RE: LANDSCAPING
- PR. COBBLE RE: LANDSCAPING
- PR. GREEN ROOF RE: ARCH
- PR. STRUCTURE UNDER GRADE RE: ARCH
- PR. SITE WALL
- PR. REDIROCK WALL
- PR. BOLLARDS
- PR. BOLLARDS
- PR. ROCK WALL RE: LANDSCAPING
- PR. CULVERT W/ END SECTIONS
- INLET AND STORM MANHOLE — ST
- EX. CULVERT W/ END SECTIONS
- INLET AND STORM MANHOLE — ST
- PR TREES & SHRUBS RE: LANDSCAPING
- EX. CONIFEROUS AND DECIDUOUS TREE
- PR. SPOT ELEVATION — 00.10
- EX. SPOT ELEVATION — 00.10 X
- PR. OVERLAND FLOW DIRECTION W/ SLOPE — 2.0%
- PR. CHANNELIZED FLOW DIRECTION W/ SLOPE — 2.0%
- EX. CHANNELIZED FLOW DIRECTION
- APPROX. LIMITS OF GRADING

NOTES:

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2. ALL PROJECT DATA IS ON VERTICAL DATUM; NAVD 88. SEE NOTES SHEET FOR BENCHMARK REFERENCES.
3. ELEVATIONS FOR IMPROVEMENTS THAT ARE CONTROLLED BY ADJACENT EXISTING FACILITIES (SUCH AS PROPOSED GUTTERS ALONG EXISTING ASPHALT) MAY REQUIRE ADJUSTMENT BASED ON ACTUAL CONDITIONS. COORDINATE WITH ENGINEER TO ENSURE A CONSISTENT SECTION WITH SMOOTH TRANSITIONS WHERE NECESSARY.
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CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

COLORADO LICENSED MATTHEW CARL EGGEN 50740 PROFESSIONAL ENGINEER 12/15/23

NOT VALID WITHOUT ORIGINAL SIGNATURE AND DATE

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CIVIL ENGINEERS | SURVEYORS
141 9th Street – P.O. Box 774943, Steamboat Springs, CO 80477
(970) 871-9494 – www.LANDMARK-CO.com

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Reviewed for Code Compliance

04/01/2024

NO.	DATE:	BY:	DESCRIPTION:
1	02.08.2024	MCE	PERMIT COMMENT RESPONSE

PROJECT:	2517-001
DATE:	12/19/2023
CONTACT:	Matthew Eggen
EMAIL:	matte@landmark-co.com

The Amble - Construction Drawings

Overall Grading & Drainage Plan

SHEET

C.300

DRAWING FILENAME: P:\2517-001\Work\Production Drawings\02-23\2517-001 C.300 02-2 Grading & Drainage Plan.dwg LAYOUT NAME: C.300 DATE: Feb 09, 2024 - 11:55am CAD OPERATOR: matthew
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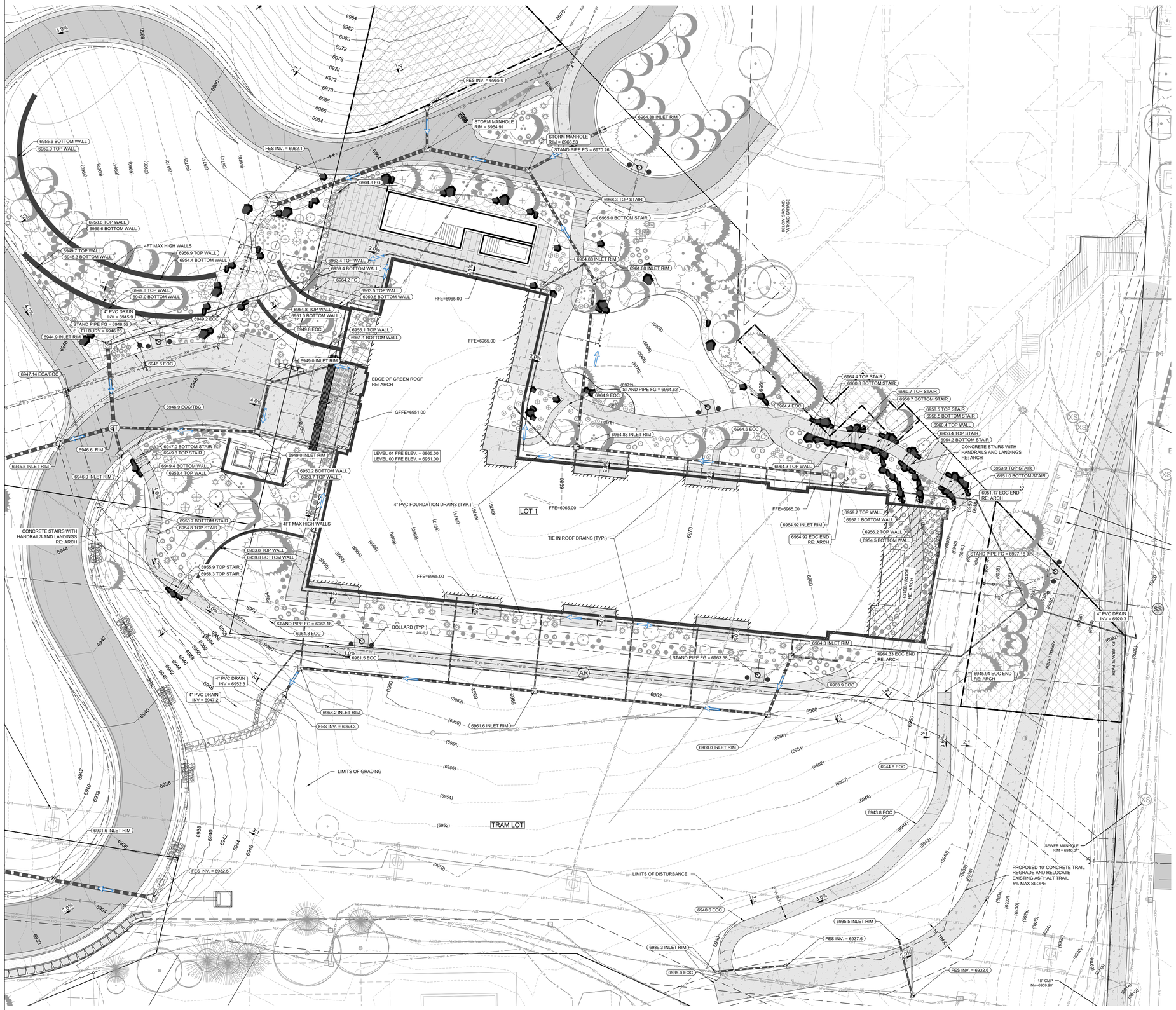

NORTH

20 0 20 40 60 Feet

(IN FEET)
1 inch = 20 ft.

LEGEND:

- PR. MINOR CONTOUR
- PR. MAJOR CONTOUR — 6805
- EX. MINOR CONTOUR
- EX. MAJOR CONTOUR — (6800)
- PR. BUILDING
- PR. FOUNDATION
- PR. OVERHANG/ROOF
- EX. ASPHALT
- PR. ASPHALT
- PR. CONCRETE
- PR. GRAVEL
- PR. PATIO RE: LANDSCAPING
- PR. COBBLE RE: LANDSCAPING
- PR. GREEN ROOF RE: ARCH
- PR. STRUCTURE UNDER GRADE RE: ARCH
- PR. SITE WALL
- PR. REDIROCK WALL
- PR. BOLLARDS
- PR. BOLLARDS
- PR. ROCK WALL RE: LANDSCAPING
- PR. CULVERT W/ END SECTIONS INLET AND STORM MANHOLE (ST)
- EX. CULVERT W/ END SECTIONS INLET AND STORM MANHOLE (ST)
- PR TREES & SHRUBS RE: LANDSCAPING
- EX. CONIFEROUS AND DECIDUOUS TREE
- PR. SPOT ELEVATION — 00.10
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- PR. OVERLAND FLOW DIRECTION W/ SLOPE — 2.0%
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Reviewed for Code Compliance
04/01/2024

NO.	DATE:	BY:	DESCRIPTION:
1	02.08.2024	MCE	PERMIT COMMENT RESPONSE

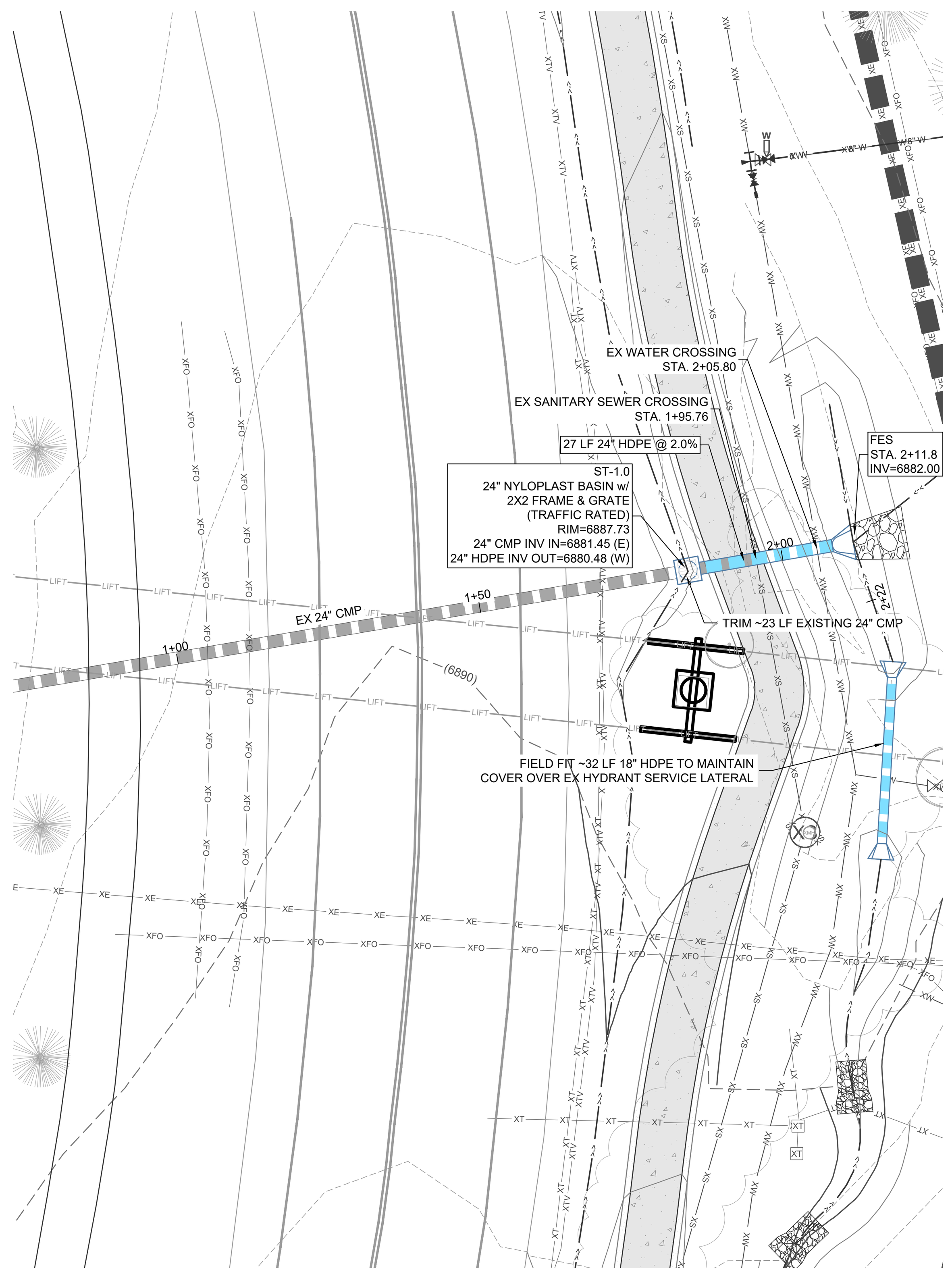
PROJECT:	2571-001
DATE:	12/15/2023
CONTACT:	Matthew Eggen
EMAIL:	matte@landmark-co.com

The Amble - Construction Drawings

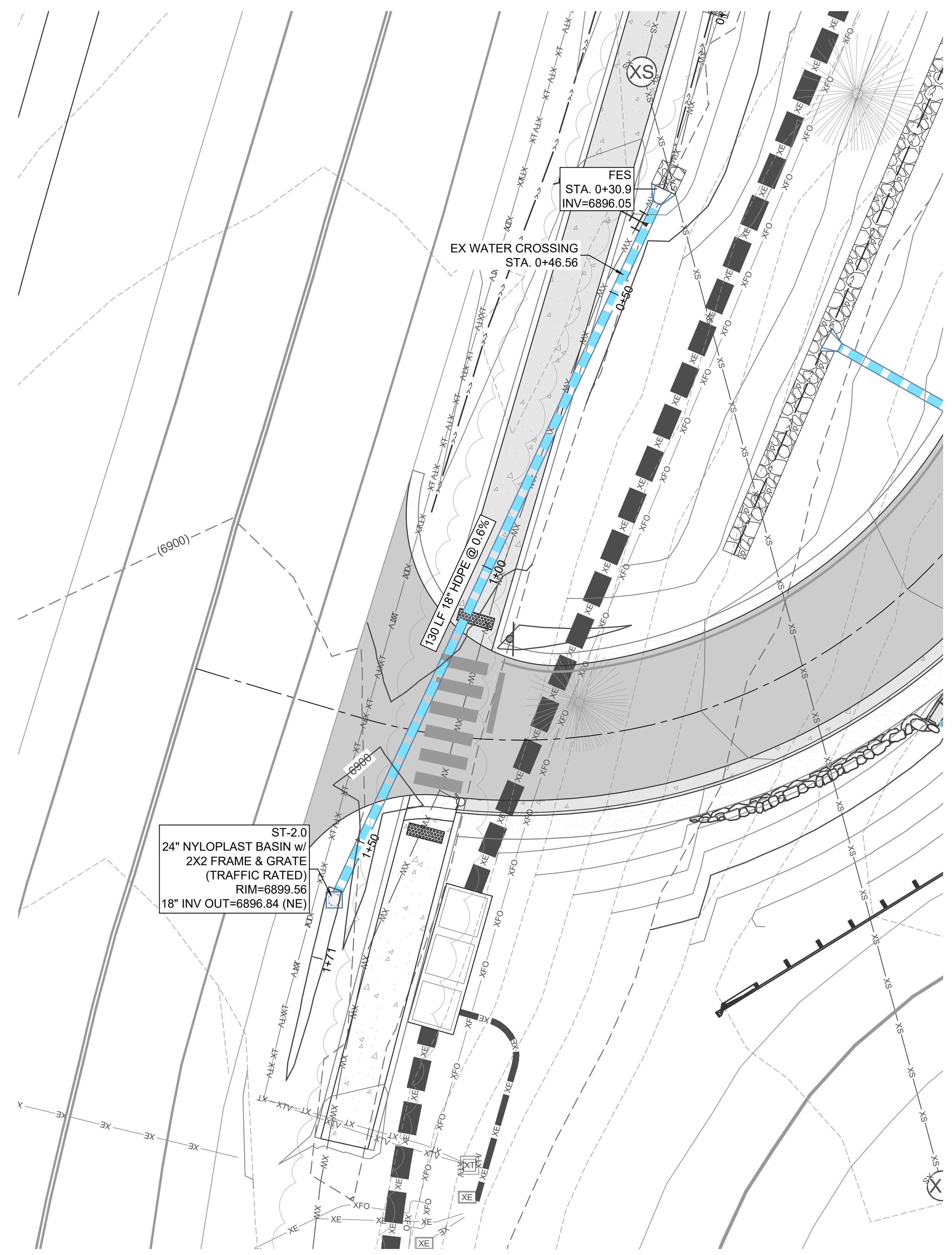
Detailed Grading & Drainage Plan

SHEET
C.301

DRAWING FILENAME: P:\2571-001\Work\Production Drawings\02 # 2\2571-001-SLD01-02 # 2-Detailed Grading & Drainage Plan.dwg LAYOUT NAME: C.301 DATE: Feb 09, 2024 - 11:55am CAD OPERATOR: matthew
LIST OF XREFS: 2571-001-xBase\Survey\xSURVEY_Log2.DWG 2571-001-xBase-data.DWG 2571-001-xArch\2571-001-xArch-SPLEEN-01.DWG 2571-001-xBase-PP1.DWG 2571-001-xPlat\PP1.DWG 2571-001-xSite\SP1.DWG 2571-001-xSite\SP2.DWG 2571-001-xSite\SP3.DWG 2571-001-xSite\SP5.DWG 2571-001-xPlat\PP2.DWG 2571-001-xLA\Landscape Plan.DWG 2571-001-xArch\SP1.DWG 2571-001-xArch\SP2.DWG 2571-001-xArch\SP3.DWG 2571-001-xArch\SP5.DWG 2571-001-xArch\SP6.DWG 2571-001-xArch\SP7.DWG 2571-001-xArch\SP8.DWG 2571-001-xArch\SP9.DWG [ARCH24.CTB]



STORMLINE 1
SCALE: 1" = 20' (H) ; 1" = 4' (V)



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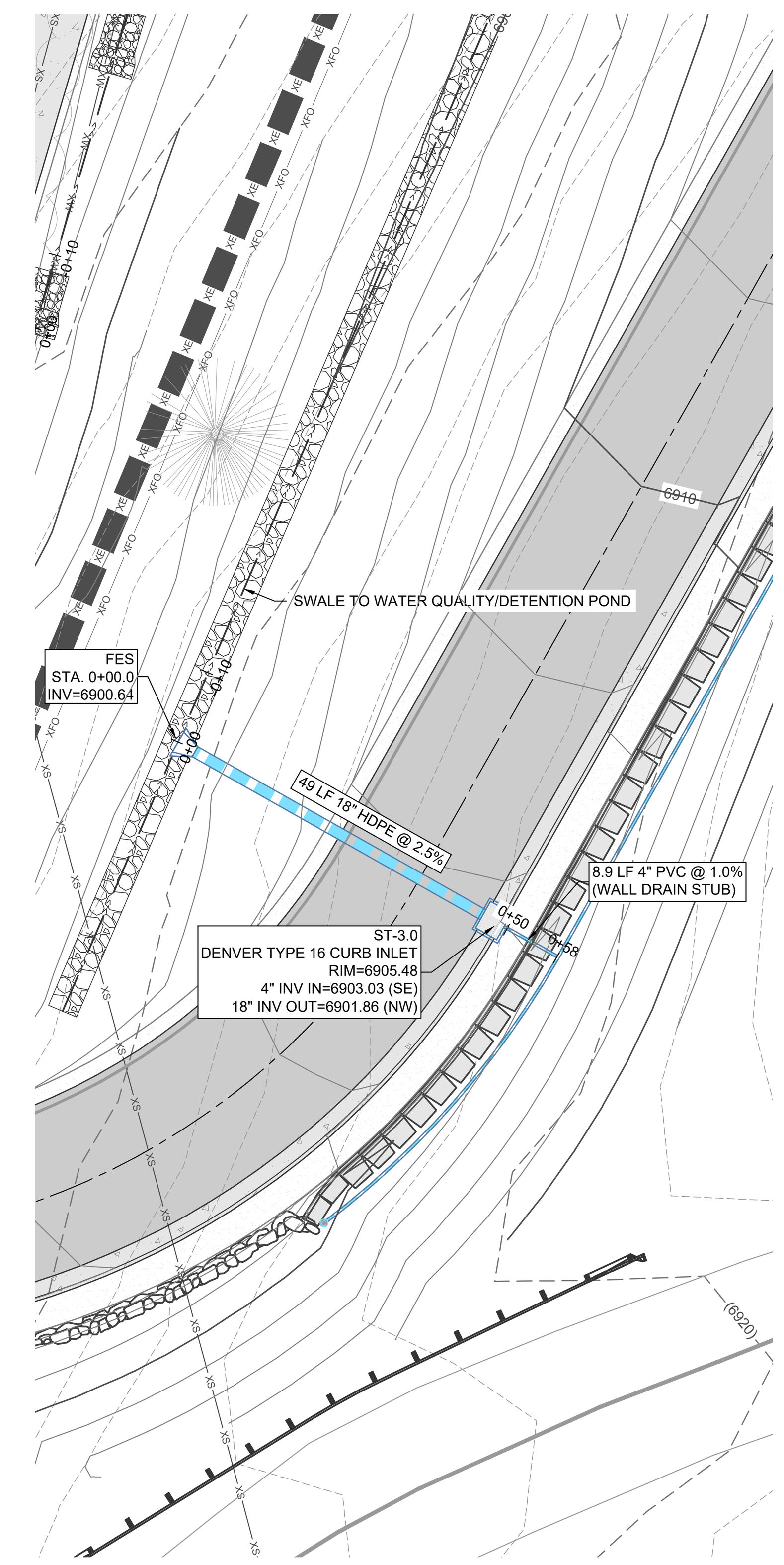
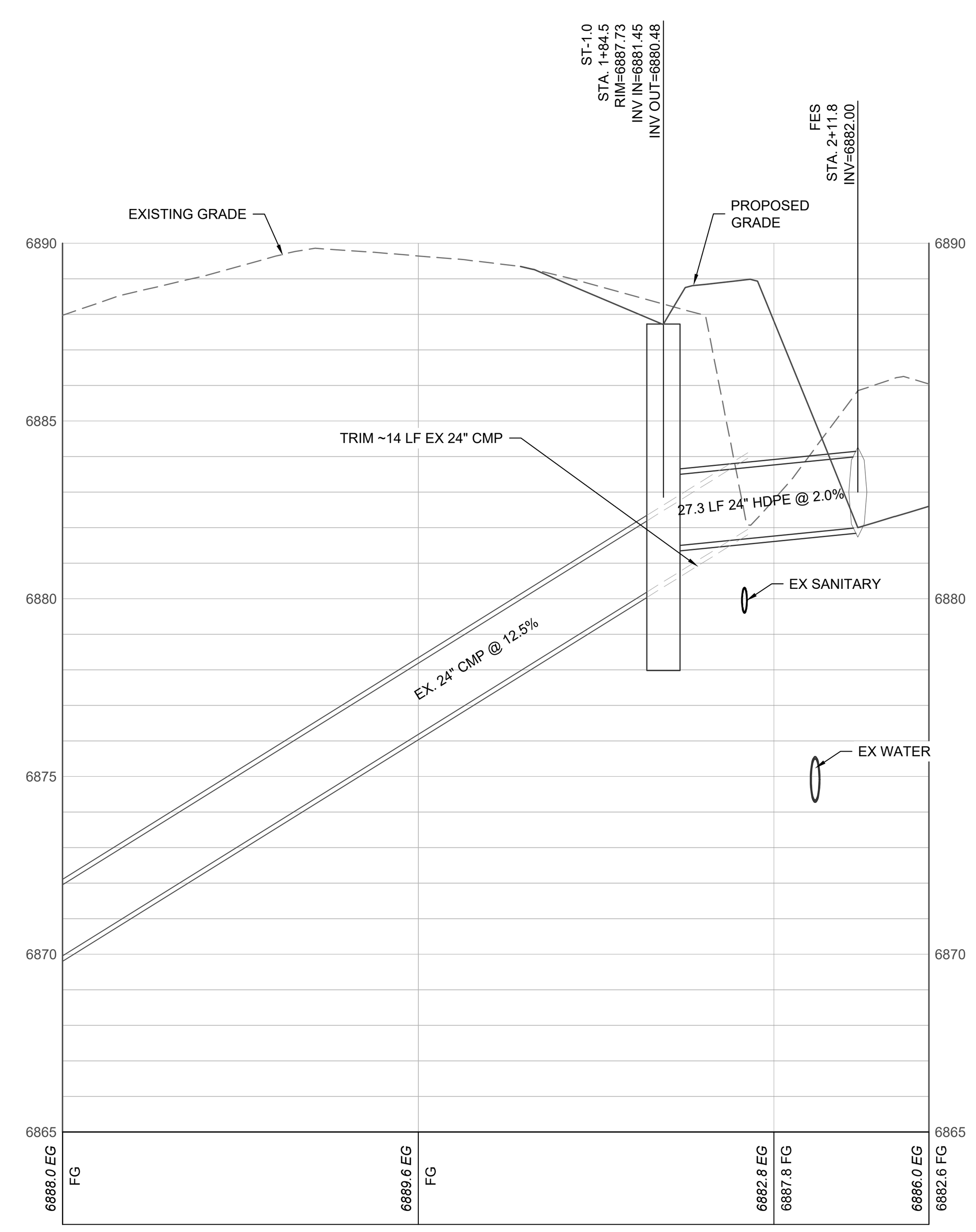
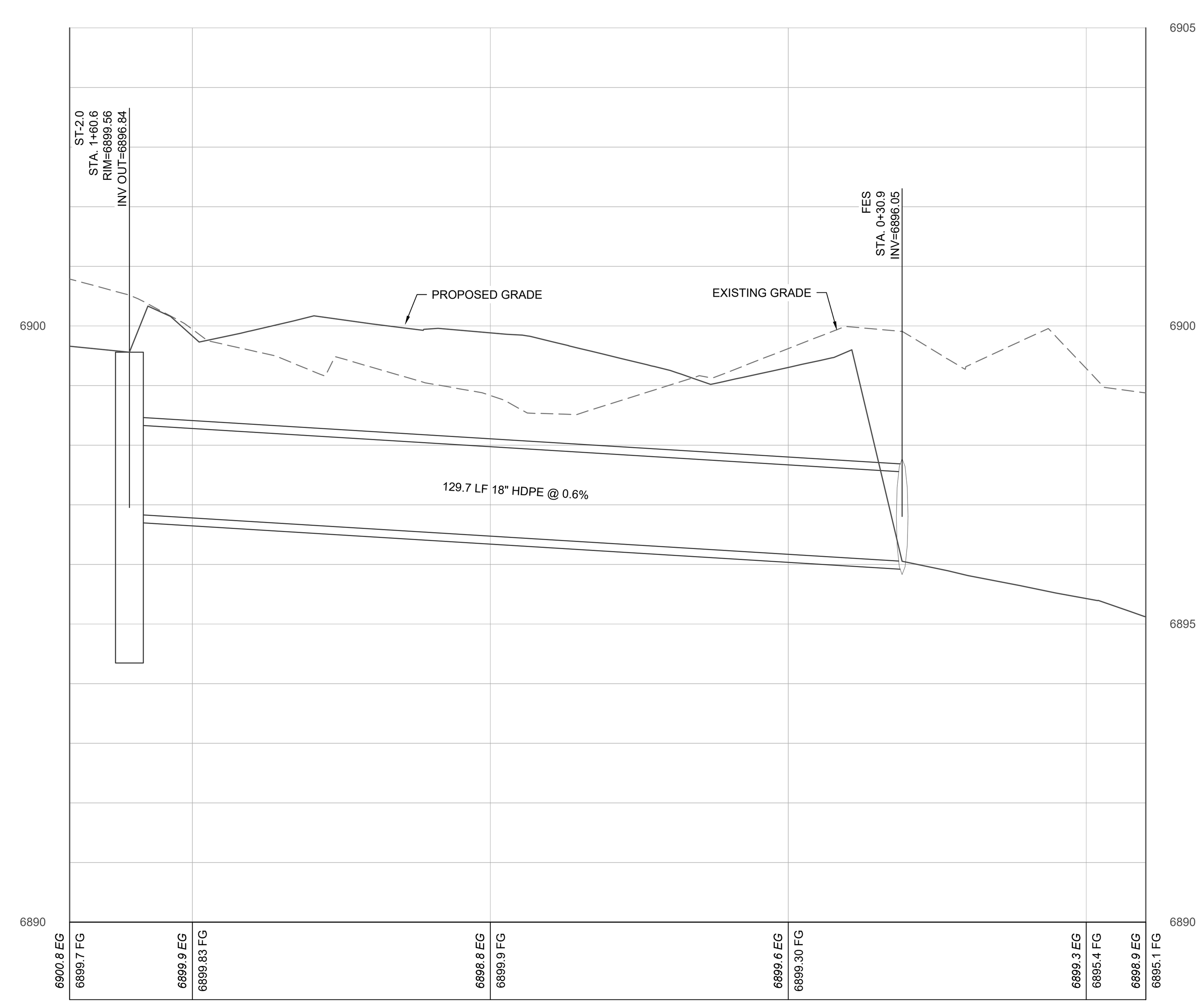
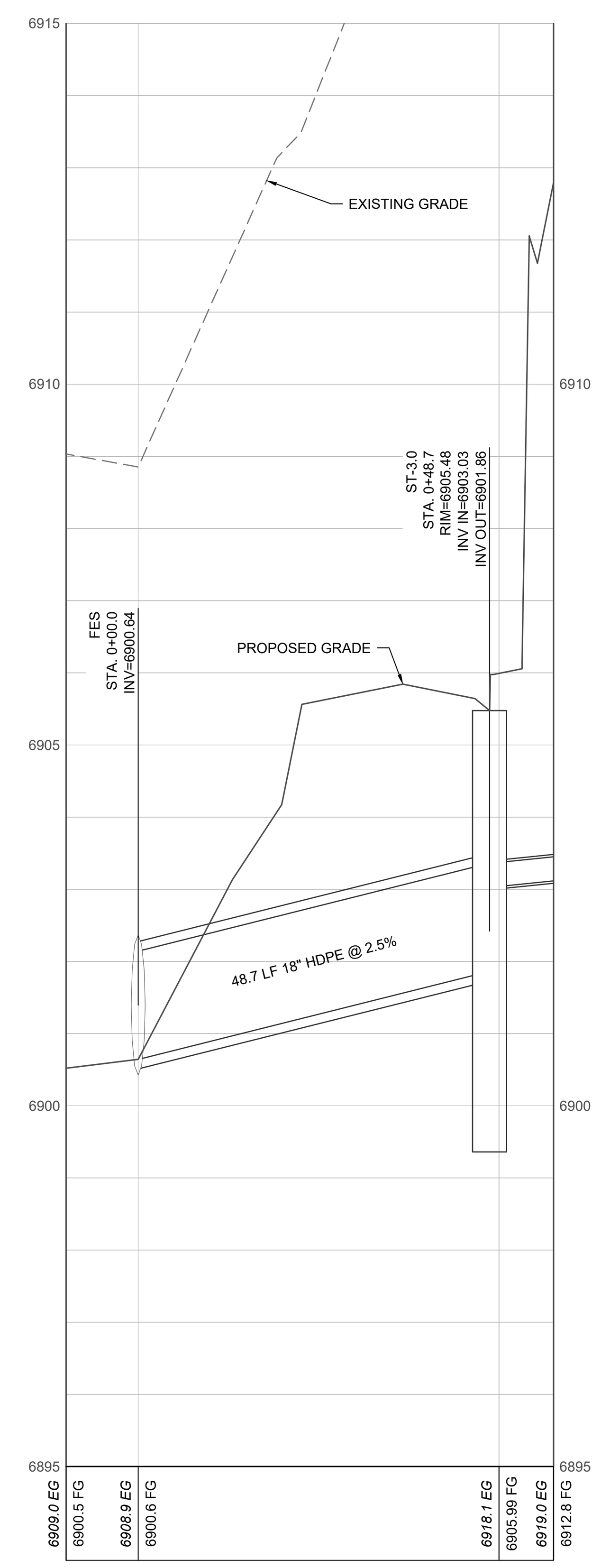
SCALE: 1" = 20' (H) ; 1" = 2' (V)

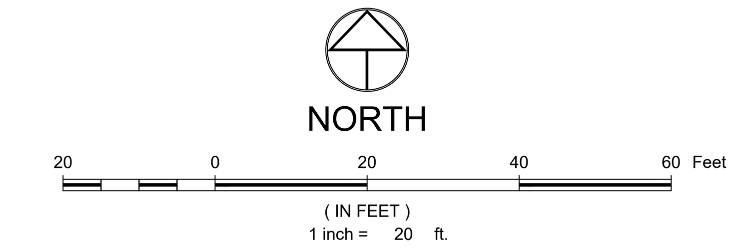


STORMLINE 3
SCALE: 1" = 20' (H) ; 1" = 2' (V)









LEGEND:

- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- PROPOSED STORM INLET (CURB & AREA)
- PROPOSED FLARED END SECTION (FES)
- PROPOSED STORM MANHOLE
- PROPOSED RIP RAP
- PROPOSED MAJOR CONTOUR (6805)
- PROPOSED MINOR CONTOUR
- EXISTING MAJOR CONTOUR (6805)
- EXISTING MINOR CONTOUR
- PROPOSED SWALE
- PROPOSED CURB & GUTTER
- PROPERTY BOUNDARY
- PROPOSED LOT LINE
- EXISTING RIGHT OF WAY
- FLOOD HAZARD LIMITS

NOTES:

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INLET SCHEDULE

STRUCTURE	SIZE/DIAMETER (in.)	MODEL	GRATE	SUMP (2-FT)	TRAFFIC RATED
ST-1.0	24	NYLOPLAST	2'x2' ROAD & HIGHWAY GRATE	X	X
ST-2.0	24	NYLOPLAST	2'x2' ROAD & HIGHWAY GRATE	X	X
ST-3.0	30X40	DENVER TYPE 16	DENVER TYP 16	X	X
ST-4.0	15	NYLOPLAST	15" DOMED GRATE	X	-
ST-5.0	30X40	DENVER TYPE 16	DENVER TYP 16	X	X
ST-6.1	18	NYLOPLAST	2'x2' ROAD & HIGHWAY GRATE	X	-
ST-7.1	15	NYLOPLAST	15" DOMED GRATE	X	-
ST-7.2	12	NYLOPLAST	12" DOMED GRATE	X	-
ST-7.3	15	NYLOPLAST	15" DOMED GRATE	X	-
ST-7.4	12	NYLOPLAST	12" DOMED GRATE	X	-
ST-8.1	18	NYLOPLAST	2'x2' ROAD & HIGHWAY GRATE	X	X
ST-8.2	30	NYLOPLAST	SOLID COVER	-	X
ST-8.2.1	18	NYLOPLAST	18" DOMED GRATE	X	-
ST-8.2.2	12	NYLOPLAST	2'x2' ROAD & HIGHWAY GRATE	X	X
ST-8.3	15	NYLOPLAST	2'x2' ROAD & HIGHWAY GRATE	X	X
ST-8.4	12	NYLOPLAST	2'x2' ROAD & HIGHWAY GRATE	X	X
ST-9.1	24	NYLOPLAST	SOLID COVER	-	X
ST-9.2	24	NYLOPLAST	SOLID COVER	-	X
ST-9.3	15	NYLOPLAST	15" DOMED GRATE	X	-
ST-9.3.1	12	NYLOPLAST	12" DOMED GRATE	-	-
ST-9.4	15	NYLOPLAST	15" DOMED GRATE	X	-
ST-9.5	12	NYLOPLAST	12" DOMED GRATE	X	-

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COLORADO LICENSED PROFESSIONAL ENGINEER
MATTHEW CARL EGGEN
50740
12/15/23
NOT VALID WITHOUT ORIGINAL SIGNATURE AND DATE

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Reviewed for Code Compliance
04/01/2024

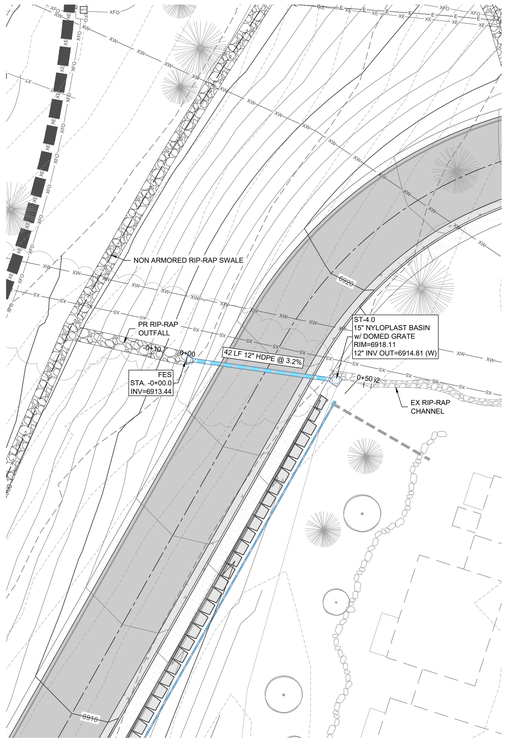
NO.	DATE:	BY:	DESCRIPTION:
1	02.08.2024	MCE	PERMIT COMMENT RESPONSE

PROJECT: 2571-001
DATE: 12/15/2023
CONTACT: Matthew Eggen
EMAIL: matte@landmark-co.com

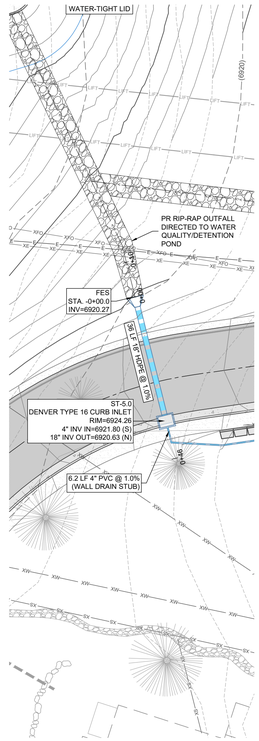
The Amble - Construction Drawings
Storm Sewer Plan & Profiles

SHEET
C.310

DRAWING FILENAME: P:\2571-001\DWGs\Production Drawings\DD 2.0\2571-001-C.310-DD 2.0-Storm Sewer Plan & Profiles.dwg LAYOUT NAME: C.310 DATE: Feb 09, 2024 - 11:06am CAD OPERATOR: matthew
LIST OF XREFS: [2571-001-xExist] [2571-001-xSite-PP] [2571-001-xUtil-PP] [2571-001-xExist-Utils] [2571-001-xSite-DP] [2571-001-xUtil-DP] [2571-001-xHatch-PP] [xSTORM_Leg] [xBORDER-CDs]



STORMLINE 4
SCALE: 1" = 20' (H) ; 1" = 2' (V)



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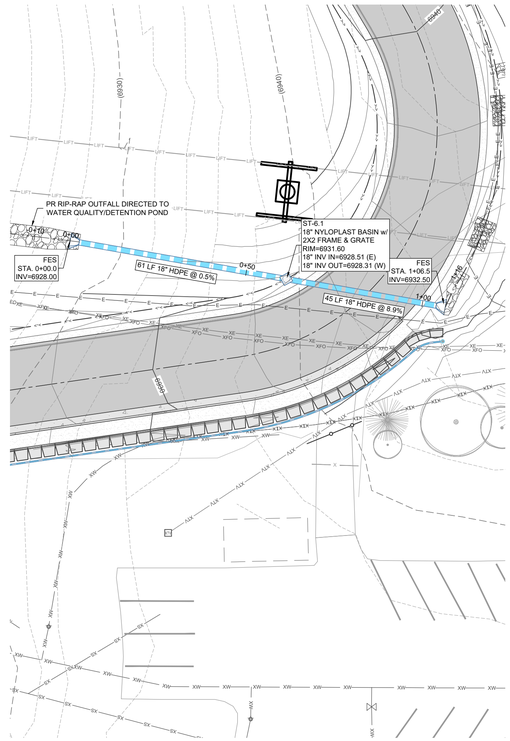
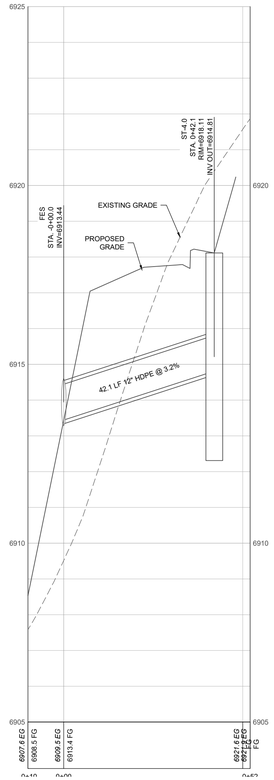
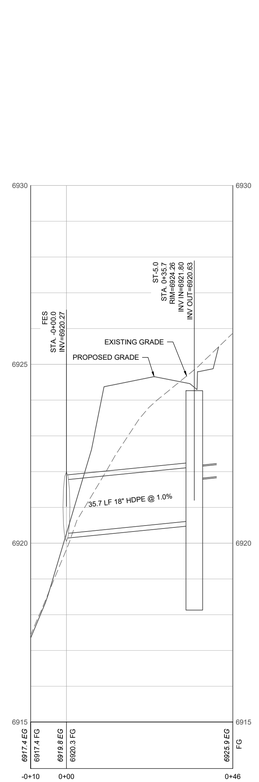
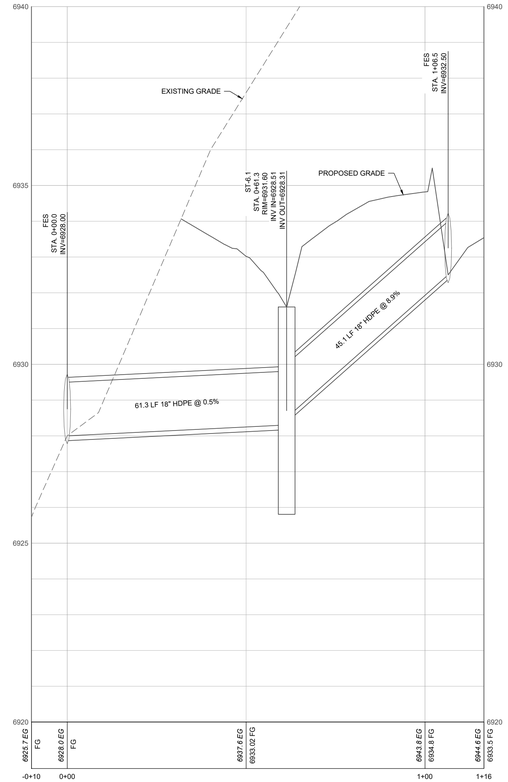
SCALE: 1" = 20' (H) ; 1" = 2' (V)



STORMLINE 6
SCALE: 1" = 20' (H) ; 1" = 2' (V)







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LIST OF XREFS: 2571-001-XBASE@2571-001-xbase.dwg|2571-001-xbase-MP.dwg|2571-001-xbase-MP1.dwg|2571-001-xbase-MP2.dwg|2571-001-xbase-MP3.dwg|2571-001-xbase-SP.dwg|2571-001-xMatch-MP.dwg|GP.DWG_Adj|UNDRGRD.DWG

NORTH

20 0 20 40 60 Feet

(IN FEET)
1 inch = 20 ft.

LEGEND:

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- PROPOSED STORM SEWER
- PROPOSED STORM INLET (CURB & AREA)
- PROPOSED FLARED END SECTION (FES)
- PROPOSED STORM MANHOLE
- PROPOSED RIP RAP
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
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ST-3.0	30X40	DENVER TYPE 16	DENVER TYP 16	X	X
ST-4.0	15	NYLOPLAST	15" DOMED GRATE	X	-
ST-5.0	30X40	DENVER TYPE 16	DENVER TYP 16	X	X
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ST-7.4	12	NYLOPLAST	12" DOMED GRATE	X	-
ST-8.1	18	NYLOPLAST	2'x2' ROAD & HIGHWAY GRATE	X	X
ST-8.2	30	NYLOPLAST	SOLID COVER	-	X
ST-8.2.1	18	NYLOPLAST	18" DOMED GRATE	X	-
ST-8.2.2	12	NYLOPLAST	2'x2' ROAD & HIGHWAY GRATE	X	X
ST-8.3	15	NYLOPLAST	2'x2' ROAD & HIGHWAY GRATE	X	X
ST-8.4	12	NYLOPLAST	2'x2' ROAD & HIGHWAY GRATE	X	X
ST-9.1	24	NYLOPLAST	SOLID COVER	-	X
ST-9.2	24	NYLOPLAST	SOLID COVER	-	X
ST-9.3	15	NYLOPLAST	15" DOMED GRATE	X	-
ST-9.3.1	12	NYLOPLAST	12" DOMED GRATE	-	-
ST-9.4	15	NYLOPLAST	15" DOMED GRATE	X	-
ST-9.5	12	NYLOPLAST	12" DOMED GRATE	X	-

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PROJECT:	2571-001
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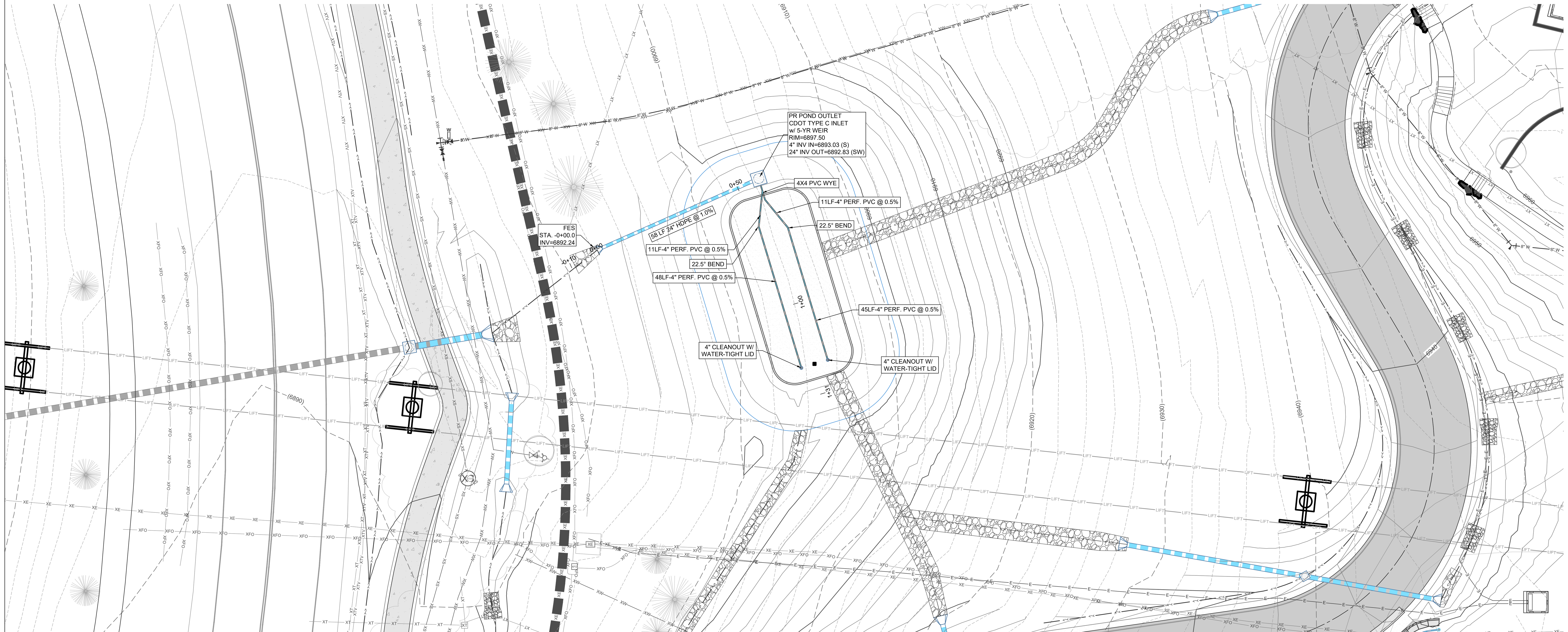
CONTACT:	Matthew Eggen
EMAIL:	matte@landmark-co.com

The Amble - Construction Drawings

Storm Sewer Plan & Profiles

SHEET
C.311



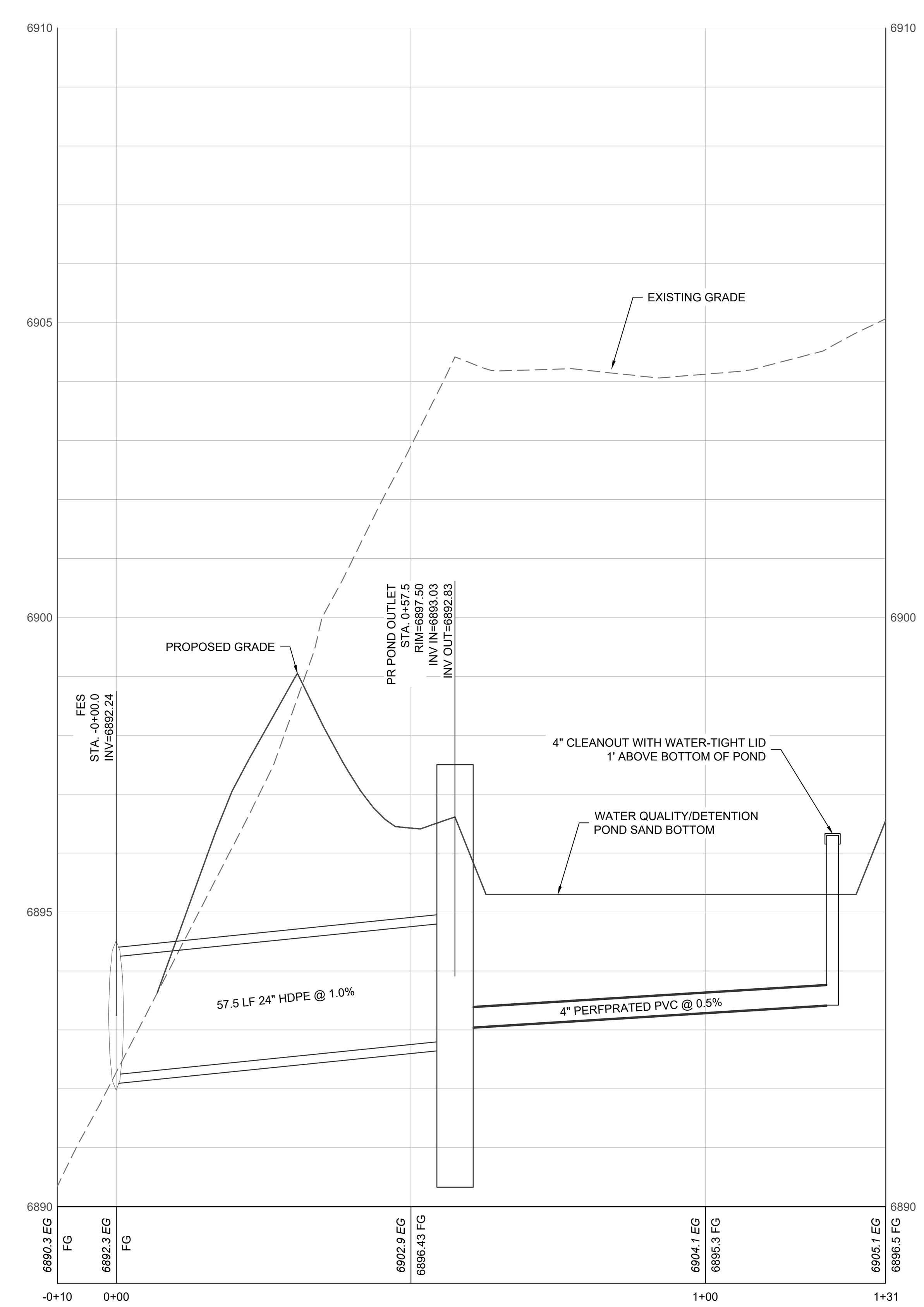
NORTH

20 0 20 40 60 Feet

(IN FEET)
1 inch = 20 ft.

POND OUTLET

SCALE: 1" = 20' (H) ; 1" = 2' (V)



LEGEND:

- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- PROPOSED STORM INLET (CURB & AREA)
- PROPOSED FLARED END SECTION (FES)
- PROPOSED STORM MANHOLE (ST)
- PROPOSED RIP RAP
- PROPOSED MAJOR CONTOUR (6805)
- PROPOSED MINOR CONTOUR
- EXISTING MAJOR CONTOUR (6805)
- EXISTING MINOR CONTOUR
- PROPOSED SWALE
- PROPOSED CURB & GUTTER
- PROPERTY BOUNDARY
- PROPOSED LOT LINE
- EXISTING RIGHT OF WAY
- FLOOD HAZARD LIMITS

NOTES:

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4. SEE SOILS REPORT FOR PAVEMENT, SUBGRADE AND MATERIAL PREPARATION, DESIGN AND RECOMMENDATIONS.
5. ALL CURB SPOTS SHOWN ARE FLOWLINE ELEVATIONS, UNLESS NOTED OTHERWISE. ALL OTHER SPOTS ARE FINISHED GRADE ELEVATIONS.

INLET SCHEDULE

STRUCTURE	SIZE/DIAMETER (in.)	MODEL	GRATE	SUMP (2-FT)	TRAFFIC RATED
ST-1.0	24	NYLOPLAST	2'x2' ROAD & HIGHWAY GRATE	X	X
ST-2.0	24	NYLOPLAST	2'x2' ROAD & HIGHWAY GRATE	X	X
ST-3.0	30X40	DENVER TYPE 16	DENVER TYP 16	X	X
ST-4.0	15	NYLOPLAST	15" DOMED GRATE	X	-
ST-5.0	30X40	DENVER TYPE 16	DENVER TYP 16	X	X
ST-6.1	18	NYLOPLAST	2'x2' ROAD & HIGHWAY GRATE	X	-
ST-7.1	15	NYLOPLAST	15" DOMED GRATE	X	-
ST-7.2	12	NYLOPLAST	12" DOMED GRATE	X	-
ST-7.3	15	NYLOPLAST	15" DOMED GRATE	X	-
ST-7.4	12	NYLOPLAST	12" DOMED GRATE	X	-
ST-8.1	18	NYLOPLAST	2'x2' ROAD & HIGHWAY GRATE	X	X
ST-8.2	30	NYLOPLAST	SOLID COVER	-	X
ST-8.2.1	18	NYLOPLAST	18" DOMED GRATE	X	-
ST-8.2.2	12	NYLOPLAST	2'x2' ROAD & HIGHWAY GRATE	X	X
ST-8.3	15	NYLOPLAST	2'x2' ROAD & HIGHWAY GRATE	X	X
ST-8.4	12	NYLOPLAST	2'x2' ROAD & HIGHWAY GRATE	X	X
ST-9.1	24	NYLOPLAST	SOLID COVER	-	X
ST-9.2	24	NYLOPLAST	SOLID COVER	-	X
ST-9.3	15	NYLOPLAST	15" DOMED GRATE	X	-
ST-9.3.1	12	NYLOPLAST	12" DOMED GRATE	-	-
ST-9.4	15	NYLOPLAST	15" DOMED GRATE	X	-
ST-9.5	12	NYLOPLAST	12" DOMED GRATE	X	-

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CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

COLORADO LICENSED PROFESSIONAL ENGINEER MATTHEW CARL EGGEN 50740 12/15/23

NOT VALID WITHOUT ORIGINAL SIGNATURE AND DATE

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Reviewed for Code Compliance
04/01/2024

NO.	DATE:	BY:	DESCRIPTION:
1	02.08.2024	MCE	PERMIT COMMENT RESPONSE

PROJECT: 2571-001
DATE: 12/15/2023
CONTACT: Matthew Eggen
EMAIL: matte@landmark-co.com

The Amble - Construction Drawings

Storm Sewer Plan & Profiles

SHEET
C.312

DRAWING FILENAME: P:\2571-001\DWGs\Production Drawings\DD 2.0\2571-001-C.310-DD 2.0-Storm Sewer Plan & Profiles.dwg LAYOUT NAME: C.312 DATE: Feb 09, 2024 - 11:06am CAD OPERATOR: matthew
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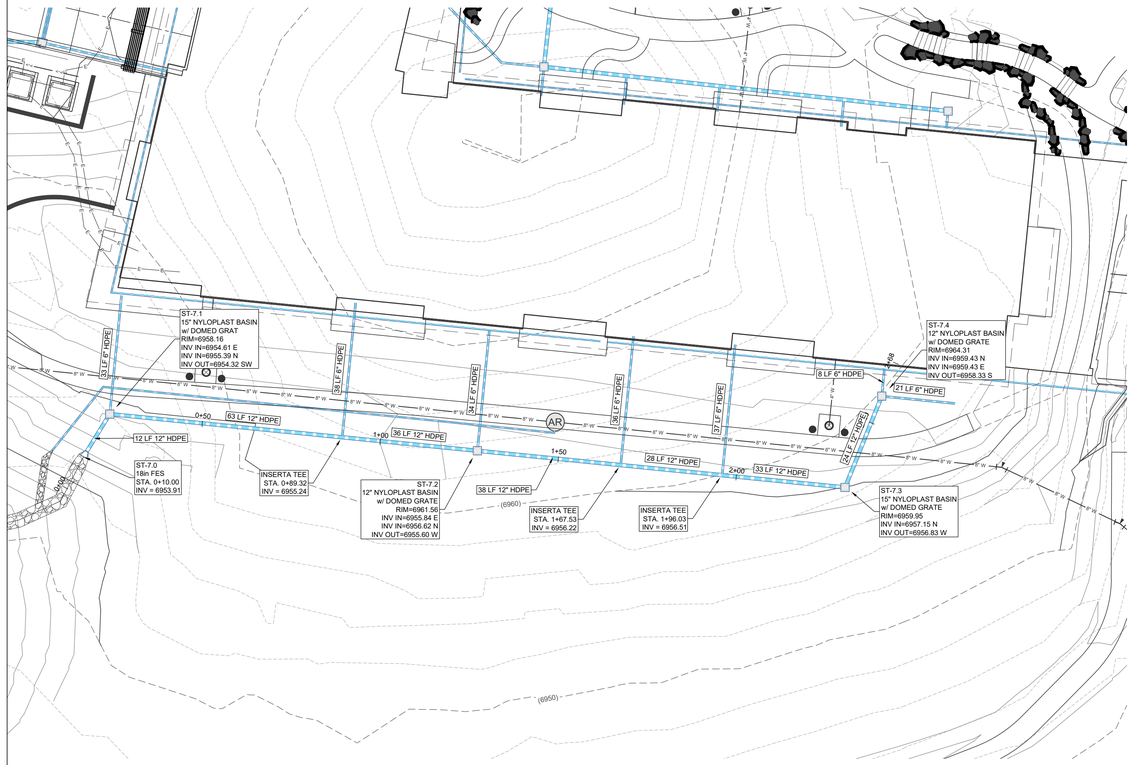
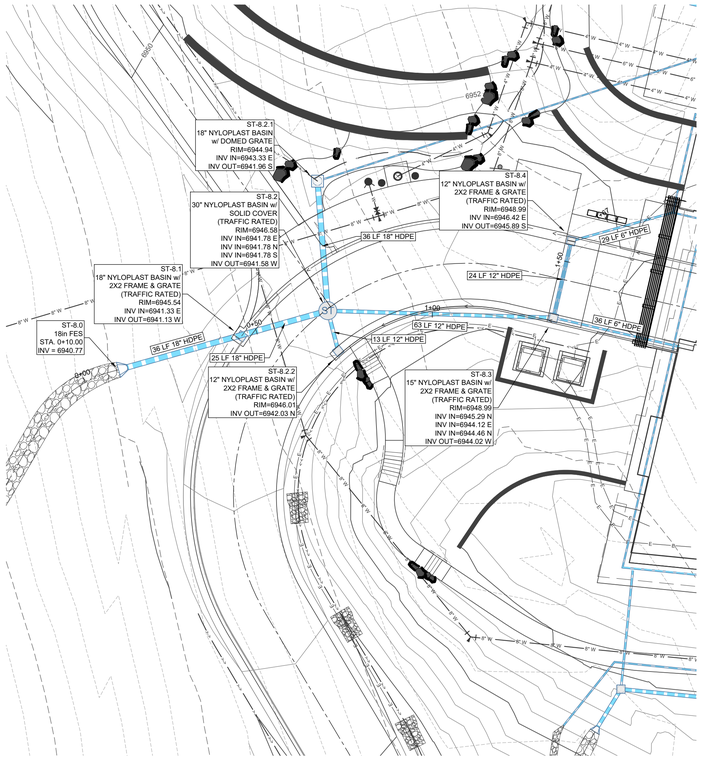
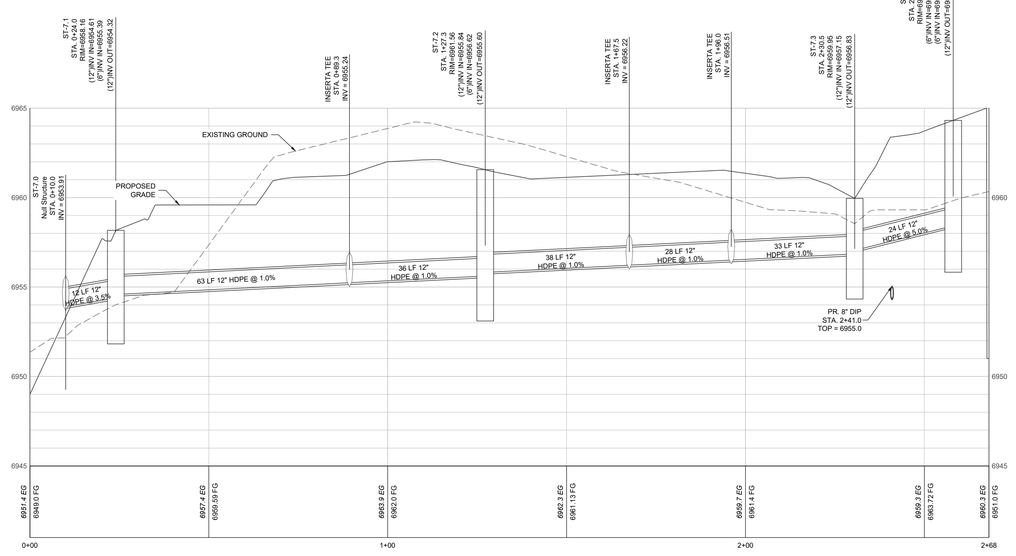
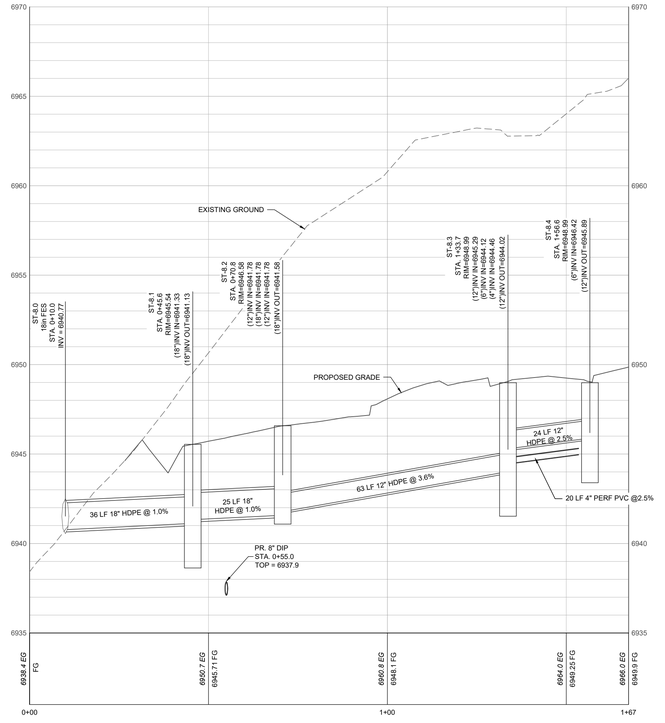


STORMLINE 7
SCALE: 1" = 20' (H) ; 1" = 4' (V)



STORMLINE 8
SCALE: 1" = 20' (H) ; 1" = 4' (V)





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20 0 20 40 60 Feet

(IN FEET)
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LEGEND:

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ST-1.0	24	NYLOPLAST	2'x2' ROAD & HIGHWAY GRATE	X	X
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ST-3.0	30X40	DENVER TYPE 16	DENVER TYP 16	X	X
ST-4.0	15	NYLOPLAST	15" DOMED GRATE	X	-
ST-5.0	30X40	DENVER TYPE 16	DENVER TYP 16	X	X
ST-6.1	18	NYLOPLAST	2'x2' ROAD & HIGHWAY GRATE	X	-
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ST-7.4	12	NYLOPLAST	12" DOMED GRATE	X	-
ST-8.1	18	NYLOPLAST	2'x2' ROAD & HIGHWAY GRATE	X	X
ST-8.2	30	NYLOPLAST	SOLID COVER	-	X
ST-8.2.1	18	NYLOPLAST	18" DOMED GRATE	X	-
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ST-8.4	12	NYLOPLAST	2'x2' ROAD & HIGHWAY GRATE	X	X
ST-9.1	24	NYLOPLAST	SOLID COVER	-	X
ST-9.2	24	NYLOPLAST	SOLID COVER	-	X
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ST-9.3.1	12	NYLOPLAST	12" DOMED GRATE	-	-
ST-9.4	15	NYLOPLAST	15" DOMED GRATE	X	-
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50740
PROFESSIONAL ENGINEER
12/15/23
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PROJECT: 2517-001
DATE: 12/15/2023
CONTACT: Matthew Eggen
EMAIL: matte@landmark-co.com

The Amble - Construction Drawings

Storm Sewer Plan & Profiles

SHEET
C.313

[DRAWING FILENAME: P:\2017-001\DWG\Production Drawings\SD 2.2\2017-001-C.314-SD 2.2-Storm Sewer Plan & Profiles.dwg LAYOUT NAME: C.313 DATE: Feb 26, 2024 - 11:06am CAD OPERATOR: matthew
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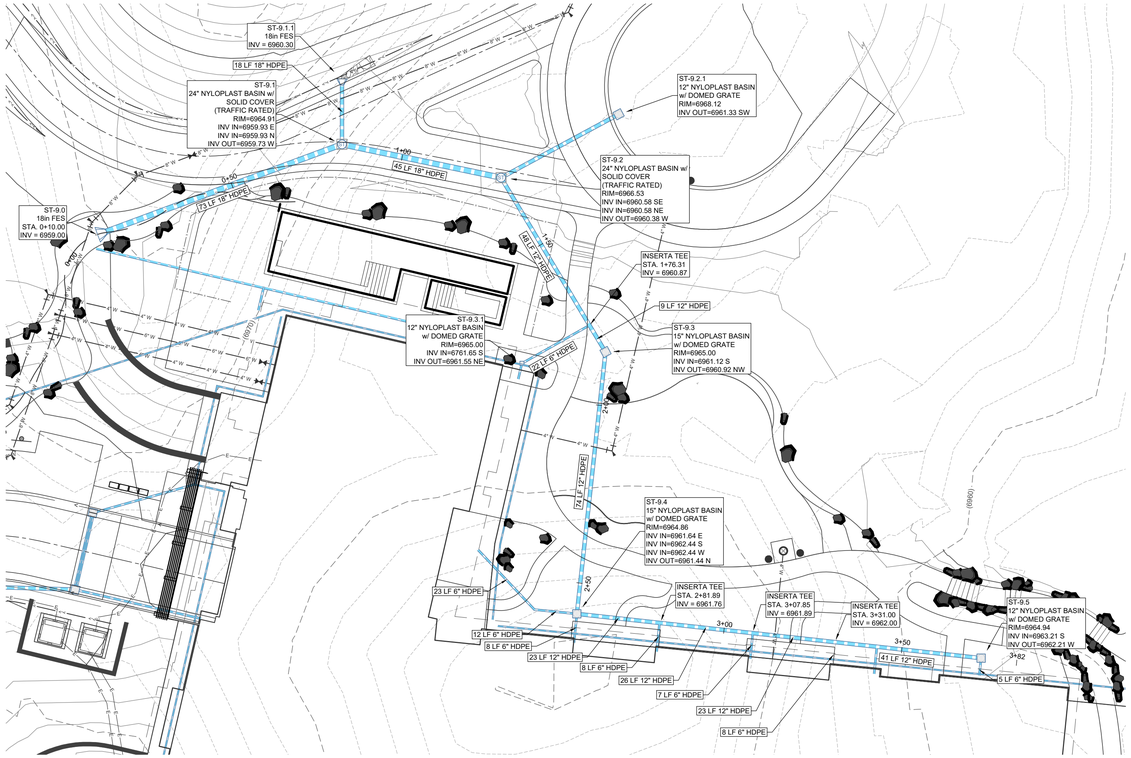

STORMLINE 9
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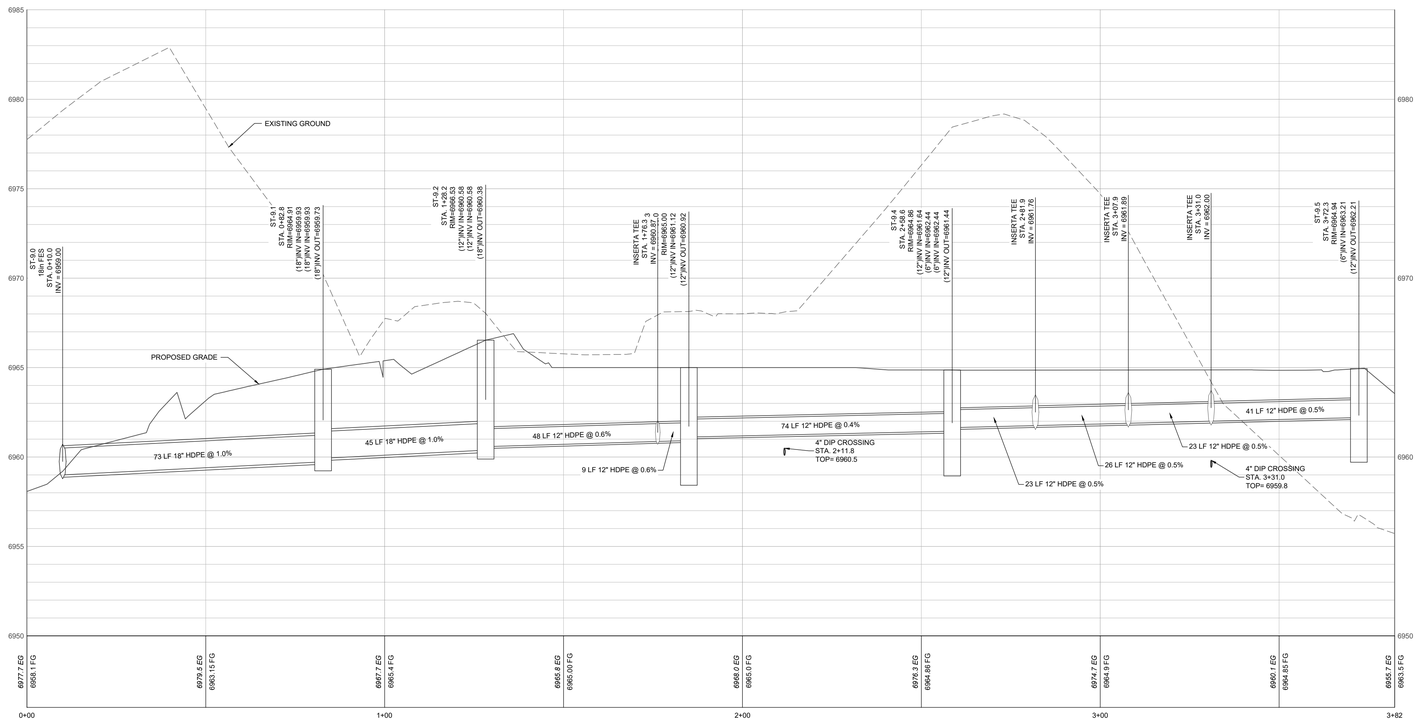

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ST-8.1	18	NYLOPLAST	2'x2' ROAD & HIGHWAY GRATE	X	X
ST-8.2	30	NYLOPLAST	SOLID COVER	-	X
ST-8.2.1	18	NYLOPLAST	18" DOMED GRATE	X	-
ST-8.2.2	12	NYLOPLAST	2'x2' ROAD & HIGHWAY GRATE	X	X
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ST-9.1	24	NYLOPLAST	SOLID COVER	-	X
ST-9.2	24	NYLOPLAST	SOLID COVER	-	X
ST-9.3	15	NYLOPLAST	15" DOMED GRATE	X	-
ST-9.3.1	12	NYLOPLAST	12" DOMED GRATE	-	-
ST-9.4	15	NYLOPLAST	15" DOMED GRATE	X	-
ST-9.5	12	NYLOPLAST	12" DOMED GRATE	X	-

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COLORADO LICENSED
MATTHEW CARL EGGEN
50740
PROFESSIONAL ENGINEER
12/15/23
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PROJECT: 2517-001
DATE: 12/15/2023
CONTACT: Matthew Eggen
EMAIL: matte@landmark-co.com

The Amble - Construction Drawings

Storm Sewer Plan & Profiles

SHEET
C.314

[DRAWING FILENAME: P:\2517-001\DWG\Production Drawings\SD 2.2\2517-001-C.314-SD 2.2-Storm Sewer Plan & Profiles.dwg LAYOUT NAME: C.314 DATE: Feb 09, 2024 - 11:06am CAD OPERATOR: matthew
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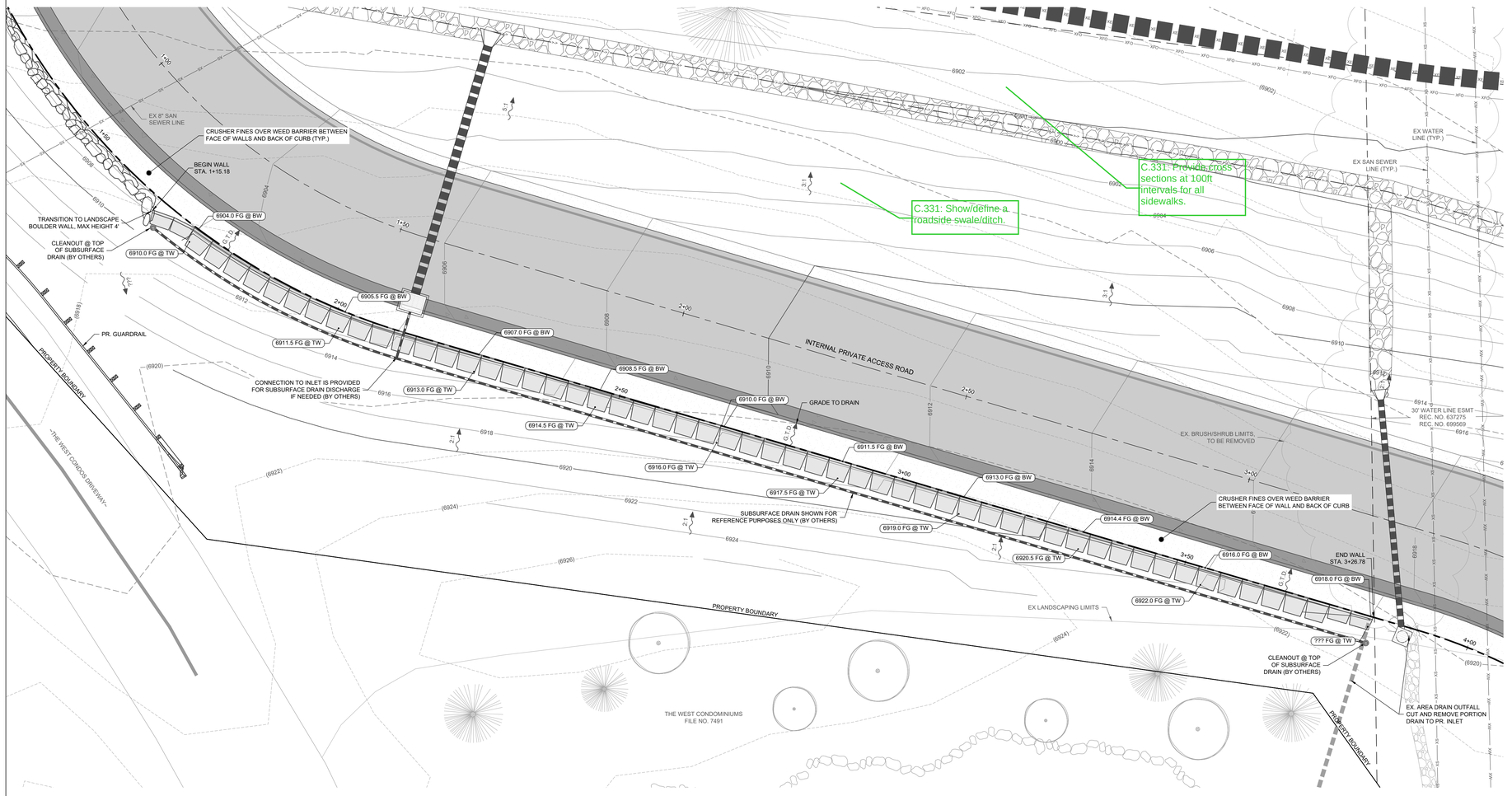

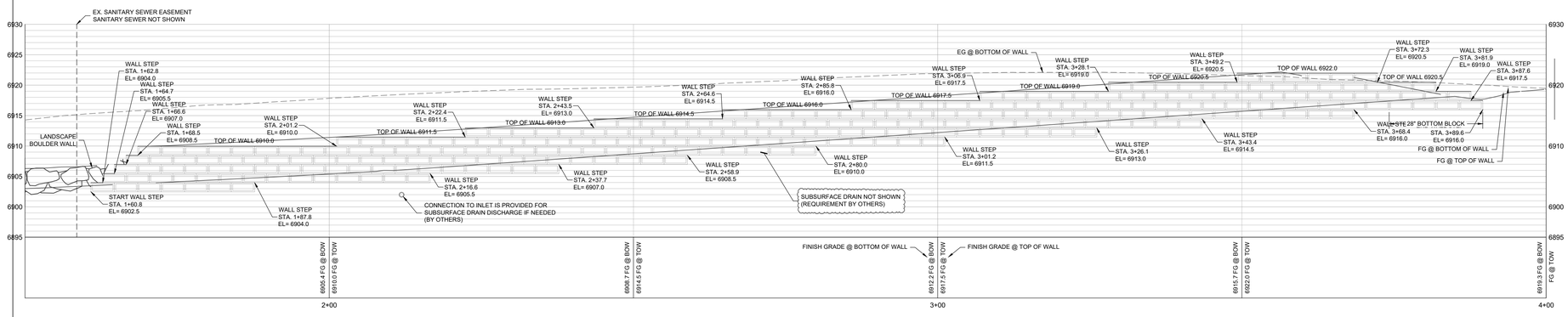

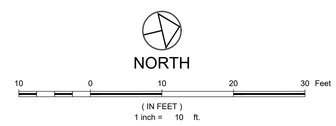

LEGEND:

- PR. MINOR CONTOUR
- PR. MAJOR CONTOUR — 6805
- EX. MINOR CONTOUR
- EX. MAJOR CONTOUR — (6800)
- PR. BUILDING
- PR. FOUNDATION
- PR. OVERHANG/ROOF
- EX. ASPHALT
- PR. ASPHALT
- PR. CONCRETE
- PR. GRAVEL
- PR. PATIO RE: LANDSCAPING
- PR. COBBLE RE: LANDSCAPING
- PR. GREEN ROOF RE: ARCH
- PR. STRUCTURE UNDER GRADE RE: ARCH
- PR. SITE WALL
- PR. REDIROCK WALL
- PR. BOLLARDS
- PR. BOLLARDS
- PR. ROCK WALL RE: LANDSCAPING
- PR. CULVERT W/ END SECTIONS
- INLET AND STORM MANHOLE — ST
- EX. CULVERT W/ END SECTIONS
- INLET AND STORM MANHOLE — ST
- PR TREES & SHRUBS RE: LANDSCAPING
- EX. CONIFEROUS AND DECIDUOUS TREE
- PR. SPOT ELEVATION — 00.10
- EX. SPOT ELEVATION — 00.10 X
- PR. OVERLAND FLOW DIRECTION W/ SLOPE — 2.0%
- PR. CHANNELIZED FLOW DIRECTION W/ SLOPE — 2.0%
- EX. CHANNELIZED FLOW DIRECTION
- PROPOSED REDI-ROCK WALL BLOCK

NOTES:

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6. THE UNREINFORCED WALL SECTIONS SYSTEM IS DESIGNED BY OTHERS AND SHOWN HEREON FOR ILLUSTRATIVE PURPOSES ONLY. REFER TO "STACKED BOULDER WALL SECTION" BY NWCC FOR ALL CONSTRUCTION REQUIREMENTS. IN THE EVENT OF A CONFLICT, THE NWCC RECOMMENDATIONS SHALL GOVERN.

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DATE: 12/15/2023
CONTACT: Matthew Eggen
EMAIL: matte@landmark-co.com

The Amble - Construction Drawings

LOWER WALLS Plan & Profile

SHEET C.320

DRAWING FILENAME: P:\2571-001\DWG\Production Drawings\SD\2 2\2571-001 C.320 SD 2 2 LOWER WALLS Plan & Profile.dwg LAYOUT NAME: C.320 DATE: Feb 09, 2024 - 11:07am CAD OPERATOR: matthew
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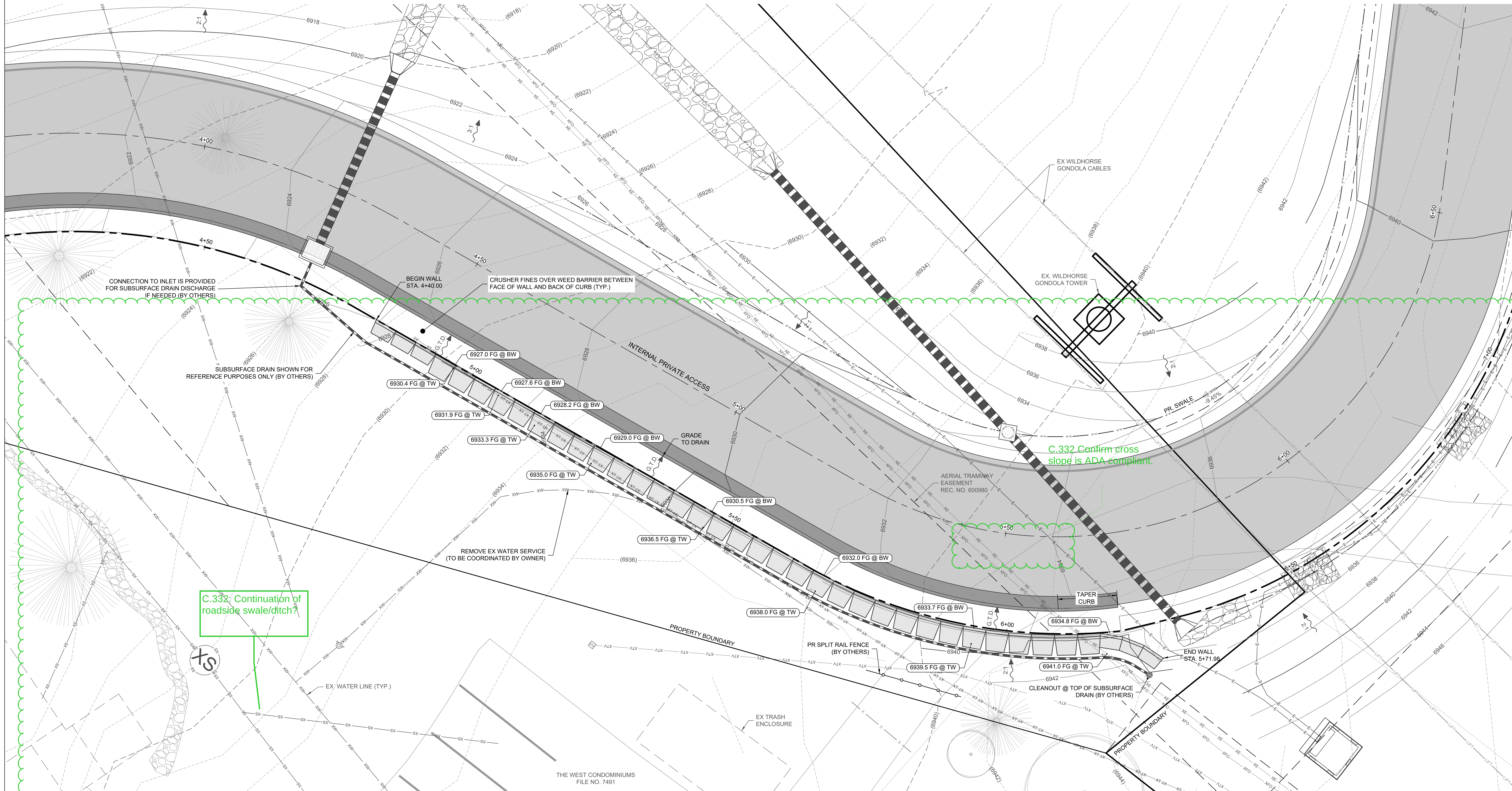


NORTH

10 0 10 20 30 Feet

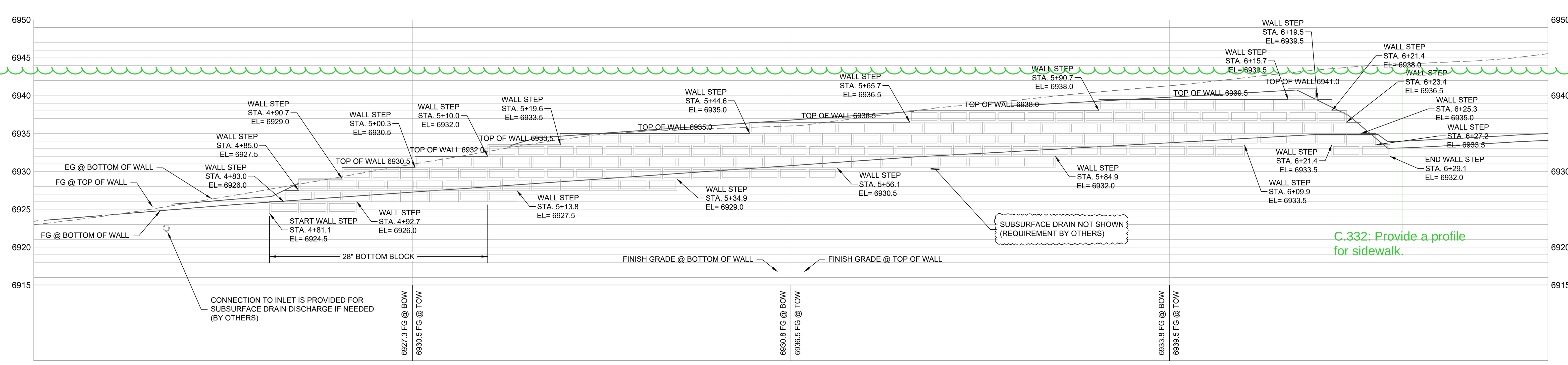
(IN FEET)
1 inch = 10 ft.

LEGEND:

- PR. MINOR CONTOUR
- PR. MAJOR CONTOUR — 6805
- EX. MINOR CONTOUR
- EX. MAJOR CONTOUR — (6800)
- PR. BUILDING
- PR. FOUNDATION
- PR. OVERHANG/ROOF
- EX. ASPHALT
- PR. ASPHALT
- PR. CONCRETE
- PR. GRAVEL
- PR. PATIO RE: LANDSCAPING
- PR. COBBLE RE: LANDSCAPING
- PR. GREEN ROOF RE: ARCH
- PR. STRUCTURE UNDER GRADE RE: ARCH
- PR. SITE WALL
- PR. REDIROCK WALL
- PR. BOLLARDS
- PR. BOLLARDS
- PR. ROCK WALL RE: LANDSCAPING
- PR. CULVERT W/ END SECTIONS
- INLET AND STORM MANHOLE
- EX. CULVERT W/ END SECTIONS
- INLET AND STORM MANHOLE
- PR TREES & SHRUBS RE: LANDSCAPING
- EX. CONIFEROUS AND DECIDUOUS TREE
- PR. SPOT ELEVATION — 00.10
- EX. SPOT ELEVATION — 00.10 X
- PR. OVERLAND FLOW DIRECTION W/ SLOPE — 2.0%
- PR. CHANNELIZED FLOW DIRECTION W/ SLOPE — 2.0%
- EX. CHANNELIZED FLOW DIRECTION
- PROPOSED REDI-ROCK WALL BLOCK

RETAINING WALL #2 (STA 4+50 - 6+50)

SCALE: 1" = 10' (H) 1" = 10' (V)



NOTES:

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2. ALL PROJECT DATA IS ON VERTICAL DATUM; NAVD 88. SEE NOTES SHEET FOR BENCHMARK REFERENCES.
3. ELEVATIONS FOR IMPROVEMENTS THAT ARE CONTROLLED BY ADJACENT EXISTING FACILITIES (SUCH AS PROPOSED GUTTERS ALONG EXISTING ASPHALT) MAY REQUIRE ADJUSTMENT BASED ON ACTUAL CONDITIONS. COORDINATE WITH ENGINEER TO ENSURE A CONSISTENT SECTION WITH SMOOTH TRANSITIONS WHERE NECESSARY.
4. SEE SOILS REPORT FOR PAVEMENT, SUBGRADE AND MATERIAL PREPARATION, DESIGN AND RECOMMENDATIONS.
5. ALL CURB SPOTS SHOWN ARE FLOWLINE ELEVATIONS, UNLESS NOTED OTHERWISE. ALL OTHER SPOTS ARE FINISHED GRADE ELEVATIONS.
6. THE UNREINFORCED WALL SECTIONS SYSTEM IS DESIGNED BY OTHERS AND SHOWN HEREON FOR ILLUSTRATIVE PURPOSES ONLY. REFER TO "STACKED BOULDER WALL SECTION" BY NWCC FOR ALL CONSTRUCTION REQUIREMENTS. IN THE EVENT OF A CONFLICT, THE NWCC RECOMMENDATIONS SHALL GOVERN.

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COLORADO LICENSED PROFESSIONAL ENGINEER MATTHEW CARL EGGEN 50740 12/15/23

NOT VALID WITHOUT ORIGINAL SIGNATURE AND DATE

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CIVIL ENGINEERS | SURVEYORS
141 9th Street ~ P.O. Box 774943, Steamboat Springs, CO 80477
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Reviewed for Code Compliance
04/01/2024

NO.	DATE:	BY:	DESCRIPTION:
1	02.08.2024	MCE	PERMIT COMMENT RESPONSE

PROJECT:	2571-001
DATE:	12/15/2023
CONTACT:	Matthew Eggen
EMAIL:	matte@landmark-co.com

The Amble - Construction Drawings

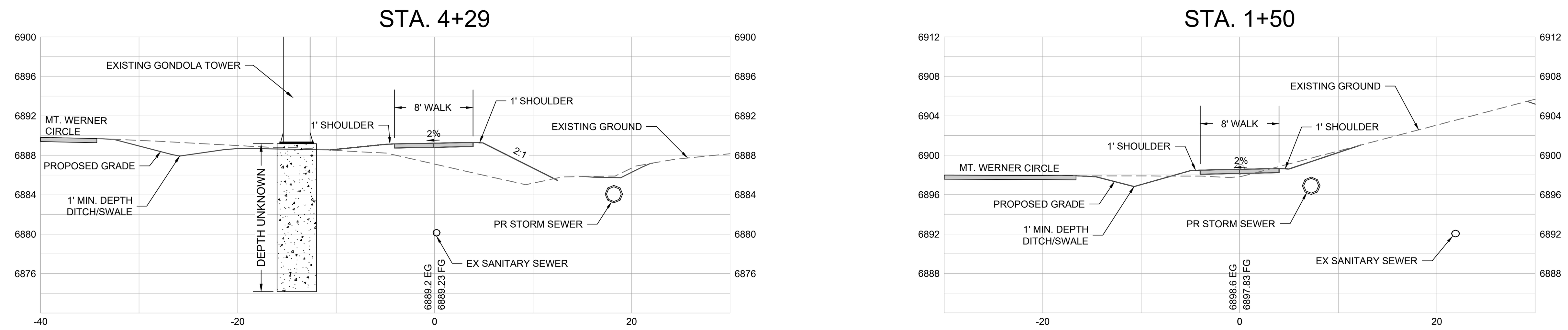
LOWER WALLS Plan & Profile

SHEET
C.321

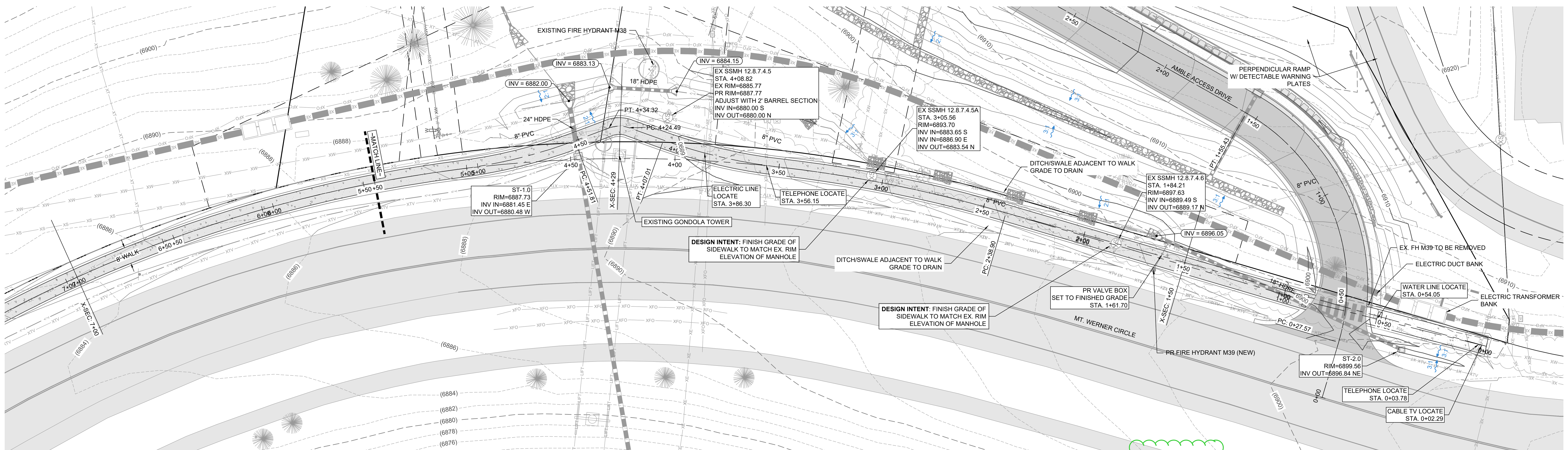
DRAWING FILENAME: P:\2571-001\DWGs\Production Drawings\DD 2.0\2571-001-C.320-DD 2.0-LOWER WALLS Plan & Profile.dwg LAYOUT NAME: C.321 DATE: Feb 09, 2024 - 11:07am CAD OPERATOR: matthew
LIST OF XREFS: [xGRAD_Leg] [2571-001-xBndy] [2571-001-xBndy-Offsite] [2571-001-xExist] [2571-001-xExist-Utils] [2571-001-xHatch-PP] [2571-001-xPlat-PP] [2571-001-xSite-PP] [2571-001-xUserEsmt] [2571-001-xExist-Demo] [2571-001-xUtil-PP] [xBORDER-CDs]

NORTH

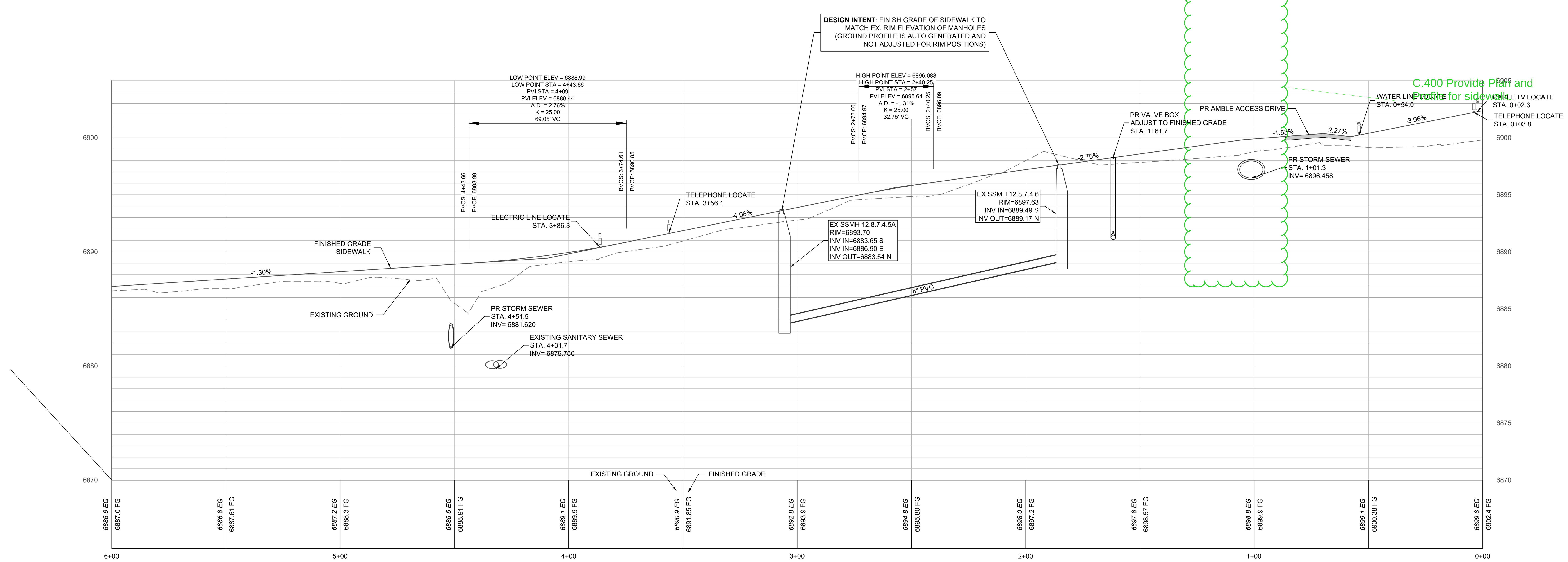
40 0 40 80 120 Feet
(IN FEET)
1 inch = 40 ft.



WEST MT. WERNER CIRCLE SIDEWALK - CROSS SECTIONS - STA: 1+50 - 4+29
SCALE: 1" = 10' (H); 1" = 10' (V)



WEST MT. WERNER CIRCLE SIDEWALK - PLAN & PROFILE - STA: 0+00 - 6+00
SCALE: 1" = 30' (H); 1" = 6' (V)



LEGEND:

- PR. MINOR CONTOUR
- PR. MAJOR CONTOUR (6805)
- EX. MINOR CONTOUR
- EX. MAJOR CONTOUR (6800)
- PR. BUILDING
- PR. FOUNDATION
- PR. OVERHANG/ROOF
- EX. ASPHALT
- PR. ASPHALT
- PR. CONCRETE
- PR. GRAVEL
- PR. PATIO RE: LANDSCAPING
- PR. COBBLE RE: LANDSCAPING
- PR. GREEN ROOF RE: ARCH
- PR. STRUCTURE UNDER GRADE RE: ARCH
- PR. SITE WALL
- PR. REDIROCK WALL
- PR. BOLLARDS
- PR. BOLLARDS
- PR. ROCK WALL RE: LANDSCAPING
- PR. CULVERT W/ END SECTIONS
- INLET AND STORM MANHOLE
- EX. CULVERT W/ END SECTIONS
- INLET AND STORM MANHOLE
- PR TREES & SHRUBS RE: LANDSCAPING
- EX. CONIFEROUS AND DECIDUOUS TREE
- PR. SPOT ELEVATION (00.10)
- EX. SPOT ELEVATION (00.10 X)
- PR. OVERLAND FLOW DIRECTION W/ SLOPE (2.0%)
- PR. CHANNELIZED FLOW DIRECTION W/ SLOPE (2.0%)
- EX. CHANNELIZED FLOW DIRECTION
- APPROX. LIMITS OF GRADING

NOTES:

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COLORADO LICENSED
MATTHEW CARL EGGEN
50740
12/15/23
PROFESSIONAL ENGINEER
NOT VALID WITHOUT ORIGINAL SIGNATURE AND DATE

LANDMARK CONSULTANTS, INC.
CIVIL ENGINEERS | SURVEYORS
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Reviewed for Code Compliance
04/01/2024

NO.	DATE:	BY:	DESCRIPTION:
1	02.08.2024	MCE	PERMIT COMMENT RESPONSE

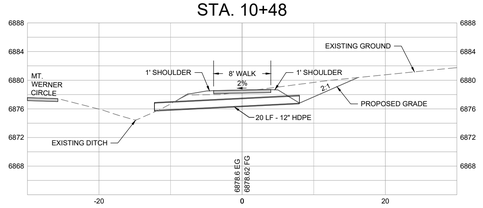
PROJECT:	2571-001
DATE:	12/15/2023
CONTACT:	Matthew Eggen
EMAIL:	matte@landmark-co.com

The Amble - Construction Drawings
Sidewalk Plan & Profile

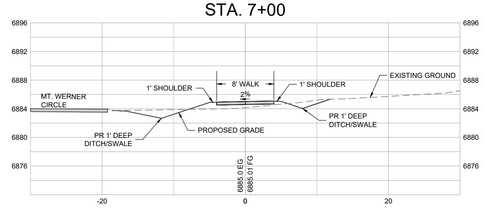
SHEET
C.330

DRAWING FILENAME: P:\2571-001\DWGs\Production Drawings\DD 2.0\2571-001-C.330-DD Sidewalk Plan & Profiles.dwg LAYOUT NAME: C.330 DATE: Feb 09, 2024 - 11:07am CAD OPERATOR: matthew
LIST OF XREFS: [2571-001-xExist-Demo] [2571-001-xExist-Utils] [2571-001-xUtil-PP] [2571-001-xUtil-DP] [2571-001-xSite-PP] [2571-001-xSite-DP] [2571-001-xHatch-Exist] [2571-001-xHatch-PP] [2571-001-xHatch-DP] [XBORDER-CDs] [XGRAD_Leg] [2571-001-xPlat-PP] [2571-001-xBndy]

STA. 10+48

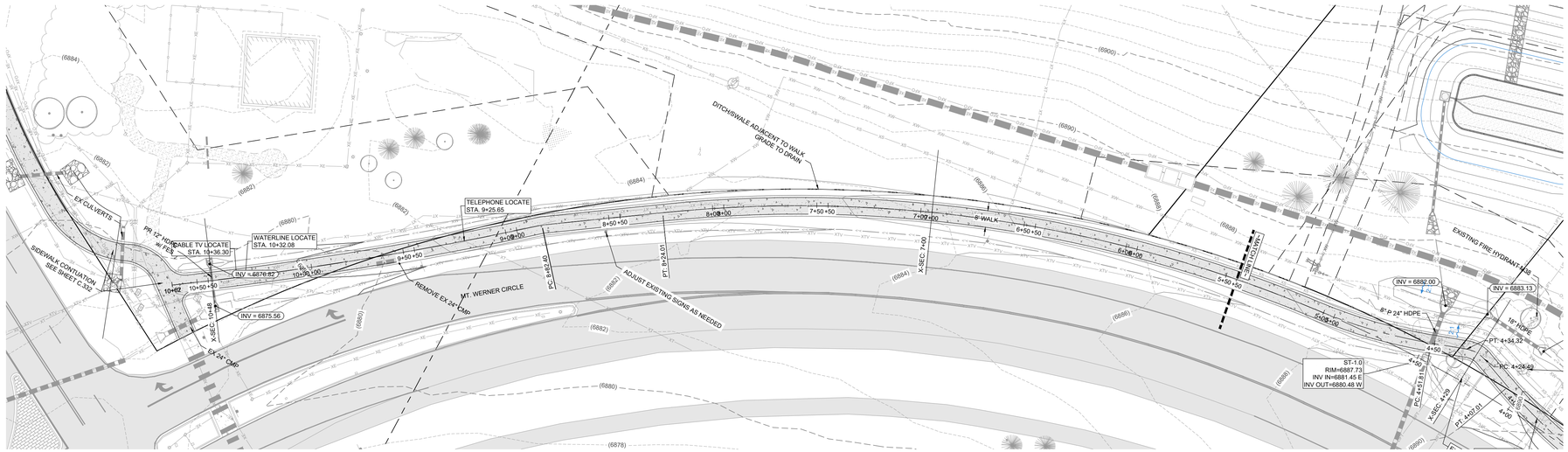


STA. 7+00



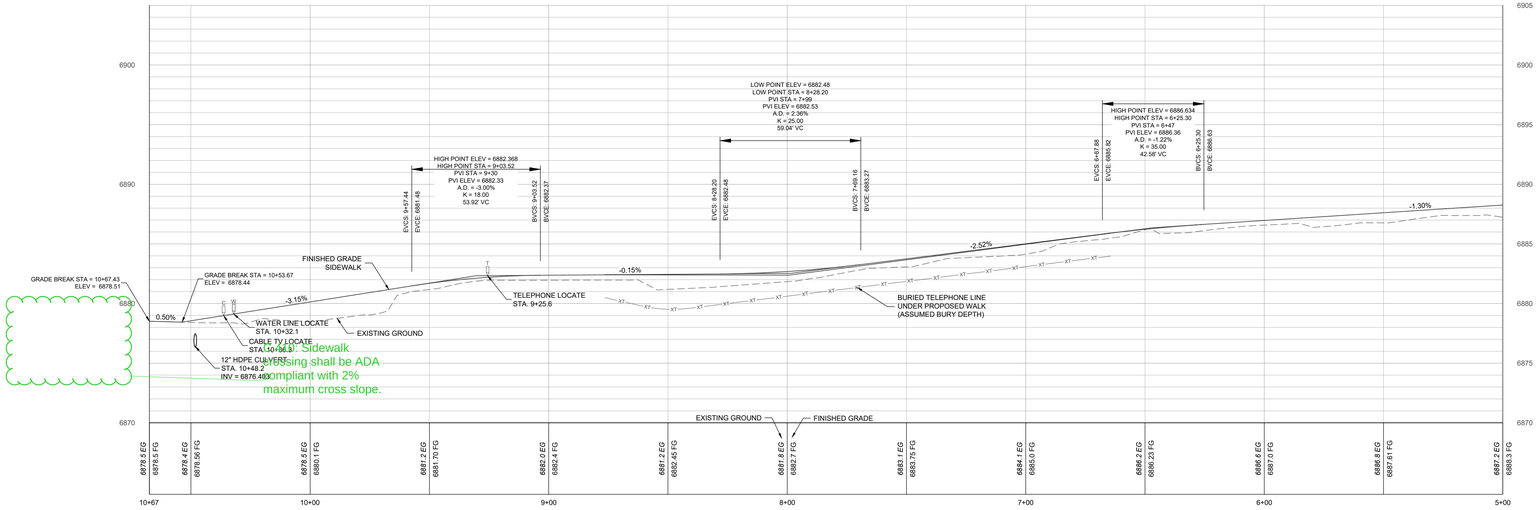
WEST MT. WERNER CIRCLE SIDEWALK - CROSS SECTIONS - STA: 7+00 - 10+48

SCALE: 1" = 10' (H); 1" = 10' (V)



WEST MT. WERNER CIRCLE SIDEWALK - PLAN & PROFILE - STA: 0+00 - 6+00

SCALE: 1" = 30' (H); 1" = 6' (V)



NORTH

40 0 40 80 120 Feet

(IN FEET)
1 inch = 40 ft.

LEGEND:

- PR. MINOR CONTOUR
- PR. MAJOR CONTOUR — 6805
- EX. MINOR CONTOUR
- EX. MAJOR CONTOUR — (6880)
- PR. BUILDING
- PR. FOUNDATION
- PR. OVERHANG/ROOF
- EX. ASPHALT
- PR. ASPHALT
- PR. CONCRETE
- PR. GRAVEL
- PR. PATIO RE: LANDSCAPING
- PR. COBBLE RE: LANDSCAPING
- PR. GREEN ROOF RE: ARCH
- PR. STRUCTURE UNDER GRADE RE: ARCH
- PR. SITE WALL
- PR. REDIROCK WALL
- PR. BOLLARDS
- PR. BOLLARDS
- PR. ROCK WALL RE: LANDSCAPING
- PR. CULVERT W/ END SECTIONS
- INLET AND STORM MANHOLE — ST
- EX. CULVERT W/ END SECTIONS
- INLET AND STORM MANHOLE — ST
- PR TREES & SHRUBS RE: LANDSCAPING
- EX. CONIFEROUS AND DECIDUOUS TREE
- PR. SPOT ELEVATION — 00.10
- EX. SPOT ELEVATION — 00.10 X
- PR. OVERLAND FLOW DIRECTION W/ SLOPE — 2.0%
- PR. CHANNELIZED FLOW DIRECTION W/ SLOPE — 2.0%
- EX. CHANNELIZED FLOW DIRECTION
- APPROX. LIMITS OF GRADING

NOTES:

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CALL UTILITY NOTIFICATION CENTER OF COLORADO

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COLORADO LICENSED MATTHEW CARL FERGUSON 50740 PROFESSIONAL ENGINEER 12/15/23

NOT VALID WITHOUT ORIGINAL SIGNATURE AND DATE

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Reviewed for Code Compliance

04/01/2024

NO.	DATE:	BY:	DESCRIPTION:
1	02.08.2024	MCE	PERMIT COMMENT RESPONSE

PROJECT:	257-091
DATE:	12/15/2023
CONTACT:	Matthew Eggen
EMAIL:	matte@landmark-co.com

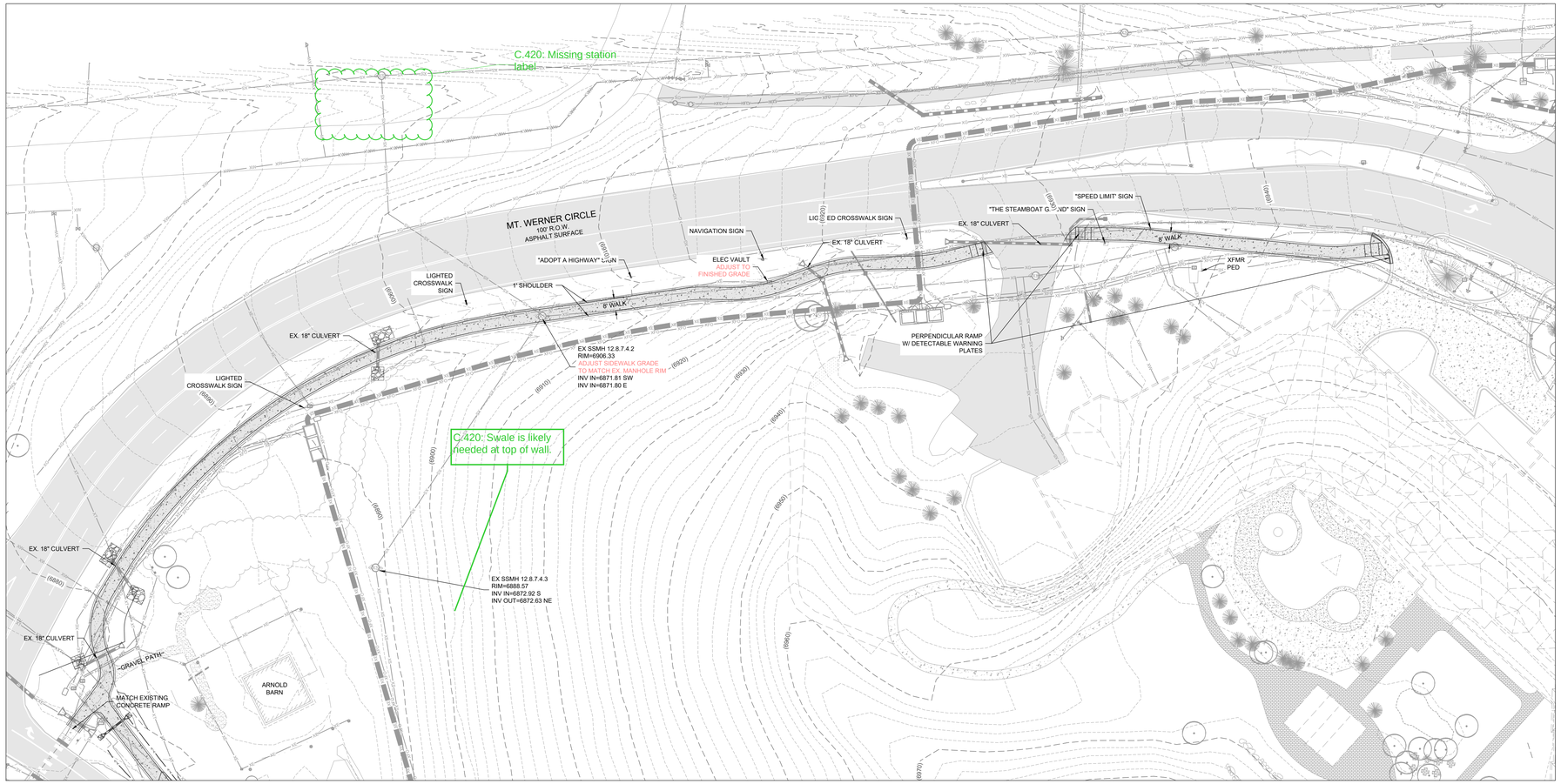
The Amble - Construction Drawings

Sidewalk Plan & Profile

SHEET

C.331

DRAWING FILENAME: P:\257-091\DWG\Production Drawings\SD 2.0\257-091-C-330-SD Sidewalk Plan & Profiles.dwg LAYOUT NAME: C.331 DATE: Feb 09, 2024 - 11:07am CAD OPERATOR: matthew
LIST OF XREFS: [257-091-xBase\Demo].[257-091-xBase\Lines].[257-091-xBase\PP].[257-091-xBase\Points].[257-091-xBase\Surface].[257-091-xBase\TP].[257-091-xBase\Utilities].[257-091-xPlat\PLSS].[257-091-xPlat\Plat].[ABORDEN CAD].[ACAD].[Aq].[257-091-xPlat\PLSS].[257-091-xBase]



NORTH

40 0 40 80 120 Feet

(IN FEET)
1 inch = 40 ft.

LEGEND:

- PR. MINOR CONTOUR
- PR. MAJOR CONTOUR — 6805
- EX. MINOR CONTOUR
- EX. MAJOR CONTOUR — (6800)
- PR. BUILDING
- PR. FOUNDATION
- PR. OVERHANG/ROOF
- EX. ASPHALT
- PR. ASPHALT
- PR. CONCRETE
- PR. GRAVEL
- PR. PATIO RE: LANDSCAPING
- PR. COBBLE RE: LANDSCAPING
- PR. GREEN ROOF RE: ARCH
- PR. STRUCTURE UNDER GRADE RE: ARCH
- PR. SITE WALL
- PR. REDIROCK WALL
- PR. BOLLARDS
- PR. BOLLARDS
- PR. ROCK WALL RE: LANDSCAPING
- PR. CULVERT W/ END SECTIONS
- INLET AND STORM MANHOLE (ST)
- EX. CULVERT W/ END SECTIONS
- INLET AND STORM MANHOLE (ST)
- PR TREES & SHRUBS RE: LANDSCAPING
- EX. CONIFEROUS AND DECIDUOUS TREE
- PR. SPOT ELEVATION — 00.10
- EX. SPOT ELEVATION — 00.10 X
- PR. OVERLAND FLOW DIRECTION W/ SLOPE — 2.0%
- PR. CHANNELIZED FLOW DIRECTION W/ SLOPE — 2.0%
- EX. CHANNELIZED FLOW DIRECTION
- APPROX. LIMITS OF GRADING

NOTES:

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COLORADO LICENSED MATTHEW CARL EGGEN 50740 PROFESSIONAL ENGINEER 12/15/23

NOT VALID WITHOUT ORIGINAL SIGNATURE AND DATE

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Reviewed for Code Compliance

04/01/2024

NO.	DATE:	BY:	DESCRIPTION:
1	02.08.2024	MCE	PERMIT COMMENT RESPONSE

PROJECT:	2571-001
DATE:	12/15/2023
CONTACT:	Matthew Eggen
EMAIL:	matte@landmark-co.com

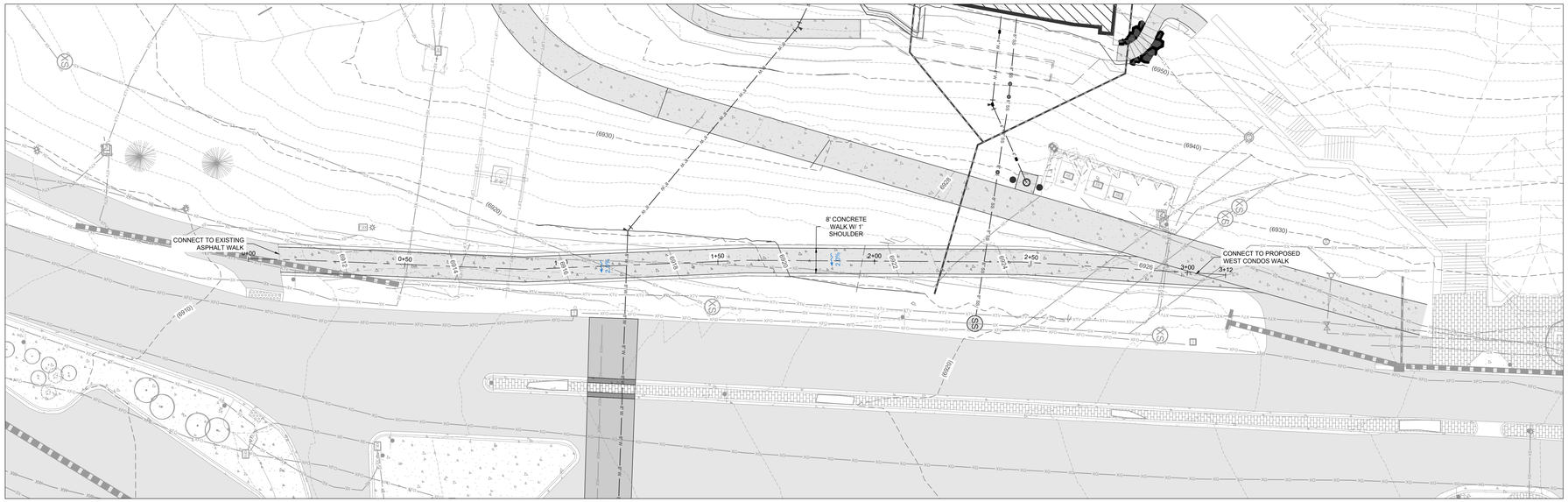
The Amble - Construction Drawings

Sidewalk Plan

SHEET

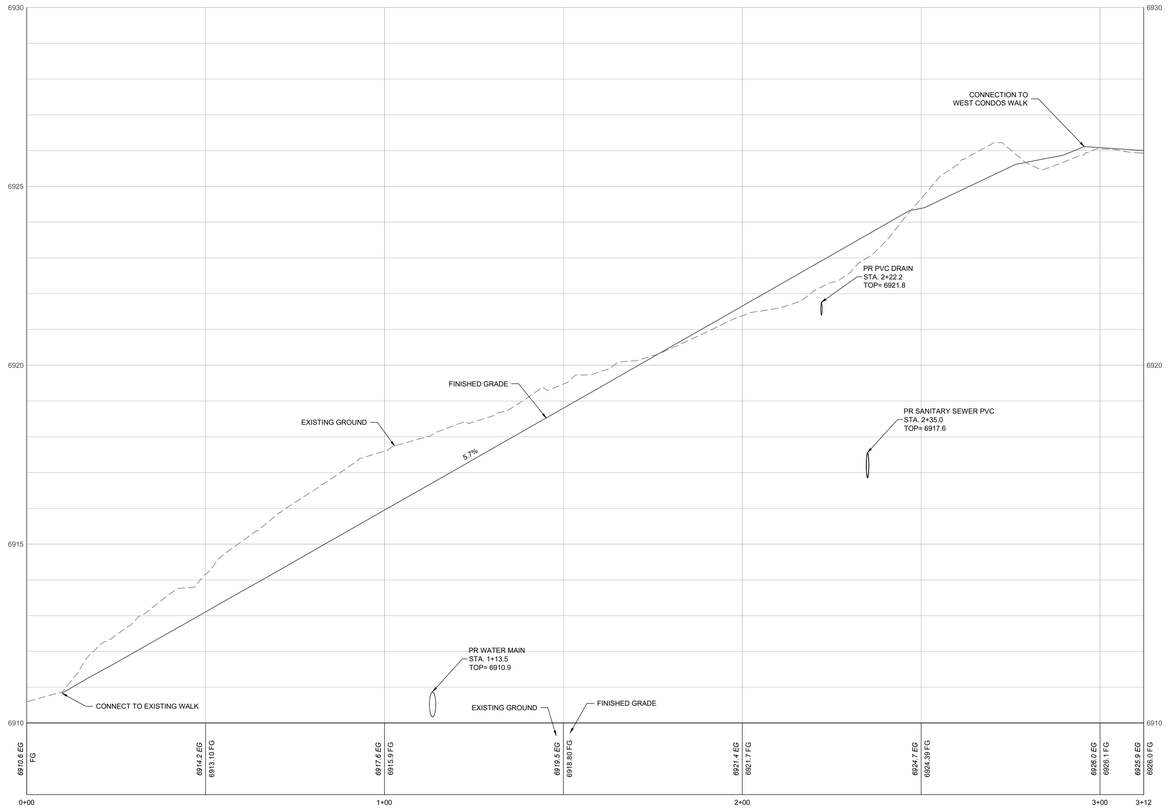
C.332

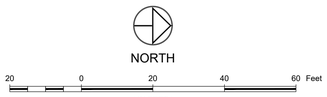
DRAWING FILENAME: P:\2571-001\Work\Production Drawings\SDO 2.2\2571-001-C.332-SDO Sidewalk Plan.dwg LAYOUT NAME: C.332 DATE: Feb 09, 2024 - 11:07am CAD OPERATOR: matthew
LIST OF XREFS: 2571-001-xbase.dwg|2571-001-xbase-Ecosystems.dwg|2571-001-xbase-Event.dwg|2571-001-xbase-PP.dwg|2571-001-xbase-PP-LEGEND.dwg|2571-001-xbase-PP-LEGEND-CIVIL.dwg|2571-001-xbase-PP.dwg|2571-001-xbase-PP|2571-001-xbase-PP|2571-001-xbase-PP|2571-001-xbase-PP|2571-001-xbase-PP



EAST MT. WERNER CIRCLE SIDEWALK - PLAN & PROFILE - STA: 0+00 - 3+12

SCALE: 1" = 20' (H); 1" = 2' (V)





LEGEND:

- PR. MINOR CONTOUR
- PR. MAJOR CONTOUR — 6805
- EX. MINOR CONTOUR
- EX. MAJOR CONTOUR — (6800)
- PR. BUILDING
- PR. FOUNDATION
- PR. OVERHANG/ROOF
- EX. ASPHALT
- PR. ASPHALT
- PR. CONCRETE
- PR. GRAVEL
- PR. PATIO RE: LANDSCAPING
- PR. COBBLE RE: LANDSCAPING
- PR. GREEN ROOF RE: ARCH
- PR. STRUCTURE UNDER GRADE RE: ARCH
- PR. SITE WALL
- PR. REDIROCK WALL
- PR. BOLLARDS
- PR. BOLLARDS
- PR. ROCK WALL RE: LANDSCAPING
- PR. CULVERT W/ END SECTIONS
- INLET AND STORM MANHOLE — ST
- EX. CULVERT W/ END SECTIONS
- INLET AND STORM MANHOLE — ST
- PR TREES & SHRUBS RE: LANDSCAPING
- EX. CONIFEROUS AND DECIDUOUS TREE — CD
- PR. SPOT ELEVATION — 00.10
- EX. SPOT ELEVATION — 00.10 X
- PR. OVERLAND FLOW DIRECTION W/ SLOPE — 2.0%
- PR. CHANNELIZED FLOW DIRECTION W/ SLOPE — 2.0%
- EX. CHANNELIZED FLOW DIRECTION
- APPROX. LIMITS OF GRADING

NOTES:

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2. ALL PROJECT DATA IS ON VERTICAL DATUM; NAVD 88. SEE NOTES SHEET FOR BENCHMARK REFERENCES.
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CIVIL ENGINEERS | SURVEYORS
141 9th Street – P.O. Box 774943, Steamboat Springs, CO 80477
(970) 871-9494 – www.LANDMARK-CO.com

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Reviewed for Code Compliance

04/01/2024

NO.	DATE:	BY:	DESCRIPTION:
1	02.08.2024	MCE	PERMIT COMMENT RESPONSE

PROJECT:	2571-001
DATE:	12/15/2023
CONTACT:	Matthew Eggen
EMAIL:	matte@landmark-co.com

The Amble - Construction Drawings

Sidewalk Plan & Profile

SHEET

C.333

DRAWING FILENAME: P:\2571-001\Work\Production Drawings\SDO 2.2\2571-001-C.333-SDO Sidewalk Plan.dwg LAYOUT NAME: C.333 DATE: Feb 09, 2024 - 11:07am CAD OPERATOR: matthew
LIST OF XREFS: [2571-001-xbase.dwg] [2571-001-xBaseSurface.dwg] [2571-001-xbase-Ewag] [2571-001-xbase-PR] [2571-001-xbase-PR] [BORDER-C24x36] [xCHAD_Cap] [2571-001-xbase-SP] [2571-001-xbase-SP] [2571-001-xbase-SP] [2571-001-xbase-SP]

NORTH

60 0 60 120 180 Feet

(IN FEET)
1 inch = 60 ft.

LEGEND:

1.0 PAVING

- 1.1 CONCRETE PAVING
  - 1.1A 4" THICK SIDEWALK
  - 1.1B 5" THICK SIDEWALK
  - 1.1C 4" THICK SIDEWALK (ON EXISTING SOFT SURFACE TRAIL)
  - 1.1D 5" THICK SIDEWALK (ON EXISTING SOFT SURFACE TRAIL)
  - 1.1E SNOWMELT CONCRETE
- 1.2 ASPHALT PAVING
  - 1.2A HEAVY TRAFFIC (MIN. 4" HSA THICKNESS)
  - 1.2B REHABILITATION-TBD*

** APPROXIMATE AREAS SUBJECT TO MILL/OVERLAY, PATCHING, REPAIR - ACTUAL LIMITS TO BE FIELD DETERMINED AND COORDINATED WITH GEOTECH)*

- 1.3 CONCRETE CURB & GUTTER
  - 1.3A CATCH CURB
  - 1.3B MOUNTABLE CURB
  - 1.3C THICKENED EDGE RIBBON CURB
  - 1.3D CONCRETE COLLAR (SAND FILTER)
- 1.4 CURB RAMP
  - 1.4A CDOT TYPE 1 PERPENDICULAR RAMP (TYPICAL) w/ DETECTABLE WARNING PLATES
- 1.5 GRAVEL SURFACING
  - 1.5A 2 FOOT WIDE GRAVEL SHOULDER

2.0 PAINTING / STRIPING

- 2.1 STOP BAR
- 2.2 4-INCH WIDE SOLID WHITE (PARKING/FOG LINE)
- 2.3 CROSSWALK STRIPING

3.0 SIGNAGE

- 3.1 STOP SIGN (R1-1)
- 3.2 NO PARKING ANY TIME (R7-1L)
- 3.3 DO NOT ENTER SIGN (R5-1)
- 3.4 6" BOLLARD

4.0 GUARD RAIL

- 4.1 CDOT MIDWEST GUARDRAIL SYSTEM (MGS)
  - 4.1A TIMBER POST w/ WOOD POST & BLOCK
  - 4.1B TERMINAL END SECTION (FLARED)

5.0 UNREINFORCED RETAINING WALL

PR. ASPHALT
PR. CONCRETE
PR. SNOWMELT CONCRETE
PR. PAVERS
PR. GRAVEL SHOULDERING
PROPOSED SIGN

NOTES:

1. ALL SIGNAGE AND MARKINGS SHALL CONFORM TO THE CURRENT VERSION OF THE M.U.T.C.D.
2. ALL SYMBOLS, INCLUDING ARROWS, 'ONLYS', CROSSWALKS, STOP BARS, ETC. SHALL BE PRE-FORMED THERMOPLASTIC.
3. ALL LANE LINES FOR ASPHALT PAVEMENT SHALL RECEIVE TWO COATS OF LATEX PAINT WITH GLASS BEADS.
4. ALL LANE LINES FOR CONCRETE SHALL BE EPOXY PAINT.
5. EPOXY APPLICATIONS SHALL BE APPLIED AS SPECIFIED IN CDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
6. ALL SURFACES SHALL BE THOROUGHLY CLEANED PRIOR TO INSTALLATION OF STRIPING OR MARKINGS.
7. THE SIGN INSTALLER SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND UTILITIES.
8. SPECIAL CARE SHALL BE TAKEN IN SIGN LOCATION TO ENSURE AN UNOBSTRUCTED VIEW OF EACH SIGN.
9. SIGNAGE AND STRIPING HAS BEEN DETERMINED BY INFORMATION AVAILABLE AT THE TIME OF REVIEW. ENGINEER RESERVES THE RIGHT TO REQUIRE ADDITIONAL SIGNAGE AND/OR STRIPING IF CONDITIONS WARRANT SUCH SIGNAGE ACCORDING TO THE MUTCD OR THE CDOT M&S STANDARDS. ALL SIGNAGE AND STRIPING SHALL FALL UNDER ANY REQUIREMENTS FOR WARRANTY PERIODS FOR NEW CONSTRUCTION (EXCEPT FOR NORMAL WEAR ON TRAFFIC MARKINGS).
10. SLEEVES FOR DELINEATORS AND SIGN POSTS SHALL BE REQUIRED FOR USE IN ISLANDS/MEDIANS.
11. SEE SOILS REPORT FOR PAVEMENT, SUBGRADE AND MATERIAL PREPARATION, DESIGN AND RECOMMENDATIONS.
12. **THE SCOPE REFLECTED ON THIS PLAN SHALL ONLY BE USED FOR ITEMS SPECIFIED AND DETAILED ON DRAWINGS PREPARED BY LANDMARK CONSULTANTS, INC. REFERENCES TO "BY OTHERS", "LANDSCAPE", "LANDSCAPE PLANS" AND/OR SIMILAR NOTATION ARE EXCLUDED FROM THIS PLAN. CONTACT LANDMARK CONSULTANTS, INC. AND THE DESIGN TEAM IF DISCREPANCIES ARE DISCOVERED.**

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COLORADO LICENSED MATTHEW CARL EGGEN 50740 12/15/23 PROFESSIONAL ENGINEER

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CONTACT:	Matthew Eggen
EMAIL:	matte@landmark-co.com

The Amble - Construction Drawings

Overall Materials Signage and Striping Plan

SHEET
C.400

DRAWING FILENAME: P:\2571-001\DWGs\Production Drawings\DD 2.0\2571-001-DD 2.0-C.400-Overall Materials Signage and Striping Plan.dwg LAYOUT NAME: C.400 DATE: Feb 09, 2024 - 11:08am CAD OPERATOR: matthew
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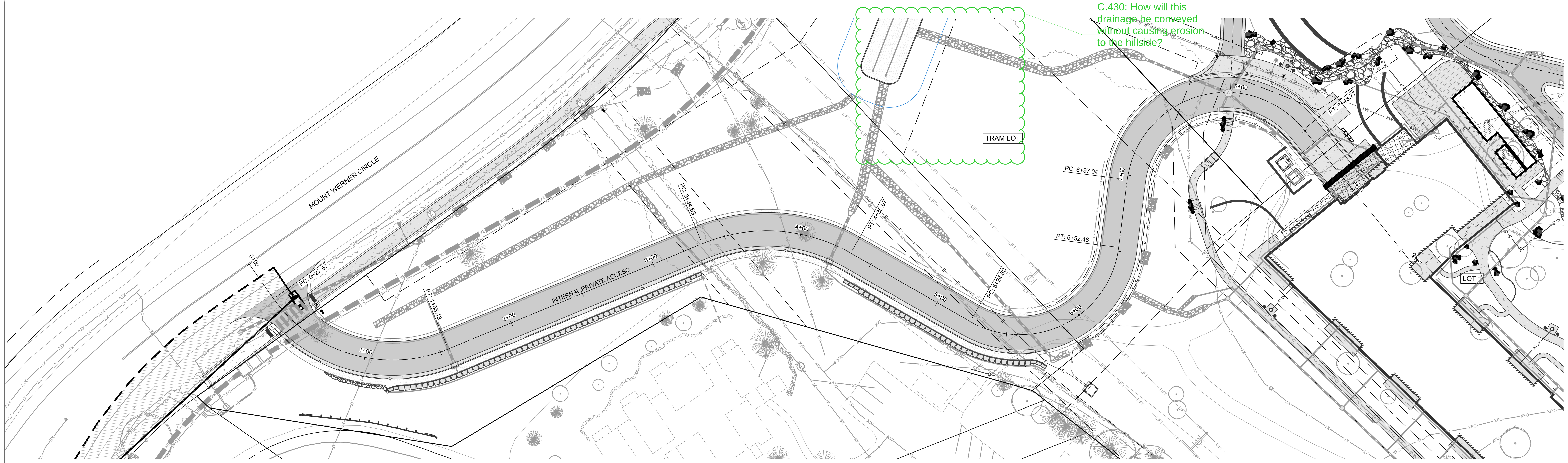
DRAWING FILENAME: P:\2571-001\DWGs\Production Drawings\DD 2.0\2571-001-C.410-DD 2.0-Roadway Plan & Profile.dwg LAYOUT NAME: C.410 DATE: Feb 09, 2024 - 11:08am CAD OPERATOR: matthew
LIST OF XREFS: [xGRAD_Leg] [2571-001-xUtil-PP] [2571-001-xBndy] [2571-001-xBndy-Offsite] [2571-001-xExist] [2571-001-xExist-Utils] [2571-001-xHatch-PP] [2571-001-xSite-PP] [2571-001-xPlat-PP] [2571-001-xUtil-DP] [2571-001-xSite-DP] [2571-001-xHatch-DP] [xBORDER-CDs]

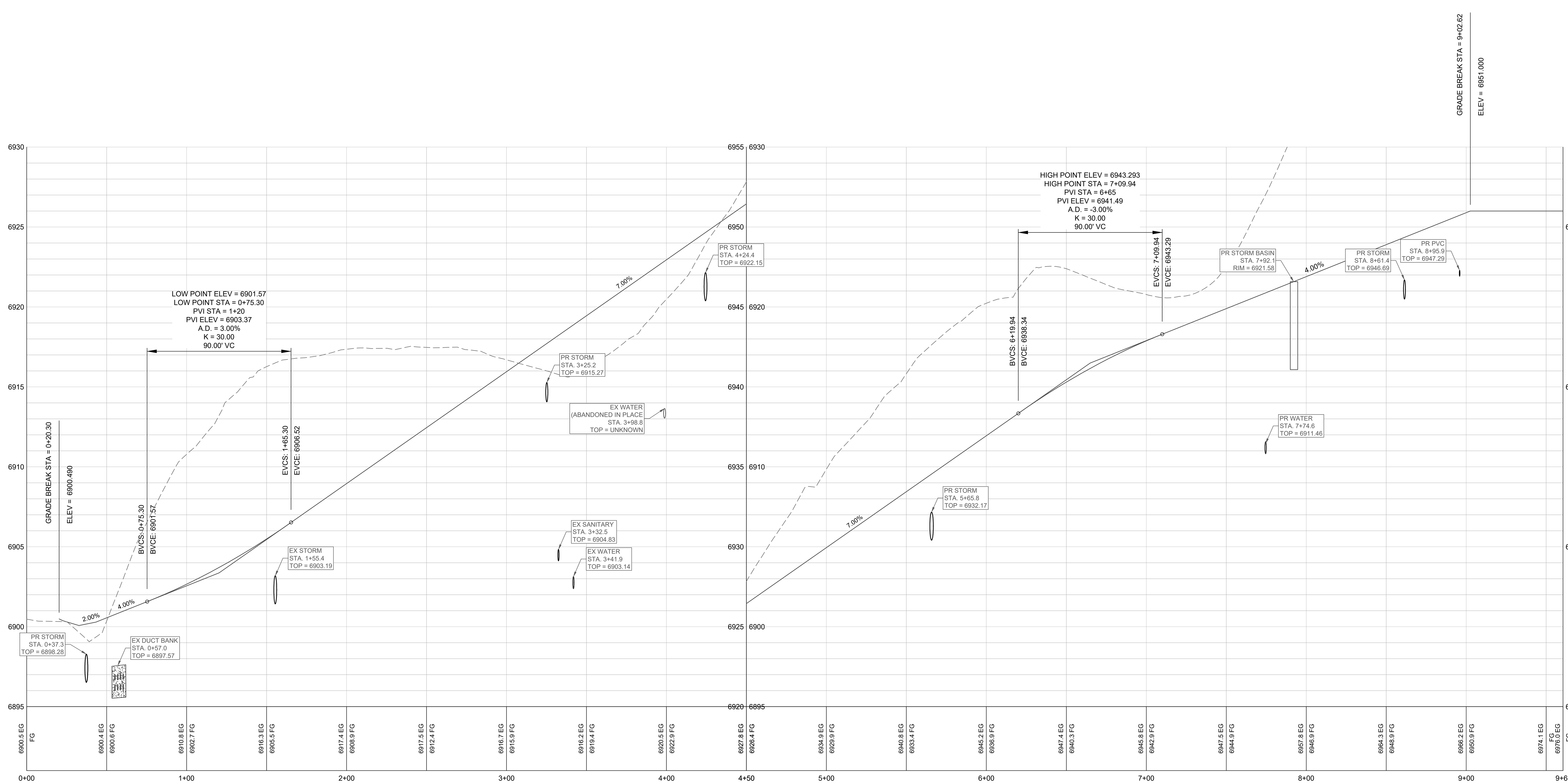


NORTH

40 0 40 80 120 Feet
(IN FEET)
1 inch = 40 ft.

ROADWAY PLAN & PROFILE (STA 0+00 - 9+65)

SCALE: 1" = 40' (H) 1" = 4' (V)



LEGEND:

- PR. MINOR CONTOUR
- PR. MAJOR CONTOUR — 6805
- EX. MINOR CONTOUR
- EX. MAJOR CONTOUR — (6800)
- PR. BUILDING
- PR. FOUNDATION
- PR. OVERHANG/ROOF
- EX. ASPHALT
- PR. ASPHALT
- PR. CONCRETE
- PR. GRAVEL
- PR. PATIO RE: LANDSCAPING
- PR. COBBLE RE: LANDSCAPING
- PR. GREEN ROOF RE: ARCH
- PR. STRUCTURE UNDER GRADE RE: ARCH
- PR. SITE WALL
- PR. REDIROCK WALL
- PR. BOLLARDS
- PR. BOLLARDS
- PR. ROCK WALL RE: LANDSCAPING
- PR. CULVERT W/ END SECTIONS
- INLET AND STORM MANHOLE
- EX. CULVERT W/ END SECTIONS
- INLET AND STORM MANHOLE
- PR TREES & SHRUBS RE: LANDSCAPING
- EX. CONIFEROUS AND DECIDUOUS TREE
- PR. SPOT ELEVATION — 00.10
- EX. SPOT ELEVATION — 00.10 X
- PR. OVERLAND FLOW DIRECTION W/ SLOPE — 2.0%
- PR. CHANNELIZED FLOW DIRECTION W/ SLOPE — 2.0%
- EX. CHANNELIZED FLOW DIRECTION
- APPROX. LIMITS OF GRADING

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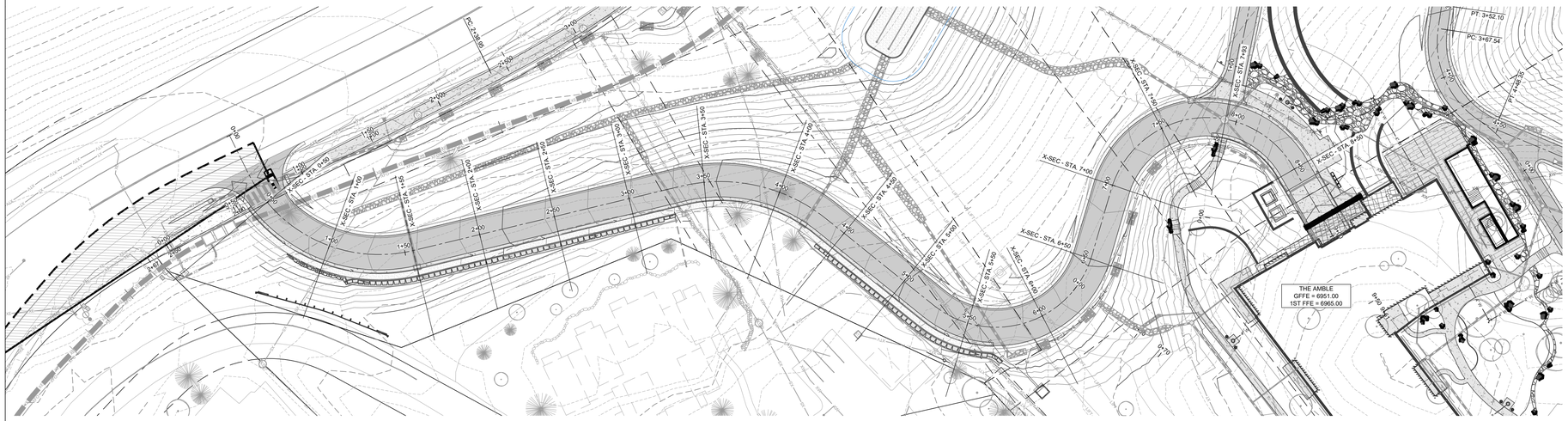
EMAIL:	matte@landmark-co.com

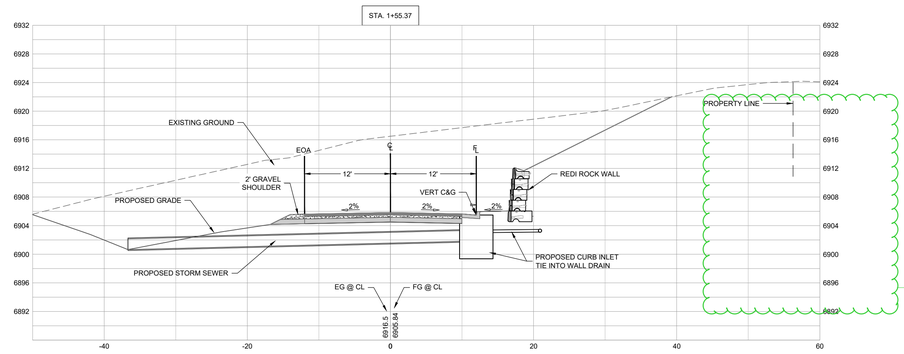
The Amble - Construction Drawings

Roadway Plan & Profile

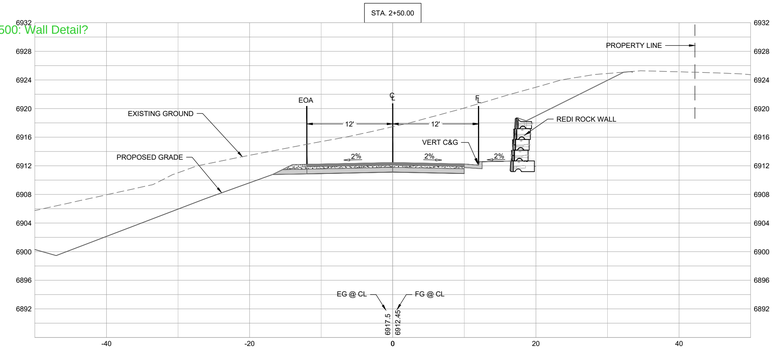
SHEET

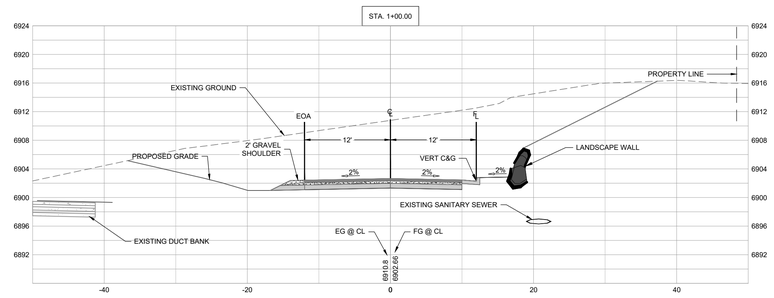
C.410

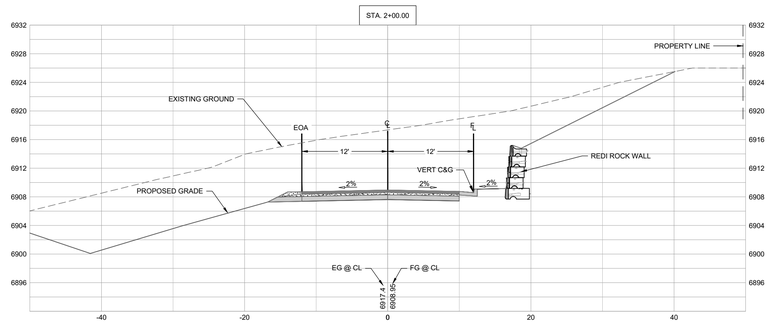


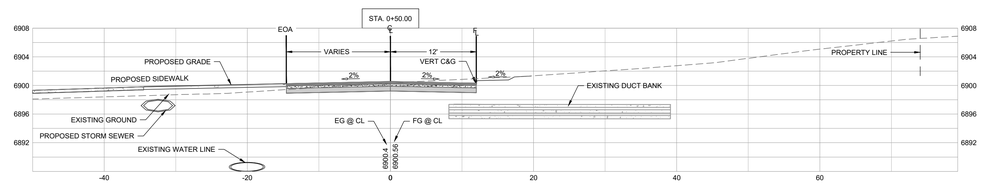


C.500: Wall Detail?









NORTH

10 0 10 20 30 Feet

(IN FEET)
1 inch = 10 ft.

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6. **REDI-ROCK WALL NOTE:** REDI-ROCK WALL SYSTEM IS SHOWN ONLY FOR REFERENCE AND ILLUSTRATIVE PURPOSES ONLY. ACTUAL RETAINING WALL SYSTEM TO BE DETERMINED AND SHALL BE SPECIFIED ON CONSTRUCTION DRAWINGS.

   MAX. RETAINING WALL HEIGHT IS 6-FT.

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COLORADO LICENSED MATTHEW CARL EGAN 50740 PROFESSIONAL ENGINEER 12/15/23

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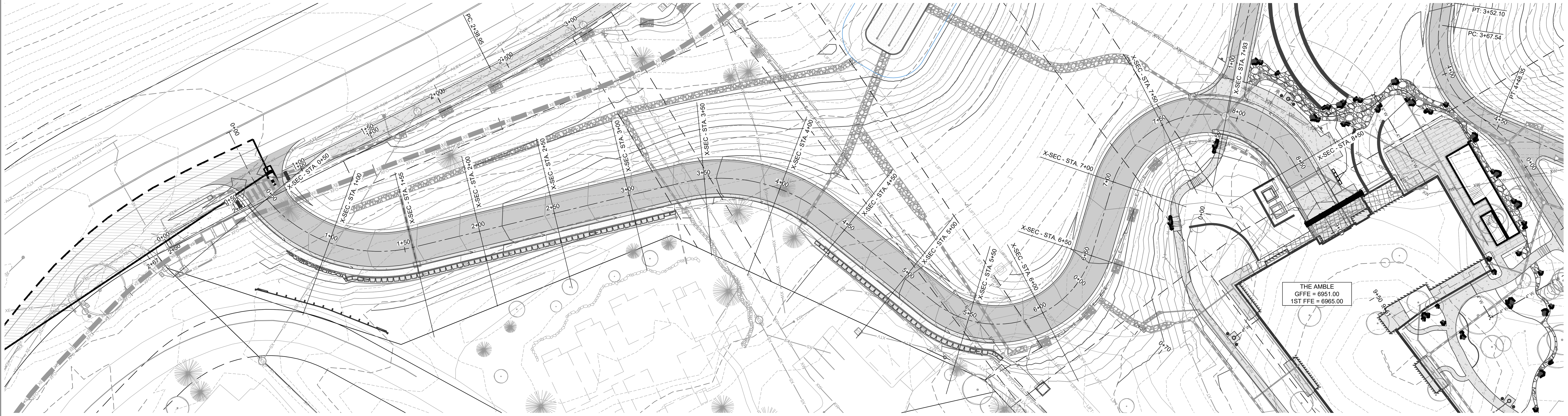
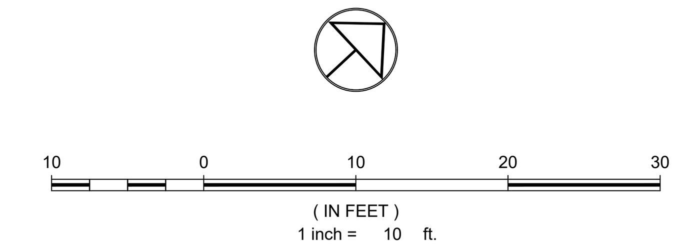
The Amble - Construction Drawings

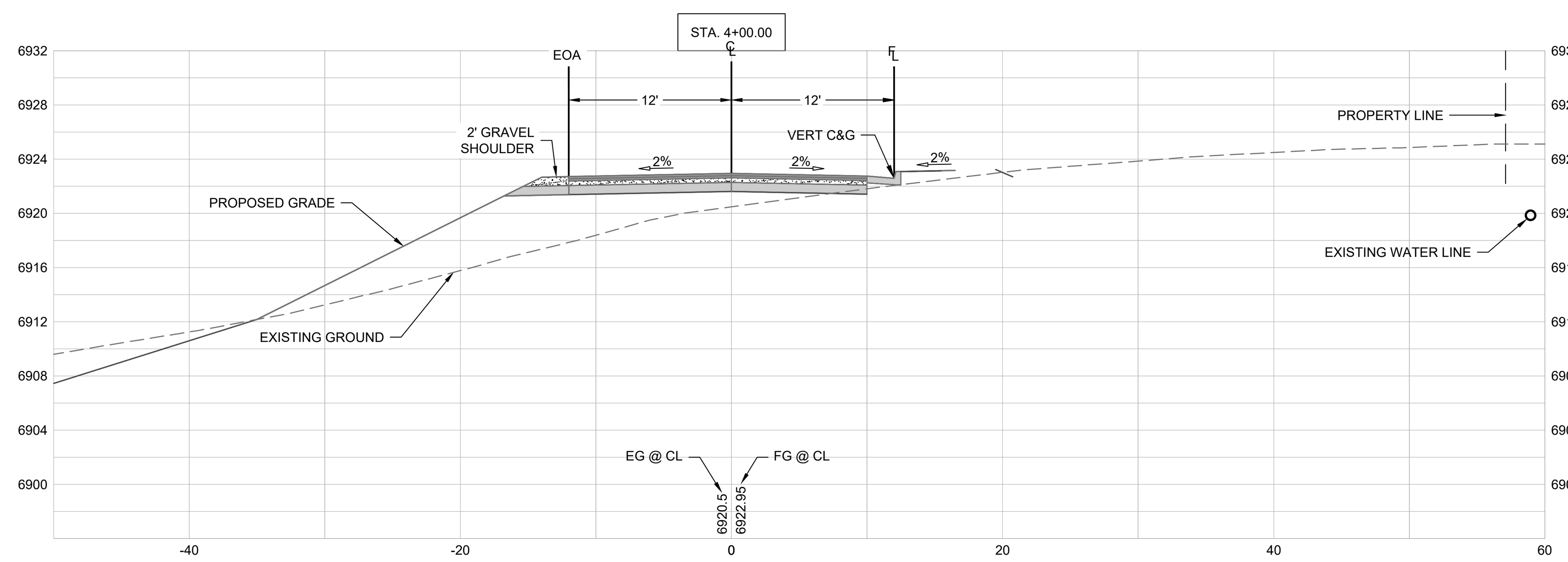
Roadway Cross-Sections

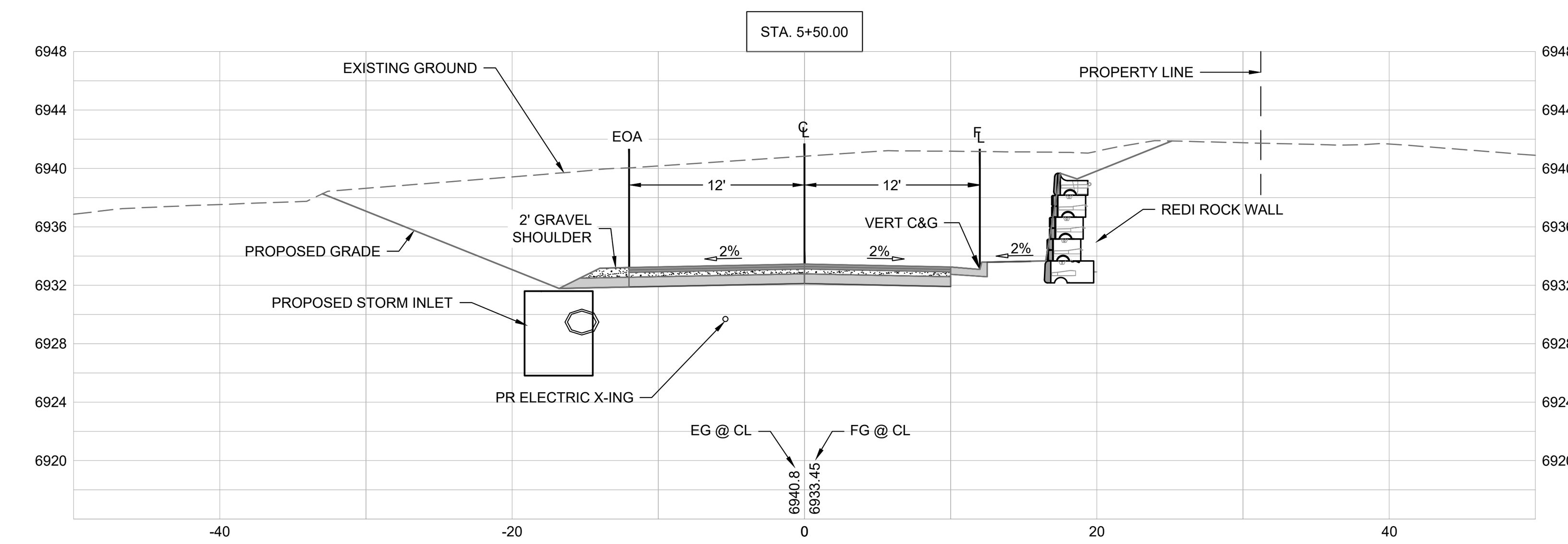
SHEET
C.420

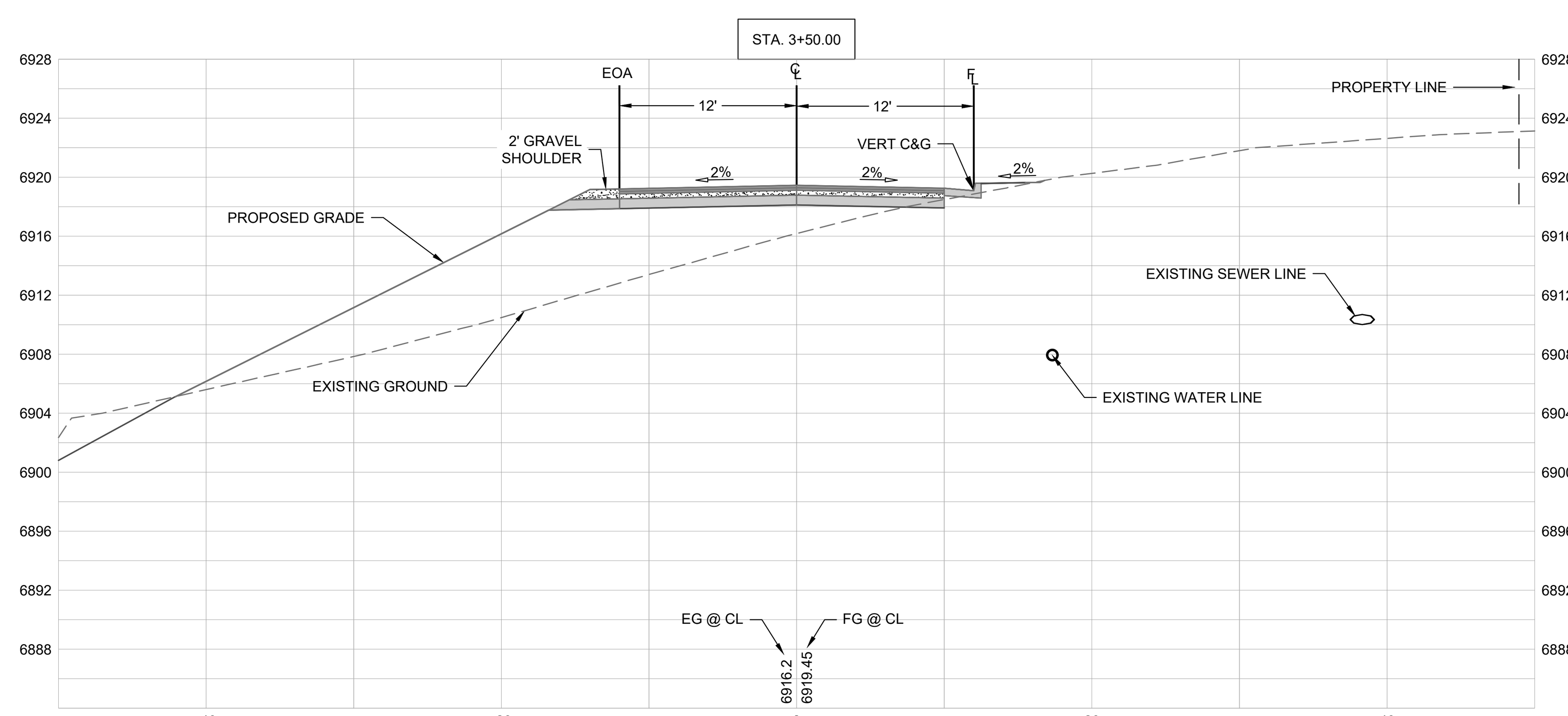
DRAWING FILENAME: P:\2571-001\Work\Production Drawings\02 Engr\2571-001-C-420-RDWY Roadway Cross-Sections.dwg LAYOUT NAME: C.420 DATE: Feb 09, 2024 - 11:08am CAD OPERATOR: matthew
LIST OF XREFS: [x]Xsections_1.dwg [2571-001-xbase.PRT]2571-001-xbase.PRT [2571-001-xBldg].dfbldg [2571-001-xEasLines].dwg [2571-001-xmass.PRT]2571-001-xmass.PRT [2571-001-xSite-DRY]2571-001-xSite-DRY.prt [2571-001-xSite-SPY]2571-001-xSite-SPY.prt [2571-001-xSite-WTR]2571-001-xSite-WTR.prt [2571-001-xSite].prt [2571-001-xSite-WTR]2571-001-xSite-WTR.prt [2571-001-xSite-SPY]2571-001-xSite-SPY.prt [2571-001-xSite-DRY]2571-001-xSite-DRY.prt [2571-001-xmass.PRT]2571-001-xmass.PRT [2571-001-xSite].prt [2571-001-xEasLines].dwg [2571-001-xBldg].dfbldg [2571-001-xbase.PRT]2571-001-xbase.PRT [Xsections_1.dwg]

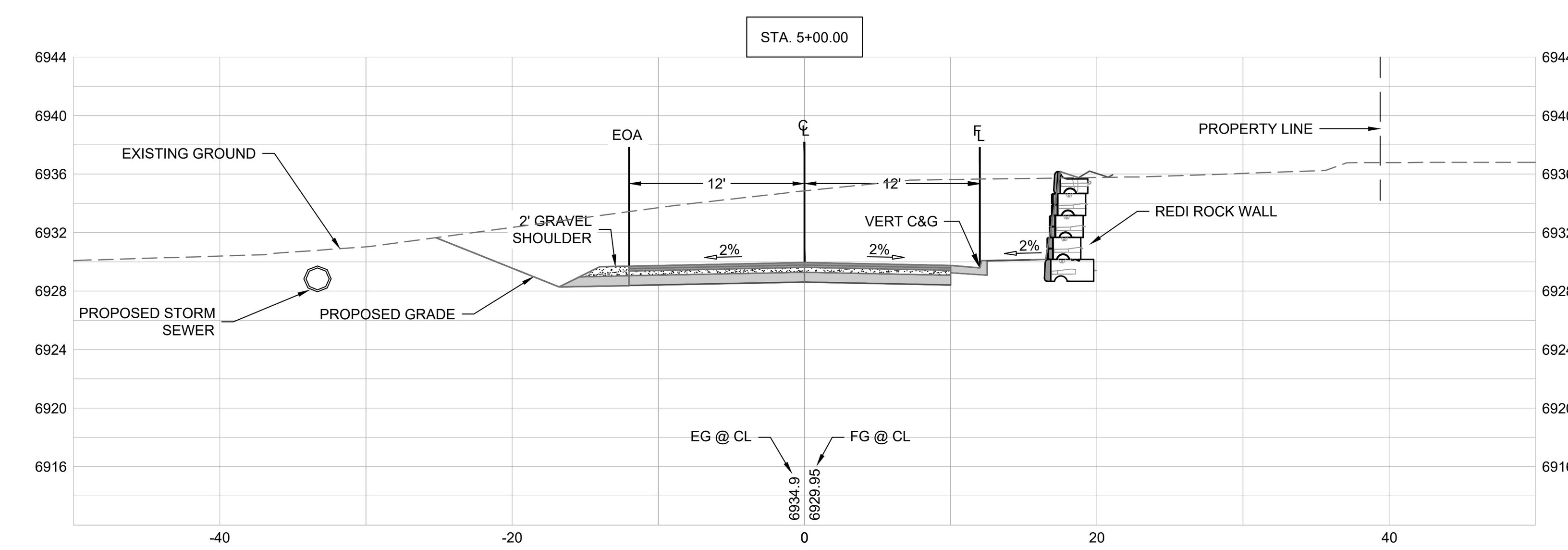


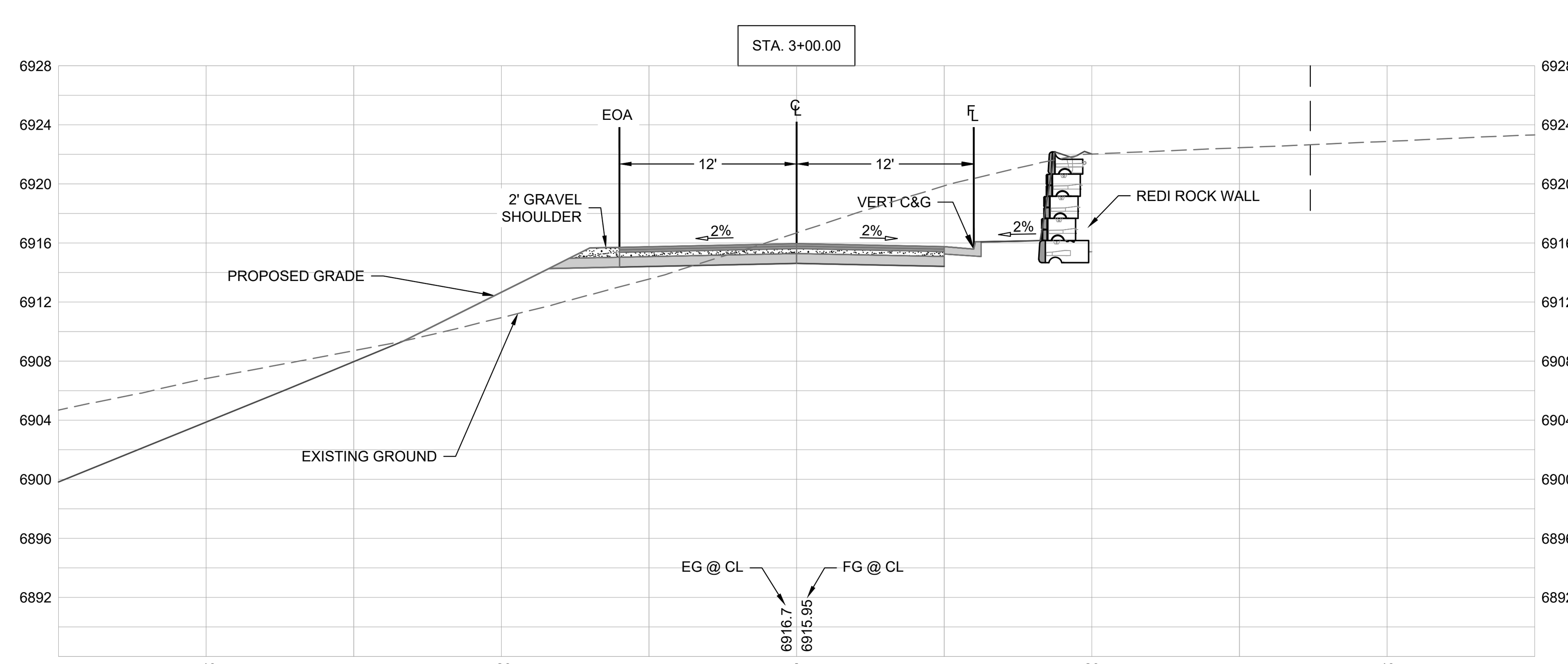


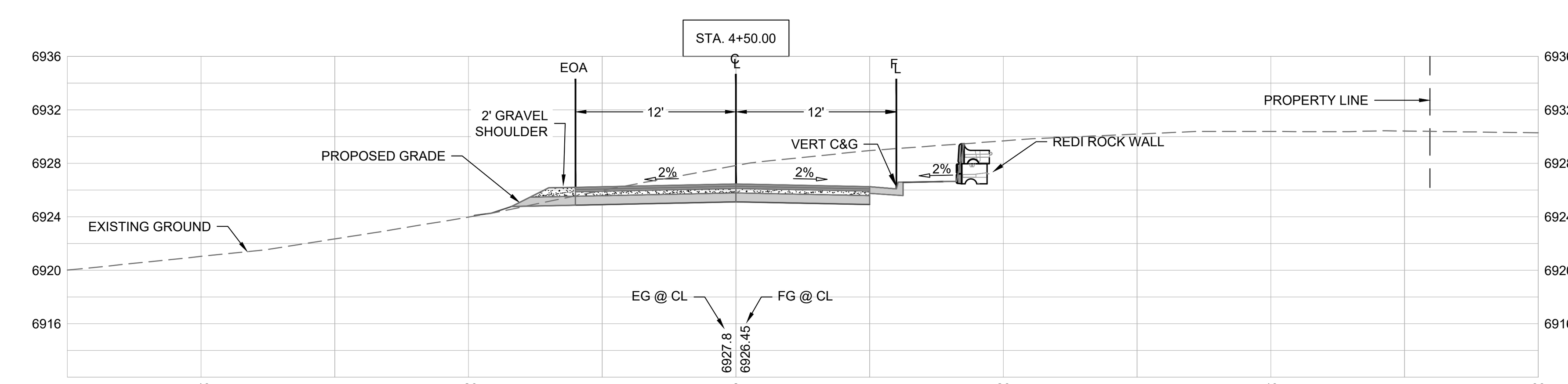












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Reviewed for Code Compliance
04/01/2024

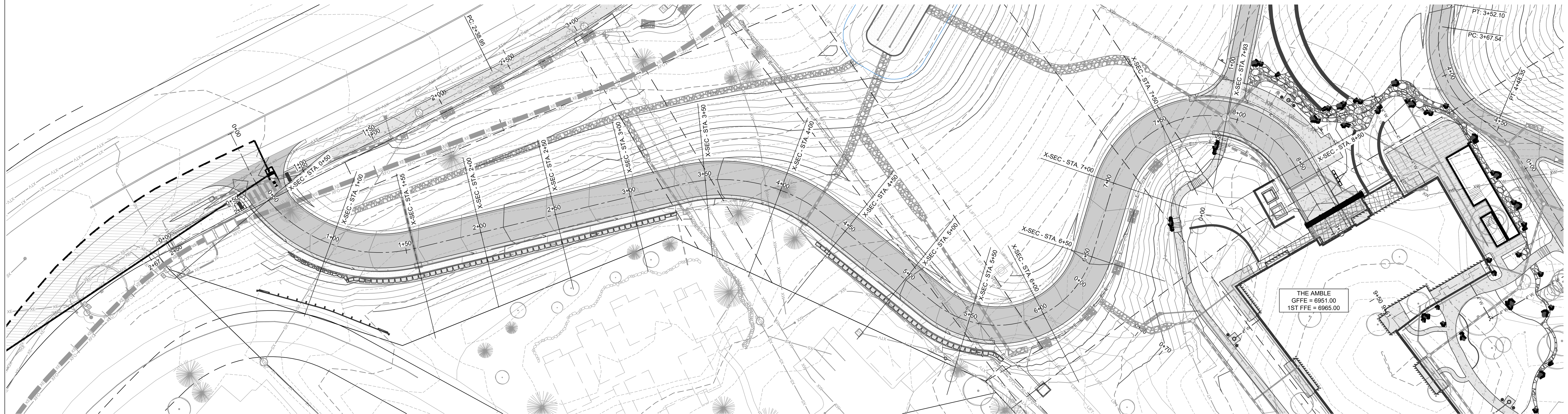
NO.	DATE:	BY:	DESCRIPTION:
1	02.08.2024	MCE	PERMIT COMMENT RESPONSE

PROJECT:	2571-001
DATE:	12/15/2023
CONTACT:	Matthew Eggen
EMAIL:	matte@landmark-co.com

The Amble - Construction Drawings
Roadway Cross-Sections

SHEET
C.421

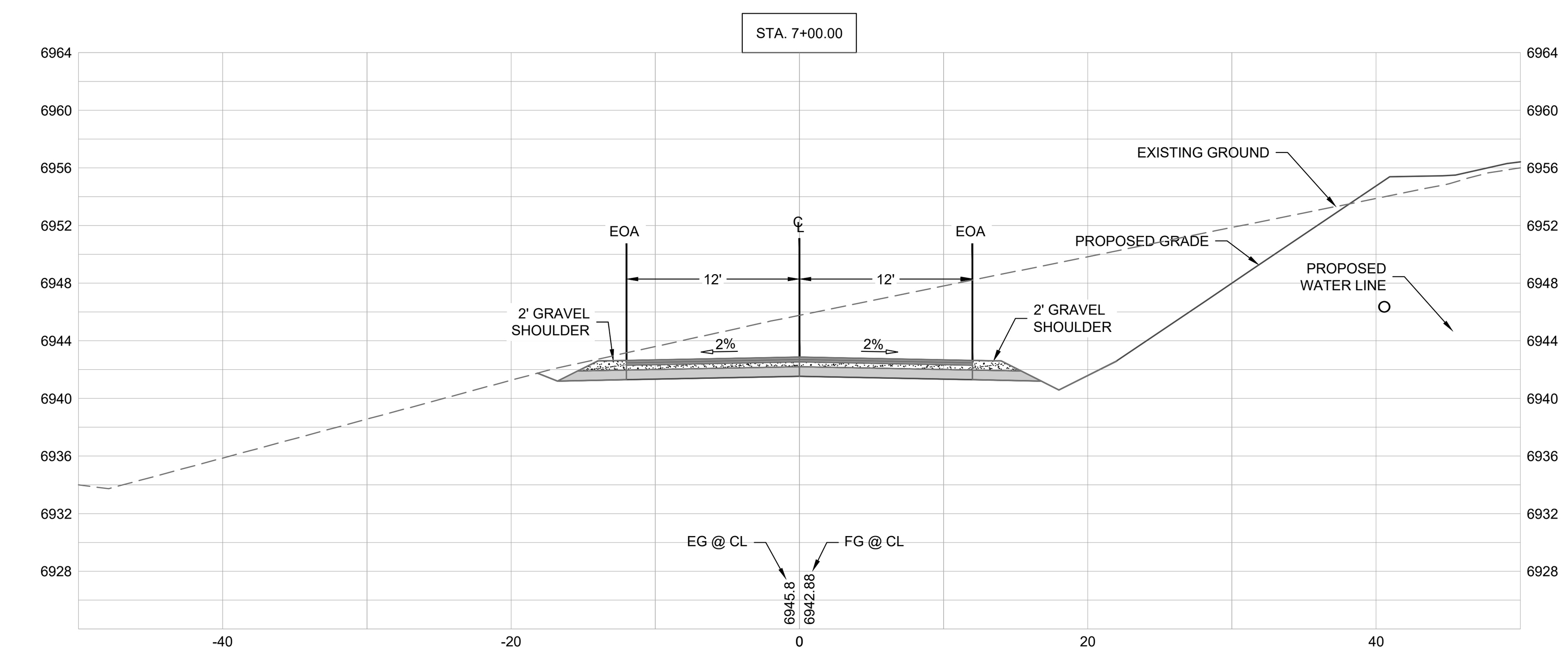
DRAWING FILENAME: P:\2571-001\DWGs\Production Drawings\DD 2.0\2571-001-C.420-DD 2.0-Roadway Cross-Sections.dwg LAYOUT NAME: C.421 DATE: Feb 09, 2024 - 11:08am CAD OPERATOR: matthew
LIST OF XREFS: [xXSections_Leg] [2571-001-xUtil-PP] [2571-001-xBndy] [2571-001-xBndy-Offsite] [2571-001-xExist] [2571-001-xExist-Utils] [2571-001-xHatch-PP] [2571-001-xSite-PP] [2571-001-xUtil-DP] [2571-001-xSite-DP] [2571-001-xHatch-DP] [XBORDER-CDs]

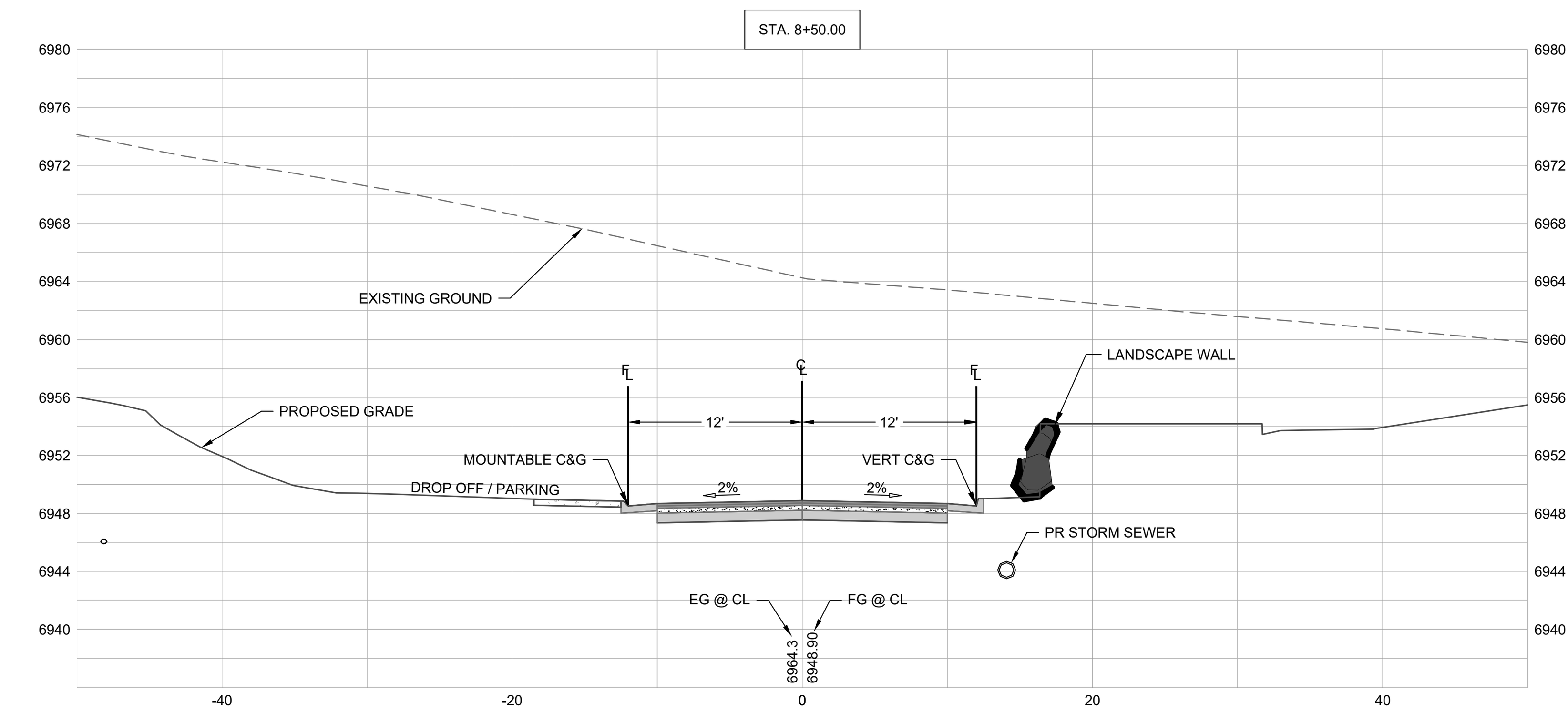


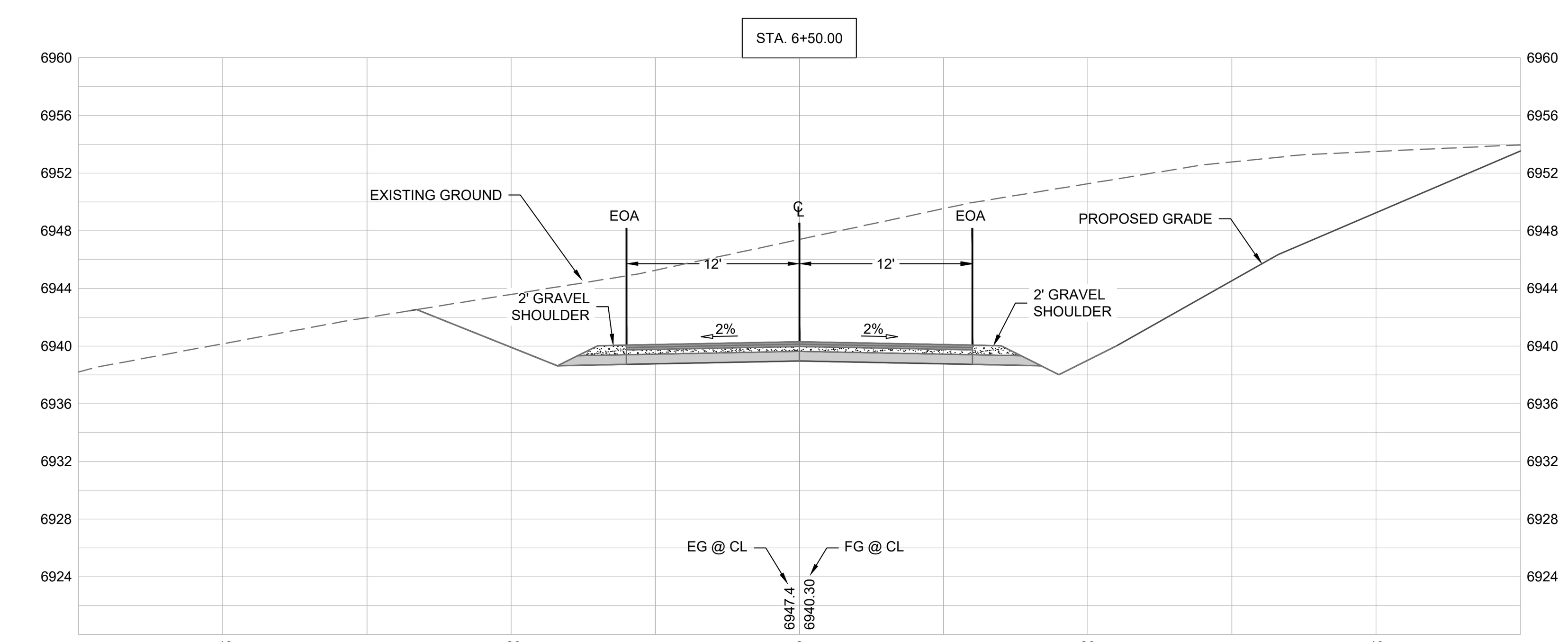
10 0 10 20 30 Feet

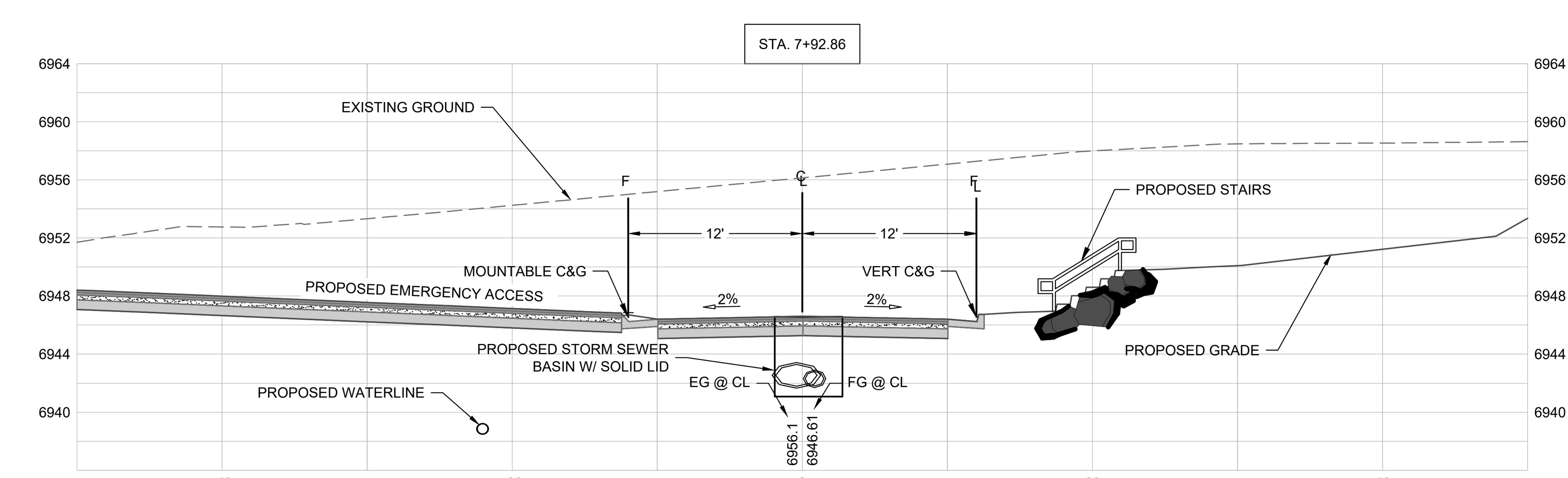
(IN FEET)

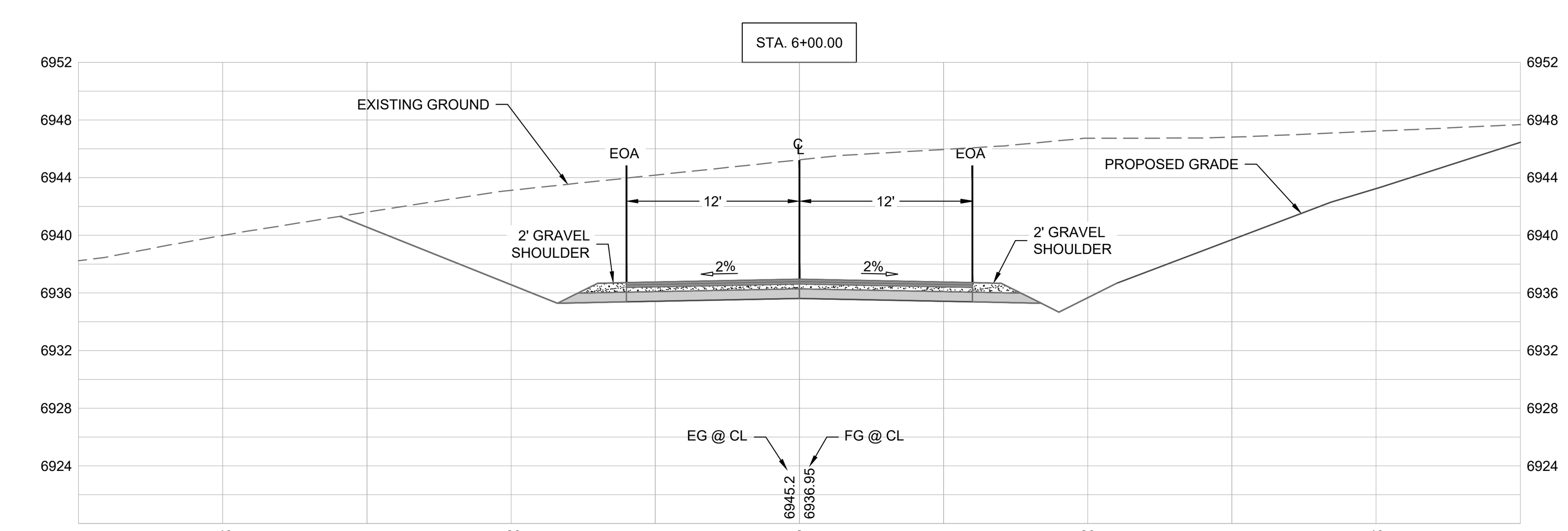
1 inch = 10 ft.

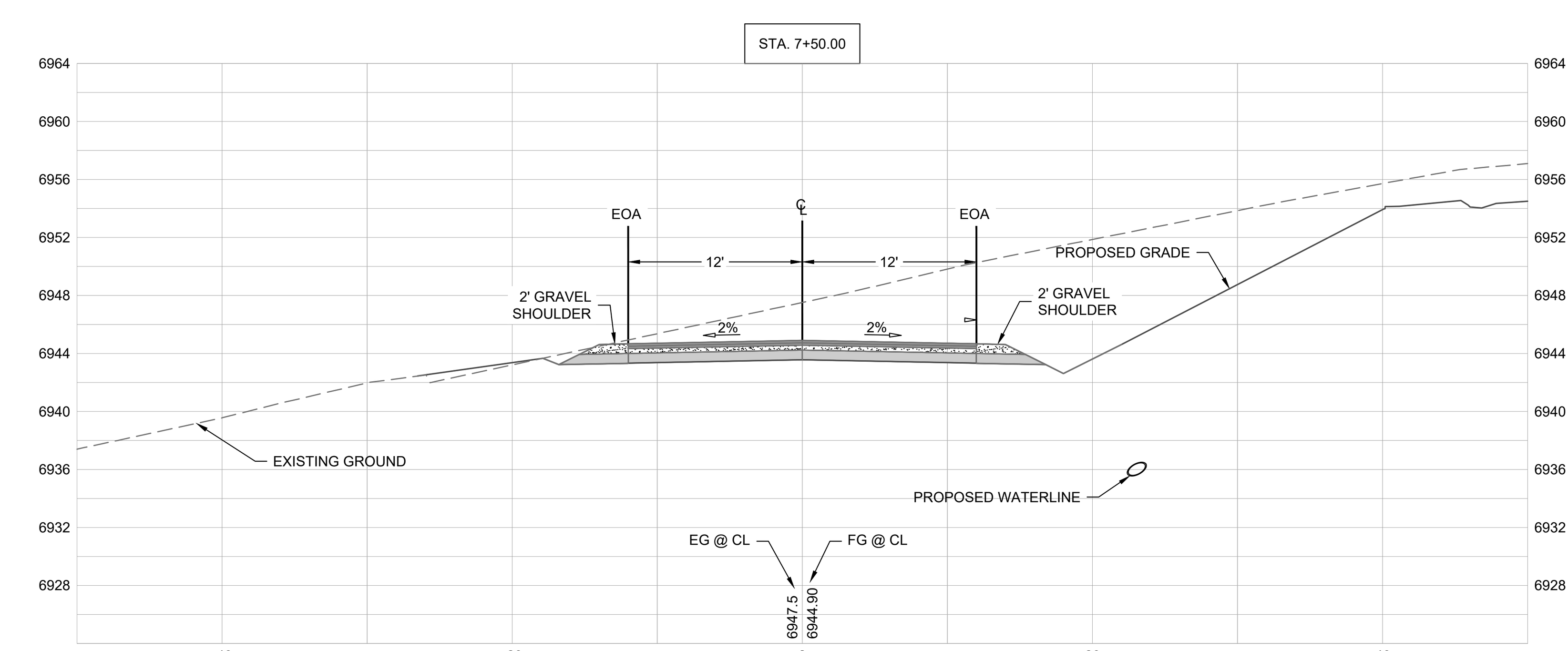












CROSS SECTION NOTES:

1. THE SIZE, TYPE AND LOCATION OF ALL KNOWN UNDERGROUND UTILITIES ARE APPROXIMATE WHEN SHOWN ON THESE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE OF ALL UNDERGROUND UTILITIES IN THE AREA OF THE WORK. BEFORE COMMENCING NEW CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR ALL UNKNOWN UNDERGROUND UTILITIES.
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3. MAINTAIN 10' HORIZONTAL AND 18" VERTICAL MINIMUM SEPARATION BETWEEN ALL STORM AND SANITARY SEWER MAINS AND WATER MAINS.
4. ELEVATIONS FOR IMPROVEMENTS THAT ARE CONTROLLED BY ADJACENT EXISTING FACILITIES (SUCH AS PROPOSED GUTTERS ALONG EXISTING ASPHALT) MAY REQUIRE ADJUSTMENT BASED ON ACTUAL CONDITIONS. COORDINATE WITH ENGINEER TO ENSURE A CONSISTENT SECTION WITH SMOOTH TRANSITIONS WHERE NECESSARY.
5. BASED ON SECTION LOCATION, SOME EXISTING IMPROVEMENTS AND/OR EXISTING CONDITIONS MAY NOT REFLECT ACTUAL CONDITIONS OUTSIDE THE PROPOSED IMPROVEMENTS AREA OF INTEREST.
6. **REDI-ROCK WALL NOTE:** REDI-ROCK WALL SYSTEM IS SHOWN ONLY FOR REFERENCE AND ILLUSTRATIVE PURPOSES ONLY. ACTUAL RETAINING WALL SYSTEM TO BE DETERMINED AND SHALL BE SPECIFIED ON CONSTRUCTION DRAWINGS.

MAX. RETAINING WALL HEIGHT IS 6-FT.

CALL UTILITY NOTIFICATION CENTER OF COLORADO

811

Know what's below. Call before you dig.

CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

COLORADO LICENSED PROFESSIONAL ENGINEER MATTHEW CARL EGGEN 50740 12/15/23

NOT VALID WITHOUT ORIGINAL SIGNATURE AND DATE

LANDMARK CONSULTANTS, INC.
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EMAIL:	matte@landmark-co.com

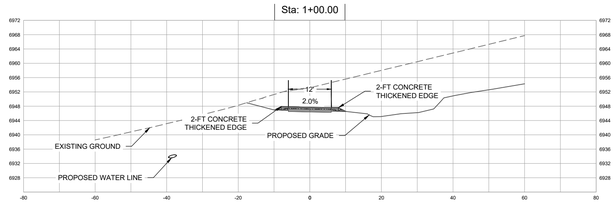
The Amble - Construction Drawings

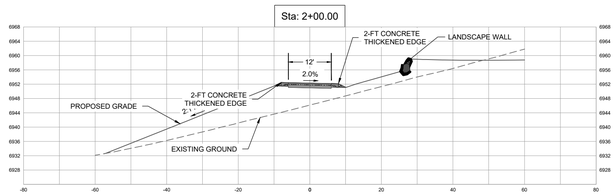
Roadway Cross-Sections

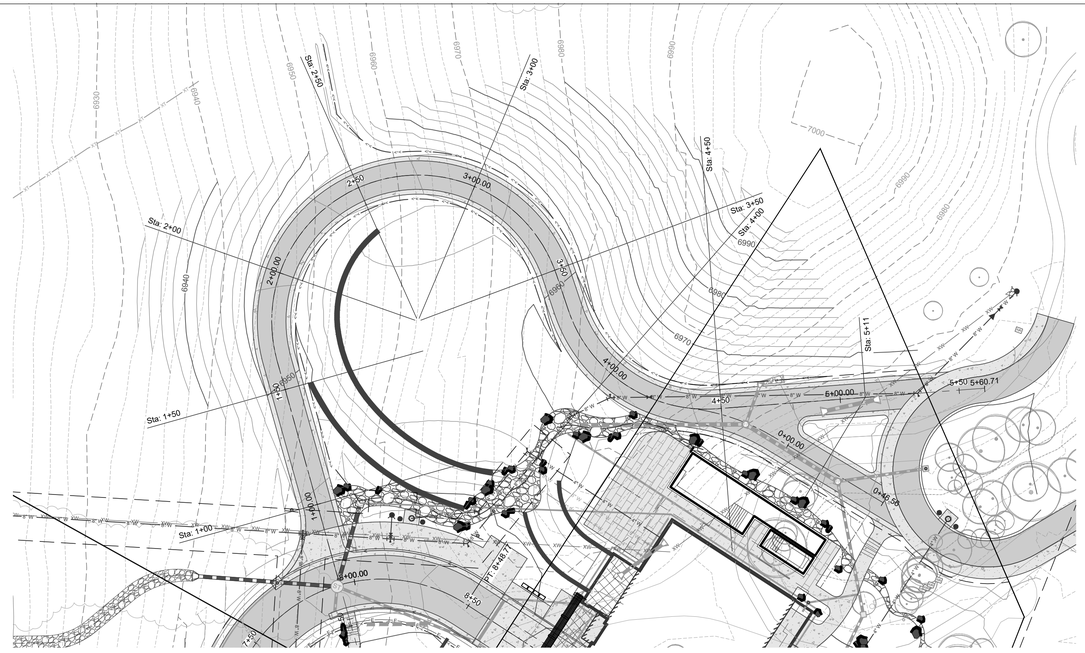
SHEET C.422

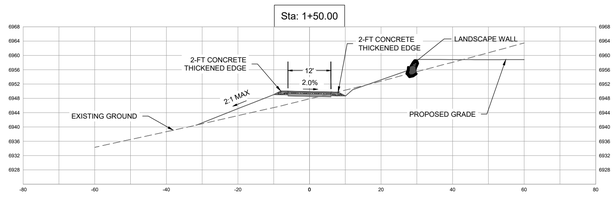
DRAWING FILENAME: P:\2571-001\DWGs\Production Drawings\DD 2.0\2571-001-C-420-DD 2.0-Roadway Cross-Sections.dwg LAYOUT NAME: C.422 DATE: Feb 09, 2024 - 11:08am CAD OPERATOR: matthew

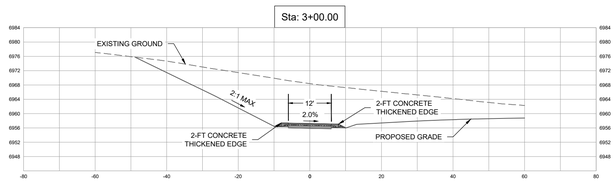
LIST OF XREFS: [xXSections_Leg] [2571-001-xUtil-PP] [2571-001-xBndy] [2571-001-xBndy-Offsite] [2571-001-xExist] [2571-001-xExist-Utils] [2571-001-xHatch-PP] [2571-001-xSite-PP] [2571-001-xUtil-DP] [2571-001-xSite-DP] [2571-001-xHatch-DP] [XBORDER-CDs]

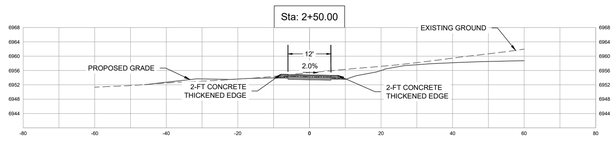


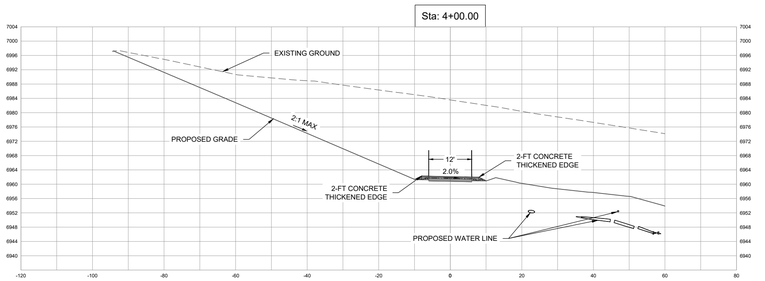


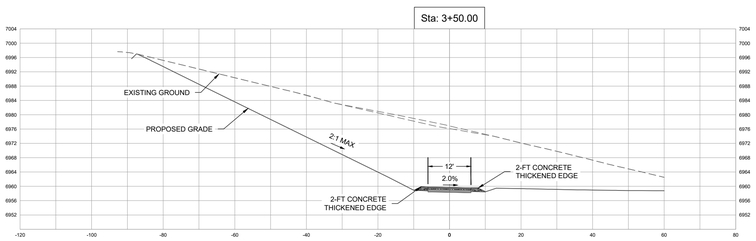


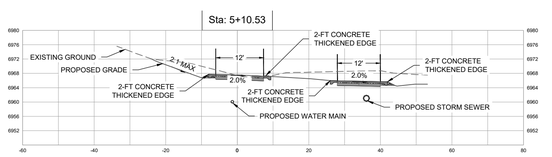


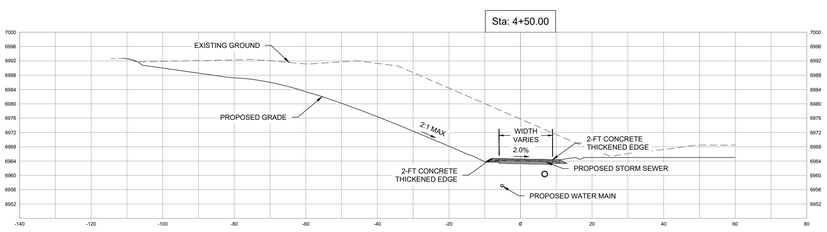












NORTH

20 0 20 40 60 Feet

(IN FEET)
1 inch = 20 ft.

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COLORADO LICENSED MATTHEW CARL EGGEN 50740 2/15/24 PROFESSIONAL ENGINEER

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EMAIL:	matte@landmark-co.com

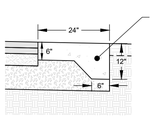
The Amble - Construction Drawings

Emergency Access Cross-Sections

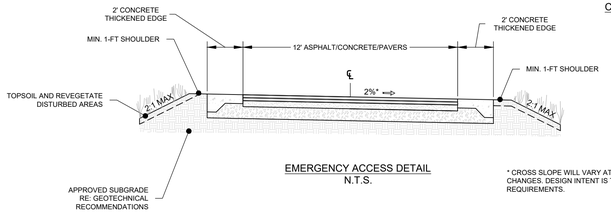
SHEET

C.430

DRAWING FILENAME: P:\2571-001\Work\Production Drawings\SDO 2.2\2571-001 C.430.SDO 2.0 Emergency Access Cross-Sections.dwg LAYOUT NAME: E.430 DATE: Feb 09, 2024 - 11:08am CAD OPERATOR: matthew
LIST OF XREFS: [2571-001-xSite.dwg][xSections_Lwg] [2571-001-xEsmt] [2571-001-xEsmt.dwg] [2571-001-xSite] [2571-001-xSite.dwg] [2571-001-xSite-Plat] [2571-001-xHatch] [2571-001-xHatch.dwg] [ARCHER.ctb]

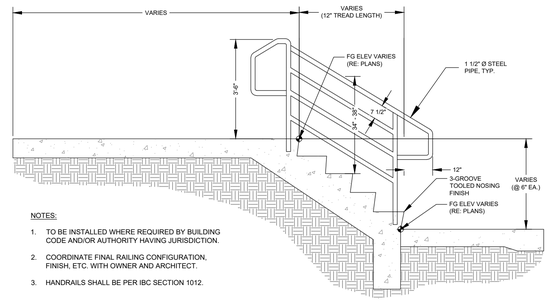


CONCRETE THICKENED EDGE
N.T.S.



EMERGENCY ACCESS DETAIL
N.T.S.

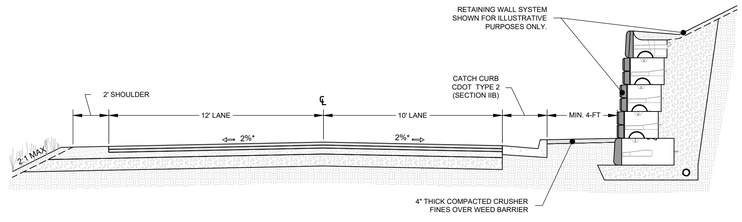
* CROSS SLOPE WILL VARY AT TRANSITIONS FOR INTERSECTIONS AND OTHER GEOMETRIC CHANGES. DESIGN INTENT IS TO GRADE TO DRAIN AND MEET SUPPLIER WARRANTY REQUIREMENTS.



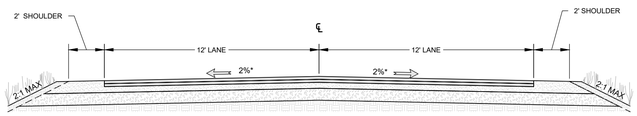
NOTES:

1. TO BE INSTALLED WHERE REQUIRED BY BUILDING CODE AND/OR AUTHORITY HAVING JURISDICTION.
2. COORDINATE FINAL RAILING CONFIGURATION, FINISH, ETC. WITH OWNER AND ARCHITECT.
3. HANDRAILS SHALL BE PER IBC SECTION 1012.

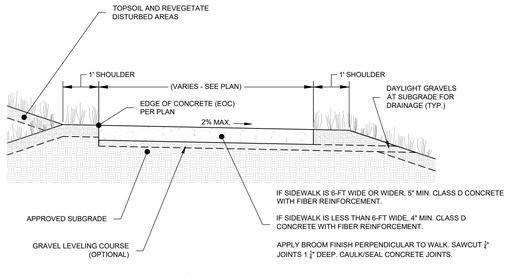
SITE HANDRAIL AT STEPS
N.T.S.



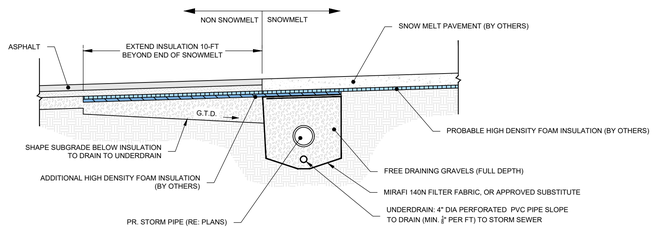
ROADWAY SECTION WITH CATCH CURB AND REDI ROCK WALL
N.T.S.



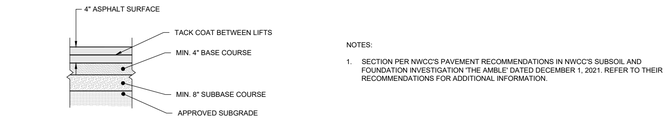
ROADWAY SECTION WITH GRAVEL SHOULDER DETAIL
N.T.S.



SIDEWALK DETAIL
N.T.S



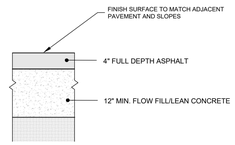
SNOWMELT PAVEMENT TRANSITION UNDERDRAIN DETAIL
N.T.S.



NOTES:

1. SECTION PER NWCC'S PAVEMENT RECOMMENDATIONS IN NWCC'S SUBSOIL AND FOUNDATION INVESTIGATION 'THE AMBLE' DATED DECEMBER 1, 2021. REFER TO THEIR RECOMMENDATIONS FOR ADDITIONAL INFORMATION.

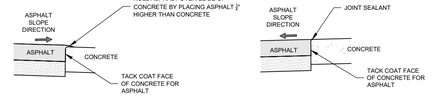
ASPHALT SECTION (AUTOMOBILE AND TRUCK TRAFFIC)
N.T.S.



NOTES:

1. SECTION MAYBE MODIFIED BY GEOTECHNICAL ENGINEER OR CITY OF STEAMBOAT SPRINGS.
2. IF FINAL PAVING IS NOT SCHEDULED WITHIN 48 HOURS OF PLACEMENT OF FLOW FILL, CONTRACTOR SHALL PLACE FLOW FILL TO FINISHED GRADE. THEN THE TOP 4-INCHES SHALL BE REMOVED IMMEDIATELY PRIOR TO FINAL ASPHALT PAVING.

ROW/STREET PATCH FOR NON-LONGITUDINAL TRENCHES
N.T.S.



CONDITION #1:
ASPHALT SLOPED TOWARDS CONCRETE GUTTER

CONDITION #2:
ASPHALT SLOPED AWAY FROM CONCRETE GUTTER

ASPHALT-TO-CONCRETE GUTTER PAVING INTERFACE DE
N.T.S.

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EMAIL:	matte@landmark-co.com

The Amble - Construction Drawings

CIVIL CONSTRUTION DETAILS

SHEET
C.500

COLORADO LICENSED MATTHEW CARL EGGEN 50740 PROFESSIONAL ENGINEER
2/15/24
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DRAWING FILENAME: P:\2571-001\DWG\Plan\Auto\er Drawings\2571-001-C-D1-D2-D3-2-DETAILS.dwg LAYOUT NAME: C.500 DATE: Feb 09, 2024 - 11:09am CAD OPERATOR: matthew
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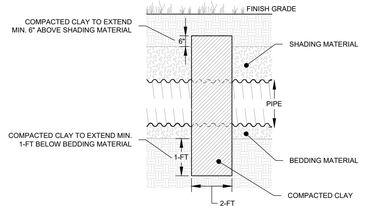
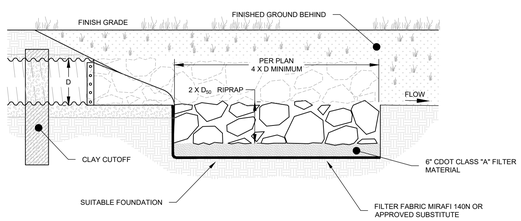


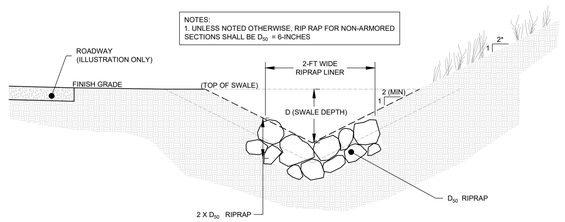
CLAY CUTOFF WALL NOTES

1. CLAY CUTOFFS SHALL BE INSTALLED ON STORM SEWERS AND CULVERTS ≤10-FEET UPSTREAM OF ALL INLETS AND JUNCTIONS AND IN NO CASE MORE THAN 200-FEET APART. CUTOFF SHALL ALSO BE CONSTRUCTED AT CONDUIT OUTLETS WHERE NO CONCRETE TOE WALL IS REQUIRED.
2. CLAY CUTOFFS SHALL BE INSTALLED ON WATER AND SEWER LINES PER THE REQUIREMENTS OF THE UTILITY OWNER.
3. INSTALL AT TRANSITIONS BETWEEN PERFORATED AND SOLID PIPES.
4. COMPACT IMPERVIOUS CLAY (COEFFICIENT OF PERMEABILITY < 5 X 10 CM/S) TO NO LESS THAN 95% DENSITY AND BETWEEN -1% AND +3% OF THE OPTIMUM MOISTURE CONTENT ACCORDING TO ASTM D698 STANDARD PROCTOR.
5. EXTEND THE BOTTOM OF THE CLAY CUTOFF NO LESS THAN 12-INCHES BEYOND THE EXCAVATION OF THE PIPE ZONE.

NOTES:
1. UNLESS NOTED OTHERWISE, RIP RAP SHALL BE D_{50} = 9-INCHES

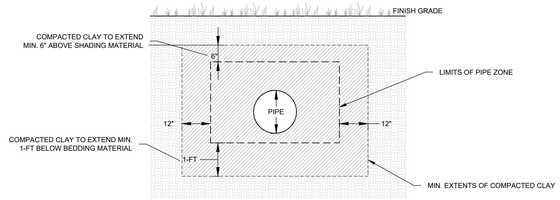


NOTES:
1. UNLESS NOTED OTHERWISE, RIP RAP FOR NON-ARMORED SECTIONS SHALL BE D_{50} = 6-INCHES



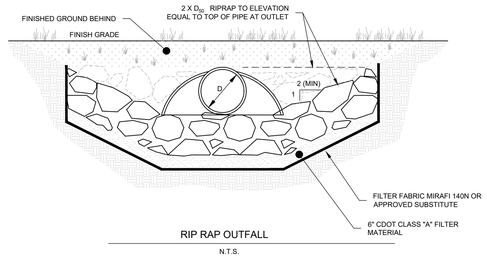
NON-ARMORED RIP RAP SWALE

N.T.S.



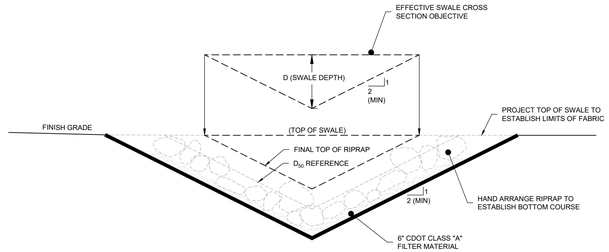
CLAY CUTOFF DETAIL

N.T.S.



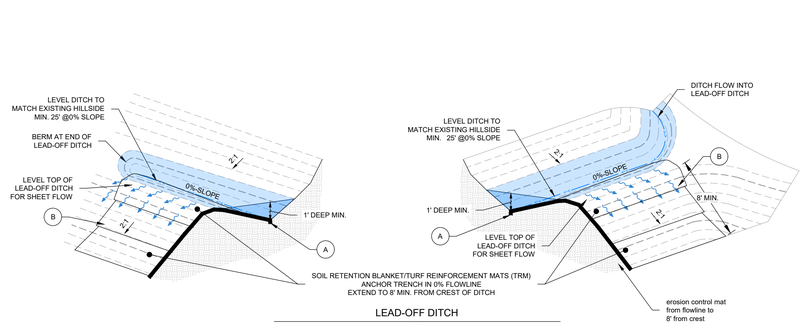
RIP RAP OUTFALL

N.T.S.



RIP RAP SWALE (INITIAL COURSE)

N.T.S.



LEAD-OFF DITCH

N.T.S.

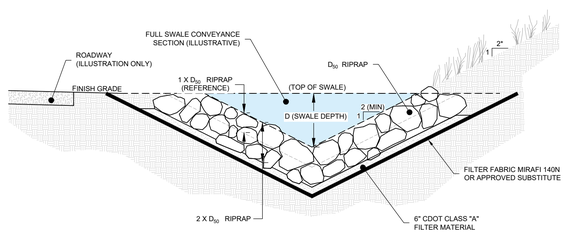
ANCHOR TRENCH (A)

TO BE USED AT THE BEGINNING AND END OF THE CHANNEL ACROSS IT'S ENTIRE WIDTH.

CONSECUTIVE ROLL OVERLAP (B)

TO BE USED WHEREVER ONE ROLL OF BLANKET ENDS AND ANOTHER BEGINS WITH UPSTREAM BLANKET PLACED ON TOP OF THE BLANKET ON THE DOWNSTREAM SIDE.

NOTES:
1. UNLESS NOTED OTHERWISE, RIP RAP SHALL BE D_{50} = 9-INCHES



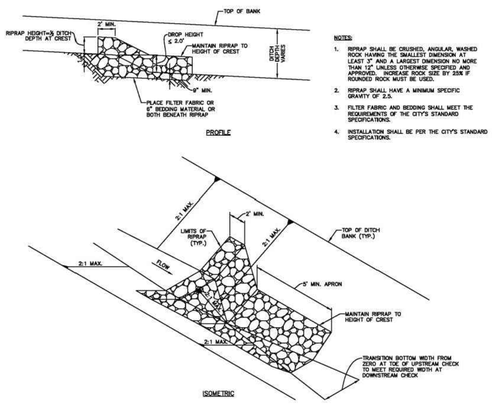
RIP RAP SWALE (COMPLETED)

N.T.S.

RIPRAP SWALE

N.T.S.

Figure 5.7.4 Ditch Check Schematic Details



NOTES:

1. RIPRAP SHALL BE CRUSHED, ANGULAR, WASHED ROCK HAVING THE SMALLEST DIMENSION AT LEAST 3" AND A LARGEST DIMENSION NO MORE THAN 12" UNLESS OTHERWISE SPECIFIED AND APPROVED. INCREASE ROCK SIZE BY 25% IF ROUNDED ROCK MUST BE USED.
2. RIPRAP SHALL HAVE A MINIMUM SPECIFIC GRAVITY OF 2.5.
3. FILTER FABRIC AND BEDDING SHALL MEET THE REQUIREMENTS OF THE CITY'S STANDARD SPECIFICATIONS.
4. INSTALLATION SHALL BE PER THE CITY'S STANDARD SPECIFICATIONS.

DITCH CHECK DETAIL

N.T.S.

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COLORADO LICENSED MATTHEW CARL EGGEN 50740 PROFESSIONAL ENGINEER 12/15/23

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CIVIL ENGINEERS | SURVEYORS
1441 9th Street ~ P.O. Box 774943, Steamboat Springs, CO 80477
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Reviewed for Code Compliance

04/01/2024

NO.	DATE:	BY:	DESCRIPTION:
1	02.08.2024	MCE	PERMIT COMMENT RESPONSE

PROJECT:	2571-001
DATE:	12/15/2023
CONTACT:	Matthew Eggen
EMAIL:	matte@landmark-co.com

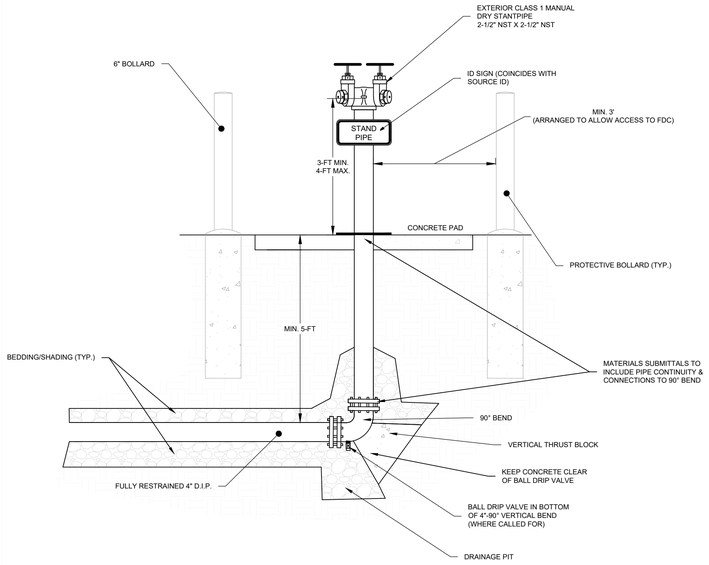
The Amble - Construction Drawings

CIVIL CONSTRUTION DETAILS

SHEET

C.501

DRAWING FILENAME: P:\2571-001\Drawings\Production Drawings\02-2.5\2571-001-C-501-02-2.5(DETAILS).dwg LAYOUT NAME: C-501 DATE: Feb 09, 2024 - 11:56am CAD OPERATOR: matthew
LOT LOP XREFS: [ABORDER-C24] [ASHCC]

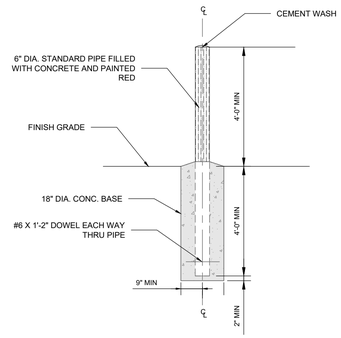


NOTES:

1. MANUAL CLASS 1 DRY STANDPIPS SHALL BE ENGINEERED AND HYDRAULICALLY DESIGNED BY A PROFESSIONAL ENGINEER OR NICET CERTIFIED DESIGNER TO SUPPLY 500 GPM @ 130 PSI.
2. THE STANDPIPE SHALL BE DRY / SELF-DRAINING.
3. THE STANDPIPE SHALL BE EQUIPPED WITH (2) 2-1/2" HOSE CONNECTIONS
4. THE STANDPIPE SHALL HAVE SIGNAGE ON THE TOP OF THE CONNECTION FITTING, STATING "STANDPIPE".
5. THE STANDPIPE SHALL BE RED IN COLOR AND WRAPPED WITH REFLECTIVE TAPE.
6. REQUIRED SIGNAGE SHALL BE POSTED IN A LOCATION CLEARLY VISIBLE FROM THE CONNECTION SIDE OF THE STANDPIPE.
7. A BALL DRIP VALVE IS REQUIRED AT ANY LOW POINTS OF THE SYSTEM TO DRAIN THE PIPNG WHERE THE SYSTEM MAY BE EXPOSED TO FREEZING TEMPERATURES.

MANUAL DRY STANDPIPE

N.T.S.

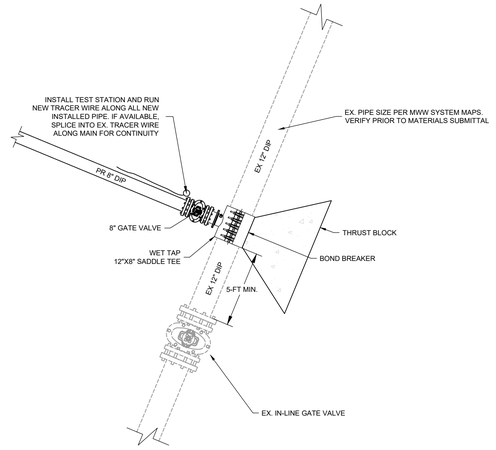


6" BOLLARD

N.T.S.

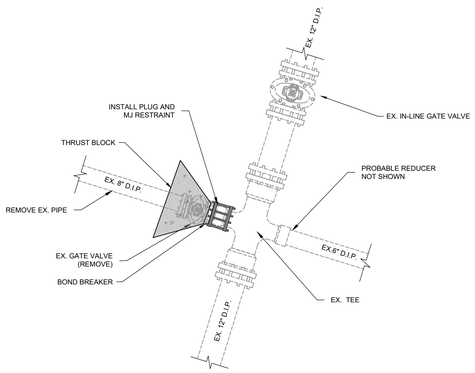
GTC TO ACCESS DRIVE CONNECTION AND EX. WATER SERVICE ABANDONMENT DETAILS

PIPE PREPARATION & CONNECTION COMPLETION NOTES
1. CONFIRM CONNECTION LOCATION WITH SURVEYOR AND ENGINEER;
2. CLEAN PIPE THOROUGHLY;
3. PRE-ASSEMBLE FITTINGS OUTSIDE OF TRENCH TO THE EXTENT PRACTICABLE;
4. DISINFECT INTERIOR OF FITTINGS PER SPECIFICATIONS IN THE PRESENCE OF ENGINEER;
5. REFER TO WATER DISTRICT SPECIFICATIONS AND DETAILS FOR FINAL REQUIREMENTS.



GTC TO ACCESS DRIVE WET TAP TO EX. MAIN CONNECTION

N.T.S.



ABANDON EX. WATER SERVICE

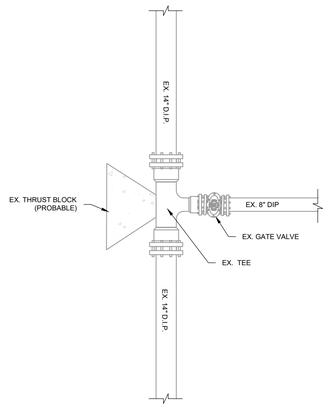
N.T.S.

MOUNT WERNER CIRCLE TO GRAND FIRE HYDRANT CONNECTION DETAIL

INITIAL EXCAVATION
1. ENSURE ALL APPROVALS AND PERMITS ARE IN PLACE PRIOR TO MOBILIZATION;
2. COORDINATE ALL EXCAVATION ACTIVITIES WITH UTILITY LOCATES AND NOTIFICATIONS;
3. COORDINATE SCHEDULE AND OPERATIONS WITH ENGINEER AND WATER DISTRICT PRIOR TO EXCAVATION, INCLUDING NOTIFICATIONS FOR SERVICE DISRUPTION AND SYSTEM ISOLATION;
4. CAREFULLY EXPOSE EXISTING PIPE AND CONFIRM MATERIAL AND SIZE;
5. CONSTRUCTION DEWATERING SHALL CONFORM TO ALL PERMIT REQUIREMENTS.

PIPE PREPARATION
1. CONFIRM CONNECTION LOCATION WITH SURVEYOR AND ENGINEER;
2. CUT EXISTING PIPE IN A MANNER THAT MINIMIZES THE REMOVAL LENGTH OF PIPE;
3. BEVEL AND REMOVE ALL BURS FOR A CLEAN CONNECTION;

CONNECTION COMPLETION
1. PRE-ASSEMBLE FITTINGS OUTSIDE OF TRENCH TO THE EXTENT PRACTICABLE;
2. DISINFECT INTERIOR OF FITTINGS PER SPECIFICATIONS IN THE PRESENCE OF ENGINEER;
3. REFER TO MWW SPECIFICATIONS AND DETAILS FOR FINAL REQUIREMENTS.

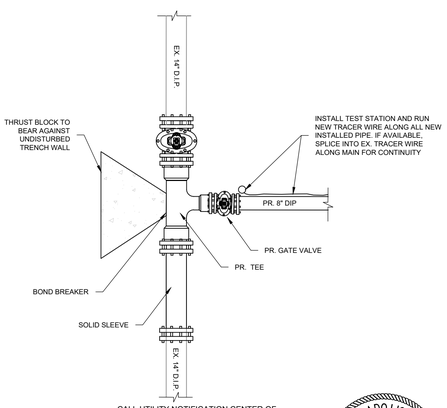


ASSUMED EX. CONDITION

N.T.S.

INTERIM. CONDITION

N.T.S.



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Reviewed for Code Compliance
04/01/2024

NO.	DATE:	BY:	DESCRIPTION:
1.	02.08.2024	MCE	PERMIT COMMENT RESPONSE

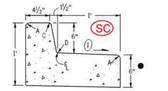
PROJECT:	2571-001
DATE:	12/15/2023
CONTACT:	Matthew Eggen
EMAIL:	matte@landmark-co.com

The Amble - Construction Drawings

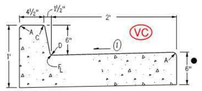
CIVIL CONSTRUCTION DETAILS

SHEET
C.502

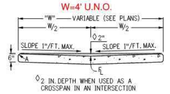
DRAWING FILENAME: P:\2571-001\Work\Production Drawings\SDO 2.2\2571-001 C-501-SDO 2.0-DETAILS.dwg LAYOUT NAME: C.502 DATE: Feb 09, 2024 - 11:18am CAD OPERATOR: matthew
LIST OF XREFS: [ABANDEW-C24] [ANNO2]



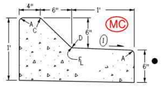
CURB AND GUTTER TYPE 2
(SECTION IB)
(6 IN. BARRIER - 1 FT. GUTTER)
SPILL CURB



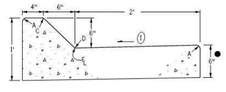
CURB AND GUTTER TYPE 2
(SECTION IIB)
(6 IN. BARRIER - 2 FT. GUTTER)
CATCH CURB OR VERTICAL CURB



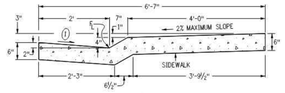
GUTTER TYPE 2
VALLEY PAN



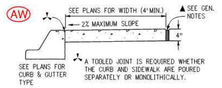
CURB AND GUTTER TYPE 2
(SECTION IM)
(6 IN. MOUNTABLE - 1 FT. GUTTER)
MOUNTABLE CURB



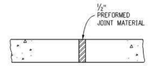
CURB AND GUTTER TYPE 2
(SECTION IIM)
(6 IN. MOUNTABLE - 2 FT. GUTTER)



CURB AND GUTTER TYPE 2
(SECTION MS)
(4 IN. MOUNTABLE WITH SIDEWALK)



CONCRETE SIDEWALK
ATTACHED WALK



NOTES: 1. EXPANSION JOINTS SHALL BE PLACED IN THE SIDEWALK AT INTERVALS OF NOT MORE THAN 500 FT.
2. EXPANSION JOINTS MAY BE SEALED WHEN SPECIFIED ON THE PLANS.

SIDEWALK EXPANSION JOINT

GENERAL NOTES

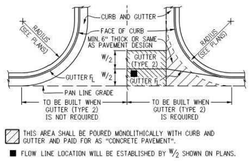
1. ON ROADWAY CURVES WITH A RADIUS OF 1,900 FT. OR LESS, CURBS AND GUTTERS ARE TO BE PLACED ON THE ARC OF THE CURVE, UNLESS OTHERWISE NOTED ON THE PLANS. A MAXIMUM CHORD LENGTH OF 10 FT. MAY BE USED WHEN THE CURVE RADIUS IS GREATER THAN 1,900 FT.
2. CONCRETE SHALL BE CLASS B.
3. PROFILE GRADE OF CURBS AND GUTTERS SHALL BE LOCATED AT THE FLOW LINE.
4. CURB TYPE 4 (KEY-WAY) MAY BE USED IN LIEU OF CURB AND GUTTER TYPE 2 (SECTIONS IB AND IIB) UNLESS OTHERWISE SPECIFIED ON THE PLANS.
5. GUTTER CROSS SLOPES MAY BE ADJUSTED TO FACILITATE DRAINAGE FOR PROFILE GRADES AS SHOWN ON THE PLANS.
6. THICKNESS OF CURB AND GUTTER SECTION SHALL MATCH CONCRETE PAVEMENT THICKNESS IF SHOWN ON THE PLANS. CURB AND GUTTER SHALL BE CLASS P CONCRETE IF PLACED MONOLITHICALLY WITH CONCRETE PAVEMENT.
7. INCREASE SIDEWALK THICKNESS TO 6 IN. AT LOCATIONS SHOWN ON THE PLANS.
8. MINIMUM SIDEWALK WIDTH IS 4 FT.

▲ EXPANSION JOINTS SHALL BE INSTALLED WHEN ABUTTING EXISTING CONCRETE OR FIXED STRUCTURE. EXPANSION JOINT MATERIAL SHALL BE ½ IN. THICK AND SHALL EXTEND THE FULL DEPTH OF CONTACT SURFACE.

Ⓘ GUTTER CROSS SLOPES SHALL BE ½ IN./FT. WHEN DRAINING AWAY FROM CURB AND 1 IN./FT. WHEN DRAINING TOWARD CURB (WITH EXCEPTION TO IMMEDIATELY ADJACENT TO CURB RAMPS - SEE STANDARD PLAN M-608-1 FOR SLOPE REQUIREMENTS).

● WHEN TIE BARS ARE REQUIRED, THE GUTTER THICKNESS SHALL BE INCREASED TO THE PAVEMENT THICKNESS (T). BARS SHALL BE EPOXY-COATED #4 CONFORMING TO AASHTO M 254 AND SPACED AT 3 FT. INTERVALS. THEY SHALL BE INSERTED ½ AND 1#2 LENGTH INTO THE GUTTER.

LEGEND FOR RADII
A = ½" TO ¼"
B = 1"
C = 1½"
D = 1½" TO 2"



▨ THIS AREA SHALL BE POURED MONOLITHICALLY WITH CURB AND GUTTER AND PAID FOR AS "CONCRETE PAVEMENT".
■ FLOW LINE LOCATION WILL BE ESTABLISHED BY W/2 SHOWN ON PLANS.

CONSTRUCTION OF CONCRETE GUTTERS AT INTERSECTION

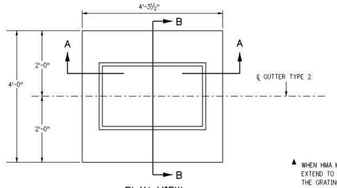
Computer File Information		Sheet Revisions	
Creation Date: 07/04/12	Initials: DLM	Date:	Comments
Last Modification Date: 07/24/12	Initials: LTA	07/24/12	Changed Tie Bar spacing from 30" to 36".
Full Path: www.coloradodot.info/business/designsupport			
Drawing File Name: 609010104.dgn			
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English			

Colorado Department of Transportation
4201 East Arkansas Avenue
CDOT HQ, 4th Floor
Denver, CO 80222
Phone: 303-757-9021 FAX: 303-757-9868
Division of Project Support DLM/LTA

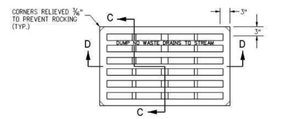
CURB, GUTTERS, AND SIDEWALKS

Issued By: Project Development Branch on July 4, 2012

STANDARD PLAN NO.
M-609-1
Sheet No. 1 of 4



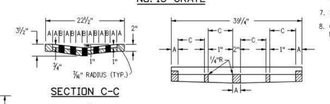
PLAN VIEW
TYPE 13 INLET FOR GUTTER TYPE 2



NO. 13 GRATE

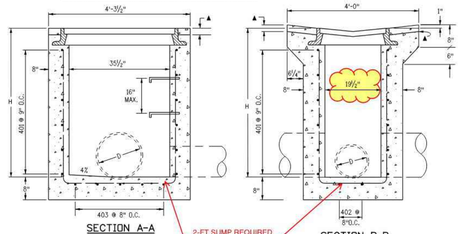
GENERAL NOTES

1. CONCRETE SHALL BE CLASS B. INLET MAY BE CAST-IN-PLACE OR PRECAST.
2. CAST-IN-PLACE CONCRETE WALLS SHALL BE FORMED ON BOTH SIDES.
3. EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED ¾ IN.
4. REINFORCING BARS SHALL BE DEFORMED #4 AND SHALL HAVE A 2 IN. MINIMUM CLEARANCE. ALL REINFORCING BARS SHALL BE EPOXY COATED.
5. STEPS SHALL BE PROVIDED WHEN INLET DIMENSION "H" IS EQUAL TO OR GREATER THAN 3 FT.-6 IN. AND SHALL CONFORM TO AASHTO M 199.
6. ALL GRATES AND FRAMES SHALL BE GRAY OR DUCTILE CAST IRON IN ACCORDANCE WITH SUBSECTION 712.06. GRATES AND FRAMES SHALL BE DESIGNED TO WITHSTAND HS 20 LOADING.
7. STATION POINT IS AT THE CENTER OF THE INLET.
8. GRATE SHALL HAVE "DUMP NO WASTE DRAINS TO STREAM" MESSAGE CAST ON SURFACE.



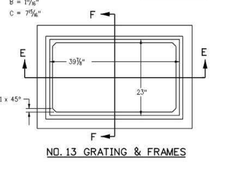
SECTION C-C

SECTION D-D



SECTION A-A
D MAX = 30 IN. FOR H > 4 FT.

SECTION B-B
D MAX = 18 IN. FOR ALL H



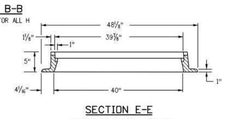
NO. 13 GRATING & FRAMES

H	CONCRETE	REINFORCING STEEL	NO. OF 405 BARS	MAXIMUM PIPE Ø◊	
				SEC. A-A	SEC. B-B
	CU. YDS.	@ LB.	REQ'D.	IN.	IN.
3'-0"	1.3	72	4	18	18
3'-6"	1.5	76	4	24	18
4'-0"	1.6	90	5	30	18
4'-6"	1.8	104	6	30	18
5'-0"	1.9	109	6	30	18
5'-6"	2.1	122	7	30	18
6'-0"	2.2	136	8	30	18
6'-6"	2.4	141	8	30	18
7'-0"	2.5	154	9	30	18
7'-6"	2.7	168	10	30	18
8'-0"	2.8	173	10	30	18
8'-6"	3.0	187	11	30	18
9'-0"	3.1	200	12	30	18
9'-6"	3.3	205	12	30	18
10'-0"	3.4	219	13	30	18

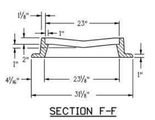
◊ INCLUDES 1% FOR OVERRUN.
NOTE: CONCRETE QUANTITIES INCLUDE VOLUME OCCUPIED BY PIPE.

QUANTITIES FOR ONE INLET

BENDING DIAGRAMS
ALL DIMENSIONS ARE OUT-TO-OUT OF BAR.



SECTION E-E
APPROXIMATE WEIGHT = 590 LBS.



SECTION F-F

MARK	NO. REQ'D.	DIMENSIONS		LENGTH
		X	Y	
401	4	3'-6"	2'-2"	13'-4"
402	2	3'-4½"	* 2'-10½"	8'-5½"
403	5	2'-1½"	* 2'-7"	7'-2½"

* ADD 6 IN. TO THIS DIMENSION FOR EACH 6 IN. INCREASE OF "H" OVER 3 FT.-0 IN.

BAR LIST FOR H = 3 FT.-0 IN.

Computer File Information		Sheet Revisions	
Creation Date: 07/04/12	Initials: DD	Date:	Comments
Last Modification Date: 07/24/12	Initials: LTA		
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Drawing File Name: 6040130101.dgn			
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Project Development Branch DD/LTA

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STANDARD PLAN NO.
M-604-13
Sheet No. 1 of 1

DRAWING FILENAME: P:\2571-001\Drawings\Production Drawings\SDS 2.0\2571-001-C-505-SDS 2.0-DETAILS.dwg LAYOUT NAME: C.505 DATE: Feb 05, 2024 - 11:18am CAD/OPERATOR: mattbee

LIST OF XREFS: L&DRAWN-C(24)_D(ANSI)

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Reviewed for Code Compliance
04/01/2024

NO.	DATE:	BY:	DESCRIPTION:
1.	02.08.2024	MCE	PERMIT COMMENT RESPONSE

PROJECT:	2571-001
DATE:	12/15/2023
CONTACT:	Matthew Eigen
EMAIL:	matte@landmark-co.com

The Amble - Construction Drawings
CDOT Details

SHEET
C.505

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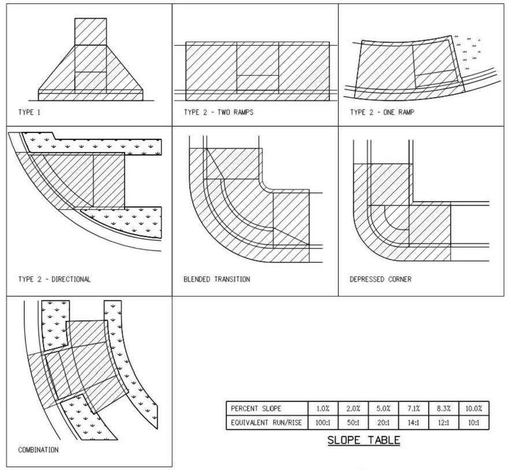
COLORADO LICENSED
MATTHEW CARL EIGEN
50740
2/15/24
PROFESSIONAL ENGINEER
NOT VALID WITHOUT ORIGINAL SIGNATURE AND DATE

CURB RAMP GENERAL NOTES:

1. IN NEW CONSTRUCTION OR FULL-DEPTH RECONSTRUCTION, PROVIDE A SEPARATE CURB RAMP FOR EACH MARKED OR UNMARKED PEDESTRIAN STREET CROSSING. CURB RAMPS SHALL BE CONTAINED WHOLLY WITHIN THE WIDTH OF THE PEDESTRIAN STREET CROSSING OR CROSSWALK THEY SERVE, OR AS SHOWN ON THE CONTRACT PLANS.
2. ALTERATIONS ARE DEFINED AS CHANGES TO AN EXISTING HIGHWAY THAT AFFECT PEDESTRIAN ACCESS, CIRCULATION, OR USE. ALTERATIONS INCLUDE, BUT ARE NOT LIMITED TO, RESURFACING, REHABILITATION, RECONSTRUCTION, CURB RAMP RETROFITS, HISTORIC RESTORATION, OR CHANGES OR REARRANGEMENT TO STRUCTURAL PARTS OR ELEMENTS OF A PEDESTRIAN FACILITY.
3. A WALKABLE SURFACE IS DEFINED AS A PAVED SURFACE ADJACENT TO A CURB RAMP OR TURNING SPACE, WITHOUT RAISED OBSTACLES, THAT COULD BE MISTAKENLY TRAVERSED BY A USER WHO IS VISUALLY IMPAIRED.
4. IN ALTERATIONS, WHERE AN EXISTING PHYSICAL CONSTRAINT PREVENTS PROVIDING A SEPARATE CURB RAMP FOR EACH PEDESTRIAN STREET CROSSING, A SINGLE DIAGONAL RAMP (ON THE APEX) SHALL BE PERMITTED TO SERVE BOTH PEDESTRIAN STREET CROSSINGS. THE USE OF A SINGLE DIAGONAL RAMP SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. DIAGONAL RAMPS ARE NOT ACCEPTABLE IN NEW CONSTRUCTION OR FULL-DEPTH RECONSTRUCTION.
5. DETECTABLE WARNINGS SURFACES (DWS) ARE INTENDED TO INDICATE THE BOUNDARY BETWEEN A PEDESTRIAN ROUTE AND VEHICULAR ROUTE WHERE THERE IS A FLUSH RATHER THAN CURBED CONNECTION. DWS ARE NOT INTENDED TO PROVIDE WAYFINDING. DWS SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS;
   1. CURB RAMPS, BLENDED TRANSITIONS, AND DEPRESSED CORNERS AT PEDESTRIAN STREET CROSSINGS;
   2. PEDESTRIAN REFUGE ISLANDS (6 FEET IN WIDTH OR GREATER);
   3. BOARDING PLATFORMS AT TRANSIT STOPS WHERE THE EDGE OF THE PLATFORM IS NOT PROTECTED TO PEDESTRIAN CROSS TRAFFIC; AND
   4. BOARDING AREAS AT SIDEWALK OR STREET LEVEL TRANSIT STOPS WHERE THE AREA IS NOT PROTECTED TO PEDESTRIAN CROSS TRAFFIC.
6. DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH THE ADJACENT GUTTER, HIGHWAY, OR PEDESTRIAN ACCESS ROUTE SURFACE, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. FEDERAL YELLOW COLOR IS PREFERRED, HOWEVER, OTHER COLORS MAY BE USED IF APPROVED BY THE ENGINEER.
7. IN ALTERATIONS, TO AVOID CHASING GRADE INDEFINITELY ON STEEP ROADWAYS, A CURB RAMPS LENGTH IS NOT REQUIRED TO EXCEED 15 FEET REGARDLESS OF THE RESULTING RAMP RUNNING SLOPE.
8. ALL SLOPES ARE MEASURED WITH RESPECT TO A LEVEL PLANE.
9. DRAINAGE STRUCTURES, TRAFFIC SIGNAL EQUIPMENT, OR OTHER OBSTRUCTIONS SHALL NOT BE INSTALLED ON THE CURB RAMP, OR TURNING SPACE AREAS.
10. IN NEW CONSTRUCTION, PULL BOXES, METER BOXES, MAINTENANCE HOLE COVERS, VAULT LIDS, OR SIMILAR, SHALL NOT BE CONSTRUCTED WITHIN ANY PART OF CURB RAMP OR TURNING SPACE. IN ALTERATIONS, WHERE THESE ITEMS CANNOT BE RELOCATED OUTSIDE OF THE CURB RAMP OR TURNING SPACE, THEY MUST NOT CREATE A VERTICAL DISCONTINUITY GRATER THAN 1/2 INCH. ANY VERTICAL DISCONTINUITY BETWEEN 1/4 INCH AND 1/2 INCH SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1V:2H. THE BEVEL SHALL BE APPLIED ACROSS THE ENTIRE SURFACE DISCONTINUITY.
11. CONSTRUCTION OF ANY REQUIRED PEDESTRIAN CURB SHALL BE INCLUDED IN THE BID PRICE OF THE CONCRETE CURB RAMP AND WILL NOT BE PAID FOR SEPARATELY.
12. ALL CURB RAMP JOINTS AND GRADE BREAKS SHALL BE FLUSH (0'-1/8"). THE JOINT BETWEEN THE ROADWAY SURFACE AND THE GUTTER PAN SHALL BE FLUSH.
13. THE CONTRACTOR SHALL VERIFY REMOVAL LIMITS ARE SUFFICIENT TO PROVIDE POSITIVE DRAINAGE, MAINTAIN EXISTING DRAINAGE PATTERNS, AND AVOID PONDING IN THE FINAL CONFIGURATION.
14. FLARED SIDE SLOPES MAY EXCEED 10.0% ONLY WHERE THEY ABUT A NON-WALKABLE SURFACE, OR WHERE THE ADJACENT RAMP SURFACE IS BLOCKED TO PEDESTRIAN TRAFFIC.
15. THE CHANGE IN GRADE AT THE BOTTOM OF THE CURB RAMP SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 13.33%. THE COUNTER SLOPE OF THE GUTTER AT THE FOOT OF A RAMP, TURNING SPACE, OR BLENDED TRANSITION SHALL NOT EXCEED 5.0%.
16. GRADE BREAKS AT THE TOP AND BOTTOM OF RAMP RUNS SHALL BE PERPENDICULAR TO THE DIRECTION OF THE RAMP RUN. GRADE BREAKS SHALL NOT BE PERMITTED ON THE SURFACE OF THE RAMP RUN OR TURNING SPACE. SURFACE SLOPES THAT MEET AT GRADE BREAKS SHALL BE FLUSH.
17. A BROOM FINISH, WITH SWEEPS PERPENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAFFIC, SHALL BE APPLIED TO ALL RAMP AND TURNING SPACE SURFACES.
18. IN ALTERATIONS, WHERE A RAMP OR TURNING SPACE MUST TIE INTO AN EXISTING GRADE THAT CANNOT BE ALTERED, THE RAMP OR TURNING SPACE MAY BE WARPED TO TRANSITION TO THE REQUIRED CROSS SLOPE. THE TRANSITION TO THE REQUIRED CROSS SLOPE SHALL BE SPREAD EVENLY OVER THE LENGTH OF THE RAMP OR TURNING SPACE TO MINIMIZE THE DEGREE OF WARPING. THE RATE OF CHANGE ON A RAMP OR TURNING SPACE SHALL NOT EXCEED .3% PER LINEAR FOOT.
19. DESIGN AND CONSTRUCT CURB RAMPS, TURNING SPACES, AND FLARE SLOPES WITH THE FLATTEST SLOPES POSSIBLE. THE SLOPES INDICATED IN THESE DETAILS SHOW THE MAXIMUM SLOPES ALLOWABLE. PREFERRED VALUES TO BE USED DURING DESIGN, LAYOUT, AND CONSTRUCTION ARE:
   - RAMP RUNNING SLOPE 7.5%
   - RAMP CROSS SLOPE 1.5%
   - TURNING SPACE RUNNING SLOPE 1.5%
   - TURNING SPACE CROSS SLOPE 1.5%
   - FLARE SLOPE 8.0-9.0%
20. WHERE SNOW REMOVAL EQUIPMENT WILL BE USED TO CLEAR THE PEDESTRIAN ACCESS ROUTE, CONSULT THE ENGINEER PRIOR TO CONSTRUCTION TO ENSURE THE WIDTH AND THICKNESS OF CURB RAMPS IS SUFFICIENT TO ACCOMODATE SUCH EQUIPMENT.
21. PROVIDE EXPANSION JOINT MATERIAL 1/2" THICK WHERE CURB RAMPS ADJOIN ANY RIGID PAVEMENT, OR STRUCTURE. THE TOP OF THE JOINT FILLER MATERIAL SHALL BE FLUSH WITH ADJOINING CONCRETE SURFACES. THE EXPANSION JOINT MATERIAL SHALL EXTEND FOR THE FULL DEPTH OF THE CONCRETE SURFACE.
22. PROVIDE TIE BAR REINFORCING BETWEEN INDEPENDENTLY POURED CONCRETE CURB RAMPS OR TURNING SPACES AND CURB AND GUTTER. DRILL AND GROUT NO. 4 12 INCH LONG REINFORCEMENT BARS (EPOXY COATED) AT 18 INCHES CENTER TO CENTER MINIMUM.

CURB RAMP PAY AREAS



PERCENT SLOPE	1.0%	2.0%	5.0%	7.1%	8.3%	10.0%
EQUIVALENT RUN/RISE	100:1	50:1	20:1	14:1	12:1	10:1

SLOPE TABLE

GENERAL NOTES & PAY AREAS

Computer File Information		Sheet Revisions	
Creation Date: 07/04/12	Initials: JBK	Date:	Comments
Last Modification Date: 05/03/19	Initials: LTA (R-X)	05/03/19	Completely revised every sheet.
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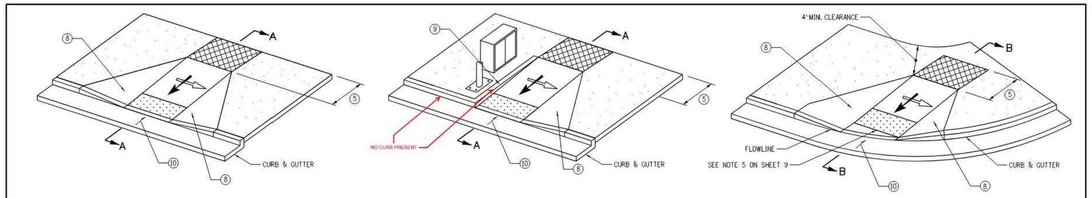
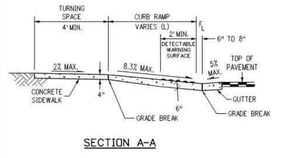


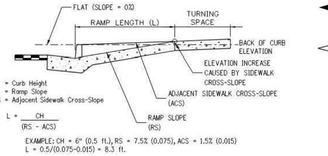
PERPENDICULAR RAMP (TYPICAL)

PERPENDICULAR RAMP (WITH VERTICAL RETURN CURB)

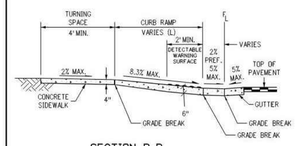
PERPENDICULAR RAMP (DIRECTIONAL)



SECTION A-A



DETAIL A - RAMP LENGTH



SECTION B-B

SIDEWALK
TURNING SPACE (3) (4) (5)
DETECTABLE WARNING SURFACE (DWS)

PERPENDICULAR RAMP NOTES

1. RAMP WIDTH - PROVIDE 5 FT.OR GREATER WHERE POSSIBLE. IF SITE CONSTRAINTS DO NOT PERMIT, PROVIDE 4 FT. MINIMUM. RAMPS SERVICING SHARED USE PATHS SHALL MATCH THE WIDTH OF THE PATH.
2. RAMP RUNNING SLOPE - 8.3% MAX.
3. TURNING SPACE RUNNING SLOPE - 2.0% MAX. TURNING SPACE RUNNING SLOPE IS MEASURED IN THE SAME DIRECTION AS THE RAMP RUNNING SLOPE.
4. RAMP AND TURNING SPACE CROSS SLOPE - 2.0% TYPICAL. AT CROSSINGS WITHOUT YIELD OR STOP CONTROL, OR WITH A SIGNAL WHERE VEHICLES CAN PROCEED THROUGH THE INTERSECTION WITHOUT SLOWING OR STOPPING, THE CROSS SLOPE OF RAMPS AND TURNING SPACES MAY EQUAL THE HIGHWAY GRADE. AT MIDBLOCK PEDESTRIAN STREET CROSSINGS THE RAMP AND TURNING SPACE CROSS SLOPE MAY EQUAL THE HIGHWAY GRADE.
5. TURNING SPACE DIMENSIONS - PROVIDE A TURNING SPACE AT THE TOP OF PERPENDICULAR RAMPS WITH A WIDTH EQUAL TO THE WIDTH OF THE CURB RAMP. TURNING SPACE LENGTH MUST BE 4 FT. MINIMUM, MEASURED IN THE DIRECTION OF THE RAMP RUN. WHEN A TURNING SPACE IS CONSTRAINED AT THE BACK OF SIDEWALK, INCREASE LENGTH TO 5 FT. MINIMUM IN THE DIRECTION OF THE RAMP RUN.
6. RAMP ALIGNMENT - RAMPS SHALL BE ALIGNED TO BE FULLY CONTAINED WITHIN THE CROSSWALK OR STREET CROSSING THEY SERVE. PROVIDE ONE RAMP FOR EACH STREET CROSSING DIRECTION. IN ALTERATIONS, WHERE EXISTING PHYSICAL CONSTRAINTS PREVENT PROVIDING ONE CURB RAMP FOR EACH CROSSING DIRECTION, A SINGLE DIAGONAL CURB RAMP (ON THE APEX OF A CORNER) SHALL BE PERMITTED TO SERVE BOTH PEDESTRIAN STREET CROSSINGS. IF A DIAGONAL RAMP IS USED, A CLEAR SPACE 4 FT.X 4FT.MUST BE PROVIDED AT THE BASE OF THE RAMP. THE CLEAR SPACE MUST BE WITHIN BOTH CROSSWALKS AND WHOLLY OUTSIDE OF ANY ADJACENT VEHICULAR TRAVEL LANES. DIAGONAL RAMPS ARE NOT ACCEPTABLE IN NEW CONSTRUCTION, OR FULL-DEPTH RECONSTRUCTION.
7. RAMP LENGTH - PERPENDICULAR RAMP LENGTH IS DEPENDENT UPON THE RAMP SLOPE, HEIGHT OF CURB, AND ADJACENT SIDEWALK CROSS-SLOPE WHICH MUST BE INTERCEPTED. SEE DETAIL A FOR CALCULATING RAMP LENGTH WHEN CHASING SIDEWALK CROSS-SLOPE. WHERE TERRAIN IS SLOPING A RAMP IS NOT REQUIRED TO CHASE GRADE MORE THAN 15 FT. REGARDLESS OF THE RESULTING RAMP SLOPE.
8. RAMP FLARES - WHERE A RAMP EDGE ABUTS A WALKABLE SURFACE, A FLARED SIDE SHALL BE PROVIDED. RAMP FLARE SLOPES SHALL NOT EXCEED 10.0%.
9. VERTICAL CURB RETURNS - VERTICAL CURB RETURNS MAY BE USED ONLY WHERE A RAMP ABUTS A NON-WALKABLE SURFACE, OR WHERE A RAMP IS PROTECTED FROM PEDESTRIAN CROSS TRAFFIC (FOR EXAMPLE BY A SIGNAL CABINET OR UTILITY POLE WHICH BLOCKS PASSAGE).
10. GUTTER COUNTER SLOPE - 5.0% MAX.

TYPE 1 PERPENDICULAR CURB RAMPS

Computer File Information		Sheet Revisions	
Creation Date: 07/04/12	Initials: JBK	Date:	Comments
Last Modification Date: 05/03/19	Initials: LTA (R-X)	05/03/19	Completely revised every sheet.
Full Path: www.codot.gov/business/designsupport (R-X)			
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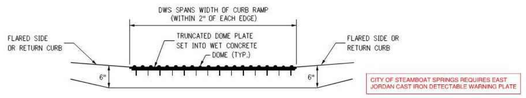
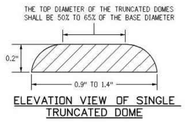
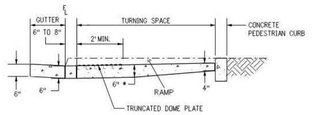


CITY OF STEAMBOAT SPRINGS REQUIRES EAST JORDAN CAST IRON DETECTABLE WARNING PLATE

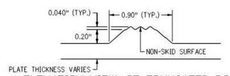
SECTION VIEW OF DETECTABLE WARNING SURFACE PLATE
(LOOKING AT PERPENDICULAR RAMP RUN FROM STREET)



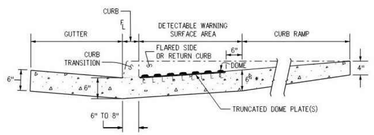
ELEVATION VIEW OF SINGLE TRUNCATED DOME



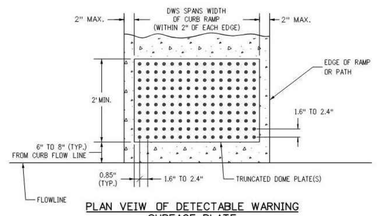
SECTION VIEW FOR PARALLEL CURB RAMP TYPES
(LOOKING PERPENDICULAR TO TURNING SPACE)



ELEVATION VIEW OF TRUNCATED DOME FOR DETECTABLE WARNING PLATE



SECTION VIEW FOR PERPENDICULAR CURB RAMP TYPES
(LOOKING PERPENDICULAR TO RAMP RUN)



PLAN VEIW OF DETECTABLE WARNING SURFACE PLATE

DETECTABLE WARNING SURFACE DETAILS

Computer File Information		Sheet Revisions	
Creation Date: 07/04/12	Initials: JBK	Date:	Comments
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PROJECT:	257-001
DATE:	12/19/2023
CONTACT:	Matthew Eggen
EMAIL:	matte@landmark-co.com

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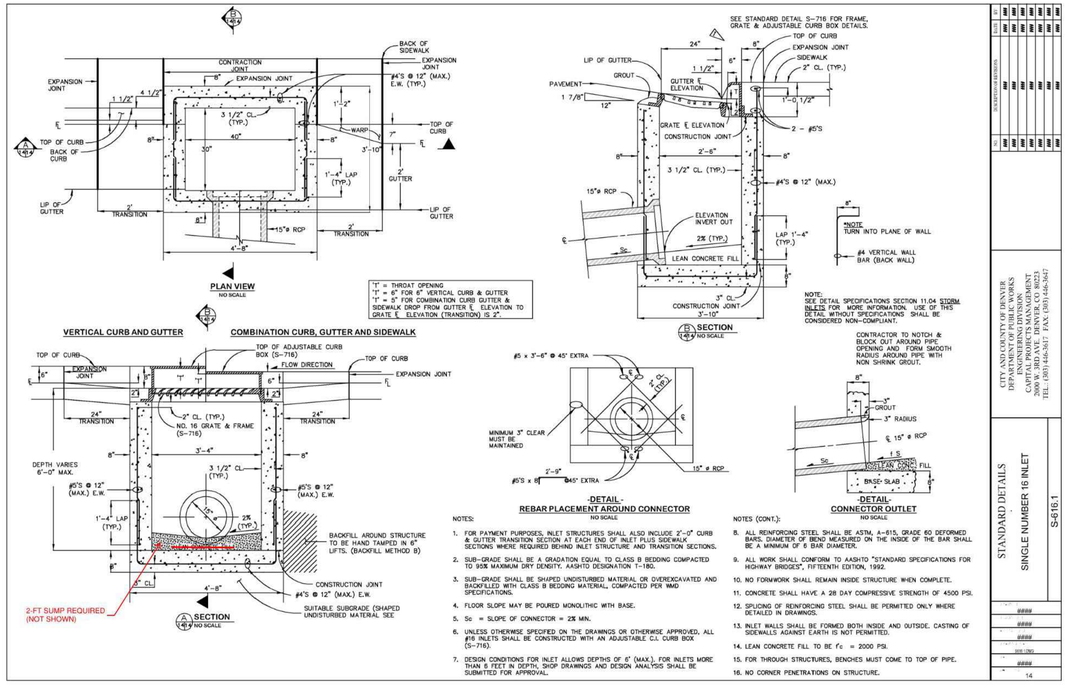

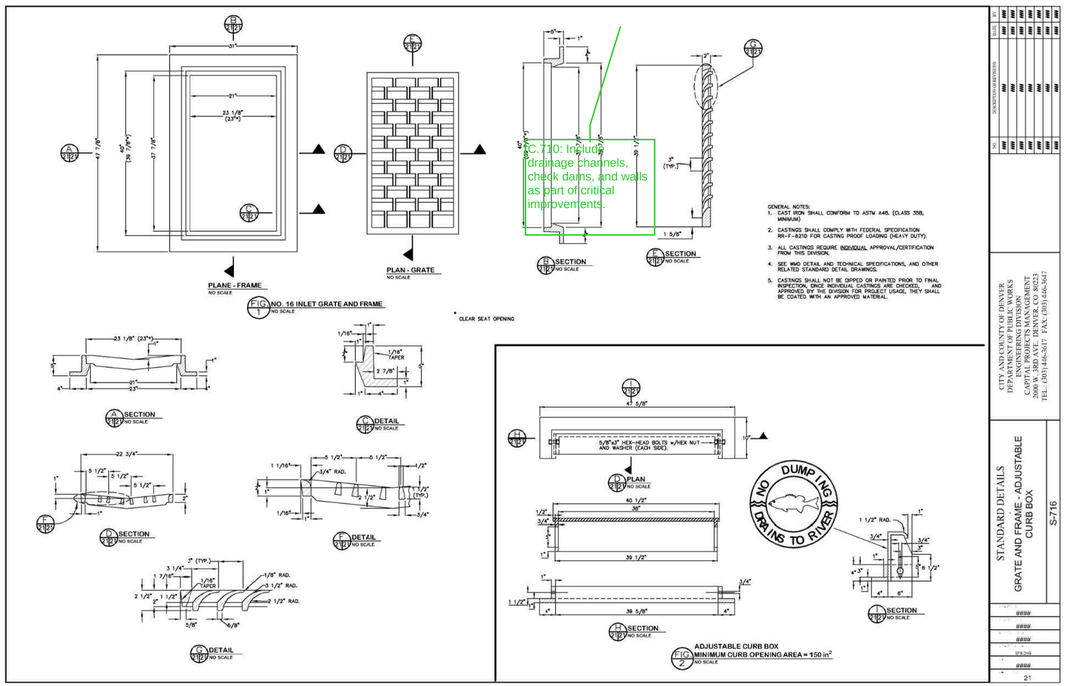

FC 710: Include drainage channels, check dams, and walls as part of critical improvements.

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1	02.08.2024	MCE	PERMIT COMMENT RESPONSE

PROJECT:	2511-001
DATE:	12/15/2023
CONTACT:	Matthew Eigen
EMAIL:	matte@landmark-co.com

The Amble - Construction Drawings
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LIST OF XREFS: 240408-EXE-C(ACAD22)

SECTION 2723

ENGINEERED SURFACE DRAINAGE PRODUCTS

GENERAL

PVC SURFACE DRAINAGE INLETS SHALL BE OF THE CURB INLET STRUCTURE TYPE AS INDICATED ON THE CONTRACT DRAWINGS AND REFERENCED WITHIN THE CONTRACT SPECIFICATIONS. THE **DUCTILE IRON FRAME, GRATE AND HOOD** FOR EACH OF THESE STRUCTURES ARE TO BE CONSIDERED AN INTEGRAL PART OF THE SURFACE DRAINAGE INLET AND SHALL BE FURNISHED BY THE SAME MANUFACTURER. THE CURB INLET STRUCTURE SHALL BE AS MANUFACTURED BY NYLOPLAST A DIVISION OF ADVANCED DRAINAGE SYSTEMS, INC. OR PRIOR APPROVED EQUAL.

MATERIALS

THE CURB INLET STRUCTURE REQUIRED FOR THIS CONTRACT SHALL BE MANUFACTURED FROM PVC PIPE STOCK, UTILIZING A THERMO-MOLDING PROCESS TO REFORM THE PIPE STOCK TO THE SPECIFIED CONFIGURATION. THE DRAINAGE PIPE CONNECTION STUBS SHALL BE MANUFACTURED FORM PVC PIPE STOCK AND FORMED TO PROVIDE A WATERTIGHT CONNECTION WITH THE SPECIFIED PIPE SYSTEM. THIS JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR JOINTS FOR DRAIN AND SEWER PLASTIC PIPE USING FLEXIBLE ELASTOMERIC SEALS. THE FLEXIBLE ELASTOMERIC SEALS SHALL CONFORM TO ASTM F477. THE PIPE BELL SPIGOT SHALL BE JOINED TO THE MAIN BODY OF THE STRUCTURE. THE RAW MATERIAL USED TO MANUFACTURE THE PIPE STOCK THAT IS USED TO MANUFACTURE THE MAIN BODY AND PIPE STUBS OF THE SURFACE DRAINAGE INLETS SHALL CONFORM TO ASTM D1784 CELL CLASS 12454.

THE GRATE, FRAME AND HOOD FOR ALL CURB INLET STRUCTURES SHALL BE DUCTILE IRON AND SHALL BE MADE SPECIFICALLY FOR EACH SO AS TO PROVIDE A ROUND BOTTOM FLANGE THAT CLOSELY MATCHES THE DIAMETER OF THE PVC STRUCTURE BODY. THE GRATE, FRAME AND HOOD SHALL BE CAPABLE OF SUPPORTING H-20 WHEEL LOADING FOR TRAFFIC AREAS. THE HOOD SECTION WILL HAVE A SOLID BACK AND BE ADJUSTABLE BY USE OF THREE (3) LOCKING HEX HEAD BOLTS. THE METAL USED IN THE MANUFACTURE OF THE CASTINGS SHALL CONFORM TO ASTM A536 GRADE 70-50-05 FOR DUCTILE IRON.

INSTALLATION

THE SPECIFIED PVC SURFACE DRAINAGE INLET SHALL BE INSTALLED USING CONVENTIONAL FLEXIBLE PIPE BACKFILL MATERIALS AND PROCEDURES. THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS 1, CLASS 2, OR CLASS 3 MATERIAL AS DEFINED IN ASTM D2321. BEDDING AND BACKFILL FOR THE CURB INLET STRUCTURE SHALL BE PLACED AND COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321. THE CURB INLET STRUCTURE BODY WILL BE CUT AT THE TIME OF THE FINAL GRADE. NO BRICK, STONE OR CONCRETE BLOCK WILL BE REQUIRED TO SET THE GRATE TO THE FINAL GRADE HEIGHT. FOR H-20 LOAD RATED INSTALLATIONS, A CONCRETE RING WILL BE POURED UNDER THE FRAME, GRATE, AND HOOD. THE CONCRETE SLAB MUST BE DESIGNED TAKING INTO CONSIDERATION LOCAL SOIL CONDITIONS, TRAFFIC LOADING, AND OTHER APPLICABLE DESIGN FACTORS. FOR OTHER INSTALLATION CONSIDERATIONS SUCH AS MIGRATION OF FINES, GROUND WATER, AND SOFT FOUNDATIONS REFER TO ASTM D2321 GUIDELINES.

HP STORM TRENCH INSTALLATION DETAIL

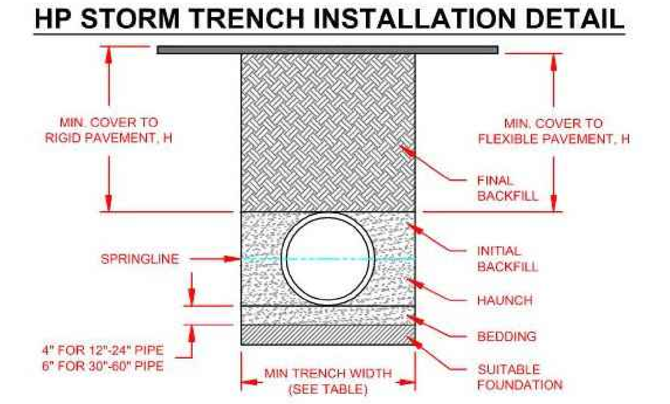

TABLE 1, RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH
12" (300mm)	30" (762mm)
15" (375mm)	34" (864mm)
18" (450mm)	39" (991mm)
24" (600mm)	48" (1219mm)
30" (750mm)	56" (1422mm)
36" (900mm)	64" (1626mm)
42" (1050mm)	72" (1829mm)
48" (1200mm)	80" (2032mm)
60" (1500mm)	96" (2438mm)

TABLE 2, MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS

PIPE DIAM.	SURFACE LIVE LOADING CONDITION H-25	HEAVY CONSTRUCTION (75T AXLE LOAD) *
12" - 48" (300mm - 1200mm)	12" (305mm)	48" (1219mm)
60" (1500mm)	24" (610mm)	60" (1524mm)

* VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER

TABLE 3, MAXIMUM COVER FOR ADS HP STORM PIPE, ft

PIPE DIA	CLASS I COMPACTED	CLASS II 95%	CLASS II 90%	CLASS II 85%	CLASS III 95%	CLASS III 90%	CLASS IV 95%
12" (300mm)	41 (12.5m)	28 (8.5m)	21 (6.4m)	16 (4.9m)	20 (6.1m)	16 (4.9m)	16 (4.9m)
15" (375mm)	42 (12.8m)	29 (8.8m)	21 (6.4m)	16 (4.9m)	21 (6.4m)	16 (4.9m)	16 (4.9m)
18" (450mm)	44 (13.4m)	30 (9.1m)	21 (6.4m)	16 (4.9m)	22 (6.7m)	17 (5.2m)	16 (4.9m)
24" (600mm)	37 (11.3m)	26 (7.9m)	18 (5.5m)	14 (4.3m)	19 (5.8m)	14 (4.3m)	14 (4.3m)
30" (750mm)	39 (11.9m)	27 (8.2m)	19 (5.8m)	14 (4.3m)	19 (5.8m)	15 (4.6m)	14 (4.3m)
36" (900mm)	28 (8.5m)	20 (6.1m)	14 (4.3m)	10 (3.0m)	14 (4.3m)	11 (3.4m)	10 (3.0m)
42" (1050mm)	30 (9.1m)	21 (6.4m)	14 (4.3m)	10 (3.0m)	15 (4.6m)	11 (3.4m)	10 (3.0m)
48" (1200mm)	29 (8.8m)	20 (6.1m)	14 (4.3m)	9 (2.7m)	14 (4.3m)	10 (3.0m)	10 (3.0m)
60" (1500mm)	29 (8.8m)	20 (6.1m)	14 (4.3m)	9 (2.7m)	14 (4.3m)	10 (3.0m)	9 (2.7m)

FILL HEIGHT TABLE GENERATED USING AASHTO SECTION 12, LOAD RESISTANCE FACTOR DESIGN (LRFD) PROCEDURE WITH THE FOLLOWING ASSUMPTIONS:
NO HYDROSTATIC PRESSURE
UNIT WEIGHT OF SOIL (γs) = 120 PCF

NOTES:

1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION, WITH THE EXCEPTION THAT THE INITIAL BACKFILL MAY EXTEND TO THE CROWN OF THE PIPE. SOIL CLASSIFICATIONS ARE PER THE LATEST VERSION OF ASTM D2321. CLASS IVB MATERIALS (MH, CH) AS DEFINED IN PREVIOUS VERSIONS OF ASTM D2321 ARE NOT APPROPRIATE BACKFILL MATERIALS.
2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II, III, OR IV. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. COMPACTION SHALL BE SPECIFIED BY THE ENGINEER IN ACCORDANCE WITH TABLE 3 FOR THE APPLICABLE FILL HEIGHTS LISTED. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 12"-24" (300mm-600mm) DIAMETER PIPE; 6" (150mm) FOR 30"-60" (750mm-1500mm) DIAMETER PIPE. THE MIDDLE 1/3 BENEATH THE PIPE INVERT SHALL BE LOOSELY PLACED. PLEASE NOTE, CLASS IV MATERIAL HAS LIMITED APPLICATION AND CAN BE DIFFICULT TO PLACE AND COMPACT; USE ONLY WITH THE APPROVAL OF A SOIL EXPERT.
5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II, III, OR IV IN THE PIPE ZONE EXTENDING TO THE CROWN OF THE PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION. COMPACTION SHALL BE SPECIFIED BY THE ENGINEER IN ACCORDANCE WITH TABLE 3 FOR THE APPLICABLE FILL HEIGHTS LISTED. PLEASE NOTE, CLASS IV MATERIAL HAS LIMITED APPLICATION AND CAN BE DIFFICULT TO PLACE AND COMPACT; USE ONLY WITH THE APPROVAL OF A SOIL EXPERT.
6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" (300mm) FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS; CLASS I OR II MATERIAL COMPACTED TO 90% SPD AND CLASS III COMPACTED TO 95% SPD IS REQUIRED. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" (300mm) UP TO 48" (1200mm) DIAMETER PIPE AND 24" (600mm) OF COVER FOR 60" (1500mm) DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.
7. FOR ADDITIONAL INFORMATION SEE TECHNICAL NOTE 2.04.

REV	DESCRIPTION	BY	MM/DD/YY	CHK'D
6	REV. MAXIMUM COVER HEIGHTS	RWD	01/11/17	

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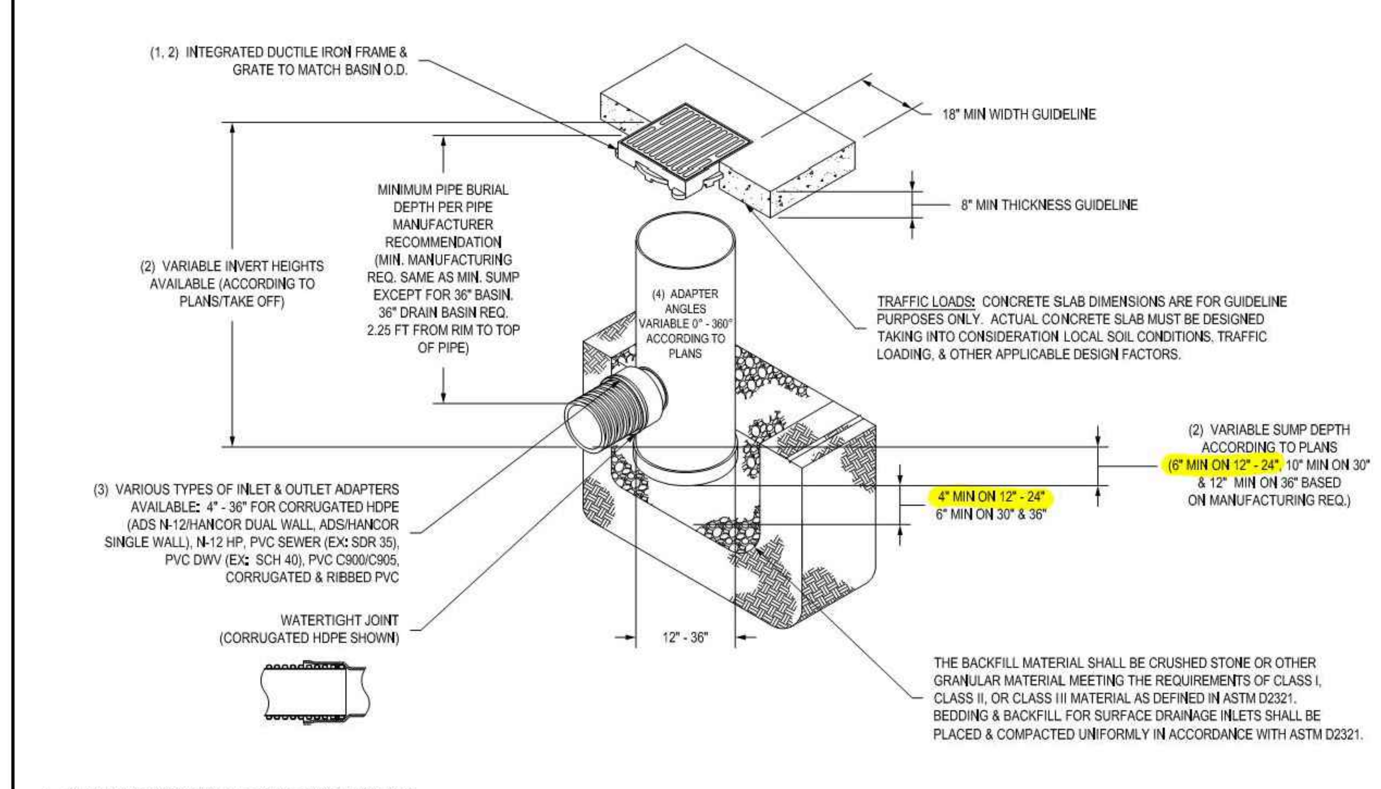
ADVANCED DRAINAGE SYSTEMS, INC. ("ADS") HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DEPICT THE COMPONENTS AS REQUESTED. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT, NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEERS RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

TRENCH INSTALLATION DETAIL (HP STORM) — DRAWING NUMBER: STD-101D — ADS, ADVANCED DRAINAGE SYSTEMS, INC., 4640 TRUEMAN BLVD, HILLIARD, OHIO 43026 — JAB — 01/29/09 — NTS — 1 OF 1

NYLOPLAST 2 FT X 2FT ROAD & HIGHWAY STRUCTURE: 32 _ _ AGS _ _ X



1 - 12" - 30" FRAMES & GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS.
3 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 36").
4 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
5 - ROAD & HIGHWAY GRATE SHALL MEET H-20 LOAD RATING.

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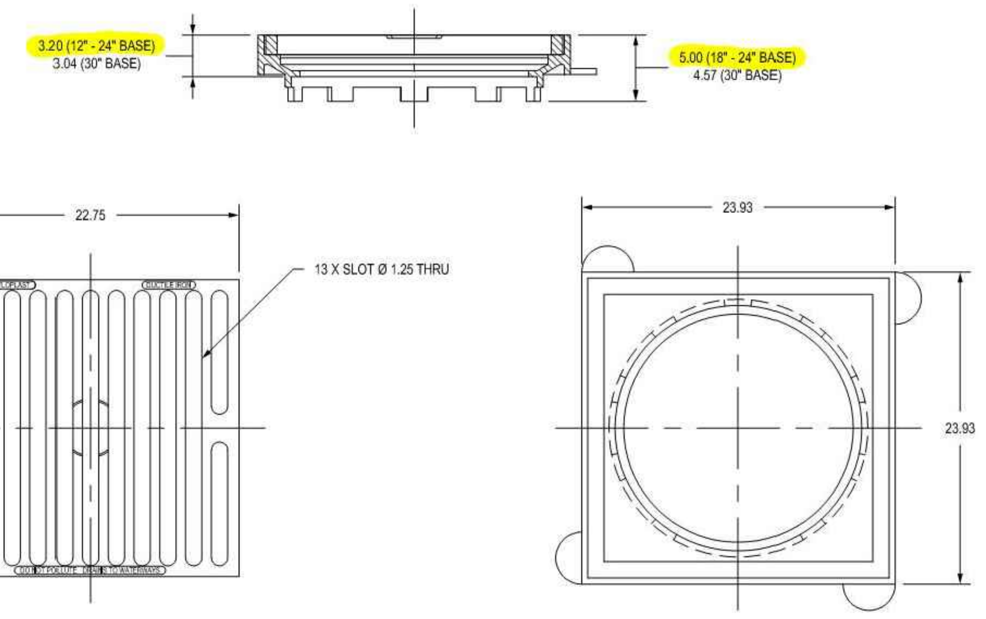
DRAWN BY EBC — DATE 1-23-06 — REVISED BY NMH — DATE 7-22-19 — MATERIAL — PROJECT NO./NAME — DWG SIZE A — SCALE 1:40 — SHEET 1 OF 1
ADS Nyloplast — 3130 VERONA AVE, BUFORD, GA 30518, PHN (770) 932-2443, FAX (770) 932-2490, www.nyloplast-us.com
TITLE: DRAIN BASIN WITH 2 FT X 2 FT ROAD & HIGHWAY GRATE QUICK SPEC INSTALLATION DETAIL — DWG NO. 7001-110-162 — REV H

3299CGSQ

APPROX. DRAIN AREA = 277.53 SQ IN
*APPROX. WEIGHT OF GRATE = 66.50 LBS



DIMENSIONS ARE FOR REFERENCE ONLY
ACTUAL DIMENSIONS MAY VARY
DIMENSIONS ARE IN INCHES
GRATE MEETS H-20 LOAD RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
LOCKING DEVICE AVAILABLE UPON REQUEST SEE DRAWING NO. 7001-110-238
*WEIGHT DOES NOT INCLUDE FRAME
FRAME WITH 12" BASE: APPROX. 92.00 LBS
FRAME WITH 15" BASE: APPROX. 89.00 LBS
FRAME WITH 18" BASE: APPROX. 86.50 LBS
FRAME WITH 24" BASE: APPROX. 98.50 LBS
FRAME WITH 30" BASE: APPROX. 110.00 LBS

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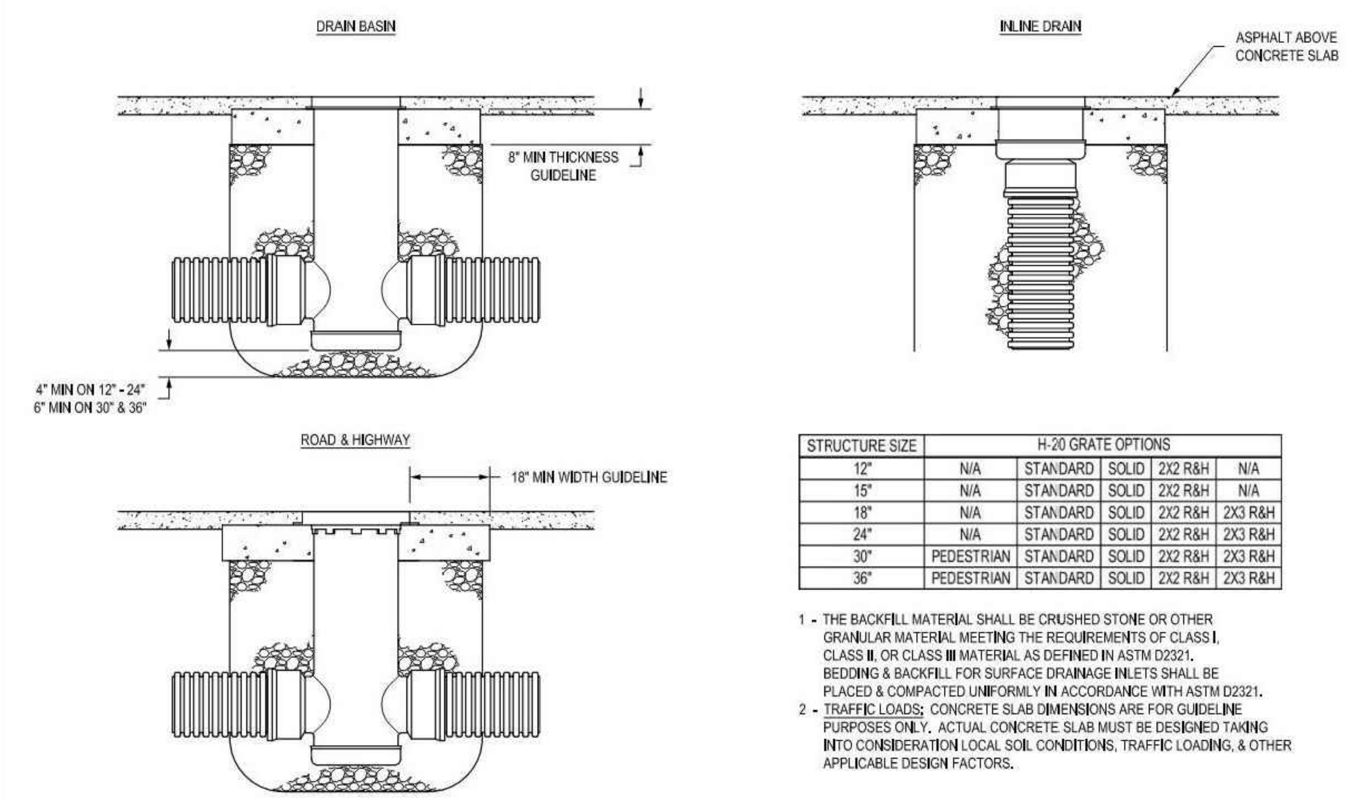
DRAWN BY EBC — DATE 03-09-06 — REVISED BY CCA — DATE 09-03-13 — MATERIAL: DUCTILE IRON — PROJECT NO./NAME — DWG SIZE A — SCALE 1:10 — SHEET 1 OF 1
ADS Nyloplast — 3130 VERONA AVE, BUFORD, GA 30518, PHN (770) 932-2443, FAX (770) 932-2490, www.nyloplast-us.com
TITLE: 2 FT X 2 FT ROAD & HIGHWAY 2 PIECE GRATE ASSEMBLY — DWG NO. 7001-110-224 — REV D

ASPHALT INSTALLATION



STRUCTURE SIZE	H-20 GRATE OPTIONS				
12"	N/A	STANDARD	SOLID	2X2 R&H	N/A
15"	N/A	STANDARD	SOLID	2X2 R&H	N/A
18"	N/A	STANDARD	SOLID	2X2 R&H	2X3 R&H
24"	N/A	STANDARD	SOLID	2X2 R&H	2X3 R&H
30"	PEDESTRIAN	STANDARD	SOLID	2X2 R&H	2X3 R&H
36"	PEDESTRIAN	STANDARD	SOLID	2X2 R&H	2X3 R&H

1 - THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I, CLASS II, OR CLASS III MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.
2 - TRAFFIC LOADS: CONCRETE SLAB DIMENSIONS ARE FOR GUIDELINE PURPOSES ONLY. ACTUAL CONCRETE SLAB MUST BE DESIGNED TAKING INTO CONSIDERATION LOCAL SOIL CONDITIONS, TRAFFIC LOADING, & OTHER APPLICABLE DESIGN FACTORS.

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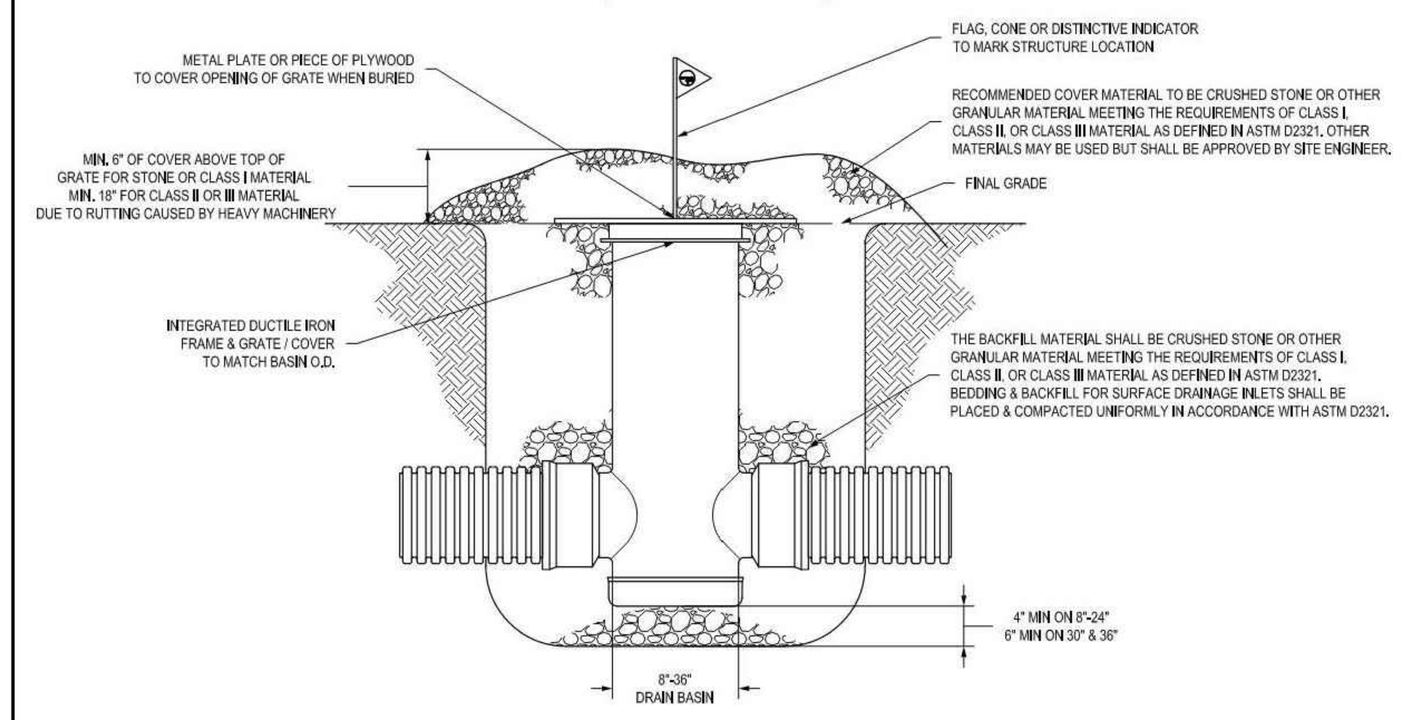
DRAWN BY EBC — DATE 4-4-06 — REVISED BY NMH — DATE 06-12-18 — MATERIAL — PROJECT NO./NAME — DWG SIZE A — SCALE 1:30 — SHEET 1 OF 1
Nyloplast — 3130 VERONA AVE, BUFORD, GA 30518, PHN (770) 932-2443, FAX (770) 932-2490, www.nyloplast-us.com
TITLE: DRAIN BASIN, INLINE DRAIN, & ROAD & HIGHWAY (H-20 TRAFFIC LOAD) ASPHALT INSTALLATION DETAIL — DWG NO. 7001-110-188 — REV F

NYLOPLAST DRAIN BASIN CONSTRUCTION PROTECTION DETAIL - OPTION 1

(BURIED STRUCTURE DETAIL)



1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. IN THE EVENT A BASIN IS DAMAGED DURING CONSTRUCTION, RISER SECTIONS CAN BE USED FOR FIELD REPAIRS.
4 - COVER MATERIAL SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION OR APPROVED BY SITE ENGINEER. MATERIAL SHALL BE ABLE TO SUPPORT VEHICLE TRAFFIC AND SHALL COVER THE STRUCTURE A MINIMUM OF 6".

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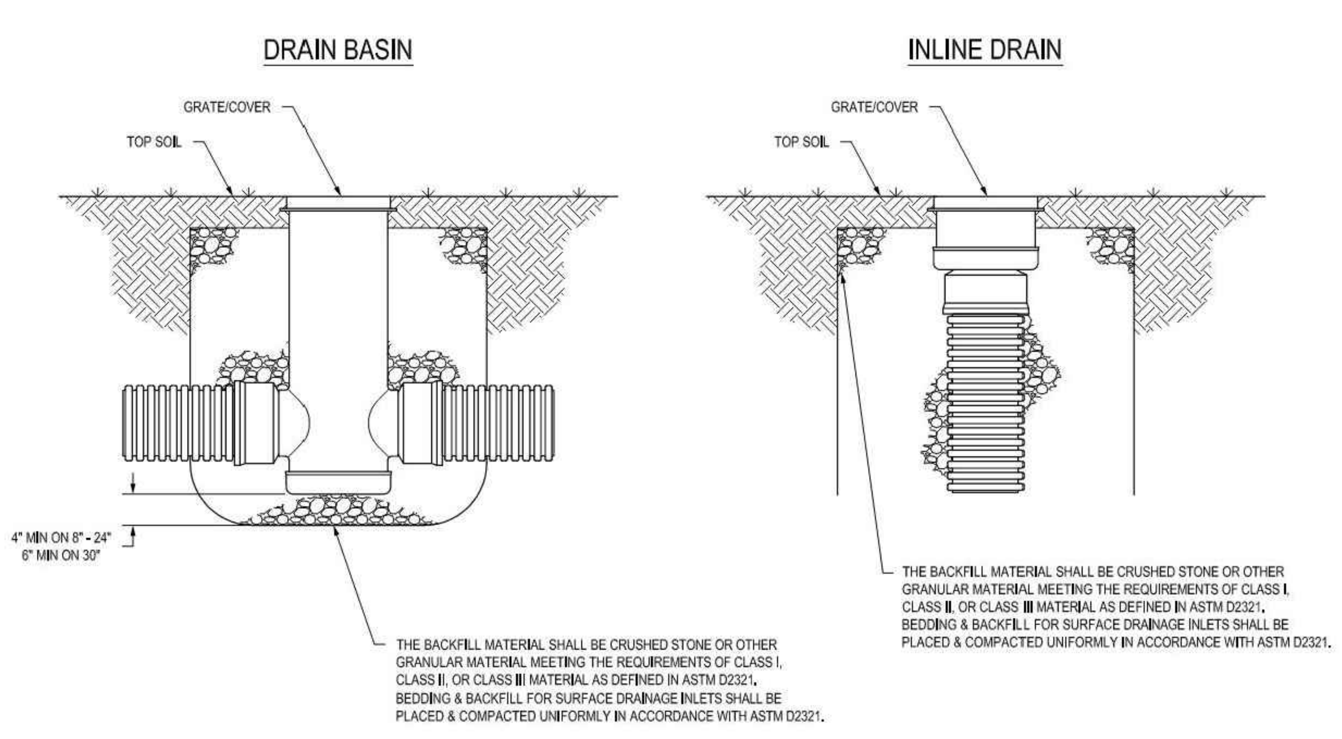
Nyloplast — 3130 VERONA AVE, BUFORD, GA 30518, PHN (770) 932-2443, FAX (770) 932-2490, www.nyloplast-us.com
TITLE: DRAIN BASIN CONSTRUCTION PROTECTION DETAIL — DWG NO. 7001-110-552 — REV A

NON TRAFFIC INSTALLATION



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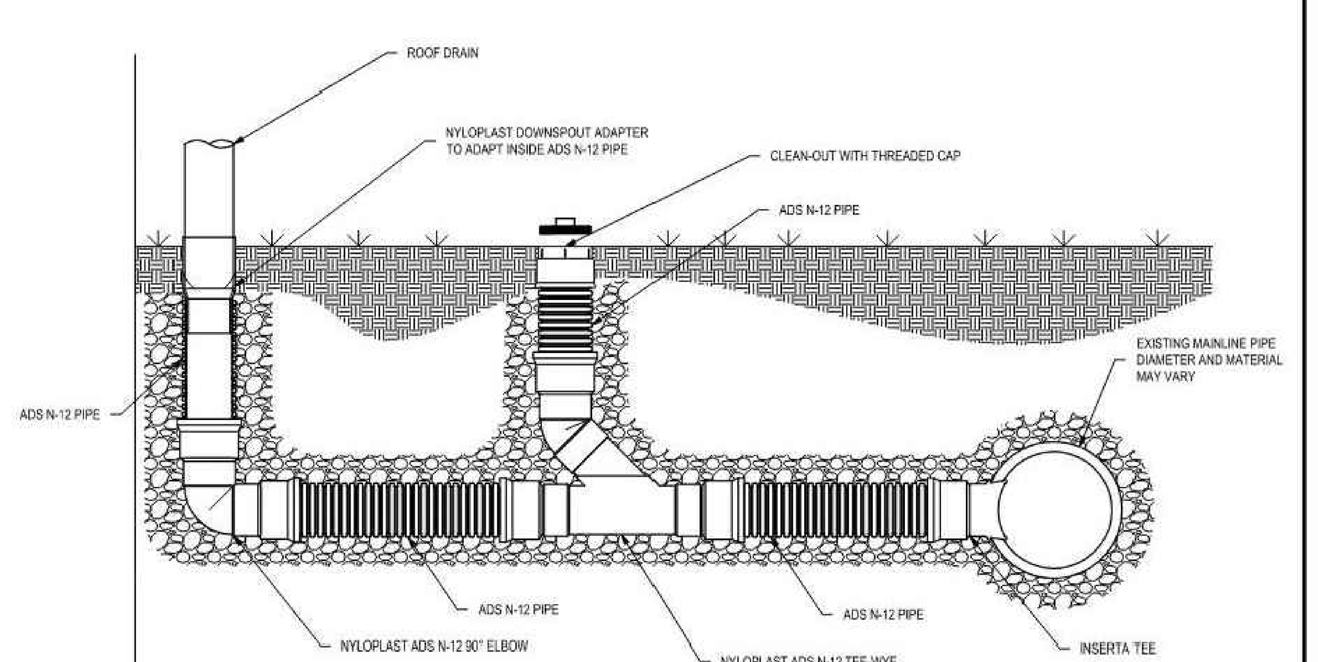
DRAWN BY CJA — DATE 9-30-09 — REVISED BY NMH — DATE 03-11-16 — MATERIAL — PROJECT NO./NAME — DWG SIZE A — SCALE 1:25 — SHEET 1 OF 1
Nyloplast — 3130 VERONA AVE, BUFORD, GA 30518, PHN (770) 932-2443, FAX (770) 932-2490, www.nyloplast-us.com
TITLE: DRAIN BASIN & INLINE DRAIN NON TRAFFIC INSTALLATION — DWG NO. 7001-110-111 — REV E

NYLOPLAST DOWNSPOUT ADAPTER WITH CLEANOUT AND INSERTA-TEE



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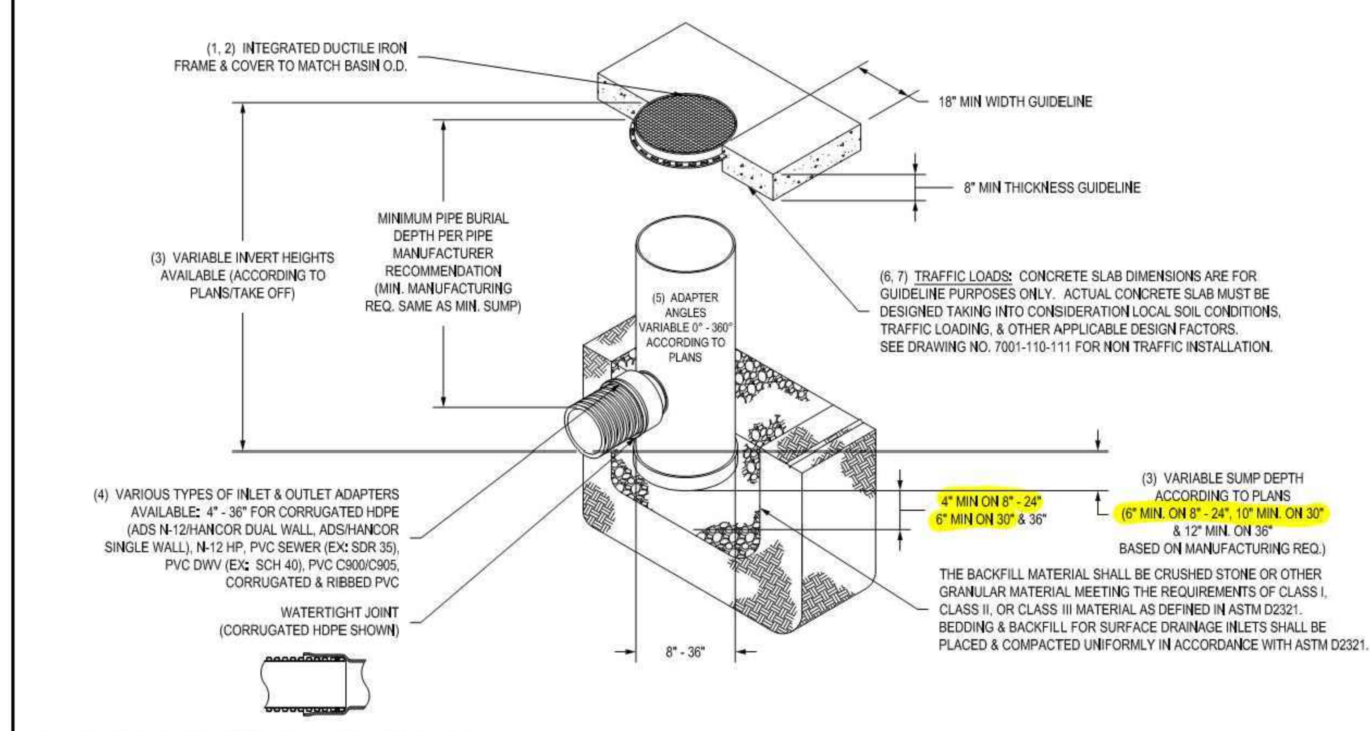
DRAWN BY NMH — DATE 8-25-15 — APPD BY NMH — DATE 8-25-15 — MATERIAL — PROJECT NO./NAME — DWG SIZE A — SCALE 1:16 — SHEET 1 OF 1
Nyloplast — 3130 VERONA AVE, BUFORD, GA 30518, PHN (770) 932-2443, FAX (770) 932-2490, www.nyloplast-us.com
TITLE: NYLOPLAST DOWNSPOUT ADAPTER WITH CLEANOUT AND INSERTA-TEE — DWG NO. 6000-110-074 — REV A

NYLOPLAST DRAIN BASIN WITH SOLID COVER



1 - 8" - 30" SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - 12" - 30" FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05. 8" & 10" SOLID COVERS FIT DIRECTLY ONTO DRAIN BASINS WITH THE USE OF A PVC BODY TOP. SEE DRAWING NO. 7001-110-045.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 36").
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
6 - 12" - 30" SOLID COVERS SHALL MEET H-20 LOAD RATING.
7 - 8" & 10" SOLID COVERS ARE RATED FOR LIGHT DUTY APPLICATIONS ONLY; NO CONCRETE COLLAR NEEDED FOR LIGHT DUTY RATING.

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DRAWN BY EBC — DATE 09-14-07 — REVISED BY NMH — DATE 06-12-18 — MATERIAL — PROJECT NO./NAME — DWG SIZE A — SCALE 1:40 — SHEET 1 OF 1
ADS Nyloplast — 3130 VERONA AVE, BUFORD, GA 30518, PHN (770) 932-2443, FAX (770) 932-2490, www.nyloplast-us.com
TITLE: DRAIN BASIN WITH SOLID COVER QUICK SPEC INSTALLATION DETAIL — DWG NO. 7001-110-298 — REV E

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
Know what's below. Call before you dig.
CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

COLORADO LICENSED PROFESSIONAL ENGINEER — MATTHEW CARL EGGEN — 50740 — 12/15/23

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141 9th Street ~ P.O. Box 774943, Steamboat Springs, CO 80477
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Reviewed for Code Compliance
04/01/2024

NO.	DATE:	BY:	DESCRIPTION:
1	02.08.2024	MCE	PERMIT COMMENT RESPONSE

PROJECT: 2571-001
DATE: 12/15/2023
CONTACT: Matthew Eggen
EMAIL: matte@landmark-co.com

The Amble - Construction Drawings

Nyloplast Details

SHEET
C.510

DRAWING FILENAME: P:\2571-001\DWGs\Production Drawings\DD 2.0\2571-001-C.501-DD 2.0-DETAILS.dwg LAYOUT NAME: C.510 DATE: Feb 09, 2024 - 11:09am CAD OPERATOR: matthew
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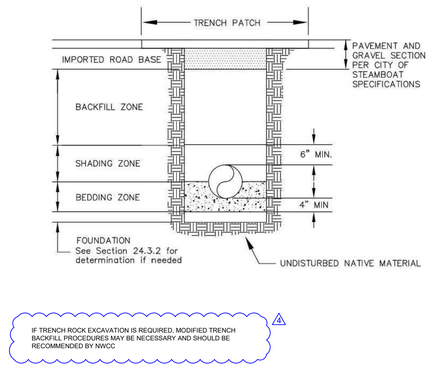


4 IF TRENCH ROCK EXCAVATION IS REQUIRED, MODIFIED TRENCH BACKFILL PROCEDURES MAY BE NECESSARY AND SHOULD BE RECOMMENDED BY NWCC

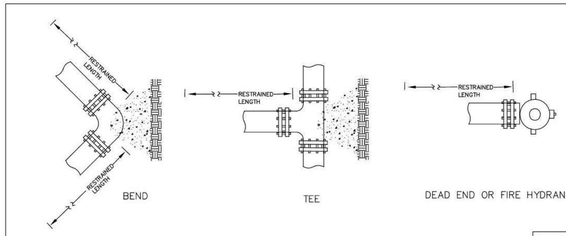
2. Added Pvmt. Sect. Note: 11/08
1. Changed Company Name 1/00

REVISION HISTORY:

Mount Werner Water
P.O. Box 880339
3310 Clear Water Trail
Steamboat Springs, CO 80488
(970) 879-2424 fax (970) 879-8169

TRENCH CROSS SECTION AND PIPE EMBEDMENT DETAIL

DRAWN BY: RBS	DATE:2/2003
SCALE: NONE	
SHEET: 1	



REQUIRED RESTRAINT LENGTH (FT)

FITTING TYPE	MAIN SIZE (INCHES) 4"	6"	8"	10"	12"
90° BEND, BRANCH OF TEE OR DEAD END	30'	45'	60'	73'	86'
45° BEND	18'	18'	18'	21'	25'
22 1/2° BEND	18'	18'	18'	18'	18'
11 1/4° BEND	18'	18'	18'	18'	18'

NOTE: THRUST BLOCKS ARE REQUIRED IN ADDITION TO JOINT RESTRAINT.

2. Changed Restraint Lengths: 11/08
1. Changed Company Name 1/00

REVISION HISTORY:

Mount Werner Water
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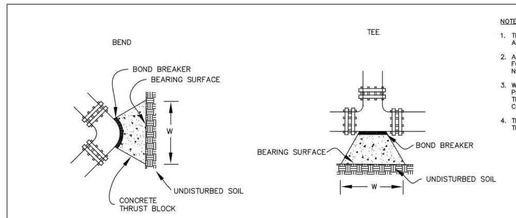
PIPE RESTRAINT DETAIL

DRAWN BY: RBS	DATE:2/2003
SCALE: NONE	
SHEET: 3	



NOTES:

1. THRUST BLOCKS ARE REQUIRED IN ADDITION TO JOINT RESTRAINTS.
2. ALL THRUST BLOCKS TO BE SUITABLY FORMED. EARTH EXCAVATED FORMS WILL NOT BE ACCEPTED.
3. WRAP FITTINGS WITH POLYETHYLENE PRIOR TO POURING THRUST BLOCKS SO THAT CONCRETE DOES NOT COME IN CONTACT WITH JOINT BOLTS.
4. THRUST BLOCKS SHALL BE INSTALLED SO THAT ALL JOINTS ARE ACCESSIBLE.

MINIMUM BEARING SURFACE AREA (IN SQUARE FEET) (AREA = W X D)

FITTING TYPE	MAIN SIZE (INCHES) <6"	8"	10"	12"
45° OR LESS BEND	3	3	3	5
90° BEND	3	4	6	9
TEE OR PLUG	3	3	4	6

NOTE: THRUST BLOCKS ARE REQUIRED IN ADDITION TO JOINT RESTRAINT.

2. Added Notes: 11/08
1. Changed Company Name 1/00

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(970) 879-2424 fax (970) 879-8169

THRUST BLOCK DETAIL

DRAWN BY: RBS	DATE:2/2003
SCALE: NONE	
SHEET: 4	

TYPE A RESTRAINT
11-1/4° & 22-1/2° VERTICAL OVER-BENDS

TYPE B RESTRAINT
45° VERTICAL OVER-BENDS

TABLE OF DIMENSIONS

PIPE SIZE NOMINAL DIAMETER - INCH	VERTICAL BEND DEGREES	NO. OF CU. FT. OF CONC. BLOCKING	DIAMETER OF REBAR, "d" INCH	DEPTH OF RODS IN CONCRETE, "L" FT.
4"	11-1/4°	5	5/8"	1.5
	22-1/2°	10	5/8"	2.0
6"	11-1/4°	11	5/8"	2.0
	22-1/2°	22	5/8"	2.0
8"	11-1/4°	20	5/8"	2.0
	22-1/2°	39	5/8"	2.0
12"	11-1/4°	45	3/4"	2.0
	22-1/2°	88	3/4"	3.0
16"	11-1/4°	79	3/4"	3.0
	22-1/2°	156	3/4"	4.0
20"	11-1/4°	123	3/4"	3.5
	22-1/2°	243	1"	4.0
24"	11-1/4°	177	3/4"	4.0
	22-1/2°	350	1"	4.0
30"	11-1/4°	277	1"	4.0
	22-1/2°	546	1-1/4"	4.0

TABLE OF DIMENSIONS

PIPE SIZE NOMINAL DIAMETER - INCH	VERTICAL BEND DEGREES	NO. OF CU. YD. OF CONC. BLOCKING	DIAMETER OF REBAR, "d" INCH	DEPTH OF RODS IN CONCRETE, "L" FT.
4"	45°	0.7	5/8"	2.0
6"	45°	1.5	5/8"	2.5
8"	45°	2.7	5/8"	3.0
12"	45°	6.1	3/4"	4.0
16"	45°	10.9	3/4"	4.0
20"	45°	17.1	1"	4.0
24"	45°	24.6	1"	4.0
30"	45°	38.4	1-1/4"	4.0

NOTES:

1. THRUST BLOCKS ARE REQUIRED IN ADDITION TO JOINT RESTRAINT.
2. SPECIAL REQUIREMENTS:
   a. THRUST BLOCKS FOR PIPE SIZES OR CONFIGURATIONS NOT SHOWN REQUIRE SPECIAL DESIGN.
   b. BEARING AREAS, VOLUMES, AND SPECIAL THRUST BLOCKING DETAILS SHOWN ON DRAWINGS TAKE PRECEDENCE OVER THIS TYPICAL DETAIL.
   c. REINFORCING STEEL BARS TO BE EPOXY COATED, AT LEAST 15 MILS THICK, MINIMUM YIELD STRENGTH OF 60,000 P.S.I.
   d. SYSTEM MUST BE TESTED UPON A MAXIMUM OPERATING PRESSURE OF 150 PSI, A TEST PRESSURE OF 200 PSI, AND A MINIMUM SOIL BEARING STRENGTH OF 2000 PSF. OPERATING PRESSURES IN EXCESS OF 150 PSI OR SOILS WITH LESS THAN 2000 PSF BEARING STRENGTH WILL REQUIRE SPECIAL DESIGN.
3. FOR VERTICAL UNDER-BEND FOLLOW HORIZONTAL THRUST BLOCK DETAIL

1. Initial Release 3/07

REVISION HISTORY:

Mount Werner Water
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3310 Clear Water Trail
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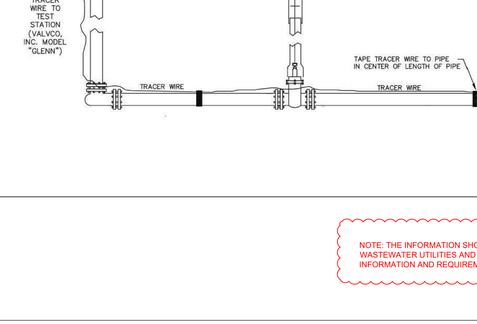
(970) 879-2424 fax (970) 879-8169

VERTICAL THRUST BLOCK DETAIL

DRAWN BY: CL, RM	DATE:2/2003
SCALE: NONE	
SHEET: 5	



2. Added Riser Length: 11/08
1. Changed Company Name 1/00

REVISION HISTORY:

Mount Werner Water
P.O. Box 880339
3310 Clear Water Trail
Steamboat Springs, CO 80488
(970) 879-2424 fax (970) 879-8169

FIRE HYDRANT DETAIL

DRAWN BY: RBS	DATE:2/2003
SCALE: NONE	
SHEET: 6	

NOTES:

NO OBSTRUCTIONS SUCH AS TREES, PEDESTALS, FENCES OR OTHER OBJECTS MAY BE PLACED WITHIN A 15-FOOT RADIUS OF A HYDRANT.

1. Changed Notes: 11/08

REVISION HISTORY:

Mount Werner Water
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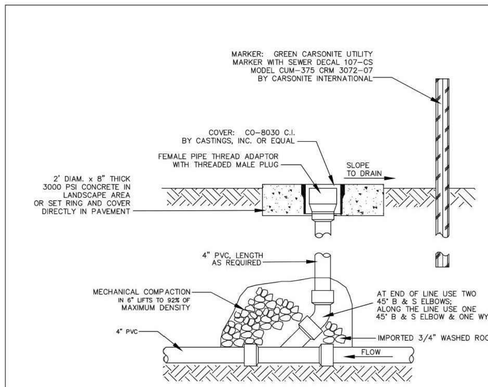
3310 Clear Water Trail
Steamboat Springs, CO 80488
(970) 879-2424 fax (970) 879-8169

FIRE HYDRANT BENCH DETAIL

DRAWN BY: RBS	DATE:2/2003
SCALE: NONE	
SHEET: 7	



1. Original Release 7/01

REVISION HISTORY:

Mount Werner Water
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3310 Clear Water Trail
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SEWER CLEANOUT DETAIL

DRAWN BY: RBS	DATE: 2/2003
SCALE: NONE	
SHEET: 12	

1. Initial release 2/04

REVISION HISTORY:

Mount Werner Water
P.O. Box 880339
3310 Clear Water Trail
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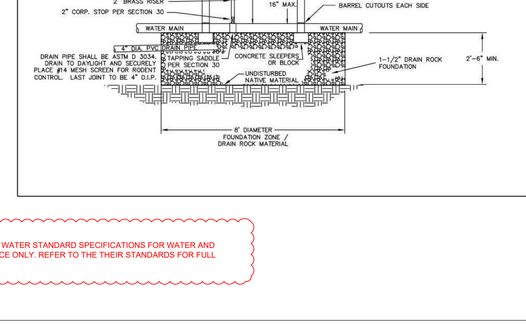
(970) 879-2424 fax (970) 879-8169

TRACER WIRE INSTALLATION DETAIL

DRAWN BY: RBS	DATE: 2/2004
SCALE: NONE	
SHEET: 17	



1. Initial Release 11/2008

REVISION HISTORY:

Mount Werner Water
P.O. Box 880339
3310 Clear Water Trail
Steamboat Springs, CO 80488
(970) 879-2424 fax (970) 879-8169

AIR RELEASE ASSEMBLY DETAIL

DRAWN BY: RF	DATE: 11/2008
SCALE: NONE	
SHEET: 19	

NOTE: THE INFORMATION SHOWN HEREON ARE FROM MOUNT WERNER WATER STANDARD SPECIFICATIONS FOR WATER AND WASTEWATER UTILITIES AND ARE INCLUDED HEREON FOR CONVENIENCE ONLY. REFER TO THE THEIR STANDARDS FOR FULL INFORMATION AND REQUIREMENTS.

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
Know what's below. Call before you dig.
CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

COLORADO LICENSED MATTHEW CARL FEGER 50740 PROFESSIONAL ENGINEER
12/15/23

NOT VALID WITHOUT ORIGINAL SIGNATURE AND DATE

LANDMARK CONSULTANTS, INC.
CIVIL ENGINEERS | SURVEYORS
141 9th Street - P.O. Box 774943, Steamboat Springs, CO 80477
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Reviewed for Code Compliance
04/01/2024

NO.	DATE:	BY:	DESCRIPTION:
1.	02.08.2024	MCE	PERMIT COMMENT RESPONSE

PROJECT: 257-001
DATE: 12/19/2023
CONTACT: Matthew Egger
EMAIL: matte@landmark-co.com

The Amble - Construction Drawings

MWW Details

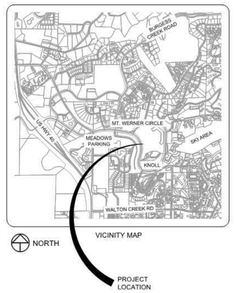
SHEET
C.515

DRAWING FILENAME: P:\257-001\DWG\Production Drawings\257-2-001-001-C515-DETAILS.dwg - LAYOUT NAME: C.515 - DATE: Feb 09, 2024 - 11:09am CAD OPERATOR: matthew
[SET OF XREFS] [BORDER-C4x] [DATE]

AMBLE SITE IMPROVEMENTS

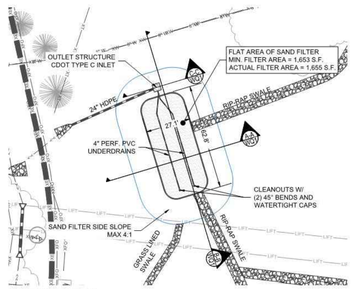
WQ-1 SAND FILTER OWNERSHIP AND MAINTENANCE PLAN

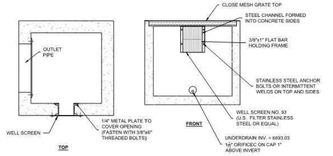
CONSTRUCTED IN [MONTH, YEAR]. MAINTENANCE TO BE PERFORMED BY AMBLE

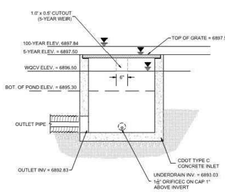


NOTES:

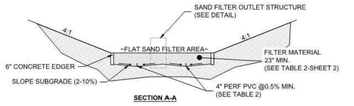
1. FOR ADDITIONAL DESIGN INFORMATION REFER TO THE CONSTRUCTION DRAWINGS FOR THIS PROJECT.
2. SEE DETAILED NOTES ON THE SECOND SHEET OF THIS PLAN FOR ALL MAINTENANCE REQUIREMENTS.



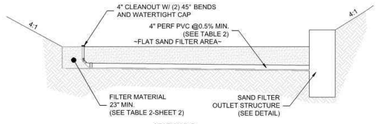




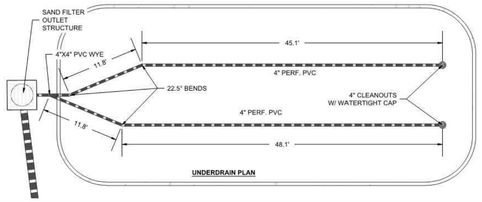
SECTION C-C



SECTION A-A



SECTION B-B



UNDERDRAIN PLAN

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Amble Site Improvements
WQ-1 Sand Filter and Detention Pond
OWNERSHIP AND MAINTENANCE PLAN

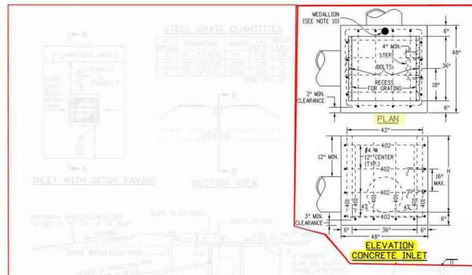
PROJECT: 257-001
DATE: 12/15/2023
DRAWN BY: MCE
CHECKED BY: CJG

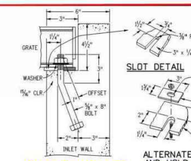
SHEET 1 Of 3 Sheets

AMBLE SITE IMPROVEMENTS

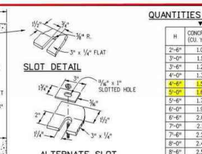
WQ-1 SAND FILTER OWNERSHIP AND MAINTENANCE PLAN

CONSTRUCTED IN [MONTH, YEAR]. MAINTENANCE TO BE PERFORMED BY AMBLE





GRATE INSTALLATION DETAIL



ALTERNATE SLOT AND HOLD DOWN PLATE DETAIL

QUANTITIES FOR ONE INLET

H	CONCRETE (CU. YDS.)	STEEL (LBS.)	NO. STEPS REQ'D.
2'-6"	1.0	76	0
3'-0"	1.1	81	0
3'-6"	1.2	97	0
4'-0"	1.3	102	1
4'-6"	1.5	117	1
5'-0"	1.6	123	1
5'-6"	1.7	138	2
6'-0"	1.9	143	3
6'-6"	2.0	159	3
7'-0"	2.1	164	3
7'-6"	2.2	180	4
8'-0"	2.4	185	4
8'-6"	2.5	200	4
9'-0"	2.6	206	5
9'-6"	2.8	221	5
10'-0"	2.9	236	6
11'-6"	3.3	252	6

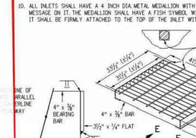
▼ PIPE INSIDE DIAMETER SHALL BE 30 IN OR LESS; CONCRETE AND STEEL QUANTITIES ARE FOR ONE ENTIRE INLET BEFORE DEDUCTION FOR VOLUME OCCUPIED BY PIPE. WEIGHT OF STEEL INCLUDES A RING FOR THE MAXIMUM PIPE DIAMETER.

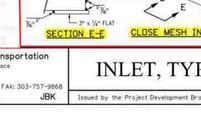
GENERAL NOTES

1. INLET TYPE C IS NOT HS-20 RATED AND SHALL NOT BE PLACED IN PAVED ROADWAYS. THIS INLET SHALL BE USED ONLY OUTSIDE PAVED ROADWAYS.
2. CONCRETE SHALL BE CLASS B. INLET MAY BE CAST-IN-PLACE OR PRECAST.
3. REINFORCING BARS SHALL BE GRADE 60, EPOXY COATED, AND DEFORMED #4, AND SHALL HAVE A MIN 2 INCH CLEARANCE CUT OR BEND AROUND PIPES AS REQUIRED.
4. CONCRETE SLOPE AND DITCH PAVING SHALL BE IN ACCORDANCE WITH SECTION 507. REINFORCEMENT FOR CONCRETE SLOPE PAVING SHALL BE 6 X 6 – W1.4 X W1.4 OR 6 X 6 – W2.1 X W2.1.
5. STRUCTURAL STEEL FOR GRATES AND GRATE INSTALLATION HARDWARE SHALL BE GALVANIZED, AND SHALL BE IN ACCORDANCE WITH SUBSECTION 712.06.
6. THE STANDARD INLET GRATES SHALL BE USED ON ALL TYPE C INLETS. UNLESS CLOSE MESH INLET GRATES ARE SPECIFIED ON THE PLANS.
7. CLOSE MESH GRATES ARE RECOMMENDED WHERE FOOT TRAFFIC OR BICYCLE ROUTES ARE IN CLOSE PROXIMITY TO GRATE. THIS GRATE IS NOT ADA COMPLIANT OR BICYCLE FRIENDLY AND SHALL NOT BE PLACED DIRECTLY IN SIDEWALKS, CROSSWALKS OR BIKE PATHS.
8. STEPS SHALL BE PROVIDED WHEN INLET DIMENSION "H" IS EQUAL TO OR GREATER THAN 3 FEET – 6 INCHES AND SHALL CONFORM TO AASHTO M 199.
9. SEE STANDARD PLAN M-604-01, FOR REINFORCEMENT AROUND THE PIPE OPENING.
10. ALL INLETS SHALL HAVE A 4 INCH DIA METAL MEDALLION WITH A "NO DUMPING DRAINS TO STREAM" MESSAGE ON IT. THE MEDALLION SHALL HAVE A FISH SYMBOL WITH A BLUE BACKGROUND. IT SHALL BE FIRMLY ATTACHED TO THE TOP OF THE INLET WITH A PERMANENT FASTENER.

BAR LIST FOR H = 2 FT.-6 IN. AND BENDING DIAGRAM

MARK	NO. REQ'D.	WEIGHT	LENGTH
401	2	2"-2½"	8'-0"
402	6	2'-7"	3'-8"
403	4	"H"	15'-4"





CLOSE MESH INLET GRATE

Computer File Information	Sheet Revisions		
Creation Date: 07/31/19		Date:	Comments
Designer Initials: JBK			
Last Modification Date: 07/31/19			
Detailer Initials: LTA			
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English			

Colorado Department of Transportation
2829 West Howard Place
CDOT HQ, 3rd Floor
Denver, CO 80204
Phone: 303-757-9021 FAX: 303-757-9868
Project Development Branch JBK

INLET, TYPE C

STANDARD PLAN NO. M-604-10
Standard Sheet No. 1 of 1
Project Sheet Number:

Issued by the Project Development Branch on July 31, 2019

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Amble Site Improvements
WQ-1 Sand Filter and Detention Pond
OWNERSHIP AND MAINTENANCE PLAN

PROJECT: 257-001
DATE: 12/15/2023
DRAWN BY: MCE
CHECKED BY: CJG

SHEET 2 Of 3 Sheets

AMBLE SITE IMPROVEMENTS

WQ-1 SAND FILTER OWNERSHIP AND MAINTENANCE PLAN

CONSTRUCTED IN [MONTH, YEAR]. MAINTENANCE TO BE PERFORMED BY AMBLE

1. GENERAL PROJECT INFORMATION

ADDRESS: ACCOUNT: R8164035
LEGAL DESCRIPTION: LOT 1 & TRAM LOT, THE KNOLL SUBDIVISION

A. RECEIVING WATER: YAMPA RIVER
PROPERTY OWNER: STEAMBOAT SKI & RESORT CORPORATION
CONTACT NAME: ---
ADDRESS: 2305 MT. WERNER CIR.
STEAMBOAT SPRINGS, CO 80487
PHONE NUMBER: ---.---.----
EMAIL: _____@____COM

D. AGENCY RESPONSIBLE
FOR MAINTENANCE: STEAMBOAT SKI & RESORT CORPORATION
CONTACT NAME: ---
ADDRESS: 2305 MT. WERNER CIR
STEAMBOAT SPRINGS, CO 80487
PHONE NUMBER: ---.---.----
EMAIL: _____@____COM

E. DESIGN ENGINEER: LANDMARK CONSULTANTS, INC.
CONTACT NAME: MATTHEW EGGEN, P.E.
ADDRESS: 141 9TH STREET, STEAMBOAT SPRINGS, CO
PHONE NUMBER: 970-871-9494
EMAIL: matte@landmark-co.com
PE LICENCE NUMBER: 50740

2. GENERAL FACILITY DESCRIPTION

THIS FACILITY IS A SAND FILTER DETENTION POND THAT WILL RELEASE THE WATER QUALITY CAPTURE VOLUME OVER 12-HOUR AND DETAIN RUNOFF SO THAT THE PEAK 5-YEAR AND 100-YEAR STORM EVENTS LEAVING THE WHOLE SITE ARE LESS THAN OR EQUAL TO PRE-DEVELOPMENT CONDITIONS. THE FACILITY HAS BEEN ADOPTED AND APPROVED BY STEAMBOAT RESORT DEVELOPMENT COMPANY AS PART OF THE AMBLE SITE IMPROVEMENTS PROJECT. IT WILL RECEIVE RUNOFF FROM 4.61 ACRES AND WILL OCCUPY A PARCEL OF 0.36 ACRES THAT WILL BE USED TO PROVIDE VOLUME BASED WATER QUALITY TREATMENT, MAINTENANCE, & ACCESS OPERATIONAL ACTIVITIES.

3. INSPECTION & MAINTENANCE FREQUENCY & PROCEDURE

A. THE FOLLOWING ITEMS SHOULD BE INSPECTED:

TABLE 1: MAINTENANCE ACTIVITY/FREQUENCY

ACTIVITY	REQUIRED FREQUENCY
INSPECTION TO CONFIRM INFILTRATION RATE AFTER RAINFALL; MAINTAIN AS NECESSARY. DEBRIS AND LITTER REMOVAL	TWICE ANNUALLY. ONE TIME TO OCCUR IN SPRING AFTER SNOWMELT FROM CONTRIBUTING BASIN IS COMPLETE.
MOWING, IRRIGATION	AS NEEDED TO MAINTAIN VEGETATIVE HEALTH
INSPECTION OF UNDERDRAIN VIA CLEAN-OUT; REMOVE SEDIMENT/DEBRIS IF PRESENT	WHEN PONDING LASTS LONGER THAN 24 HOURS
SCARIFY TOP 2" OF SAND WITH RAKE	WHEN PONDING LASTS LONGER THAN 24 HOURS AND UNDERDRAIN IS NOT CLOGGED
REPLENISH TOP 3" OF FILTER MEDIA WITH CLEAN COARSE SAND (AASHTO C-33 OR CDOT CLASS C FILTER MEDIA) TO THE ORIGINAL ELEVATION	AFTER SCARIFICATION 3 TIMES
SEDIMENT REMOVAL AND REPLACEMENT OF MEDIA. SEE TABLE 2 FOR MEDIA SPECIFICATIONS.	WHEN PONDING LASTS 24 HOURS, UNDERDRAIN IS NOT CLOGGED AND SCARIFICATION DOES NOT RESTORE INFILTRATION

REVISIONS TO MAINTENANCE FREQUENCY:

B. TRAFFIC CONTROL: NONE

C. THE FACILITY DOES NOT REQUIRE CONFINED SPACE ENTRY PROCEDURES

D. DEWATERING AND WATER CONTROL: NA

E. SEDIMENT, DEBRIS, & TRASH REMOVAL & DISPOSAL:
REMOVAL SHALL BE CONDUCTED IF THERE IS PRESENCE OF TRASH OR DEBRIS AT INSPECTION. SEDIMENT AND DEBRIS SHALL BE REMOVED MANUALLY USING A SHOVEL OR RAKE AND DISPOSED OF AT A LICENSED FACILITY. THE LONGEST DISTANCE BETWEEN THE EDGE OF AN ACCESS ROAD AND THE FAR CORNER OF A STRUCTURE REQUIRING SEDIMENT REMOVAL IS 25 FEET.

F. VEGETATION MANAGEMENT
SEE SECTION 4 OF THE NOTES ON THIS SHEET.

G. WETLAND AREAS ARE NOT ANTICIPATED.
SEE SECTION 8.0 OF THE NOTES ON THIS SHEET.

H. DESCRIBE ADDITIONAL REQUIRED MAINTENANCE PROCEDURES AND FREQUENCIES.-NA
SEE TABLE 1

I. MATERIALS TESTING OF SEDIMENT REMOVED FROM SITE IS NOT REQUIRED.

4. EQUIPMENT, STAFFING, AND VEGETATION MANAGEMENT

A. EQUIPMENT REQUIRED: MAY INCLUDE BUT IS NOT LIMITED TO MOWERS, PUMPS, HOSES, SHOVELS, BUCKETS, RAKES, EXCAVATORS, WEED KILLERS, GENERATORS, SPRAYERS, DATA LOG/INSPECTION REPORTS.

B. STAFFING: A MINIMUM OF 1 STAFF MEMBER IS REQUIRED TO MAINTAIN TREATMENT FACILITY.

C. SEED: SEED MIX SHALL BE PROVIDED AFTER CONSTRUCTION

D. MOWING: AS DESIRED

E. WEEDS & UNDESIRABLE VEGETATION: NOXIOUS WEEDS AND OTHER UNDESIRABLE VEGETATION SHALL BE REMOVED BY RAKING SAND FILTER.

5. SNOW AND ICE CONTROL

A. FACILITY IS NOT LOCATED WITHIN A SNOW STORAGE AREA AS DEFINED IN THE COMMUNITY DEVELOPMENT CODE.

6. RIGHT-OF-WAY, ADJACENT OWNERSHIP, & ACCESS

A. RIGHT-OF-WAY DESCRIPTION: MT. WERNER CIRCLE, 100-FT ROW

B. ADJACENT OWNERSHIP: ADJACENT PROPERTY TO THE SOUTH IS:
OWNER: WEST CONDO HOMEOWNERS ASSOC
2120 MT WERNER CIRCLE
STEAMBOAT SPRINGS, CO 80487

C. ACCESS INFORMATION AND DETAILS: THE FACILITY IS ACCESSED VIA MT WERNER CIRCLE. A WATER QUALITY EASEMENT HAS BEEN PROVIDED FOR ACCESS AND MAINTENANCE NEEDS.

D. MAINTENANCE OPERATIONS WILL NOT IMPACT OR OBSTRUCT RIGHT-OF-WAY AND A RIGHT-OF-WAY PERMIT IS NOT REQUIRED.

7. HYDRAULIC DESIGN

A. FLOW RATES (CFS):

	INFLOW	OUTFLOW
BASE FLOW:	0	0
WQ EVENT:	NA	NA
5-YEAR:	4.55 CFS	1.57 CFS
100-YEAR:	16.37 CFS	10.32 CFS

B. VOLUMES, DEPTHS, & WSELS:

ITEM	VOLUME	WSEL	DEPTH	INVERT	AREA
SANDFILTER/	6,624 CF		3.8'	6892.83	1,574 SF
DETENTION POND					
WQCV	2,448 CF	6896.50	1.2'		
5-YEAR	1,835 CF	6897.30	2.2'		
100-YEAR	4,176 CF	6758.00	2.54'		

C. WQCV DRAIN TIME = 12 HOURS

8. SENSITIVE AREAS, WETLANDS, & PERMITS

THE SITE HAS NO KNOWN WETLANDS OR WORK WITHIN THE WATERS OF THE UNITED STATES ASSOCIATED WITH THE PROJECT..

9. MISCELLANEOUS INFORMATION

A. PROJECT SURVEY:
EXISTING CONDITIONS AND TOPOGRAPHIC INFORMATION PER CITY GIS DATA AND SUPPLEMENTED WITH LANDMARK CONSULTANTS, INC. ARCHIVED SURVEY FIELD DATA .
PROJECT BENCHMARK: **3" BRASS CAP 2' BELOW GRADE**
NORTHING: 1412537.95
EASTING: 2636559.73
NAVD88 EL: 6935.31

COORDINATE SYSTEM: THE COORDINATE SYSTEM IS COLORADO COORDINATE SYSTEM, NORTH ZONE, NAD83 (2011), NAVD88, COMBINE SCALE FACTOR: (N)1415866.11(E)2636677.13, 1.000368966.

TABLE 2: POND MATERIALS

			MASS PERCENT PASSING SQUARE MESH SIEVE	
		SIEVE SIZE	CLASS B	CLASS C
FILTER MATERIAL	CDOT FILTER MATERIAL (CLASS B OR C)	37.7mm (1.5")	100	
		19.0 mm (0.75")		100
		4.75 mm (No. 4)	20-60	60-100
		1.18 µm (No. 16)	10-30	
		300 µm (No. 50)	0-10	10-30
		150 µm (No. 100)		0-10
		75 µm (No. 200)	0-3	0-3
UNDERDRAIN PIPE	PIPE Ø AND TYPE	MAX. SLOT WIDTH (in.)	MIN. OPEN AREA (PER ft.)	
	4" SLOTTED PVC	0.032	1.90 in^2	

CIVIL ENGINEERS | SURVEYORS

LANDMARK CONSULTANTS, INC.

141 9th Street – P.O. Box 774943, Steamboat Springs, Colorado 80477 (970) 871-9494 www.LANDMARK-CO.com

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Amble Site Improvements
WQ-1 Sand Filter and Detention Pond
OWNERSHIP AND MAINTENANCE PLAN

PROJECT: 257-001
DATE: 12/15/2023
DRAWN BY: MCE
CHECKED BY: CJG

SHEET 3 Of 3 Sheets

Reviewed for Code Compliance
04/01/2024

NO.	DATE:	BY:	DESCRIPTION:
1	02.08.2024	MCE	PERMIT COMMENT RESPONSE

PROJECT: 257-001
DATE: 12/15/2023
CONTACT: Matthew Eggen
EMAIL: matte@landmark-co.com

The Amble - Construction Drawings

O & M Plan And Details

SHEET C.520

CALL UTILITY NOTIFICATION CENTER OF COLORADO
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COLORADO LICENSED MATTHEW CARL EGGEN 50740 PROFESSIONAL ENGINEER
12/15/23
NOT VALID WITHOUT ORIGINAL SIGNATURE AND DATE

DRAWING FILENAME: P:\257-001\DWG\Production Drawings\SD\2-SHEETS-001-CSD-SD2-2-SHEETS-A.dwg LAYOUT NAME: C-SD1 DATE: Feb 09, 2024 - 11:08am CAD OPERATOR: matthew
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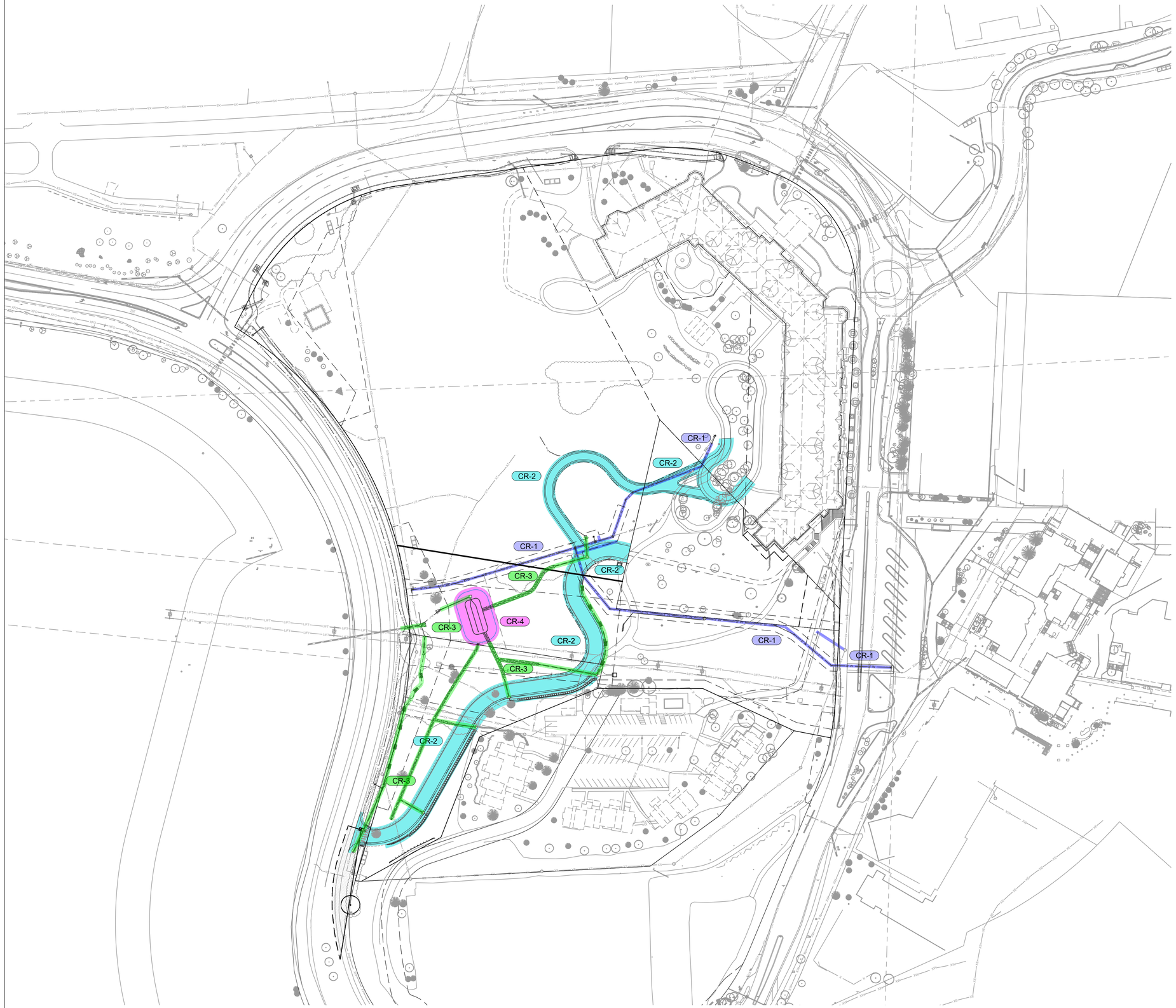

NORTH

80 0 80 160 240 Feet

(IN FEET)
1 inch = 80 ft.

LEGEND:

- FENCE
- PROPOSED MAJOR CONTOUR (6805)
- EXISTING MAJOR CONTOUR (6805)
- SIGN
- PROPOSED SANITARY SEWER W/ MH (SS)
- EXISTING SANITARY SEWER W/ MH (XS)
- PROPOSED WATER (W)
- PROPOSED GV, FH & CS
- EXISTING WATER (XW)
- GAS (XG)
- GAS METER AND MANHOLE/VAULT (GM)
- CABLE (XTV)
- CABLE PEDESTAL (TV)
- FIBER OPTIC (XFO)
- TELEPHONE (XT)
- TELEPHONE PEDESTAL AND MANHOLE/VAULT (T)
- ELECTRIC (XE)
- ELECTRIC PED, JUNCTION BOX AND METER (EJ, EM)
- LIGHT POLE AND LIGHT POLE W/ MAST
- CULVERT/STORM SEWER W/ FES
- INLET AND STORM MANHOLE (ST)
- CONIFEROUS AND DECIDUOUS TREE
- ASPHALT
- CONCRETE
- GRAVEL

NOTES:

1. PER THE CITY OF STEAMBOAT SPRINGS RESOLUTION NO. 2023-37, THE FOLLOWING ITEMS ARE CONSIDERED CRITICAL IMPROVEMENTS AND MUST BE CONSTRUCTED AND APPROVED OR PROVIDE COLLATERAL VIA IMPROVEMENTS AGREEMENT PRIOR TO APPROVAL OF A FINAL PLAT:
   - (CR-1) WATER AND SEWER INFRASTRUCTURE;
   - (CR-2) ACCESS DRIVE;
   - (CR-3) DRAINAGE IMPROVEMENTS; AND,
   - (CR-4) PERMANENT STORMWATER QUALITY TREATMENT FACILITIES.
2. INFORMATION SHOWN HEREON ARE INTENDED TO BE FOR REFERENCE PURPOSES ONLY.

CR-1
CR-2
CR-3
CR-4

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NO.	DATE:	BY:	DESCRIPTION:
1	02.09.2024	MCE	PERMIT COMMENT RESPONSE

PROJECT: 2571-001
DATE: 12/15/2023
CONTACT: Matthew Egan
EMAIL: matt@landmark-co.com

The Amble - Construction Drawings

Overall Critical Improvements Exhibit

SHEET
C.700

DRAWING FILENAME: P:\2571-001\Work\Production Drawings\SDP 2.2\2571-001-C-700.00 2.2-Overall Critical Improvements Exhibit.dwg LAYOUT NAME: C.700 DATE: Feb 09, 2024 - 11:15am CAD OPERATOR: matthew
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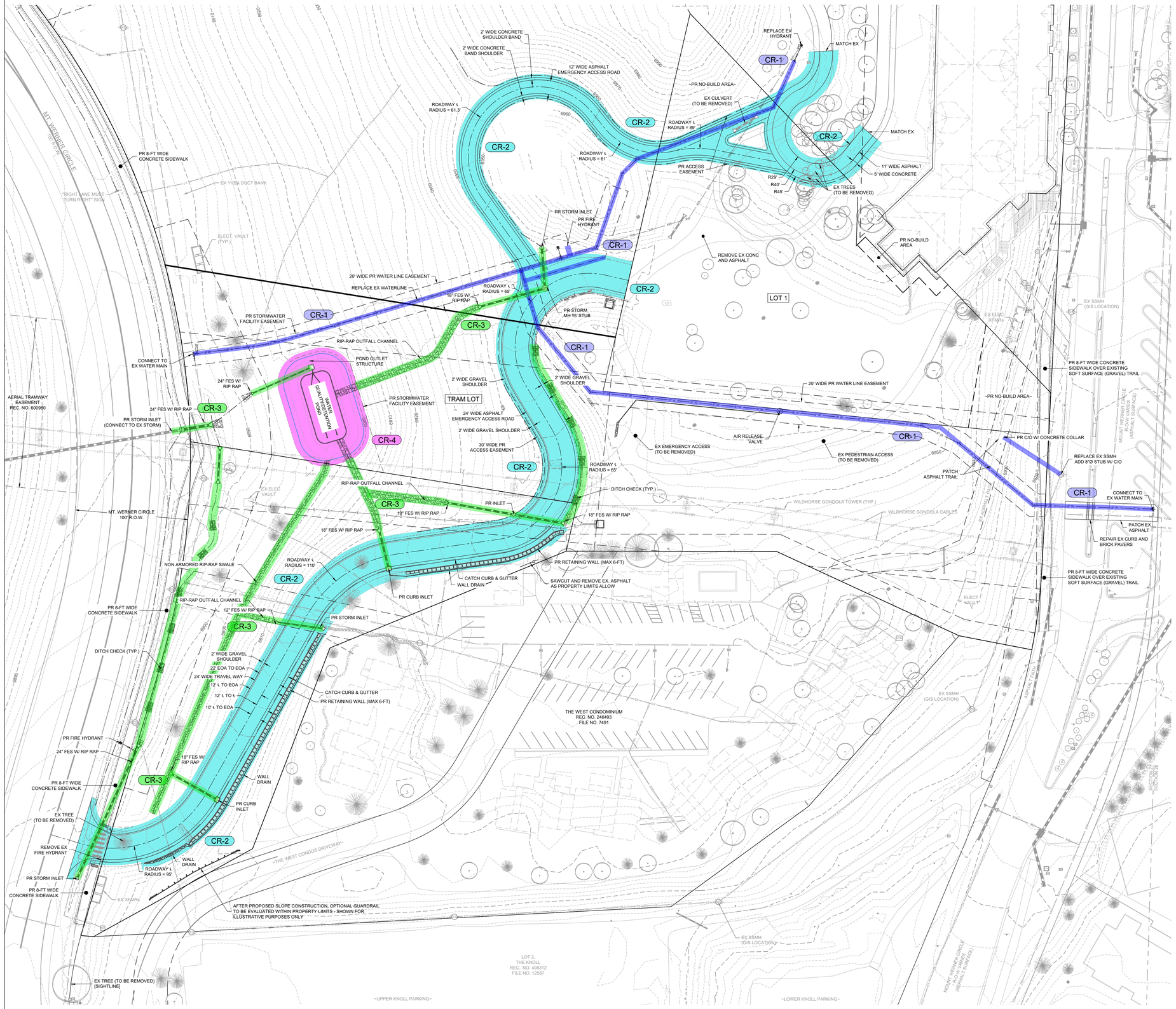

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CR-2
CR-3
CR-4

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COLORADO LICENSED MATTHEW CARL EGGEN 50740 PROFESSIONAL ENGINEER 2/15/24
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PROJECT:	2571-001
DATE:	12/15/2023
CONTACT:	Matthew Eggen
EMAIL:	matte@landmark-co.com

The Amble - Construction Drawings

Detailed Critical Improvements Exhibit

SHEET
C.710

DRAWING FILENAME: P:\2571-001\SW\Production Drawings\PDS 2.0\2571-001-C 710-DCI 2.0-Detailed Critical Improvements Exhibit.dwg LAYOUT NAME: C 710 DATE: Feb 09, 2024 - 11:16am OSD OPERATOR: matthew
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