# MERIDIAN STORAGE

FALCON RANCHETTES FILING NO. 1A, NORTH HALF OF THE SOUTHEAST QUARTER OF SECTION 1 TOWNSHIP 13 SOUTH, RANGE 65 WEST OF THE 6TH P.M., COUNTY OF EL PASO STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE

**CONSTRUCTION DRAWINGS** 

all project documents

REVISED ALL PROJECT **DOCUMENTS TO CORRECT** FILING NUMBER

SHEET NUMBER

CITY & UTILITY CONTACTS PROJECT CONTACTS WATER PROPERTY OWNER WOODMEN HILLS METRO DISTRICT MIKE D TEXER 11750 OWL PLACE 8046 EASTONVILLE ROAD PEYTON, CO 80831 FALCON, CO 80831 TELE: (719) 641-9261 TELE: (719) 495-2500 CONTACT: MIKE D TEXER CONTACT: CODY RITTER EMAIL: MIKE.TEXER@GMAIL.COM EMAIL: CODY@WHMD.ORG **APPLICANT** WASTEWATER GALLOWAY & CO., INC. 1155 KELLY JOHNSON BLVD., SUITE 305 WOODMEN HILLS METRO DISTRICT 8046 EASTONVILLE ROAD COLORADO SPRINGS, CO 80920 FALCON, CO 80831 TELE: (719) 900-7220 TELE: (719) 495-2500 CONTACT: CALEB JOHNSON CONTACT: CODY RITTER EMAIL: CALEBJOHNSON@GALLOWAYUS.COM EMAIL: CODY@WHMD.ORG GALLOWAY & CO., INC. MOUNTAIN VIEW ELECTRIC ASSOCIATION 1155 KELLY JOHNSON BLVD., SUITE 305 11140 E. WOODMEN RD. COLORADO SPRINGS, CO 80920 FALCON, CO 80831 TELE: (719) 900-7220 TELE: (800) 388-9881 CONTACT: BRADY SHYROCK, P.E. CONTACT: GINA PERRY EMAIL: BRADYSHYROCK@GALLOWAYUS.COM EMAIL: GINA.P@MVEA.COOP NATURAL GAS LANDSCAPE ARCHITECT GALLOWAY & CO., INC. COLORADO SPRINGS UTILITIES 1155 KELLY JOHNSON BLVD., SUITE 305 7710 DURANT DRIVE, P.O. BOX 1103, MAIL CODE 2150 COLORADO SPRINGS, CO 80920 COLORADO SPRINGS, CO 80947-2150 TELE: (719) 900-7220 CONTACT: JON ROMERO. PLA CONTACT: AARON CASSIO EMAIL: JONROMERO@GALLOWAYUS.COM EMAIL: ACASSIO@CSU.ORG

FALCON FIRE PROTECTION DISTRICT

EMAIL: THARWIG@FALCONFIREPD.ORG

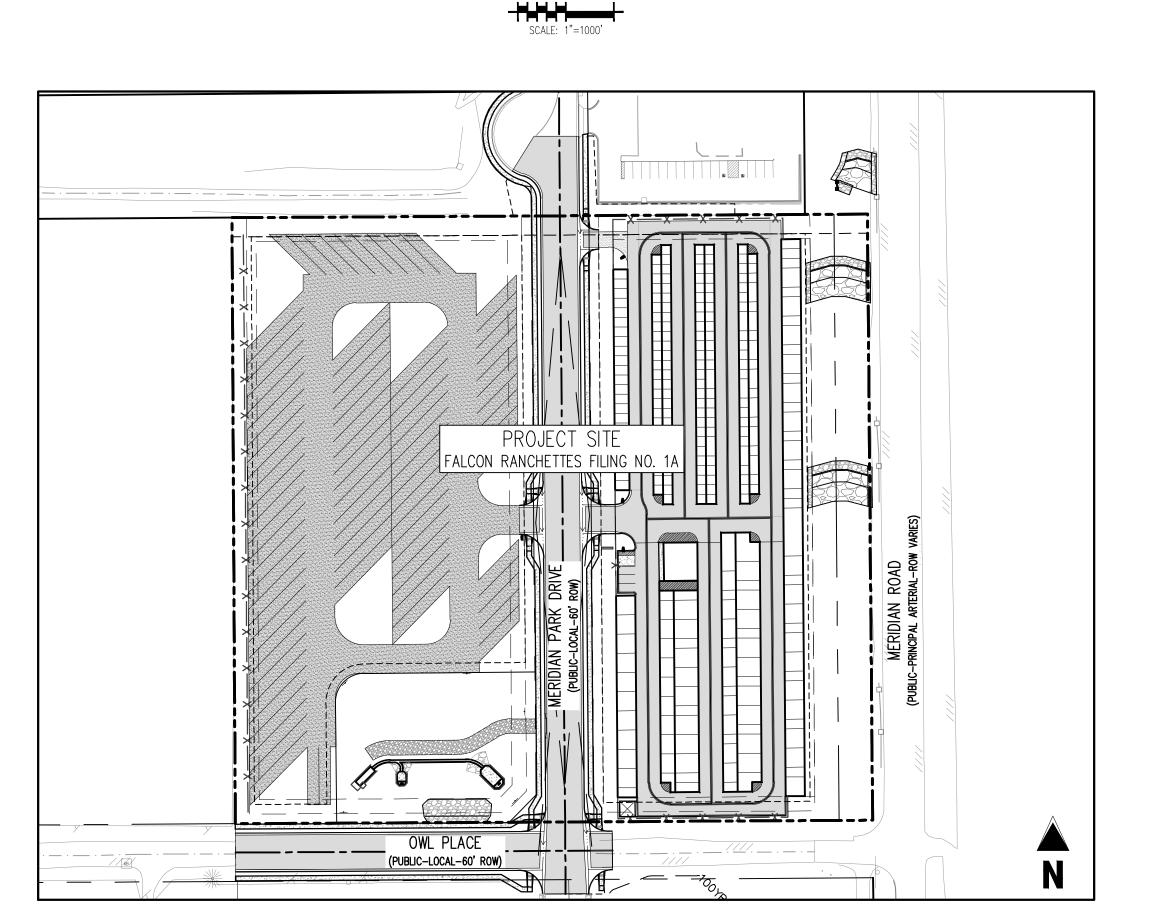
7030 OLD MERIDIAN RD.,

TELE: (719) 495-4050

CONTACT: TRENT HARWIG

FALCON, CO 80831





LOTS 1 & 2, FALCON RANCHETTES, ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK V-2, PAGE 15, OF THE RECORDS OF EL PASO COUNTY, COLORADO.

BENCHMARK

STAMPED "PLS 24964" NAVD88 ELEVATION = 6947.67

ALL BEARINGS ARE GRID BEARINGS OF THE COLORADO STATE PLANE COORDINATE SYSTEM. CENTRAL ZONE, NORTH AMERICAN DATUM 1983. BEARINGS ARE BASED ON THE SOUTH LINE OF LOTS 2, 3, & 4 OF FALCON RANCHETTES, AND IS CONSIDERED TO BEAR S89'40'45"W. DEFINED BY FOUND MONUMENTS AS FOLLOWS: A NO. 4 REBAR WITH A 1-1/4" YELLOW PLASTIC CAP STAMPED "LS 2372", BEING THE SOUTHEAST CORNER OF LOT 2; AND A NO. 4 REBAR WITH A

NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR

CERTIFICATES OR INFORMATION AS REQUIRED FOR ACCEPTANCE OF WORK FROM CITY. UTILIT DISTRICTS OR ANY OTHER GOVERNING AGENCY.

2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POTHOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO

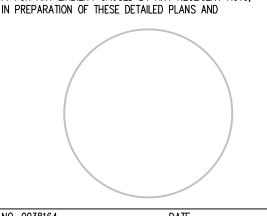
# EL PASO COUNTY

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND OR ACCURACY OF THIS DOCUMENT. FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

OWNER'S STATEMENT

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH ALL OF THE REQUIREMENTS

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE



10/20/2023

LIST OF ABBREVIATIONS

 $\Delta$  – DEFLECTION ANGLE

GALLOWAY & CO., INC.

TELE: (719) 900-7220

CONTACT: BILL BROOKS

1155 KELLY JOHNSON BLVD., SUITE 305

EMAIL: BILLBROOKS@GALLOWAYUS.COM

COLORADO SPRINGS, CO 80920

CB - CHORD BEARING C — CHORD LENGTH N - NORTH/NORTHING

W - WEST EAST/EASTING DET — DETAIL

EX — EXISTING PC - POINT OF CURVATURE/PORTLAND CEMENT WWF — WELDED WIRE FABRIC

OC - ON CENTER FDC - FIRE DEPARTMENT CONNECTION CT - COURT

DR - DRIVE REC - RECEPTION NUMBER ø, DIA – DIAMETER PT - POINT OF TANGENCY

MIN — MINIMUM HDPE - HIGH DENSITY POLYETHYLENE

CO.1 NOTES EXISTING CONDITIONS & DEMO PLAN C1.1 C2.1 SITE PLAN HORIZONTAL CONTROL PLAN C2.2 SITE DETAILS C2.3 C2.4 SITE DETAILS MERIDIAN PARK DRIVE C3.1 OWL PLACE C3.2 C3.3 INTERSECTION DETAILS C3.4 INTERSECTION DETAILS C3.5 INTERSECTION DETAILS STORM DRAIN PLAN C4.1 C4.2 STORM DRAIN PLAN C4.3 STORM DRAIN PLAN C5.1 STORM DRAIN DETAILS C5.2 STORM DRAIN DETAILS C5.3 STORM DRAIN DETAILS STORM DRAIN DETAILS C5.4 STORM DRAIN DETAILS C5.5

CHANNEL PLAN & PROFILE

DROP STRUCTURE 2 & 3 DETAILS

DROP STRUCTURE 1 DETAILS

CHANNEL SECTIONS

SHEET LIST TABLE

SHEET DESCRIPTION

C0.0

C6.1

SHEET TITLE

COVER SHEET

LEGAL DESCRIPTION

A PARCEL OF LAND IN THE SOUTHEAST QUARTER OF SECTION 1, TOWNSHIP 13 SOUTH, RANGE 65 WEST, OF THE SIXTH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

RESPONSE

Colorado Springs, CO 80920

GallowayUS.com

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CONTAINING 9.604 ACRES, MORE OR LESS.

THE SOUTHWEST CORNER OF LOT 1 WODDMEN HILLS FILING NO. 4, MONUMENTED BY A NO. 4 REBAR WITH A YELLOW PLASTIC CAP

BASIS OF BEARING

1-1/4" YELLOW PLASTIC CAP STAMPED "LS 2372", BEING THE SOUTHWEST CORNER OF LOT 4.

NOTE: CONTRACTOR MUST COORDINATE WORK WITH UTILITY COMPANY AND CITY PRIOR TO BEGINNING WORK AND IS RESPONSIBLE FOR ALL MATERIALS, LABOR, REPAIRS, ETC. TO COMPLETE WORK AND RESTORE AREA TO SAME STATE PRIOR TO STARTING WORK.

CONTRACTOR RESPONSIBLE FOR AS-BUILT DRAWINGS, TESTS, REPORTS AND/OR ANY OTHER

SURVEYOR TO OBTAIN AUTOCAD FILE FROM ENGINEER AND VERIFY ALL HORIZONTAL CONTROL DIMENSIONING PRIOR TO CONSTRUCTION STAKING. SURVEYOR MUST VERIFY ALL BENCHMARK, BASIS OF BEARING AND DATUM INFORMATION TO ENSURE IMPROVEMENTS WILL BE AT THE SAME HORIZONTAL AND VERTICAL LOCATIONS SHOWN ON THE DESIGN CONSTRUCTION DRAWINGS. PRIOR TO CONSTRUCTION STAKING ANY DISCREPANCY MUST BE REPORTED TO OWNER AND ENGINEER PRIOR TO CONTINUATION OF ANY FURTHER STAKING OR CONSTRUCTION

# CAUTION - NOTICE TO CONTRACTOR

1. ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIESTO THE Know what's below. ENGINEER PRIOR TO CONSTRUCTION.

 $\mathbb{C}$ a $\mathbb{H}$  before you dig.

THE ENGINEER PRIOR TO CONSTRUCTION.

IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTORS DISCRETION.

JOSHUA PALMER, P.E. COUNTY ENGINEER / ECM ADMINISTRATOR

SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

MIKE D. TEXER

# ENGINEER'S STATEMENT

CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND



BRADY A. SHYROCK, COLORADO P.E. NO. 0038164

**COVER SHEET** 

# Date Issue / Description

VR239 & SDP2336

# GENERAL CONSTRUCTION NOTES

BY THE CONTRACTOR.

- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES ALONG THE ROUTE OF THE WORK. THE OMISSION FROM OR THE INCLUSION OF UTILITY LOCATIONS ON THE PLANS IS NOT TO BE CONSIDERED AS THE NONEXISTENCE OF OR A DEFINITE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- AS THE NONEXISTENCE OF OR A DEFINITE LOCATION OF EXISTING UNDERGROUND UTILITIES.

  2. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES FROM DAMAGE DUE TO THIS OPERATION. ANY DAMAGE TO THE UTILITIES WILL BE REPLACED AT THE CONTRACTORS EXPENSE AND ANY SERVICE DISRUPTION WILL BE SETTLED
- 3. ADDITIONAL EROSION CONTROL STRUCTURES MAY BE REQUIRED AT THE TIME OF
- 4. ALL BACKFILL, SUB-BASE AND / OR BASE COURSE (CLASS 6) MATERIAL SHALL BE COMPACTED TO THE SOILS ENGINEERS RECOMMENDATIONS, AND APPROVED BY EL PASO COUNTY DEVELOPMENT SERVICES ENGINEERING DIVISION.
- 5. ALL STATIONING IS CENTERLINE UNLESS OTHERWISE INDICATED. ALL ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE INDICATED.
- 6. ALL DISTURBED PAVEMENT EDGES SHALL BE CUT TO NEAT LINES. REPAIR SHALL CONFORM TO THE EPC ECM APPENDIX K 1.2C.
- 7. ALL INTERSECTION ACCESSES TO BE CONSTRUCTED WITH A 25 FOOT SIGHT VISIBILITY TRIANGLES AND THERE SHALL BE NO OBSTRUCTIONS GREATER THAN 18" IN THIS AREA.
- 8. ALL CULVERT AND STORM PIPES SHALL BE SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE (HDPE), OR REINFORCED CONCRETE PIPE (RCP), ALL CULVERTS SHALL BE PLACED COMPLETE WITH FLARED END SECTIONS. ADEQUACY OF MATERIAL THICKNESS FOR ANY CSP INSTALLED SHALL BE VERIFIED BY OWNERS GEOTECHNICAL ENGINEER TO SUPPORT MINIMUM 50 YEAR DESIGN LIFE. CULVERTS MUST CONFORM TO EPC ECM SECTION 3.32 CULVERTS.
- 9. ASPHALT THICKNESS AND BASE COURSE THICKNESS (COMPACTED FOR ROADS SHALL BE PER DESIGN REPORT BY OWNERS GEOTECHNICAL ENGINEER. OWNERS GEOTECHNICAL ENGINEER TO BE ON SITE AT TIME OF ROAD CONSTRUCTION TO EVALUATE SOIL CONDITIONS AND DETERMINE IF ADDITIONAL MEASURES ARE NECESSARY TO ASSURE STABILITY OF THE NEW ROADS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY DEVELOPMENT SERVICES ENGINEERING DIVISION PRIOR TO CONSTRUCTION.
- 10. TYPE M RIP-RAP WITH 4" OF TYPE II GRANULAR BEDDING AND MIRAFI 180N OR EQUAL MAY BE SUBSTITUTED WHERE TYPE L RIP-RAP WITH MIRAFI FW 700 OR EQUAL IS SPECIFIED.
- 11. ALL MATERIALS AND INSTALLATION PROCEDURES SHALL BE IN COMPLIANCE WITH ANY AND ALL APPLICABLE EL PASO COUNTY STANDARDS AND WITH WOODMAN HILLS METRO DISTRICT CONSULTING ENGINEER APPROVAL.
- 12. ALL POTABLE WATER MAINS SHALL BE AWWA C900-SDR18 PVC WITH PUSH-ON SINGLE GASKET TYPE JOINTS AND SHALL MEET THE REQUIREMENTS OF ANSI / NSF 61.
- 13. ALL WATER MAIN FITTINGS SHALL BE MADE FROM GRAY-IRON OR DUCTILE IRON AND FURNISHED WITH MECHANICAL JOINT ENDS. ALL FITTINGS SHALL HAVE A PRESSURE RATING OF 250 PSI AND SHALL MEET THE REQUIREMENTS OF ANSI / NSF 61.
- 14. ALL WATER LINE BENDS, TEES, BLOW-OFFS AND PLUGS AT DEAD-END MAINS SHALL BE PROTECTED FROM THRUST BY USING CONCRETE THRUST BLOCKS AND / OR RODDING AND RESTRAINED PIPE PER THE PAINT BRUSH HILLS METRO DISTRICT CONSULTING ENGINEER
- 15. MAXIMUM DEFLECTION OF 8" OR 12" PVC WATER MAIN JOINTS IS 4 DEGREES.

  CORRESPONDING MINIMUM CURVE RADIUS IS 286'. ADDITIONAL 11.25° OR 22.5° BENDS MAY BE REQUIRED FOR PROPER ALIGNMENT.
- 16. CONTRACTOR IS RESPONSIBLE FOR PROVIDING DETAILED AS-BUILTS OF ALL WATER MAIN, STORM SEWER AND SANITARY. SEWER MAIN INSTALLATIONS, INCLUDING ACCURATE DISTANCES OF MAIN LINES, VALVES, FITTINGS, MANHOLES AND LOCATIONS OF WATER AND SEWER
- 17. SANITARY SEWER PIPE AND FITTINGS: PVC 4" 8" ASTM D3034, TYPE PSM, SDR 35: PUSH-ON JOINTS AND MOLDED RUBBER GASKETS MAXIMUM HORIZONTAL DEFLECTIONS, AFTER INSTALLATION AND BACK FILLING SHALL NOT EXCEED 3% OF THE PIPE DIAMETER. (MINIMUM CURVE RADIUS IS 100' FOR 8" PVC SANITARY SEWER MAIN)

# STANDARD NOTES FOR EPC CONSTRUCTION PLAN

- 1. ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).
- 3. CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING:
- A. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
  B. CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1
- C. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
- D. CDOT M & S STANDARDS
- 4. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER—THE—FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- 5. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- 6. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (PCD) INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
- 7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS—ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST
- 8. CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.
- 9. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.
- 10. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
- 11. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
- INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN SIGHT TRIANGLES.

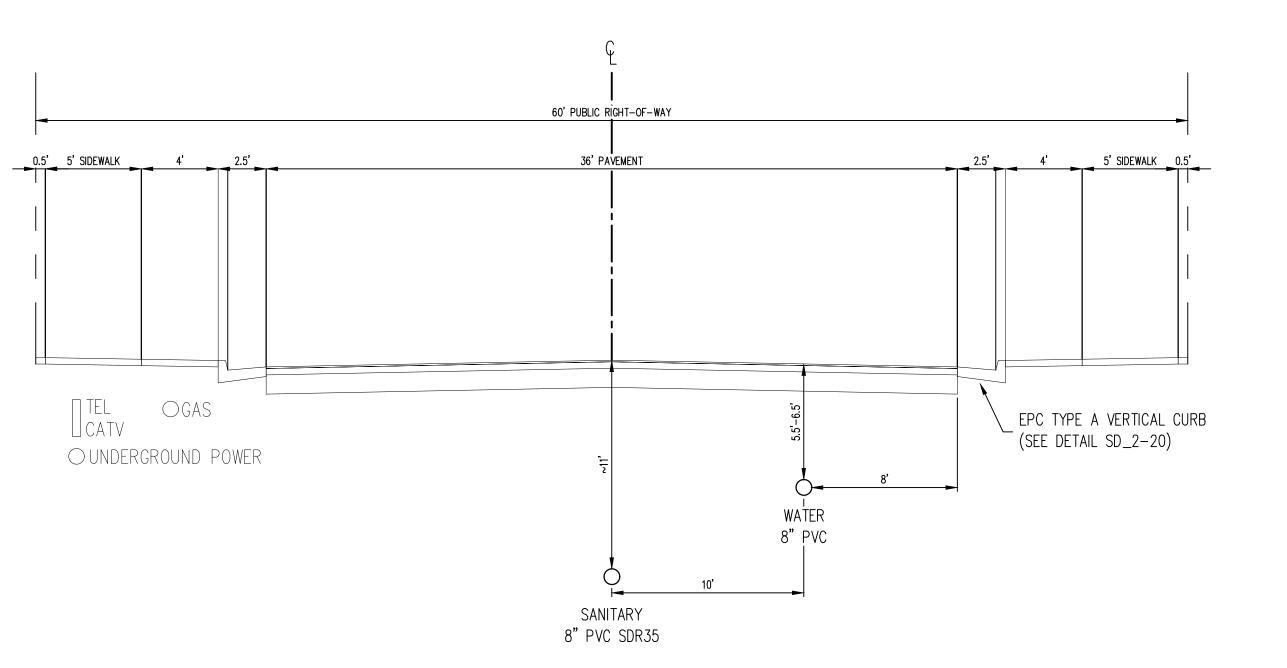
12. SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL

- 13. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DPW AND MUTCD CRITERIA.
  [IF APPLICABLE, ADDITIONAL SIGNING AND STRIPING NOTES WILL BE PROVIDED.]
- 14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DPW, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
- 15. THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF—SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

#### SIGNING AND STRIPING NOTES

- ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 2. REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE PAVEMENT. THE PAVEMENT MARKINGS SHALL BE REMOVED TO THE EXTENT THAT THEY WILL NOT BE VISIBLE UNDER DAY OR NIGHT CONDITIONS. AT NO TIME WILL IT BE ACCEPTABLE TO PAINT OVER EXISTING PAVEMENT
- 3. ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT.
- 4. ALL SIGNS SHOWN ON THE SIGNING AND STRIPING PLAN SHALL BE NEW SIGNS. EXISTING SIGNS MAY REMAIN OR BE REUSED IF THEY MEET CURRENT EL PASO COUNTY AND MUTCD STANDARDS
- 5. STREET NAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT
- 6. ALL REMOVED SIGNS SHALL BE DISPOSED OF IN A PROPER MANNER BY THE CONTRACTOR.
- 7. ALL STREET NAME SIGNS SHALL HAVE 'D'SERIES LETTERS, WITH LOCAL ROADWAY SIGNS BEING 4"UPPER-LOWER CASE LETTERING ON 8"BLANK AND NON-LOCAL ROADWAY SIGNS BEING 6"LETTERING, UPPER-LOWER CASE ON 12"BLANK, WITH A WHITE BORDER THAT IS NOT RECESSED. MULTI-LANE ROADWAYS WITH SPEED LIMITS OF 35 MPH OR HIGHER SHALL HAVE 8"UPPER-LOWER CASE LETTERING ON 18"BLANK WITH A WHITE BORDER THAT IS NOT RECESSED. THE WIDTH OF THE NON-RECESSED WHITE BORDERS SHALL MATCH PAGE 255 OF THE 2012 MUTCD "STANDARD HIGHWAY SIGNS". SIGNAL POLE MOUNTED AND OVERHEAD STREET NAME SIGNS SHALL BE PER MUTCD SIZE STANDARDS.
- 8. ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING.
- 9. ALL LOCAL RESIDENTIAL STREET SIGNS SHALL BE MOUNTED ON A 1.75"X 1.75"XQUARE TUBE SIGN POST AND STUB POST BASE. FOR OTHER APPLICATIONS, REFER TO THE CDOT STANDARD S-614-8 REGARDING USE OF THE P2 TUBULAR STEEL POST SLIPBASE DESIGN.
- 10. ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.100"MINIMUM THICKNESS.
- 11. ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS SHALL BE A MINIMUM 125 MIL THICKNESS PREFORMED THERMOPLASTIC PAVEMENT MARKINGS WITH TAPERED LEADING EDGES PER CDOT STANDARD S-627-1. WORD AND SYMBOL MARKINGS SHALL BE THE NARROW TYPE. STOP BARS SHALL BE 24"IN WIDTH. CROSSWALKS LINES SHALL BE 12"WIDE AND 9'LONG.
- 12. WORD AND SYMBOL MARKINGS SHALL BE THE NARROW TYPE.
- 13. ALL LONGITUDINAL LINES SHALL BE A MINIMUM 15MIL THICKNESS EPOXY PAINT. ALL NON-LOCAL RESIDENTIAL ROADWAYS SHALL INCLUDE BOTH RIGHT AND LEFT EDGE LINE STRIPING AND ANY ADDITIONAL STRIPING AS REQUIRED BY CDOT S-627-1.
- 14. THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (719) 520-6819 PRIOR TO AND UPON COMPLETION OF SIGNING AND STRIPING.
- 15. THE CONTRACTOR SHALL OBTAIN A WORK IN THE RIGHT OF WAY PERMIT FROM THE EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS (DPW) PRIOR TO ANY SIGNAGE OR STRIPING WORK WITHIN AN EXISTING EL PASO COUNTY ROADWAY.





# TYPICAL STREET SECTION — URBAN LOCAL ROADWAY SCALE: 1"=5' (MFRIDIAN PARK DRIVF)

(MERIDIAN PARK DRIVE)
(OWL PLACE)

DESIGN SPEED LIMIT: 25 MPH POSTED SPEED LIMIT: 25 MPH

# Galloway

1155 Kelly Johnson Blvd., Suite 3 Colorado Springs, CO 80920 719.900.7220 GallowayUS.com

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D & OWL PLACE

CONSTRUCTION DRAWINGS
MERIDIAN STORAGE
MERIDIAN STORAGE, LLC
VR239 & SDP2336

 Project No:
 MRS01

 Drawn By:
 JDM

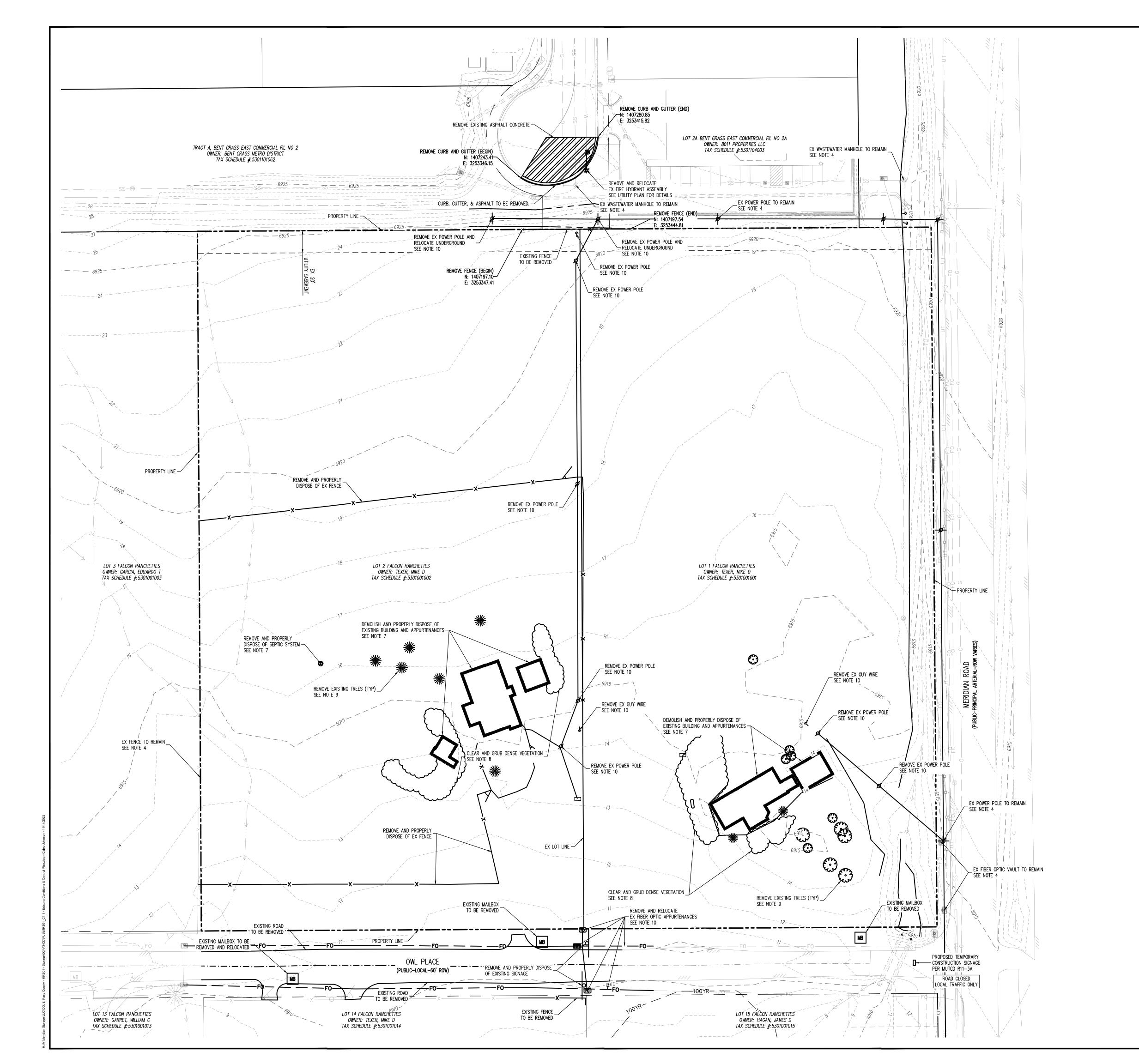
 Checked By:
 CMWJ

 Date:
 10/20/2023

NOTES

VR239 & SDP2336

CO.1



— TO REMAIN

TO BE REMOVED

DEMO LEGEND

EXISTING CONDITIONS LEGEND - - - 5460 - - - EXISTING MAJOR CONTOUR EXISTING MINOR CONTOUR PROJECT BOUNDARY LINE ADJACENT PROPERTY BOUNDARY LINE EXISTING ADJACENT LOT LINE PROPOSED LOT LINE - - - - - - - Existing easement line — · — · — · — · — · — EXISTING ROAD CENTERLINE EXISTING CURB AND GUTTER EXISTING SWALE LINE - --- 100YR- FLOODPLAIN BOUNDARY - EXISTING WATER LINE - EXISTING SANITARY SEWER **EXISTING STORM SEWER** EXISTING GAS LINE EXISTING UNDERGROUND TELEPHONE - EXISTING OVERHEAD ELECTRIC EXISTING FIBER OPTIC LINE EXISTING FIBER OPTIC STRUCTURES EXISTING TELEPHONE PEDESTAL EXISTING ELECTRIC TRANSFORMER EXISTING POWER POLE

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NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT

EXISTING SIGN

EXISTING STREET LIGHT EXISTING WATER VALVE EXISTING FIRE HYDRANT

EXISTING STORM SEWER MANHOLE EXISTING SANITARY SEWER MANHOLE

NOTE: CONTRACTOR MUST COORDINATE WORK WITH UTILITY COMPANY AND CITY PRIOR TO BEGINNING WORK AND IS RESPONSIBLE FOR ALL MATERIALS, LABOR, REPAIRS, ETC. TO COMPLETE WORK AND RESTORE AREA TO SAME STATE PRIOR TO STARTING WORK.

# DEMOLITION & SITE PREPARATION NOTES

- THE CONTRACTOR SHALL INCLUDE IN THE BID THE COST OF REMOVING ANY EXISTING SITE FEATURES AND APPURTENANCES NECESSARY TO ACCOMPLISH THE CONSTRUCTION OF THE PROPOSED SITE IMPROVEMENTS/ THE CONTRACTOR SHALL ALSO INCLUDE IN THE BID THE CONST NECESSARY TO RESTORE SUCH ITEMS IF THEY ARE SCHEDULED TO REMAIN AS PART OF THE FINAL SITE IMPROVEMENTS. REFER TO PLANS TO DETERMINE EXCAVATION, DEMOLITION AND TO DETERMINE THE LOCATION OF THE PROPOSED SITE IMPROVEMENTS.
- THE OWNER RESERVES THE RIGHT TO REVIEW ALL MATERIALS DESIGNATED FOR REMOVAL AND TO RETAIN OWNERSHIP OF SUCH MATERIALS. IF THE OWNER RETAINS ANY MATERIAL THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE OWNER TO HAVE THOSE MATERIALS REMOVED OFF SITE AT NO ADDITIONAL COST.
- 3. UNLESS SPECIFICALLY NOTED TO BE SAVED/STOCKPILED (R&S) OR REUSED/RELOCATED (R&R), ALL SITE FEATURES CALLED FOR REMOVAL (REM) SHALL BE REMOVED WITH THEIR FOOTINGS, ATTACHMENTS, BASE MATERIAL, ETC, TRANSPORTED FROM THE SITE TO BE DISPOSED OF IN A LAWFUL MANNER AT AN ACCEPTABLE DISPOSAL SITE AND AT NO COST TO THE OWNER.
- 4. ALL EXISTING SITE FEATURES TO REMAIN SHALL BE PROTECTED THROUGHOUT THE CONSTRUCTION PERIOD. ANY FEATURES DAMAGED DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST.
- 5. DURING EARTHWORK OPERATIONS, CONTRACTOR SHALL TAKE CARE TO NOT DISTURB EXISTING MATERIALS TO REMAIN, OUTSIDE THE LIMITS OF EXCAVATION AND BACKFILL AND SHALL TAKE WHATEVER MEASURES NECESSARY, AT THE CONTRACTOR'S EXPENSE, TO PREVENT ANY EXCAVATED MATERIAL FROM COLLAPSING. ALL BACKFILL MATERIALS SHALL BE PLACED AND COMPACTED AS SPECIFIED TO THE SUBGRADE REQUIRED FOR THE INSTALLATION OF THE REMAINDER OF THE CONTRACT WORK
- 6. IT SHALL BE THE CONTRACTOR'S OPTION, WITH CONCURRENCE OF THE OWNER, TO REUSE EXISTING GRAVEL IF IT MEETS THE REQUIREMENTS OF THE SPECIFICATION FOR GRAVEL
- 7. ALL ITEMS CALLED FOR REMOVAL SHALL BE REMOVED TO FULL DEPTH INCLUDING ALL FOOTINGS, FOUNDATIONS, AND OTHER APPURTENANCES, EXCEPT AS SPECIFICALLY NOTED
- 8. CLEAR AND GRUB VEGETATION' SHALL INCLUDE REMOVAL OF GRASS, SHRUBS, AND UNDERBRUSH, REMOVAL OF ROOTS, ROUGH GRADING, INSTALLATION OF LOAM (IF APPLICABLE), FINE GRADING, SEEDING AND TURF ESTABLISHMENT BY THE CONTRACTOR.
- 9. TREES DESIGNATED FOR REMOVAL SHALL BE TAGGED BY CONTRACTOR AND APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 10. CONTRACTOR RESPONSIBLE FOR COORDINATING WITH UTILITY PROVIDERS ON RELOCATION AND REMOVAL OF EXISTING IMPROVEMENTS

# BASIS OF BEARING

ALL BEARINGS ARE GRID BEARINGS OF THE COLORADO STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983. BEARINGS ARE BASED ON THE SOUTH LINE O LOTS 2, 3, & 4 OF FALCON RANCHETTES, AND IS CONSIDERED TO BEAR S89'40'45"W. DEFINED BY FOUND MONUMENTS AS FOLLOWS: A NO. 4 REBAR WITH A 1-1/4" YELLOW PLASTIC CAP STAMPED "LS 2372", BEING THE SOUTHEAST CORNER OF LOT 2; AND A NO. 4 REBAR WITH A 1-1/4" YELLOW PLASTIC CAP STAMPED "LS 2372", BEING THE SOUTHWEST CORNER OF LOT 4.

# BENCHMARK

THE SOUTHWEST CORNER OF LOT 1 WODDMEN HILLS FILING NO. 4, MONUMENTED BY A NO. 4 REBAR WITH A YELLOW PLASTIC CAP STAMPED "PLS 24964" NAVD88 ELEVATION = 6947.67

# CAUTION - NOTICE TO CONTRACTOR

THE ENGINEER PRIOR TO CONSTRUCTION.

1. ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIESTO THE Know what's below.



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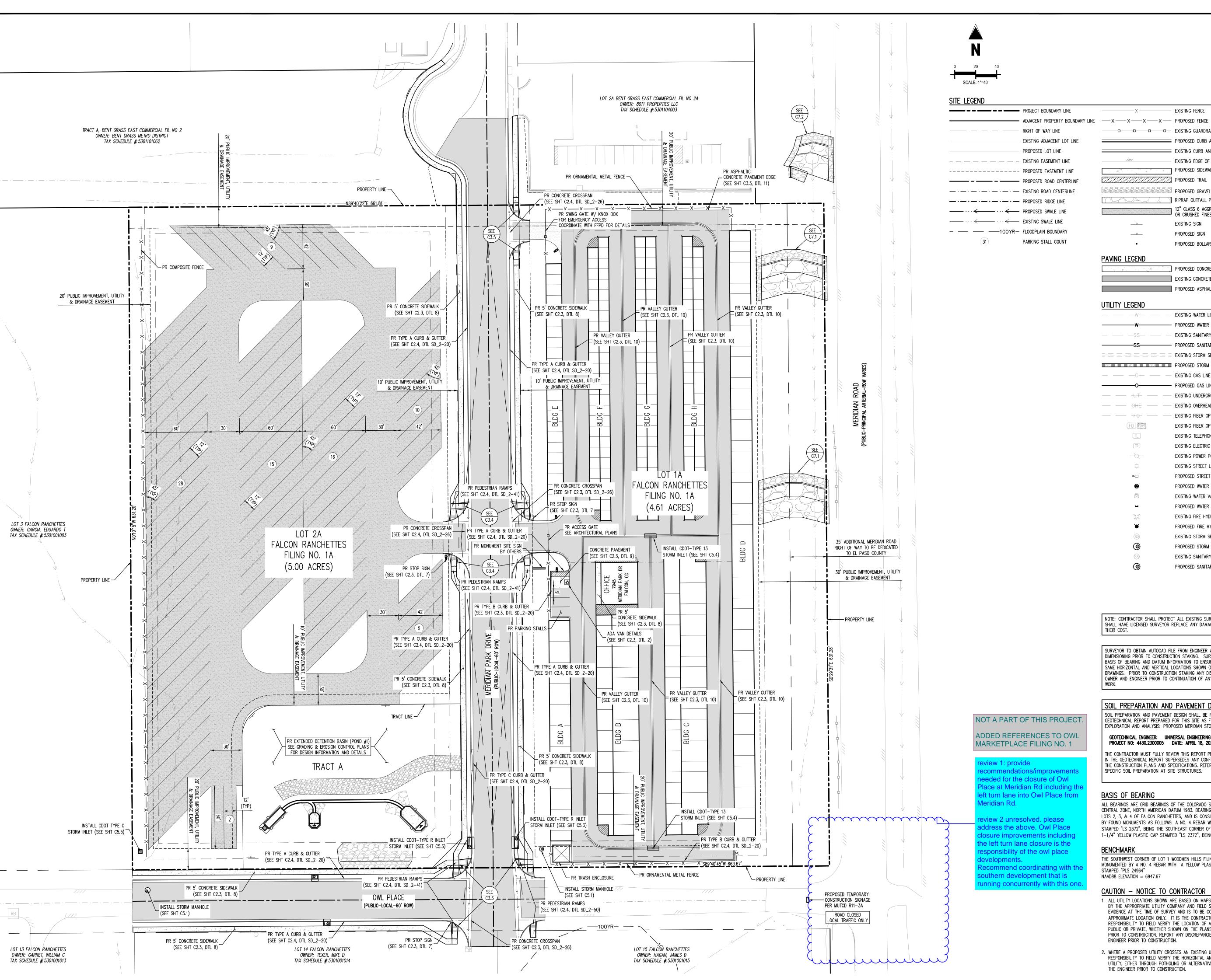
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# Date Issue / Description

**EXISTING CONDITIONS &** 

DEMO PLAN VR239 & SDP2336

Sheet 3 of 25





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10/20/2023 SITE PLAN

VR239 & SDP2336

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NOT A PART OF THIS PROJECT ADDED REFERENCES TO OWL

eeded for the closure of Owl lace at Meridian Rd including t ft turn lane into Owl Place from

ddress the above. Owl Place osure improvements including e left turn lane closure is the sponsibility of the owl place

commend coordinating with th outhern development that is

BENCHMARK

BASIS OF BEARING

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EXISTING FENCE

EXISTING GUARDRAIL

PAVING LEGEND

— — — — — — — —

— FO —

— — —SS— — EXISTING SANITARY SEWER

= SD = -SD = - SD = EXISTING STORM SEWER

PROPOSED STORM SEWER

PROPOSED CURB AND GUTTER

**EXISTING CURB AND GUTTER** EXISTING EDGE OF ASPHALT

PROPOSED SIDEWALK

PROPOSED TRAIL

RIPRAP OUTFALL PADS

EXISTING SIGN

PROPOSED SIGN

PROPOSED BOLLARDS

PROPOSED CONCRETE EXISTING CONCRETE

EXISTING WATER LINE

EXISTING GAS LINE

EXISTING UNDERGROUND TELEPHONE EXISTING OVERHEAD ELECTRIC EXISTING FIBER OPTIC LINE

EXISTING FIBER OPTIC STRUCTURES EXISTING TELEPHONE PEDESTAL EXISTING ELECTRIC TRANSFORMER

EXISTING POWER POLE EXISTING STREET LIGHT PROPOSED STREET LIGHT

PROPOSED WATER METER

EXISTING WATER VALVE

PROPOSED WATER VALVE

EXISTING FIRE HYDRANT

PROPOSED FIRE HYDRANT

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OWNER AND ENGINEER PRIOR TO CONTINUATION OF ANY FURTHER STAKING OR CONSTRUCTION

SAME HORIZONTAL AND VERTICAL LOCATIONS SHOWN ON THE DESIGN CONSTRUCTION DRAWNGS. PRIOR TO CONSTRUCTION STAKING ANY DISCREPANCY MUST BE REPORTED TO

SOIL PREPARATION AND PAVEMENT DESIGN SHALL BE PER RECOMMENDATIONS FROM A

GEOTECHNICAL REPORT PREPARED FOR THIS SITE AS FOLLOWS: GEOTECHNICAL ENGINEERING

THE CONTRACTOR MUST FULLY REVIEW THIS REPORT PRIOR TO CONSTRUCTION. INFORMATION

THE CONSTRUCTION PLANS AND SPECIFICATIONS. REFER TO GENERAL STRUCTURAL NOTES FOR

IN THE GEOTECHNICAL REPORT SUPERSEDES ANY CONFLICTING INFORMATION CONTAINED IN

ALL BEARINGS ARE GRID BEARINGS OF THE COLORADO STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983. BEARINGS ARE BASED ON THE SOUTH LINE (

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BY FOUND MONUMENTS AS FOLLOWS: A NO. 4 REBAR WITH A 1-1/4" YELLOW PLASTIC CAP

SOIL PREPARATION AND PAVEMENT DESIGN NOTE

EXPLORATION AND ANALYSIS: PROPOSED MERIDIAN STORAGE

PROJECT NO: 4430.2300005 DATE: APRIL 18, 2023

SPECIFIC SOIL PREPARATION AT SITE STRUCTURES.

GEOTECHNICAL ENGINEER: UNIVERSAL ENGINEERING SCIENCES

EXISTING STORM SEWER MANHOLE

PROPOSED STORM SEWER MANHOLE

EXISTING SANITARY SEWER MANHOLE

PROPOSED SANITARY SEWER MANHOLE

PROPOSED ASPHALT PAVING

12" CLASS 6 AGGREGATE BASE COURSE

OR CRUSHED FINES OVER COMPACTED SUBGRADE

PROPOSED GRAVEL PER ECM TABLE D-7

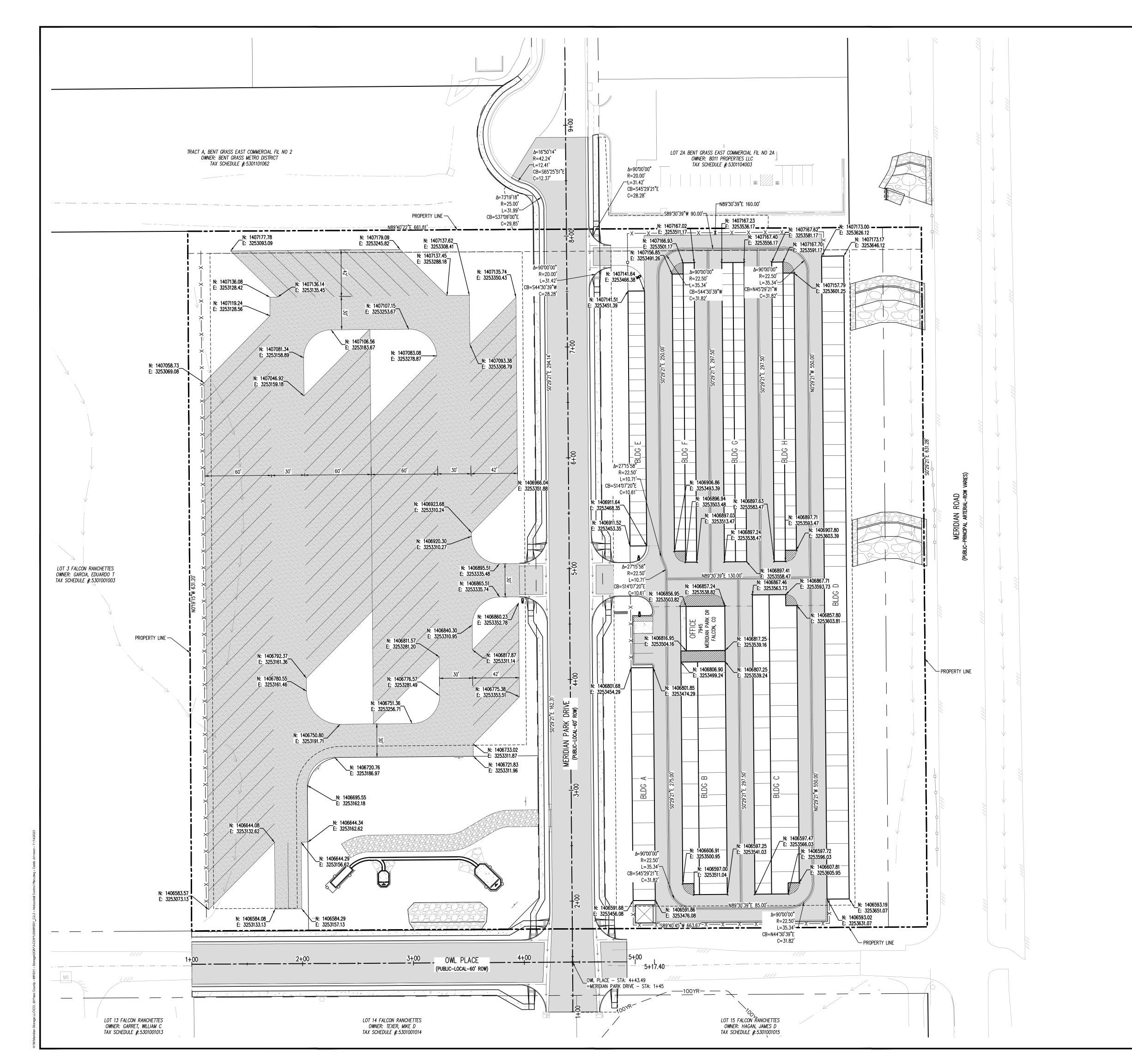
ENGINEER PRIOR TO CONSTRUCTION.

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PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIESTO THE Know what's below. Call before you dig.

Sheet 4 of 25







SITE LEGEND	
	PROJECT BOUNDARY LINE
	ADJACENT PROPERTY BOUNDARY LINE
	RIGHT OF WAY LINE
	EXISTING ADJACENT LOT LINE
	PROPOSED LOT LINE
	EXISTING EASEMENT LINE
	PROPOSED EASEMENT LINE
	PROPOSED ROAD CENTERLINE
	EXISTING ROAD CENTERLINE
	PROPOSED RIDGE LINE
	PROPOSED SWALE LINE
< <	EXISTING SWALE LINE
100YR-	FLOODPLAIN BOUNDARY
X	EXISTING FENCE
—x—x—x—	PROPOSED FENCE
	EXISTING GUARDRAIL
	PROPOSED CURB AND GUTTER
	EXISTING CURB AND GUTTER
	EXISTING EDGE OF ASPHALT
	PROPOSED SIDEWALK
	PROPOSED TRAIL
	PROPOSED GRAVEL PER ECM TABLE D-7
	RIPRAP OUTFALL PADS
	EXISTING SIGN
	PROPOSED SIGN
•	PROPOSED BOLLARDS

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BASIS OF BEARING AND DATUM INFORMATION TO ENSURE IMPROVEMENTS WILL BE AT THE

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THE SOUTHWEST CORNER OF LOT 1 WODDMEN HILLS FILING NO. 4,

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APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S

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BASIS OF BEARING

BENCHMARK

STAMPED "PLS 24964"

NAVD88 ELEVATION = 6947.67

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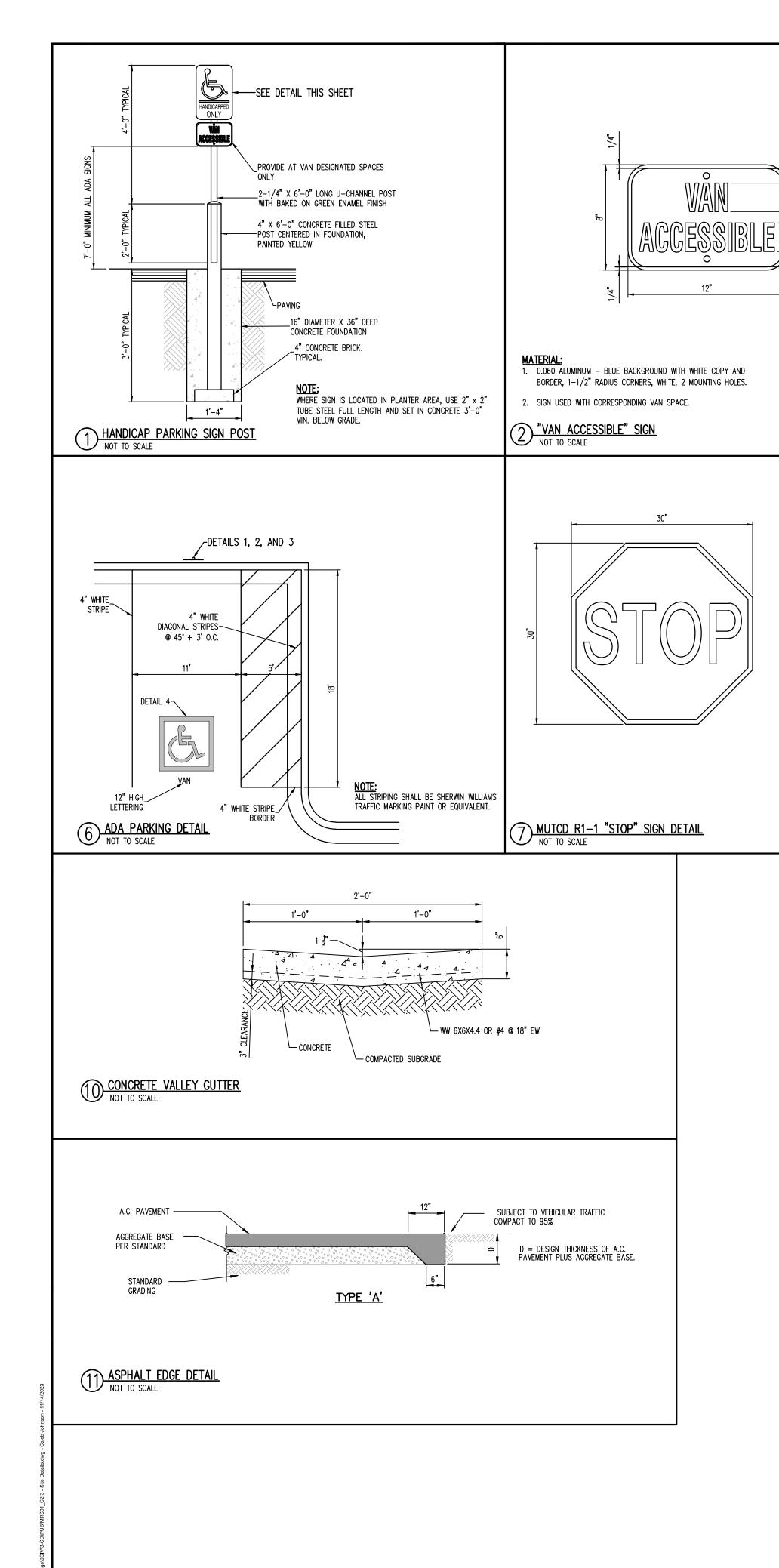
HORIZONTAL CONTROL

PLAN

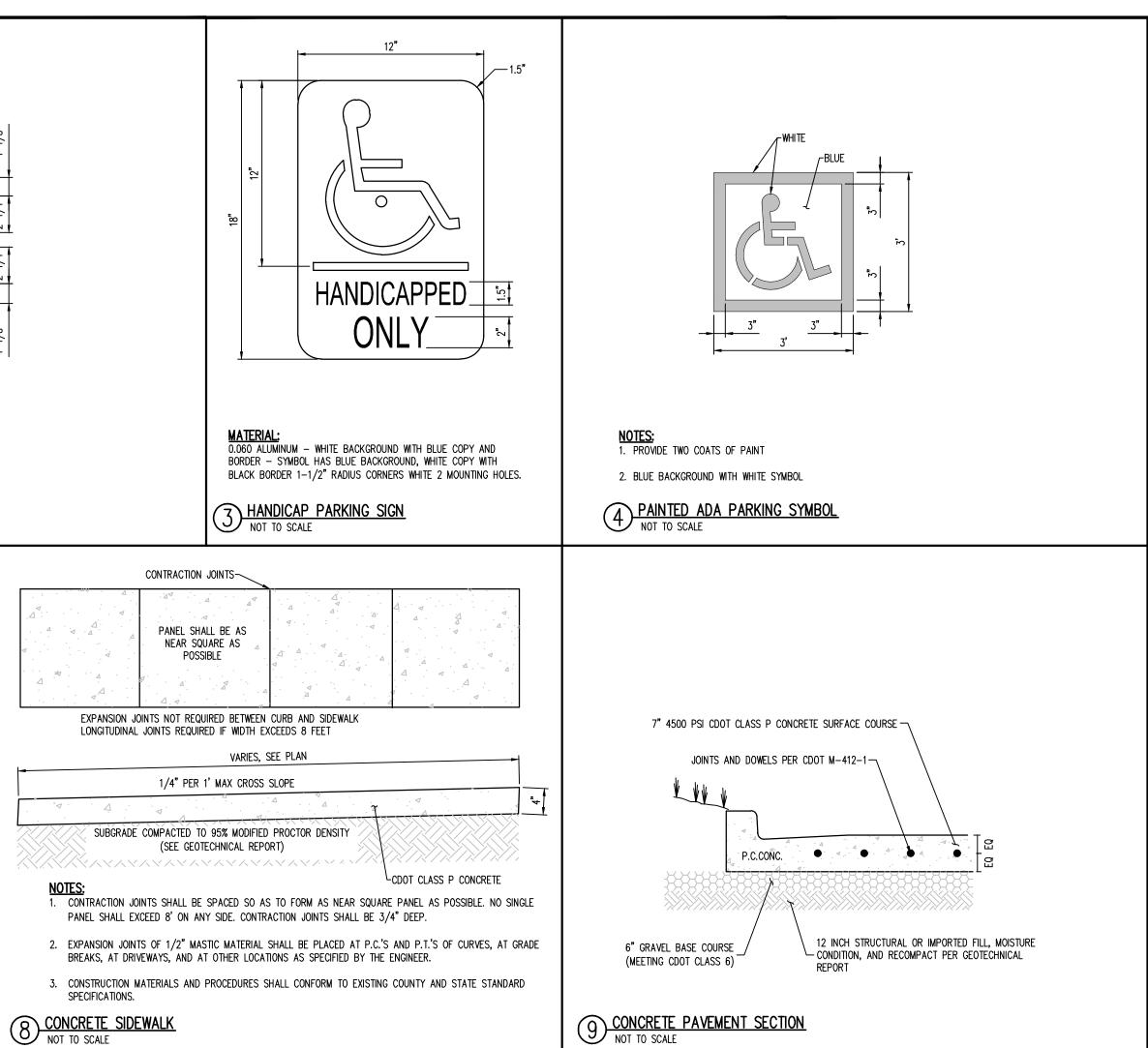
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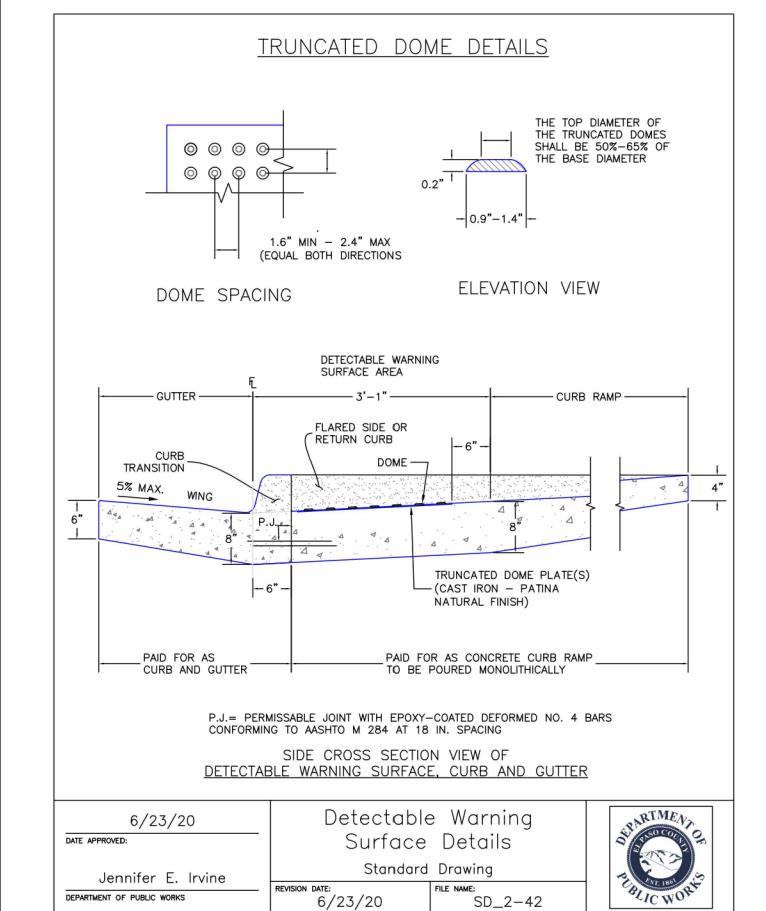
Call before you dig.

Sheet 5 of 25



SPECIFICATIONS.





SD\_2-42

TRUNCATED DOMES

NOT TO SCALE

CONSTRUCTION DRAWINGS MERIDIAN STORAGE MERIDIAN STORAGE, LLC VR239 & SDP2336

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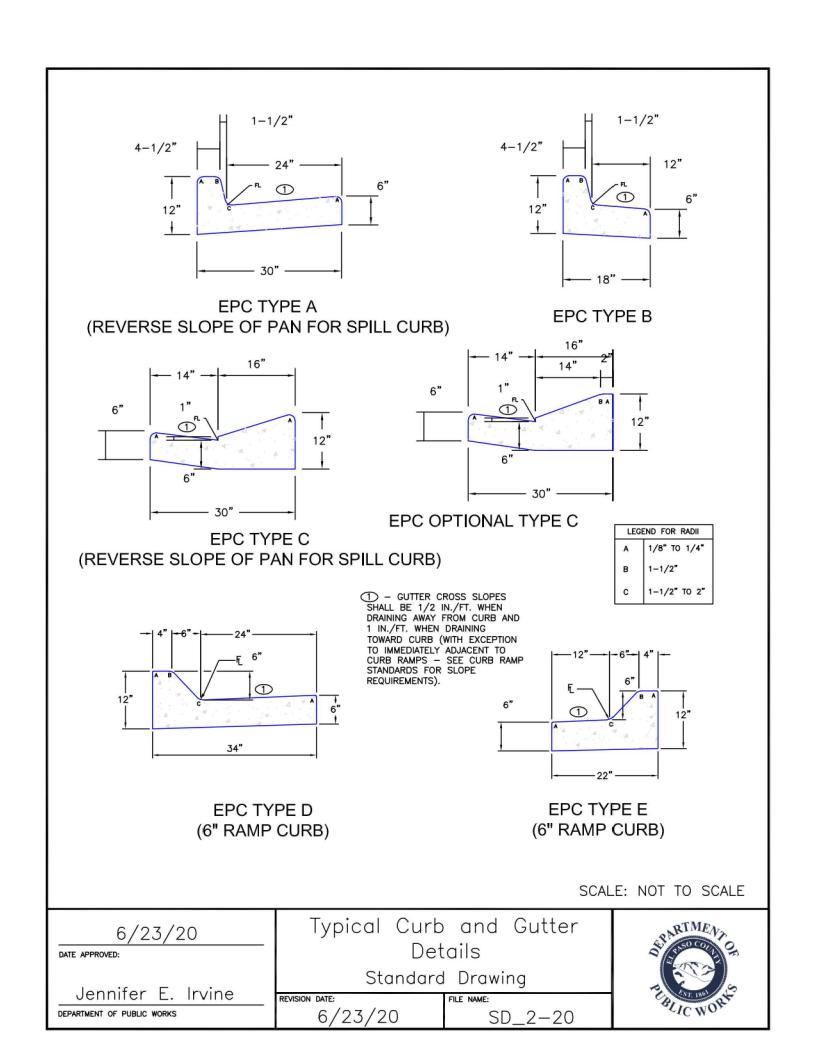
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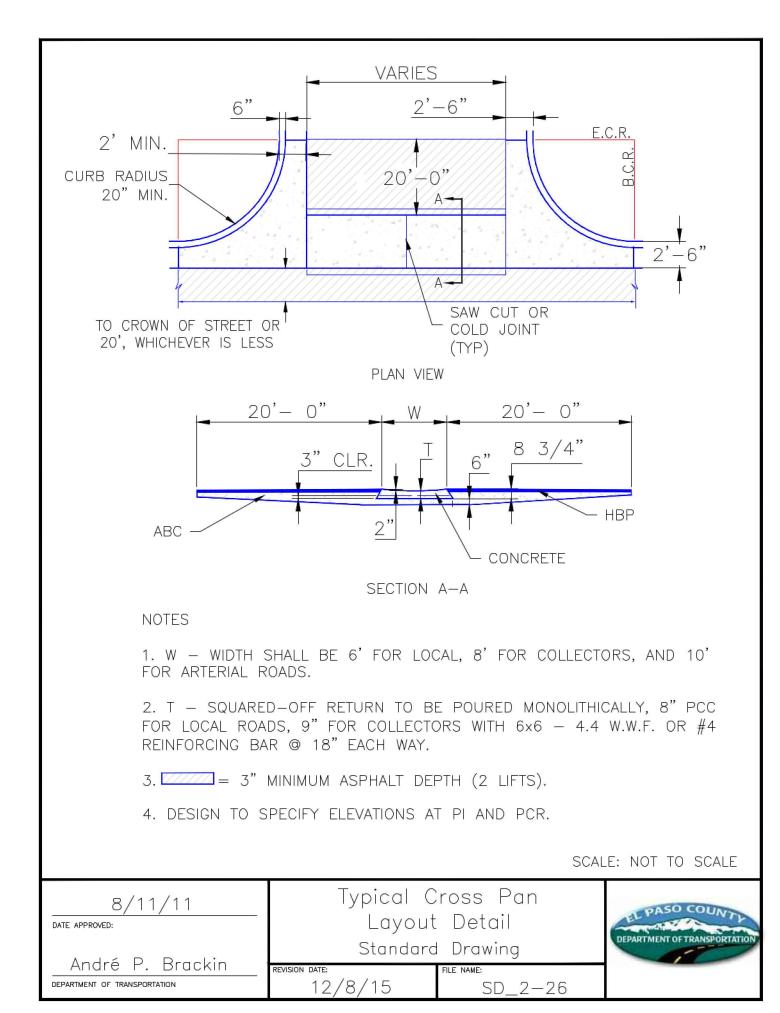
CMWJ 10/20/2023

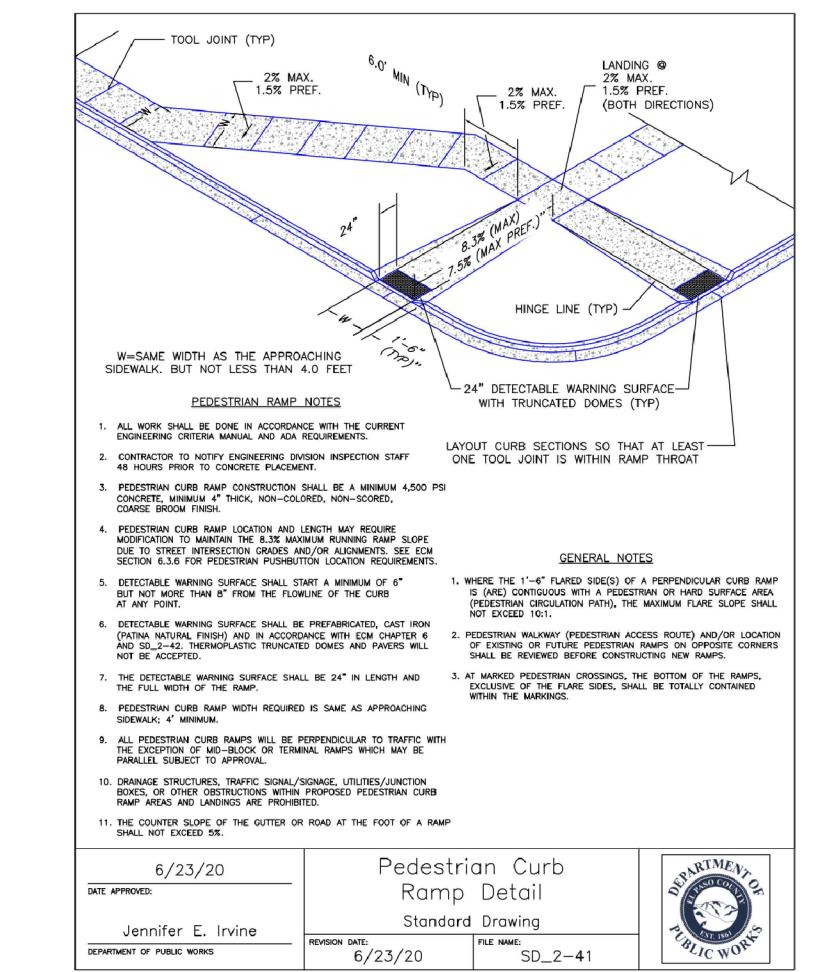
SITE DETAILS

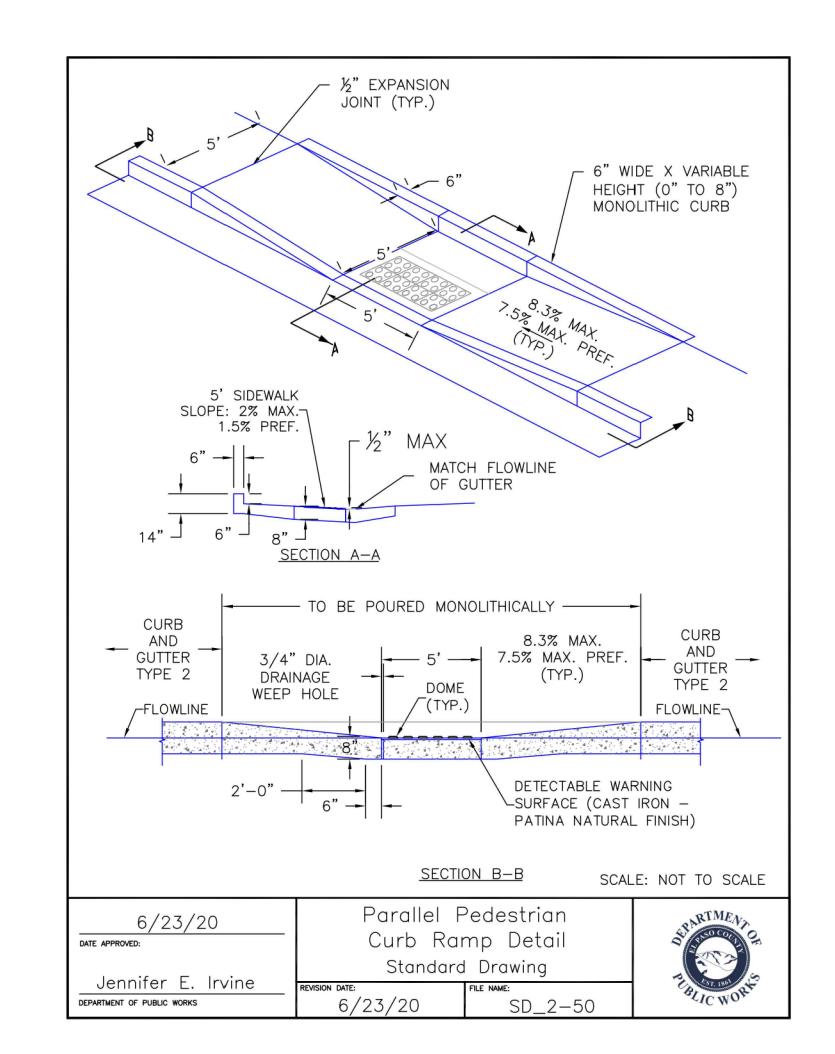
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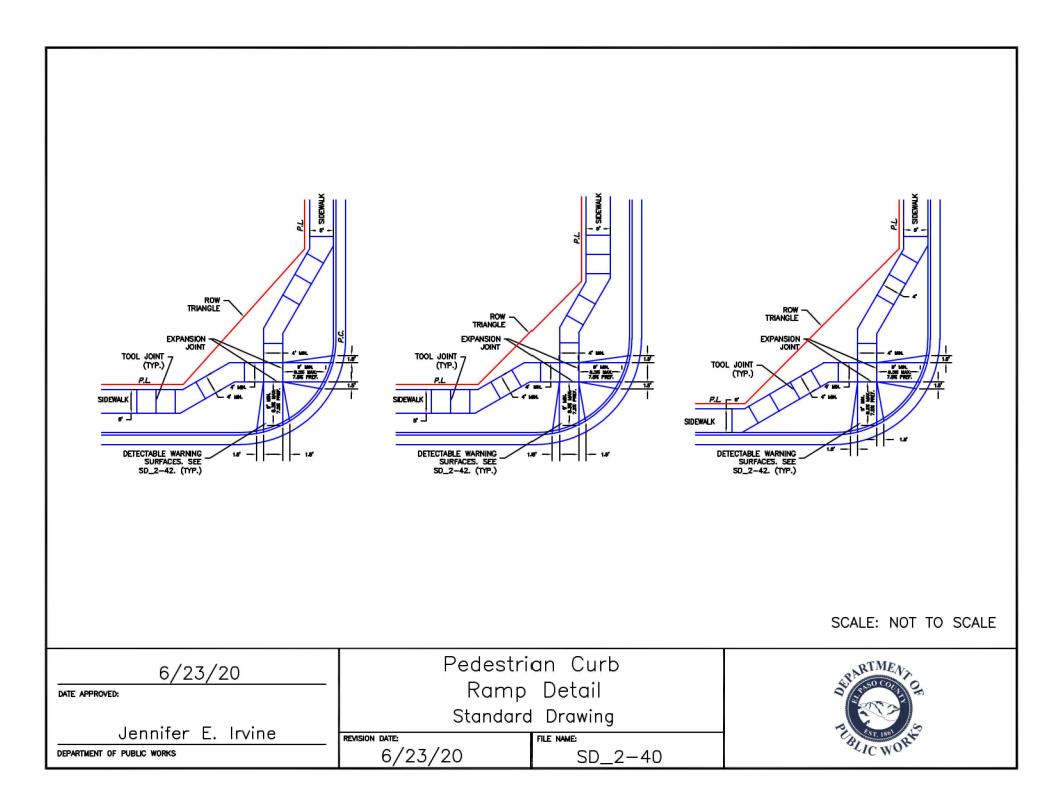
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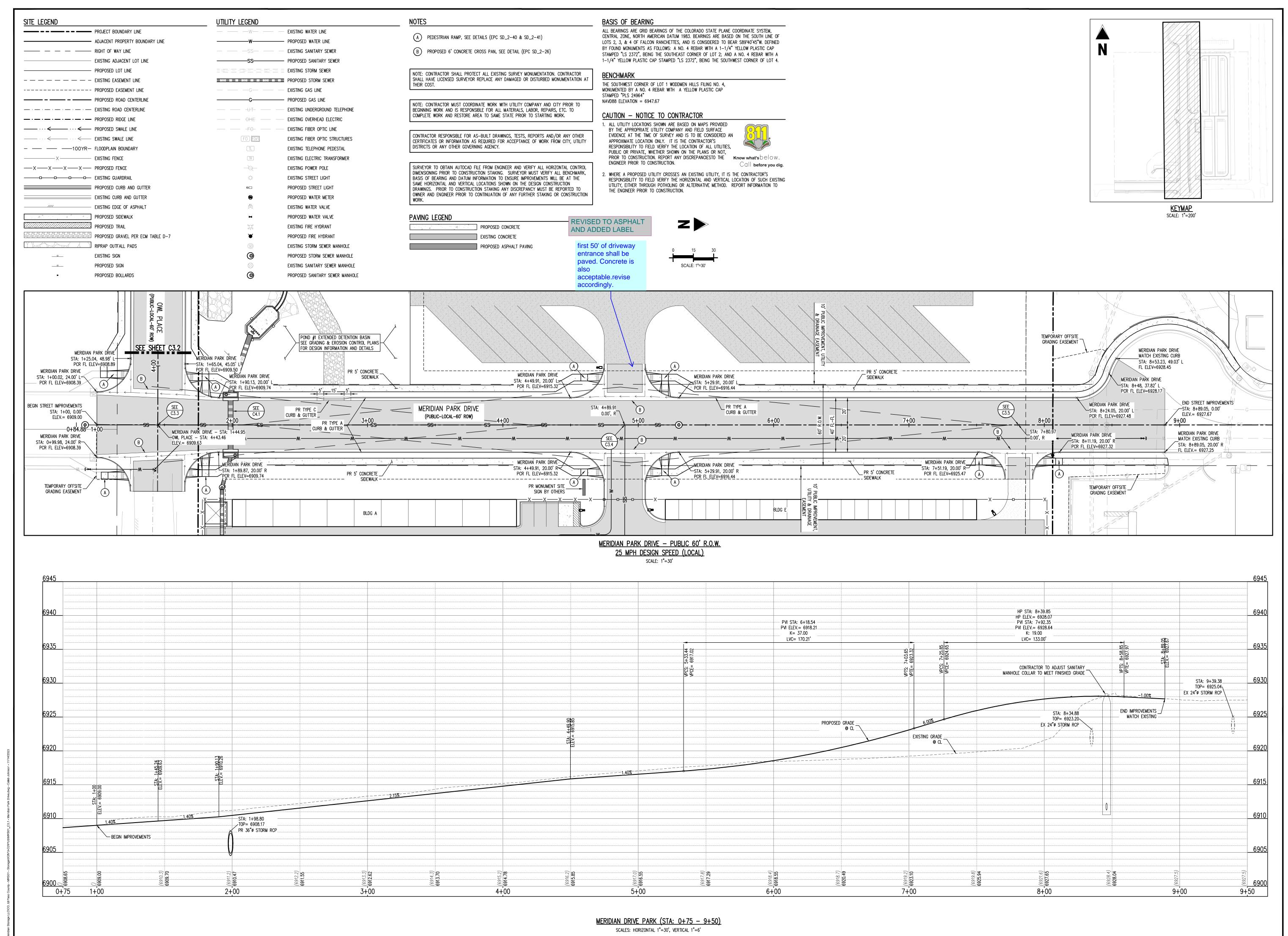


roject No:	MRS01
rawn By:	JDM
hecked By:	CMWJ
ate:	10/20/2023

SITE DETAILS

VR239 & SDP2336

Sheet 7 of 25



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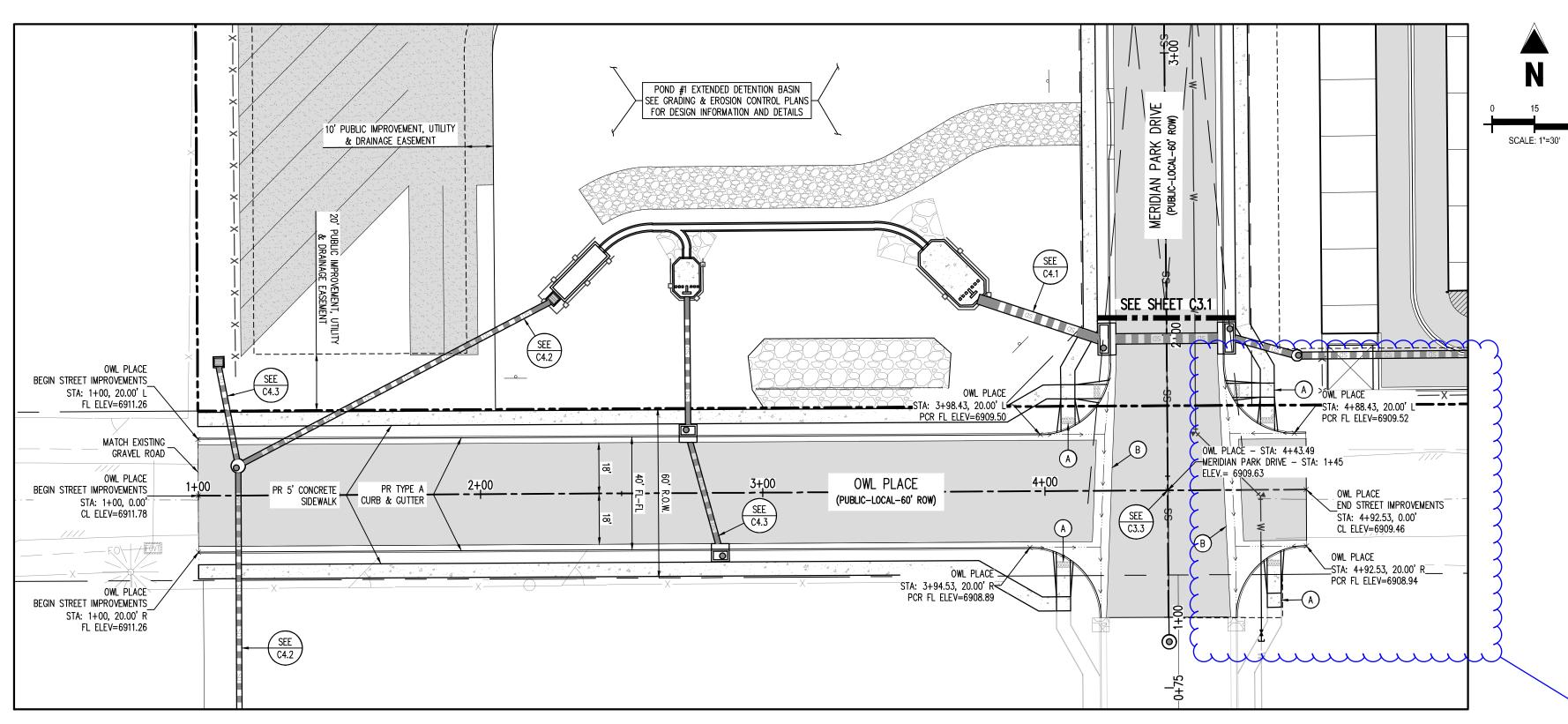
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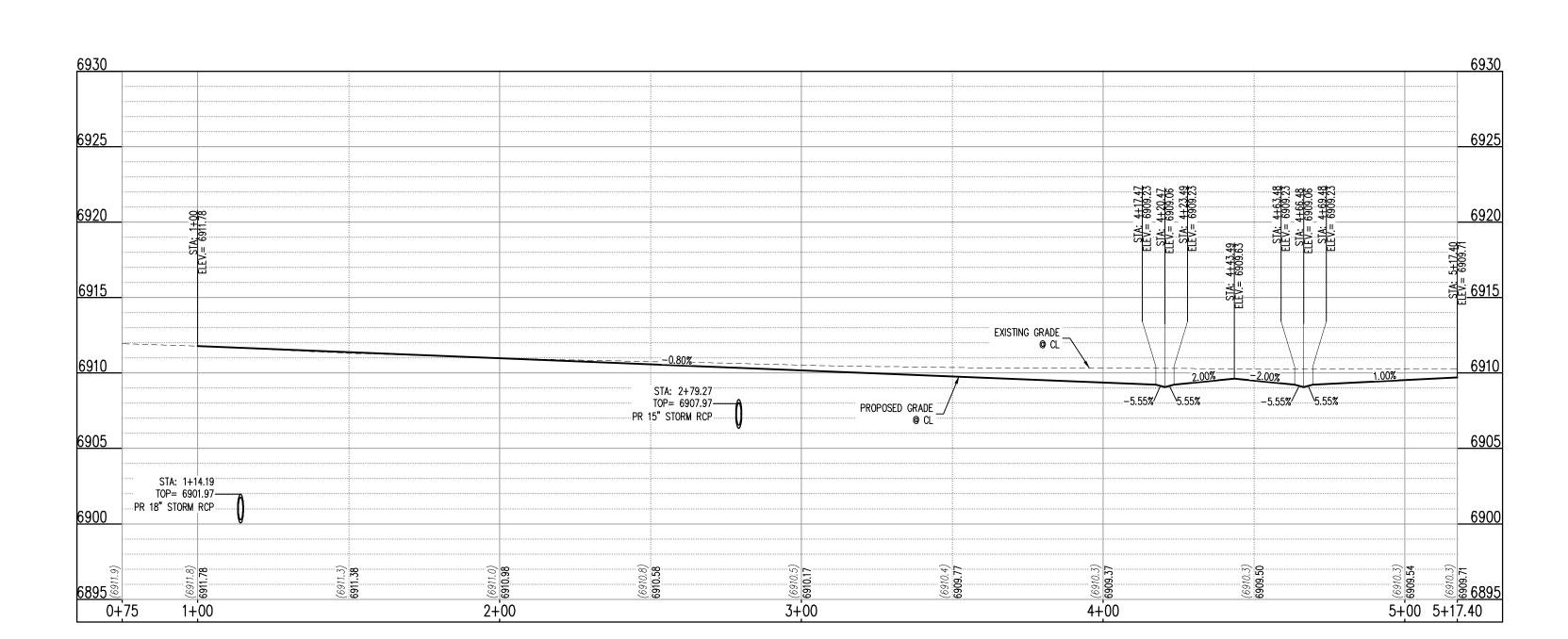
MERIDIAN PARK DRIVE

VR239 & SDP2336

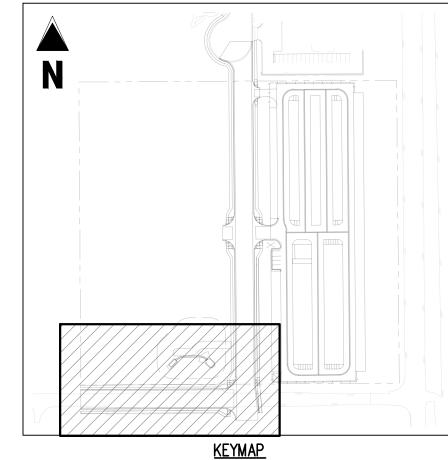
Sheet 8 of 25



OWL PLACE - PUBLIC 60' R.O.W. 25 MPH DESIGN SPEED (LOCAL) SCALE: 1"=30'



<u>OWL PLACE (STA: 0+75 - 5+17.40)</u> SCALES: HORIZONTAL 1"=30', VERTICAL 1"=6'



SCALE: 1"=200'

— – — PROPOSED ROAD CENTERLINE

— · — · — · — · — · — EXISTING ROAD CENTERLINE

——···← PROPOSED SWALE LINE

── ··· ← EXISTING SWALE LINE

ADJACENT PROPERTY BOUNDARY LINE

EXISTING ADJACENT LOT LINE

PROPOSED LOT LINE

PROPOSED CURB AND GUTTER

EXISTING CURB AND GUTTER

EXISTING EDGE OF ASPHALT

PROPOSED GRAVEL PER ECM TABLE D-7

PROPOSED SIDEWALK

RIPRAP OUTFALL PADS

PROPOSED BOLLARDS

PROPOSED TRAIL

EXISTING SIGN

PROPOSED SIGN

SITE LEGEND PROJECT BOUNDARY LINE - - - - - - EXISTING EASEMENT LINE ---- PROPOSED EASEMENT LINE EXISTING UNDERGROUND TELEPHONE EXISTING OVERHEAD ELECTRIC — · — · — · — · — PROPOSED RIDGE LINE EXISTING FIBER OPTIC LINE EXISTING FIBER OPTIC STRUCTURES EXISTING TELEPHONE PEDESTAL - - 100YR- FLOODPLAIN BOUNDARY EXISTING ELECTRIC TRANSFORMER EXISTING FENCE —X—X—X—X— PROPOSED FENCE EXISTING GUARDRAIL EXISTING STORM SEWER MANHOLE PROPOSED STORM SEWER MANHOLE EXISTING SANITARY SEWER MANHOLE PROPOSED SANITARY SEWER MANHOLE

UTILITY LEGEND

FO FOVT

lease coordinate with the

ubdivision to the south as

show proper justification for

the County to consider this

ption)to keep Owl place

epending on the timing of

ntent is to close Owl Place

hese subdivisions. If the

hen a stub should not be

sidewalk/curb & gutter

rom north to south.

should continue through

NOT A PART OF THIS PROJECT.

ADDED REFERENCES TO OWL MARKETPLACE FILING NO. 1

REVISED LINEWORK TO SHOW UP-TO-DATE IMPROVEMENTS

open in the interim

t appears that they may roposed (they need to

Owl Marketplace

PROPOSED WATER LINE

= SD = - SD = - SD = EXISTING STORM SEWER

PROPOSED STORM SEWER

EXISTING WATER LINE

EXISTING GAS LINE

EXISTING POWER POLE EXISTING STREET LIGHT

PROPOSED STREET LIGHT

PROPOSED WATER METER

EXISTING WATER VALVE

PROPOSED WATER VALVE

EXISTING FIRE HYDRANT

PROPOSED FIRE HYDRANT

---- PROPOSED GAS LINE

EXISTING SANITARY SEWER

PAVING LEGEND PROPOSED CONCRETE EXISTING CONCRETE PROPOSED ASPHALT PAVING

A PEDESTRIAN RAMP, SEE DETAILS (EPC SD\_2-40 & SD\_2-41)

(B) PROPOSED 6' CONCRETE CROSS PAN, SEE DETAIL (EPC SD\_2-26)

NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.

NOTE: CONTRACTOR MUST COORDINATE WORK WITH UTILITY COMPANY AND CITY PRIOR TO BEGINNING WORK AND IS RESPONSIBLE FOR ALL MATERIALS, LABOR, REPAIRS, ETC. TO COMPLETE WORK AND RESTORE AREA TO SAME STATE PRIOR TO STARTING WORK.

CONTRACTOR RESPONSIBLE FOR AS-BUILT DRAWINGS, TESTS, REPORTS AND/OR ANY OTHER CERTIFICATES OR INFORMATION AS REQUIRED FOR ACCEPTANCE OF WORK FROM CITY, UTILITY DISTRICTS OR ANY OTHER GOVERNING AGENCY.

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BENCHMARK

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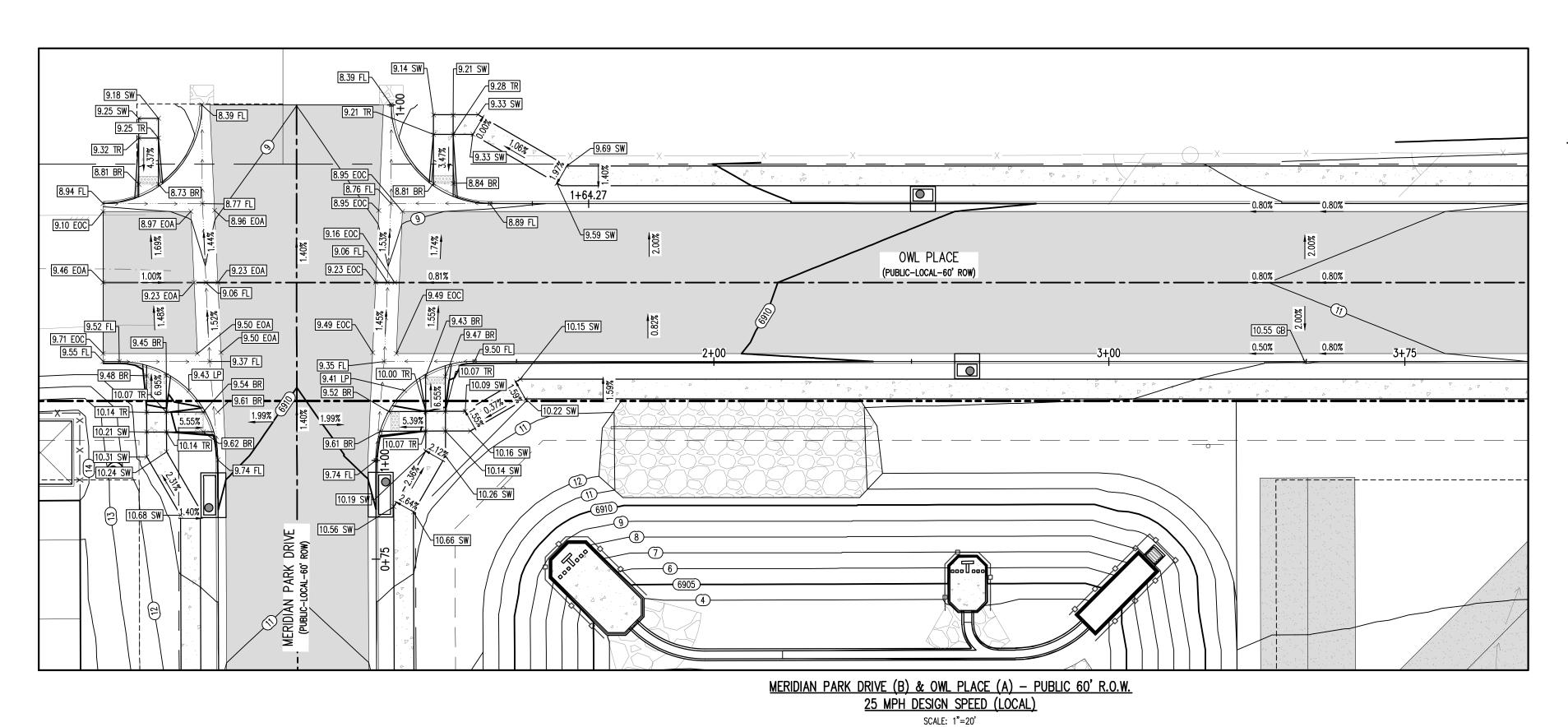
JCTION DRAWING I STORAGE I STORAGE, LLC SDP2336 CONSTRUC MERIDIAN S MERIDIAN S VR239 & SE

# Date Issue / Description

Checked By: 10/20/2023 OWL PLACE

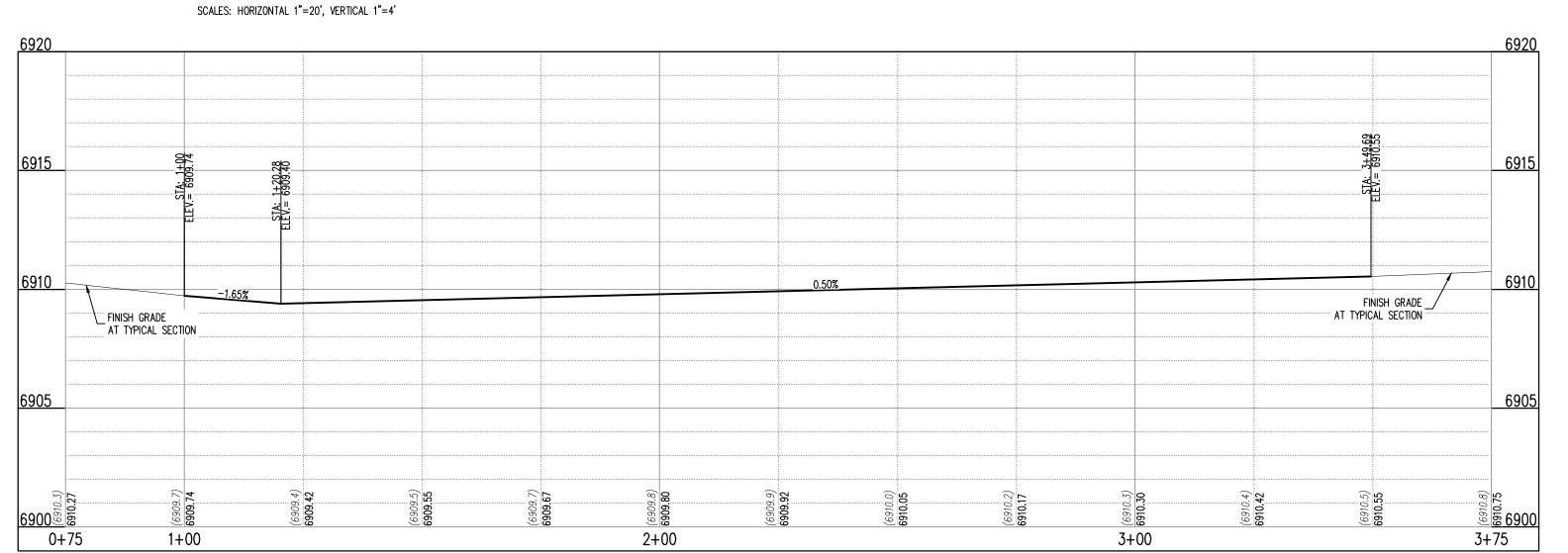
VR239 & SDP2336

Sheet 9 of 25



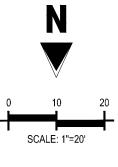
FINISH GRADE ... AT TYPICAL SECTION 1+64.27 1+00 0+75

ST-B & ST-A (SW) (STA: 1+00 - 2+63.21)



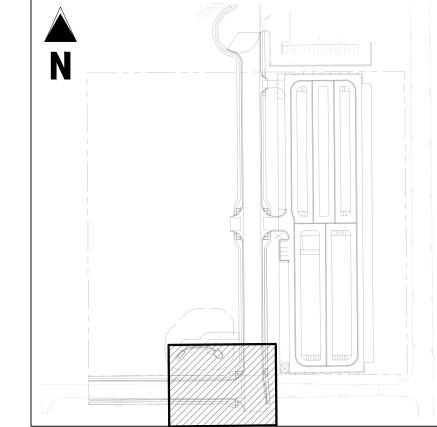
ST-B & ST-A (NW) (STA: 1+00 - 3+51.84)

SCALES: HORIZONTAL 1"=20', VERTICAL 1"=4'



# UTILITY LEGEND

	EXISTING WATER LINE
w	PROPOSED WATER LINE
SS	EXISTING SANITARY SEWER
SS	PROPOSED SANITARY SEWER
= s <u>D</u> - = - <u>s</u> D = <u>s</u> D- = =	EXISTING STORM SEWER
SD	PROPOSED STORM SEWER
— — — — — —	EXISTING GAS LINE
G	PROPOSED GAS LINE
— — <del>UT</del> — —	EXISTING UNDERGROUND TELEPHONE
— — OHE — —	EXISTING OVERHEAD ELECTRIC
— -FO- — —	EXISTING FIBER OPTIC LINE
FO) FOVT	EXISTING FIBER OPTIC STRUCTURES
T	EXISTING TELEPHONE PEDESTAL
TR	EXISTING ELECTRIC TRANSFORMER
	EXISTING POWER POLE
<b>\(\phi\)</b>	EXISTING STREET LIGHT
	PROPOSED STREET LIGHT
•	PROPOSED WATER METER
	EXISTING WATER VALVE
H	PROPOSED WATER VALVE
No.	EXISTING FIRE HYDRANT
₩	PROPOSED FIRE HYDRANT
(SD)	EXISTING STORM SEWER MANHOLE
<b>©</b>	PROPOSED STORM SEWER MANHOLE
\$3	EXISTING SANITARY SEWER MANHOLE
<b>©</b>	PROPOSED SANITARY SEWER MANHOLE



KEYMAP SCALE: 1"=200'

# DETAIL GRADING LEGEND

	PROPERTY BOUNDARY LINE
	ADJACENT PROPERTY BOUNDARY LINE
	RIGHT OF WAY BOUNDARY LINE
	PROPOSED LOT LINE
	PROPOSED EASEMENT LINE
	ROAD CENTERLINE
<del></del>	PROPOSED SWALE FLOWLINE
	PROPOSED CURB AND GUTTER
4	PROPOSED SIDEWALK
5465	PROPOSED MAJOR CONTOUR
<u>66</u>	PROPOSED MINOR CONTOUR
2.00%	PROPOSED SLOPE - PERCENT
<del></del>	PROPOSED SLOPE - RISE/RUN
89.00 HP	PROPOSED SPOT ELEVATION - HIGH POINT
89.00 LP	PROPOSED SPOT ELEVATION - LOW POINT
89.00 TR	PROPOSED SPOT ELEVATION - TOP OF RAMP
89.00 BR	PROPOSED SPOT ELEVATION - BOTTOM OF RAMP
89.00 FL	PROPOSED SPOT ELEVATION - FLOW LINE
89.00 CL	PROPOSED SPOT ELEVATION - ROADWAY CENTER LINE
89.00 TBC	PROPOSED SPOT ELEVATION - TOP BACK OF CURB
89.00 LIP	PROPOSED SPOT ELEVATION - LIP OF GUTTER
89.00 FG	PROPOSED SPOT ELEVATION - FINISHED GRADE
89.00 SW	PROPOSED SPOT ELEVATION - SIDEWALK
89.00 EOC	PROPOSED SPOT ELEVATION - EDGE OF CONCRETE
89.00 EOA	PROPOSED SPOT ELEVATION - EDGE OF ASPHALT

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# BENCHMARK

THE SOUTHWEST CORNER OF LOT 1 WODDMEN HILLS FILING NO. 4, MONUMENTED BY A NO. 4 REBAR WITH A YELLOW PLASTIC CAP STAMPED "PLS 24964" NAVD88 ELEVATION = 6947.67

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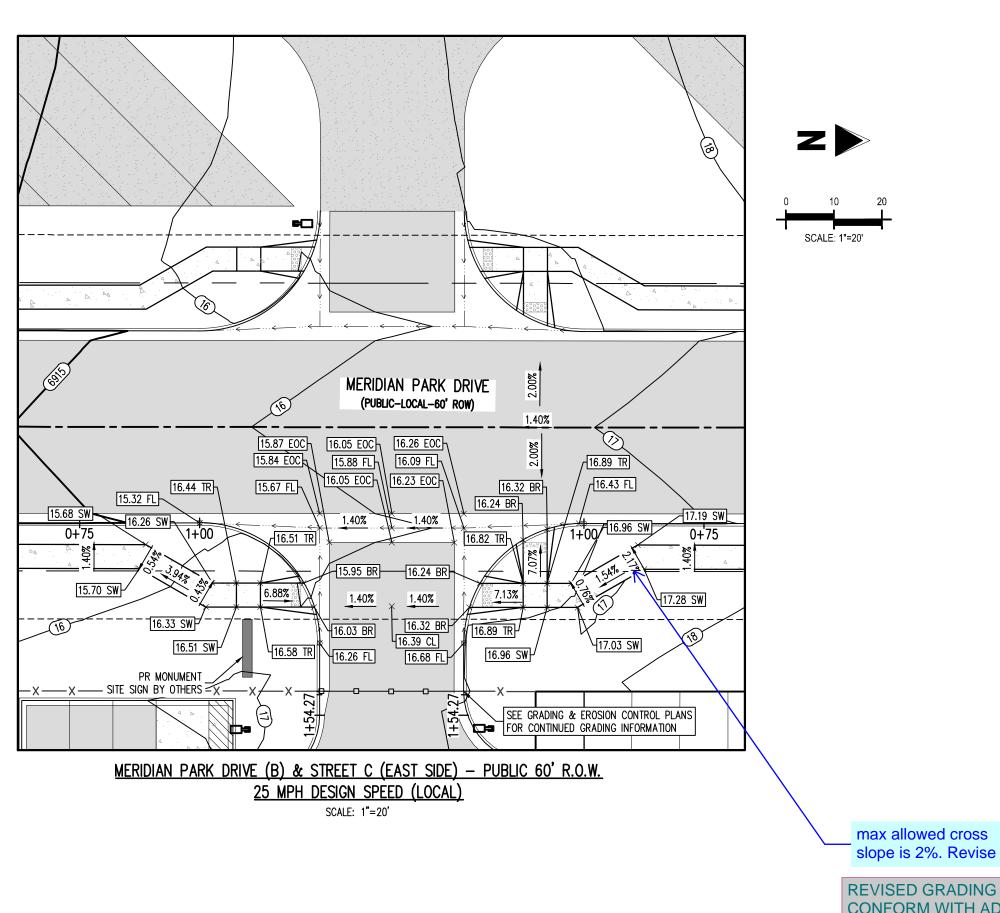


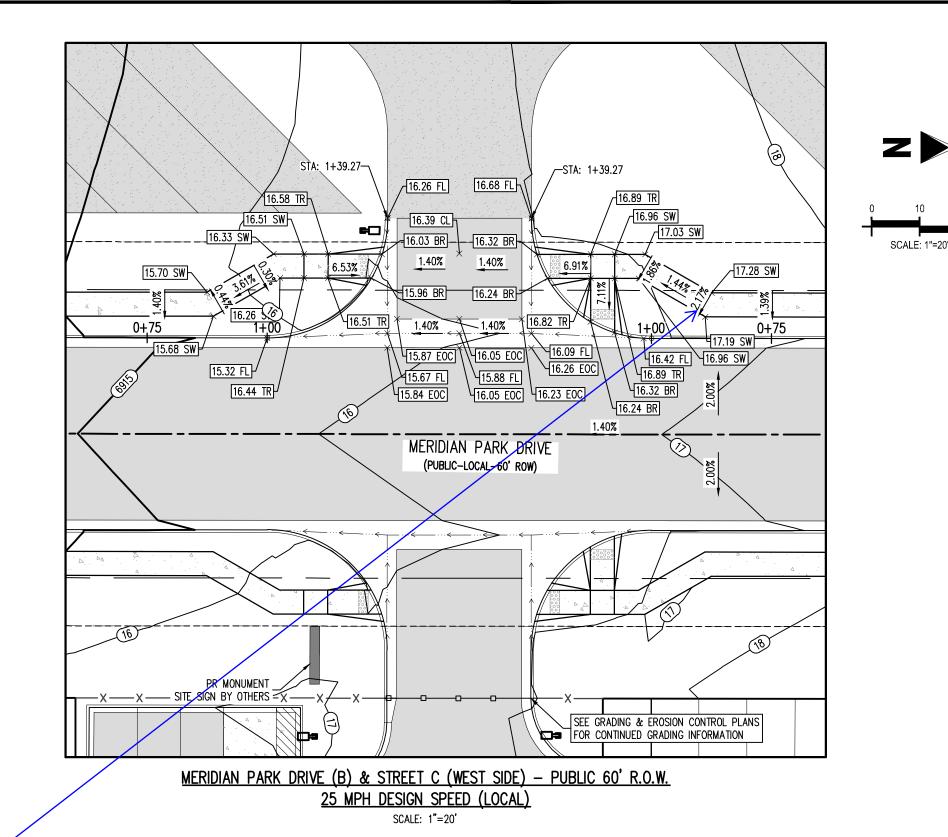
# Date Issue / Description

Project No: CMWJ 10/20/2023

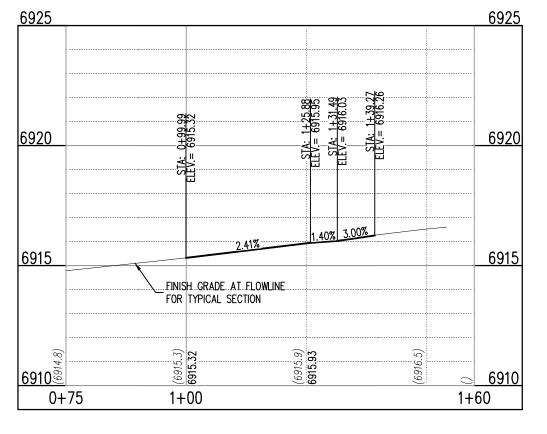
INTERSECTION DETAILS

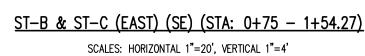
Sheet 10 of 25

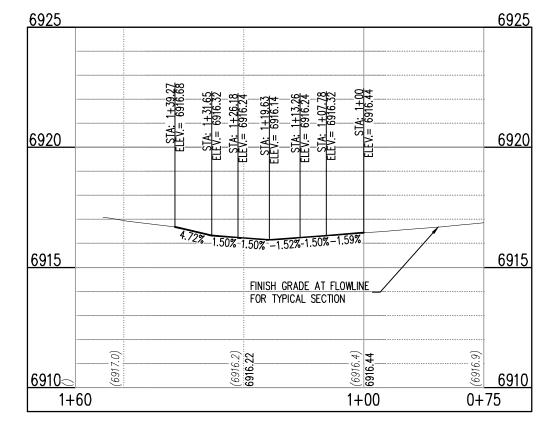




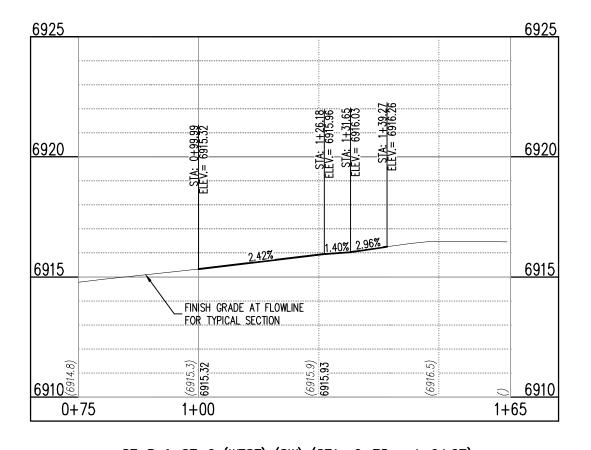
REVISED GRADING TO CONFORM WITH ADA STNADARDS



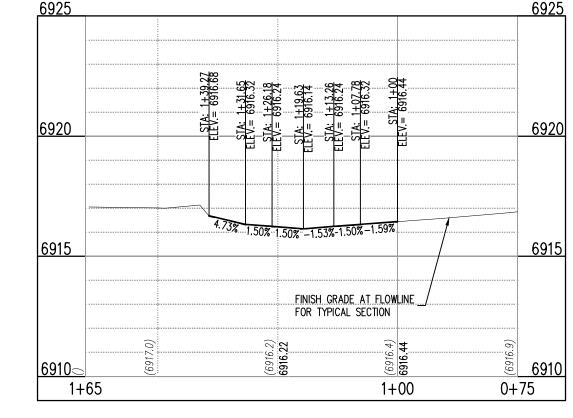




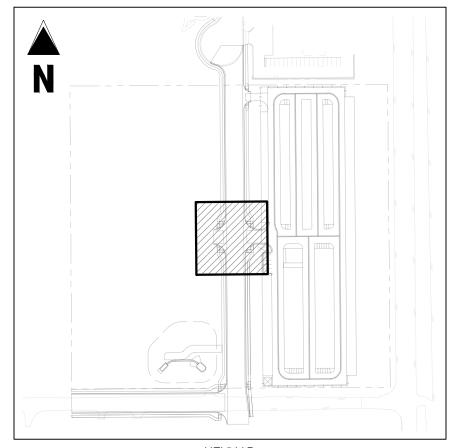
ST-B & ST-C (EAST) (NE) (STA: 0+75 - 1+54.27) SCALES: HORIZONTAL 1"=20', VERTICAL 1"=4'



ST-B & ST-C (WEST) (SW) (STA: 0+75 - 1+64.27) SCALES: HORIZONTAL 1"=20', VERTICAL 1"=4'



ST-B & ST-C (WEST) (NW) (STA: 0+75 - 1+64.27) SCALES: HORIZONTAL 1"=20', VERTICAL 1"=4'



KEYMAP SCALE: 1"=200'

DETAIL GRADING LEGEND	
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	ADJACENT PROPERTY BOUNDARY LINE
	RIGHT OF WAY BOUNDARY LINE
	PROPOSED LOT LINE
	PROPOSED EASEMENT LINE
	ROAD CENTERLINE
<b></b>	PROPOSED SWALE FLOWLINE
	PROPOSED CURB AND GUTTER
4	PROPOSED SIDEWALK
5465	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
2.00%	PROPOSED SLOPE - PERCENT
<del>4:1</del>	PROPOSED SLOPE - RISE/RUN
89.00 HP	PROPOSED SPOT ELEVATION - HIGH POINT
89.00 LP	PROPOSED SPOT ELEVATION - LOW POINT
89.00 TR	PROPOSED SPOT ELEVATION - TOP OF RAMP
89.00 BR	PROPOSED SPOT ELEVATION - BOTTOM OF RAMP
89.00 FL	PROPOSED SPOT ELEVATION - FLOW LINE
89.00 CL	PROPOSED SPOT ELEVATION - ROADWAY CENTER LINE
89.00 TBC	PROPOSED SPOT ELEVATION - TOP BACK OF CURB
89.00 LIP	PROPOSED SPOT ELEVATION - LIP OF GUTTER
89.00 FG	PROPOSED SPOT ELEVATION - FINISHED GRADE
89.00 SW	PROPOSED SPOT ELEVATION - SIDEWALK
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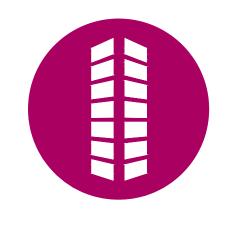
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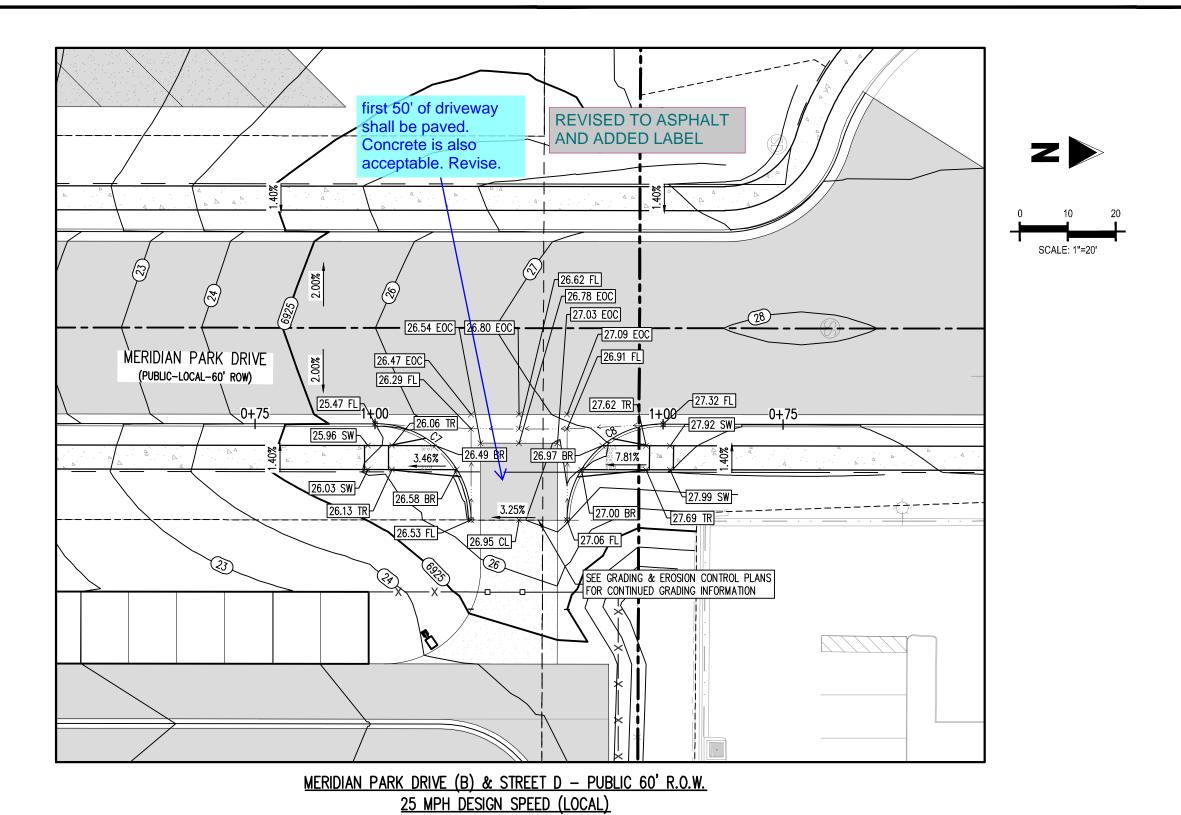
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# Date Issue / Description

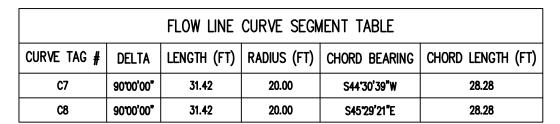
Project No: CMWJ Checked By: 10/20/2023

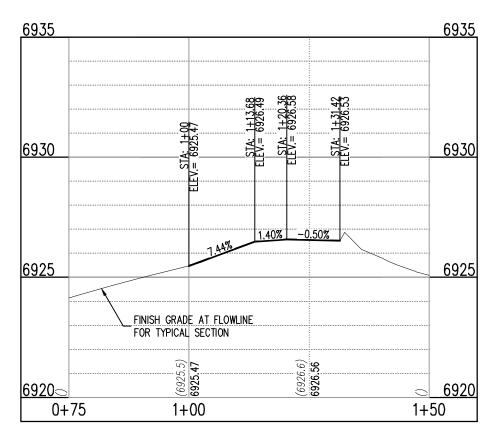
INTERSECTION DETAILS

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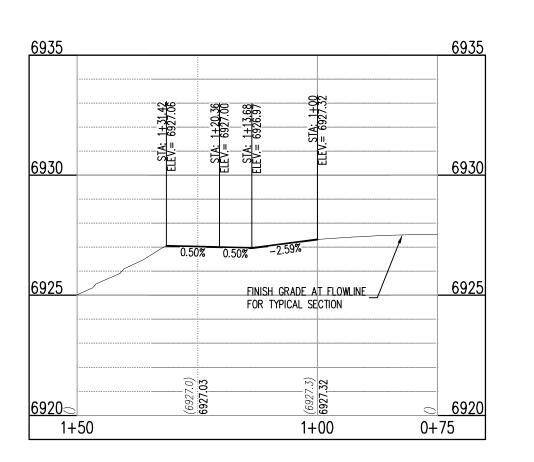


SCALE: 1"=20'

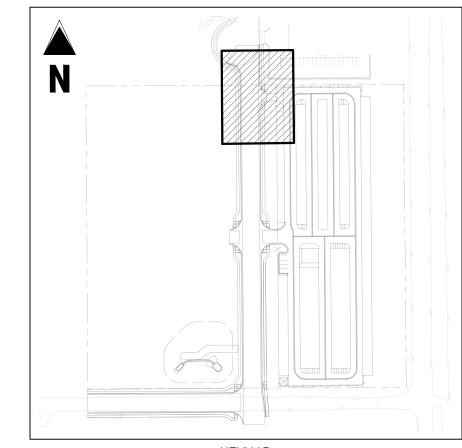




<u>ST-B & ST-D (STA: 0+75 - 1+48.56)</u> SCALES: HORIZONTAL 1"=20', VERTICAL 1"=6'



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KEYMAP SCALE: 1"=200'

UTILITY LEGEND PROPOSED WATER LINE = SD = - SD = - SD = EXISTING STORM SEWER SD SD SD PROPOSED STORM SEWER ——G———— PROPOSED GAS LINE EXISTING UNDERGROUND TELEPHONE EXISTING OVERHEAD ELECTRIC EXISTING FIBER OPTIC LINE EXISTING FIBER OPTIC STRUCTURES EXISTING TELEPHONE PEDESTAL EXISTING ELECTRIC TRANSFORMER EXISTING POWER POLE EXISTING STREET LIGHT PROPOSED STREET LIGHT PROPOSED WATER METER EXISTING WATER VALVE PROPOSED WATER VALVE EXISTING FIRE HYDRANT PROPOSED FIRE HYDRANT EXISTING STORM SEWER MANHOLE PROPOSED STORM SEWER MANHOLE EXISTING SANITARY SEWER MANHOLE PROPOSED SANITARY SEWER MANHOLE

	PROPERTY BOUNDARY LINE
	ADJACENT PROPERTY BOUNDARY LINE
	RIGHT OF WAY BOUNDARY LINE
	PROPOSED LOT LINE
	PROPOSED EASEMENT LINE
	ROAD CENTERLINE
<b></b>	PROPOSED SWALE FLOWLINE
	PROPOSED CURB AND GUTTER
4	PROPOSED SIDEWALK
5465	PROPOSED MAJOR CONTOUR
<u>66</u>	PROPOSED MINOR CONTOUR
2.00%	PROPOSED SLOPE - PERCENT
<del></del>	PROPOSED SLOPE - RISE/RUN
89.00 HP	PROPOSED SPOT ELEVATION - HIGH POINT
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# BENCHMARK

THE SOUTHWEST CORNER OF LOT 1 WODDMEN HILLS FILING NO. 4, MONUMENTED BY A NO. 4 REBAR WITH A YELLOW PLASTIC CAP STAMPED "PLS 24964" NAVD88 ELEVATION = 6947.67

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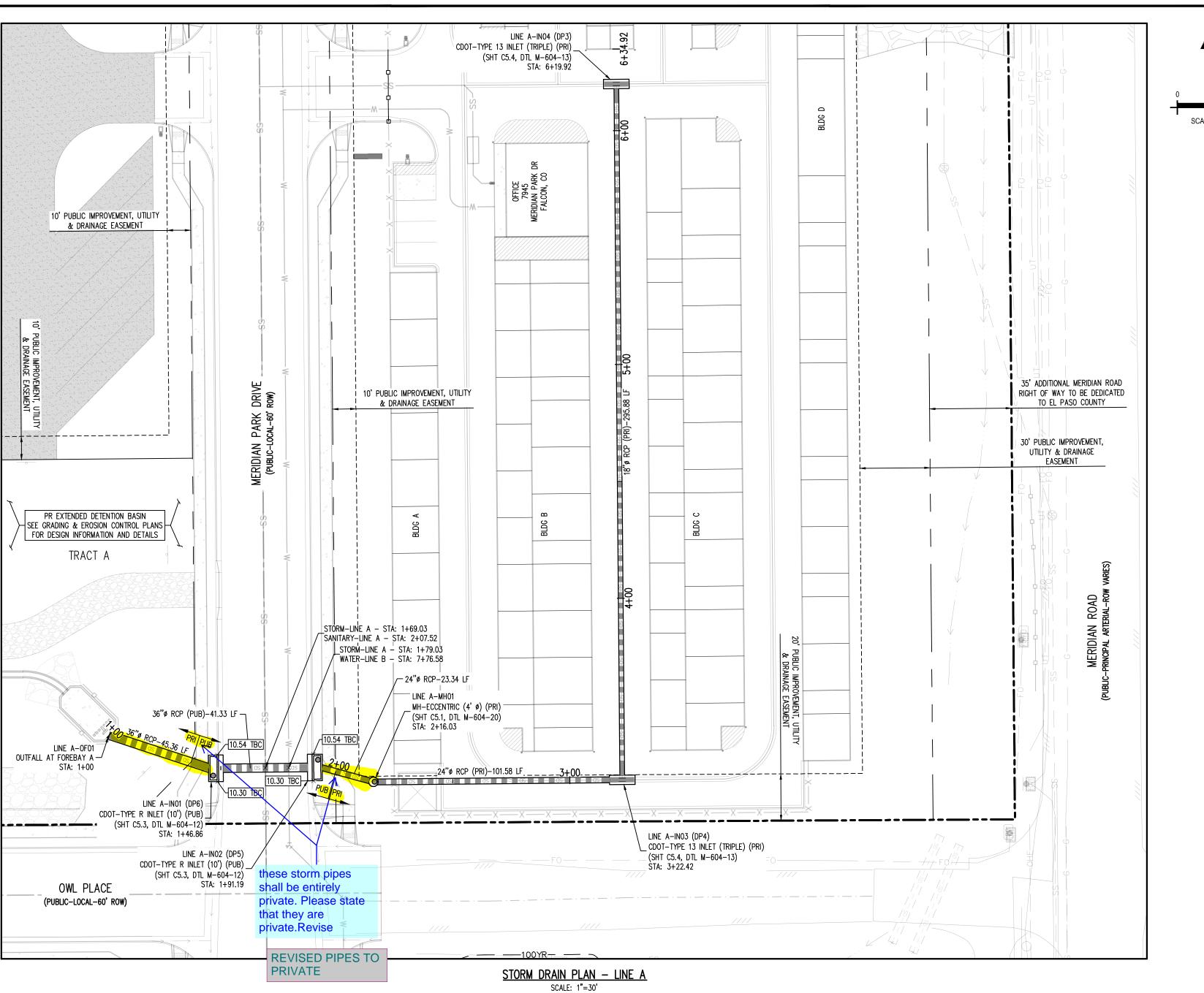


# Date Issue / Description

Project No: CMWJ Checked By: 10/20/2023

INTERSECTION DETAILS

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USE RUBBER GASKET OR JOINT SEALANT ON ALL CONCRETE PIPE JOINTS

\_\_\_\_ 100-YEAR ¬

24"ø RCP (PRI) 101.58 LF @ 1.25%

LINE A-MHOT MH-ECCENTRIC STA: 2+16.03 RIM= 6912.52 INV. IN= 6906. INV. OUT= 690 DEPTH= 6.18

2+00

36"ø RCP (PUB) - 41.33 LF @ 1.00%

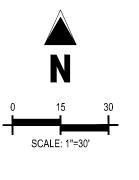
A-IN01 (D T-TYPE R I 1+46.86 FALL ELEV.= FALL ELEV.=

0+85 1+00

PROPOSED GRADE

3+00

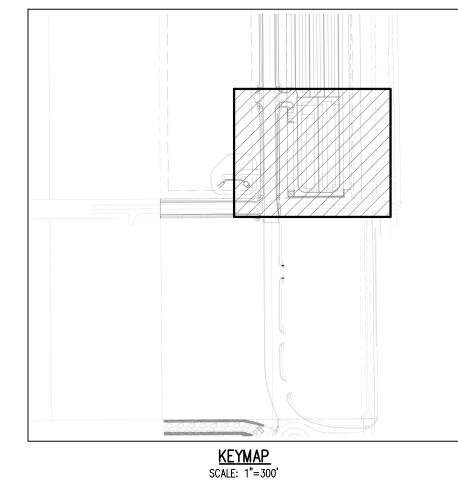
LINE A—INO3 (DP4)
CDOT—TYPE 13 INLET
STA: 3+22.42
RIM= 6912.81
INV. IN= 6908.21 (NINV. OUT= 6907.71 (DEPTH= 5.10'



LINE A-IN04 (DP3) CDOT-TYPE 13 INLE1 STA: 6+19.92 RIM= 6916.23 INV. OUT= 6911.91 (

6+80

6+00



UTILITY LEGEND	
	EXISTING WATER LINE
w	PROPOSED WATER LINE
SS	EXISTING SANITARY SEWER
SS	PROPOSED SANITARY SEWER
= s <u>D</u> = <u>-s</u> D = <u>-</u> <u>5</u> D = =	EXISTING STORM SEWER
SD	PROPOSED STORM SEWER
— — — G— — —	EXISTING GAS LINE
G	PROPOSED GAS LINE
— <del>UT</del> — —	EXISTING UNDERGROUND TELEPHONE
— — OHE — —	EXISTING OVERHEAD ELECTRIC
	EXISTING FIBER OPTIC LINE
(FO) FOVT	EXISTING FIBER OPTIC STRUCTURES
TL	EXISTING TELEPHONE PEDESTAL
TR	EXISTING ELECTRIC TRANSFORMER
<del>-\-</del>	EXISTING POWER POLE
\$	EXISTING STREET LIGHT
	PROPOSED STREET LIGHT
•	PROPOSED WATER METER
₩ <u></u>	EXISTING WATER VALVE
H	PROPOSED WATER VALVE
R	EXISTING FIRE HYDRANT
₩	PROPOSED FIRE HYDRANT
SD	EXISTING STORM SEWER MANHOLE
<b>(a)</b>	PROPOSED STORM SEWER MANHOLE
\$3	EXISTING SANITARY SEWER MANHOLE
	DDODOCED CANITADY CEWED MANITOLE

# SITE LEGEND

SITE LEGEND	
	PROJECT BOUNDARY LINE
	ADJACENT PROPERTY BOUNDARY LINE
	RIGHT OF WAY LINE
	EXISTING ADJACENT LOT LINE
	PROPOSED LOT LINE
	EXISTING EASEMENT LINE
	PROPOSED EASEMENT LINE
	PROPOSED ROAD CENTERLINE
	EXISTING ROAD CENTERLINE
	PROPOSED RIDGE LINE
	PROPOSED SWALE LINE
	EXISTING SWALE LINE
100YR-	FLOODPLAIN BOUNDARY
X	EXISTING FENCE
xxxx	PROPOSED FENCE
	EXISTING GUARDRAIL
	PROPOSED CURB AND GUTTER
	EXISTING CURB AND GUTTER
	EXISTING EDGE OF ASPHALT
, , , , , , , , , , , , , , , , , , ,	PROPOSED SIDEWALK
	PROPOSED TRAIL
	PROPOSED GRAVEL PER ECM TABLE D-7
	RIPRAP OUTFALL PADS
	EXISTING SIGN
	PROPOSED SIGN
•	PROPOSED BOLLARDS

# CALCULATIONS TO TOP OF PIPE (TOP) FOR REINFORCED CONCRETE PIPE (RCP) ASSUMES WALL THICKNESS AS SHOWN BELOW: WALL THICKNESS (INCHES) (INCHES) (INCHES)

PROPOSED SANITARY SEWER MANHOLE

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# CAUTION - NOTICE TO CONTRACTOR

ENGINEER PRIOR TO CONSTRUCTION.

1. ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIESTO THE Know what's below.

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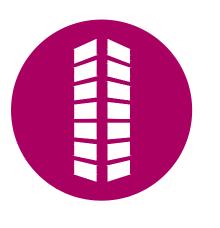
2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POTHOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.

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Colorado Springs, CO 80920

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# Date Issue / Description

CMWJ 10/20/2023

STORM DRAIN PLAN

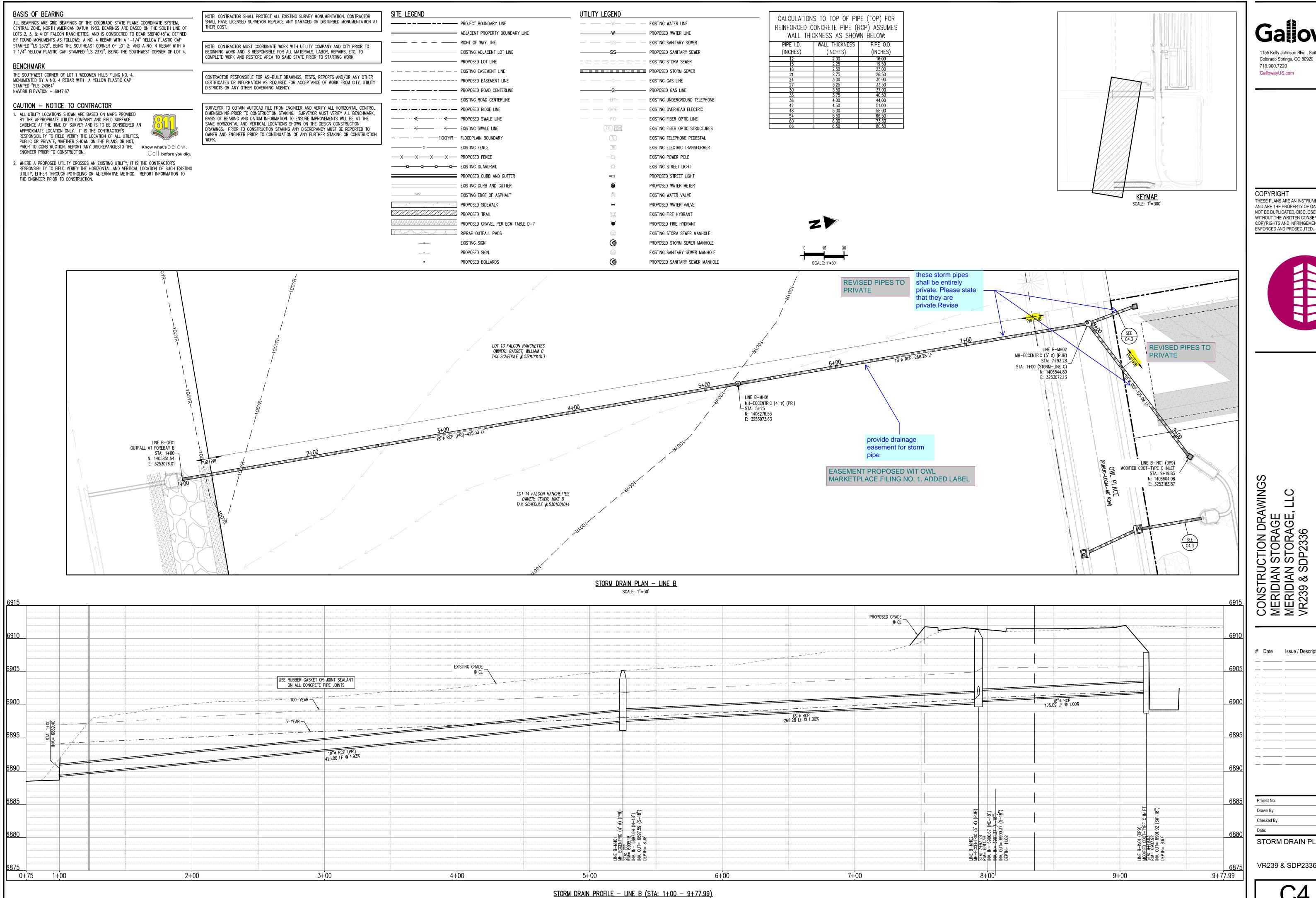
VR239 & SDP2336

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STORM DRAIN PROFILE - LINE A (STA: 0+85 - 6+58.84) SCALES: HORIZONTAL 1"=30', VERTICAL 1"=6'

EXISTING GRADE

18"ø RCP (PRI) 295.88 LF @ 1.25%



SCALES: HORIZONTAL 1"=30', VERTICAL 1"=6'

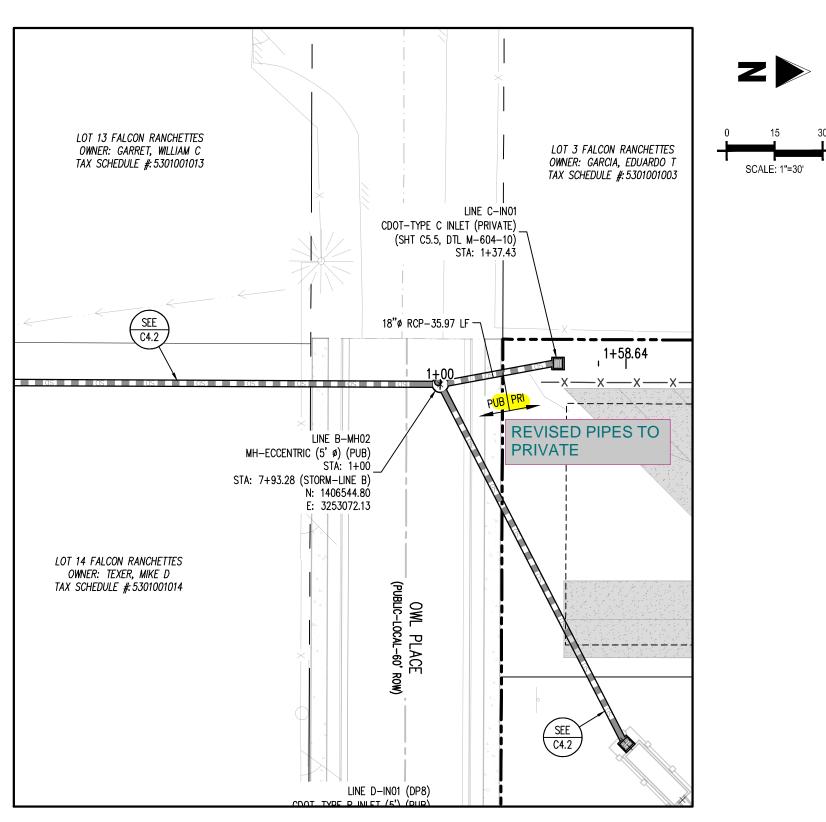
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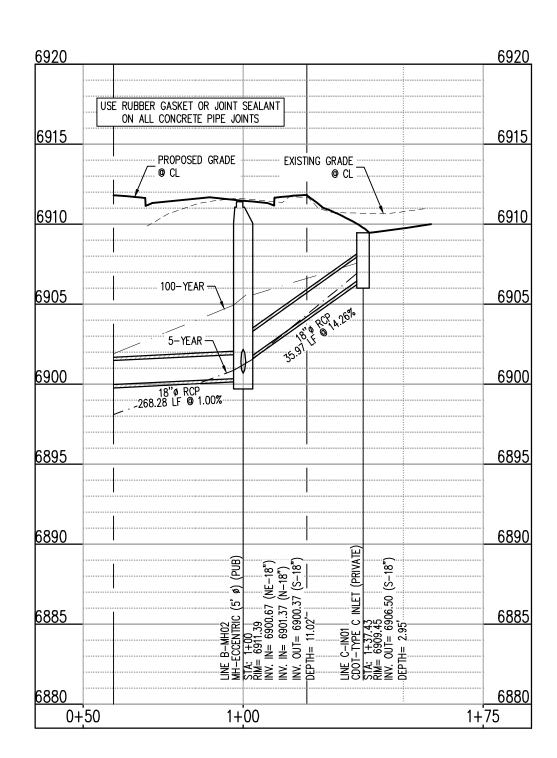


STORM DRAIN PLAN

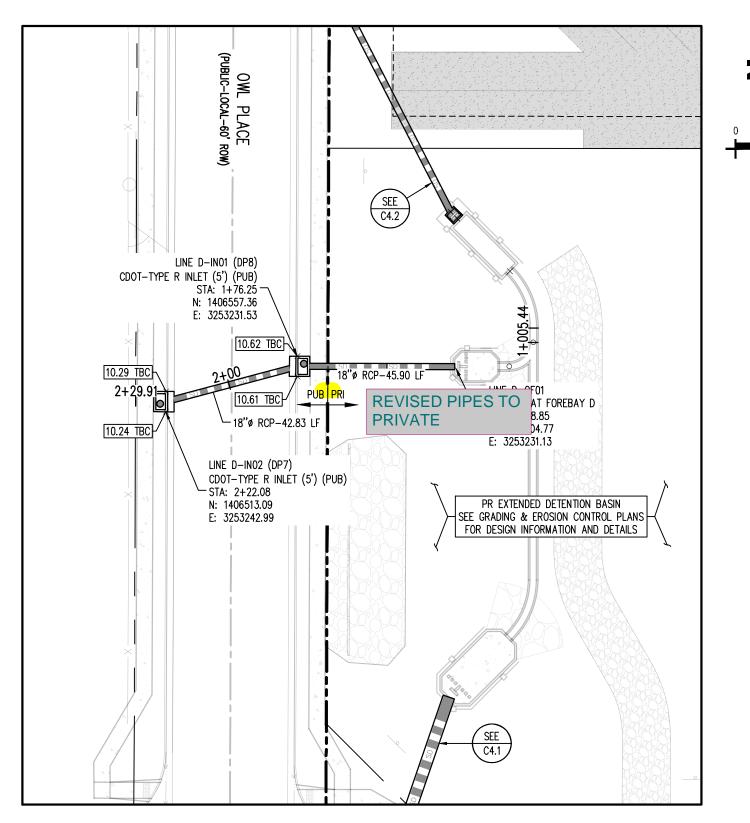
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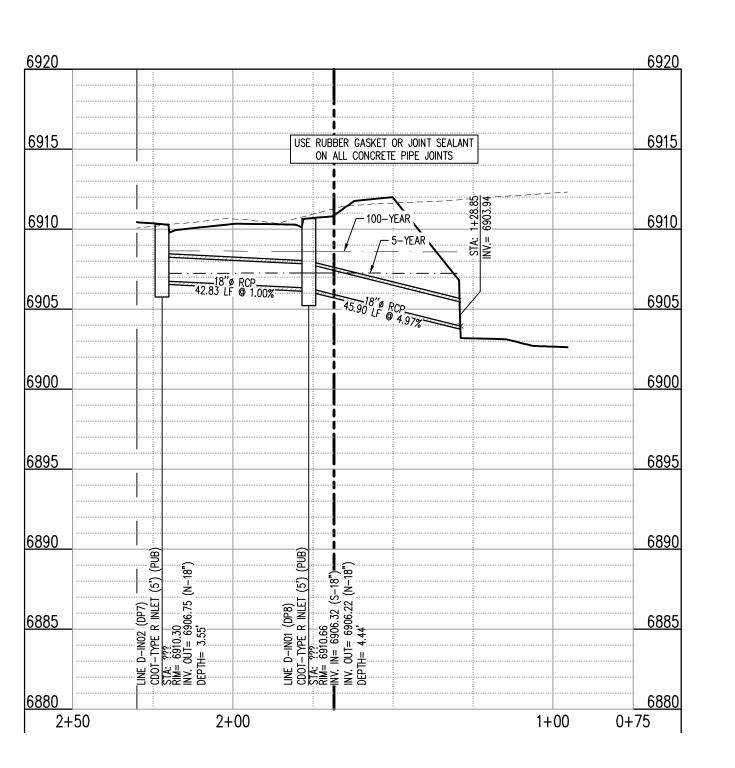
STORM DRAIN PLAN - LINE C SCALE: 1"=30'



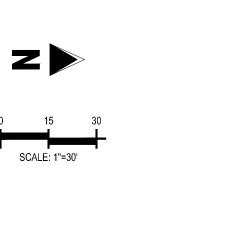
STORM DRAIN PROFILE - LINE C (STA: 0+50 - 1+75) SCALES: HORIZONTAL 1"=30', VERTICAL 1"=6'

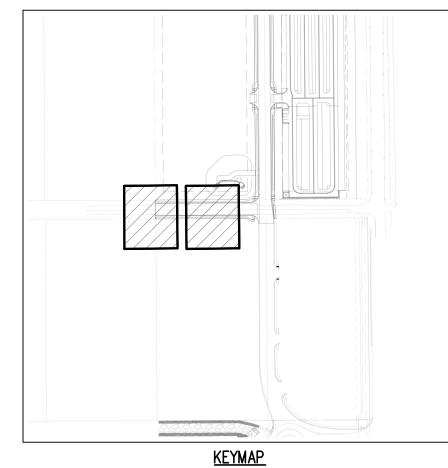


 $\underline{\mathsf{STORM}}\ \underline{\mathsf{DRAIN}}\ \underline{\mathsf{PLAN}}\ -\ \underline{\mathsf{LINE}}\ \underline{\mathsf{D}}$ SCALE: 1"=30'



STORM DRAIN PROFILE - LINE D (STA: 0+75 - 2+50) SCALES: HORIZONTAL 1"=30', VERTICAL 1"=6'





SCALE: 1"=300'

	PROJECT BOUNDARY LINE
	ADJACENT PROPERTY BOUNDARY LINE
	RIGHT OF WAY LINE
	EXISTING ADJACENT LOT LINE
	PROPOSED LOT LINE
	EXISTING EASEMENT LINE
	PROPOSED EASEMENT LINE
	PROPOSED ROAD CENTERLINE
	EXISTING ROAD CENTERLINE
	PROPOSED RIDGE LINE
—···←	PROPOSED SWALE LINE
	EXISTING SWALE LINE
100YR-	FLOODPLAIN BOUNDARY
X	EXISTING FENCE
-x-x-x-x-	PROPOSED FENCE
	EXISTING GUARDRAIL
	PROPOSED CURB AND GUTTER
	EXISTING CURB AND GUTTER
	EXISTING EDGE OF ASPHALT
	PROPOSED SIDEWALK
	PROPOSED TRAIL
	PROPOSED GRAVEL PER ECM TABLE D-7
	RIPRAP OUTFALL PADS
	EXISTING SIGN
	PROPOSED SIGN

•	PROPOSED	BOLLARDS	
CALCULATIONS TO TOP OF PIPE (TOP) FOR REINFORCED CONCRETE PIPE (RCP) ASSUMES WALL THICKNESS AS SHOWN BELOW:			
PIPE I.D.	WALL THICKNESS	PIPE O.D.	
(INCHES)	(INCHES)	(INCHES)	
12	2.00	16.00	
15	2.25	19.50	
18	2.50	23.00	
21	2.75	26.50	
24	3.00	30.00	
27	3.25	33.50	
30	3.50	37.00	
33	3.75	40.50	
36	4.00	44.00	
42	4.50	51.00	
48	5.00	58.00	
54	5.50	66.50	
60	6.00	73.50	
66	6.50	80.50	

NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT

NOTE: CONTRACTOR MUST COORDINATE WORK WITH UTILITY COMPANY AND CITY PRIOR TO BEGINNING WORK AND IS RESPONSIBLE FOR ALL MATERIALS, LABOR, REPAIRS, ETC. TO COMPLETE WORK AND RESTORE AREA TO SAME STATE PRIOR TO STARTING WORK.

CONTRACTOR RESPONSIBLE FOR AS-BUILT DRAWINGS, TESTS, REPORTS AND/OR ANY OTHER CERTIFICATES OR INFORMATION AS REQUIRED FOR ACCEPTANCE OF WORK FROM CITY, UTILITY DISTRICTS OR ANY OTHER GOVERNING AGENCY.

SURVEYOR TO OBTAIN AUTOCAD FILE FROM ENGINEER AND VERIFY ALL HORIZONTAL CONTROL DIMENSIONING PRIOR TO CONSTRUCTION STAKING. SURVEYOR MUST VERIFY ALL BENCHMARK, BASIS OF BEARING AND DATUM INFORMATION TO ENSURE IMPROVEMENTS WILL BE AT THE SAME HORIZONTAL AND VERTICAL LOCATIONS SHOWN ON THE DESIGN CONSTRUCTION DRAWINGS. PRIOR TO CONSTRUCTION STAKING ANY DISCREPANCY MUST BE REPORTED TO OWNER AND ENGINEER PRIOR TO CONTINUATION OF ANY FURTHER STAKING OR CONSTRUCTION

# BASIS OF BEARING

ALL BEARINGS ARE GRID BEARINGS OF THE COLORADO STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983. BEARINGS ARE BASED ON THE SOUTH LINE OF LOTS 2, 3, & 4 OF FALCON RANCHETTES, AND IS CONSIDERED TO BEAR S89'40'45"W. DEFINED BY FOUND MONUMENTS AS FOLLOWS: A NO. 4 REBAR WITH A 1-1/4" YELLOW PLASTIC CAP STAMPED "LS 2372", BEING THE SOUTHEAST CORNER OF LOT 2; AND A NO. 4 REBAR WITH A 1-1/4" YELLOW PLASTIC CAP STAMPED "LS 2372", BEING THE SOUTHWEST CORNER OF LOT 4.

# BENCHMARK

THE SOUTHWEST CORNER OF LOT 1 WODDMEN HILLS FILING NO. 4, MONUMENTED BY A NO. 4 REBAR WITH A YELLOW PLASTIC CAP STAMPED "PLS 24964" NAVD88 ELEVATION = 6947.67

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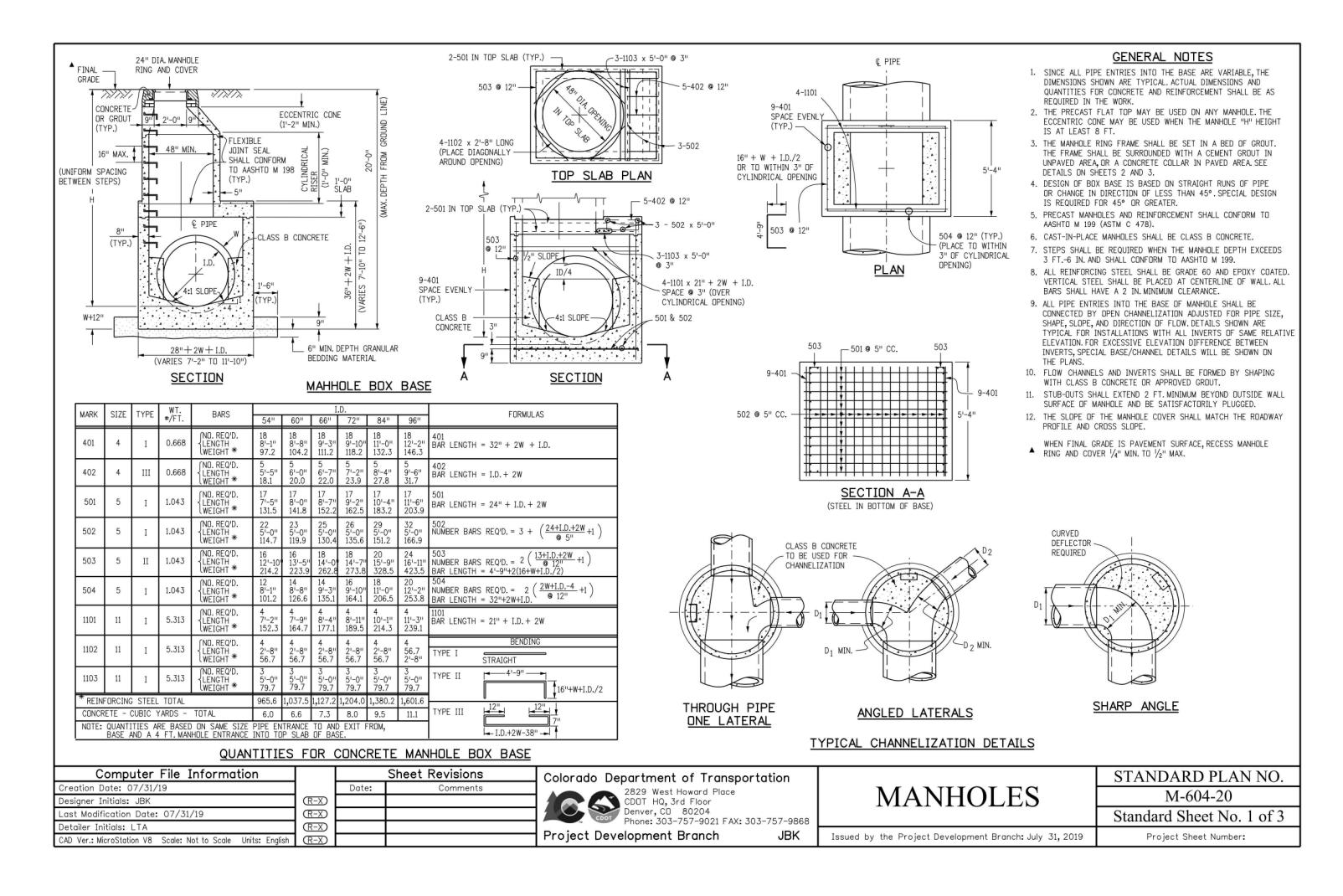
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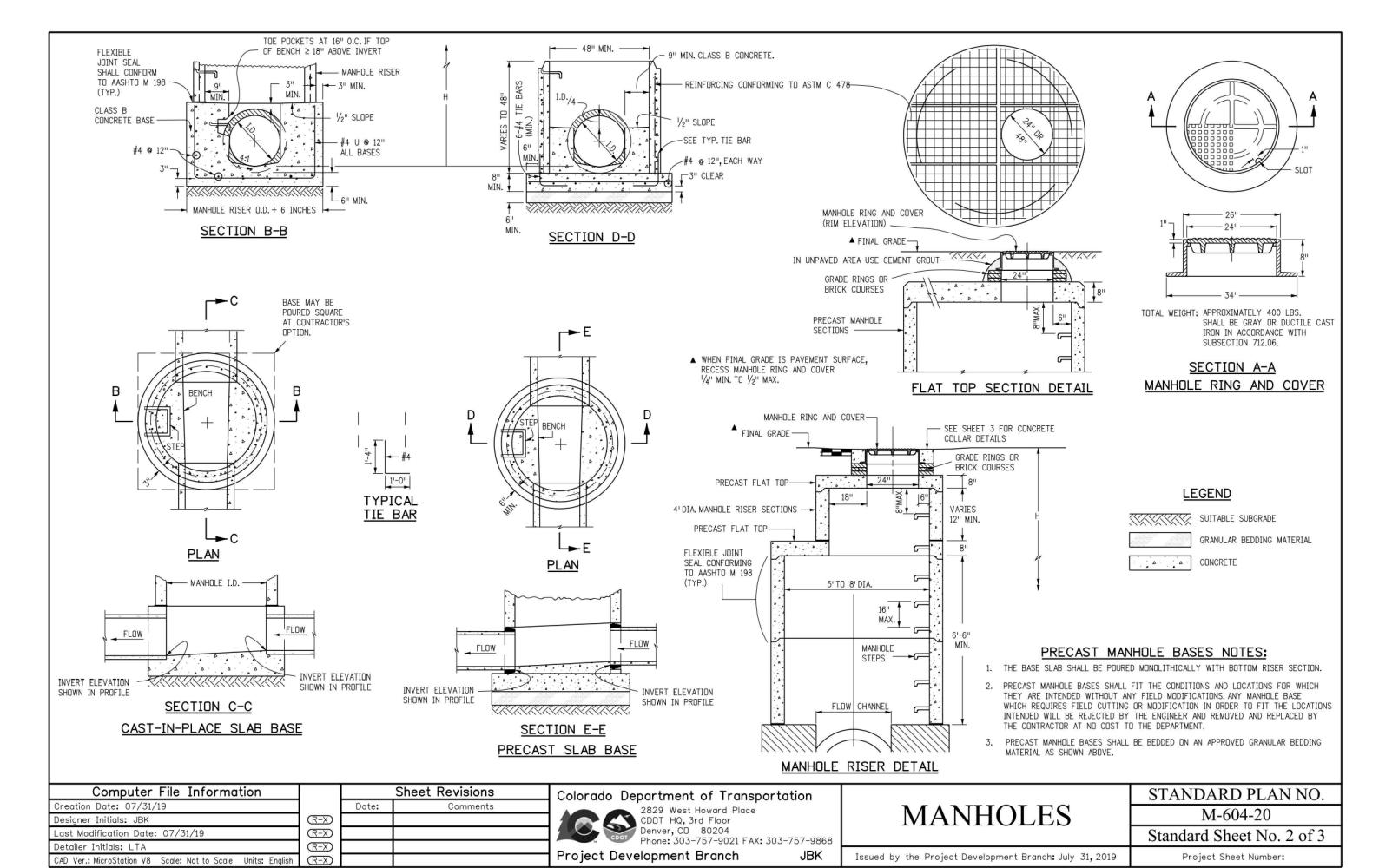
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STORM DRAIN PLAN

VR239 & SDP2336

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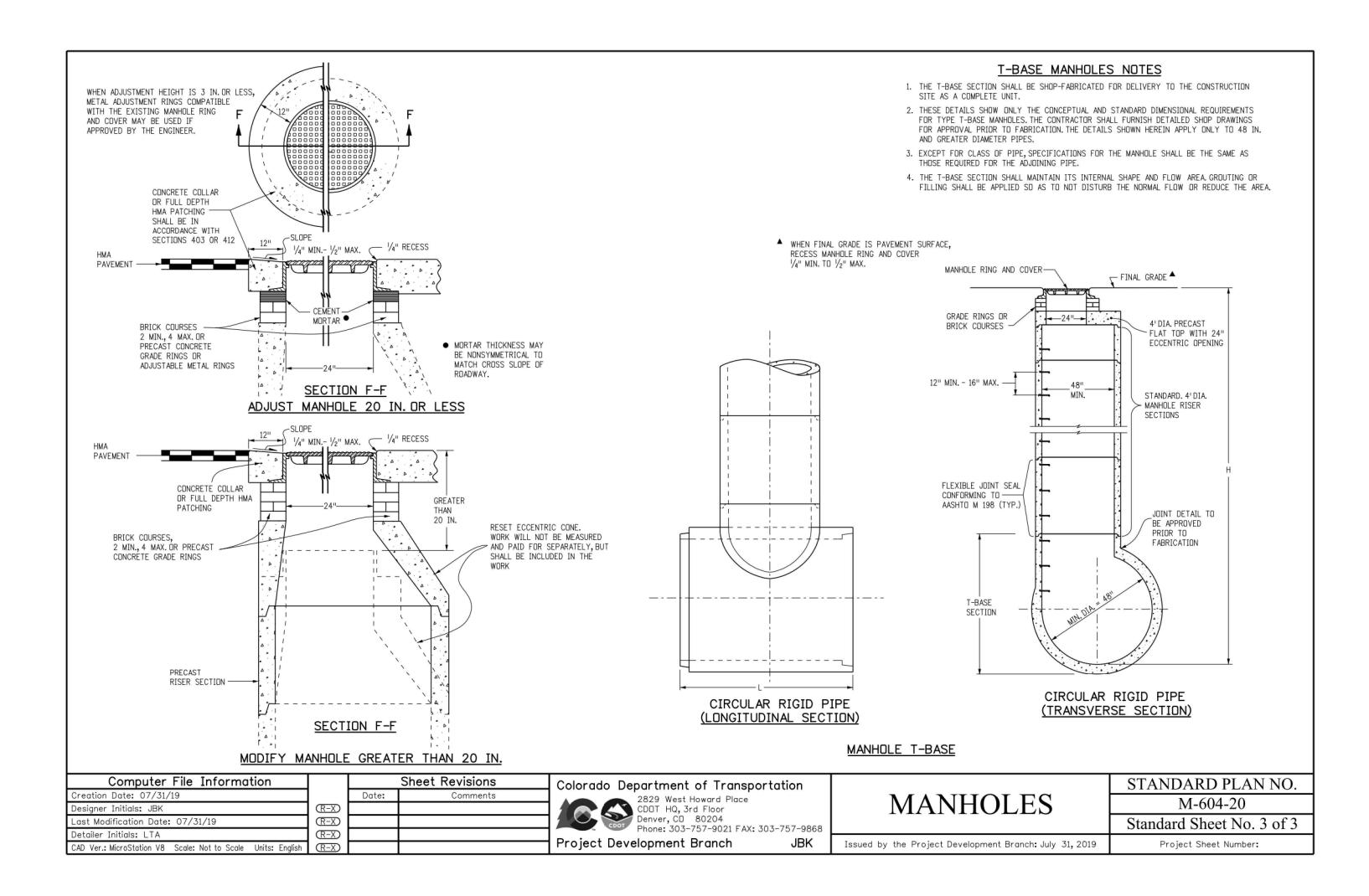
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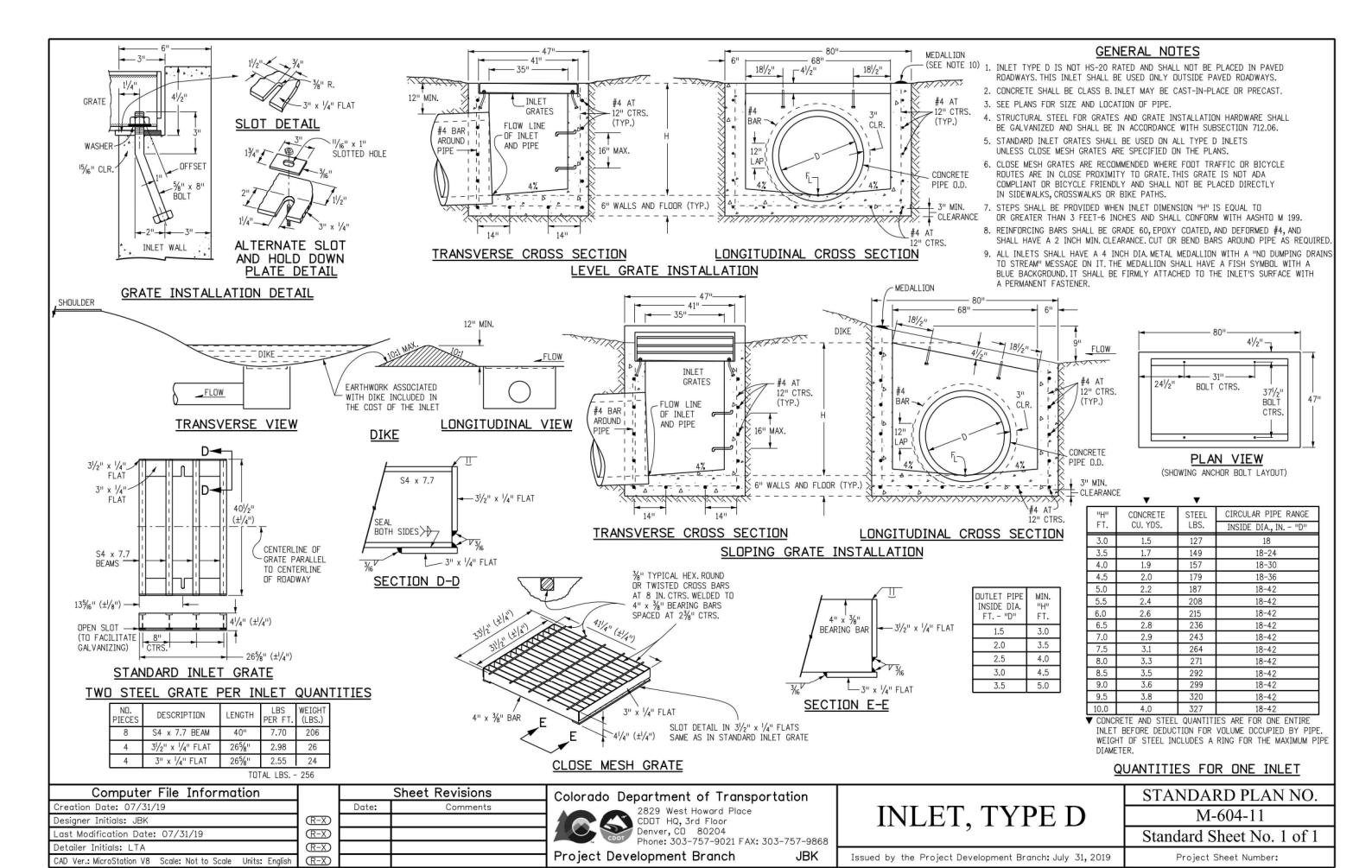
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STORM DRAIN DETAILS

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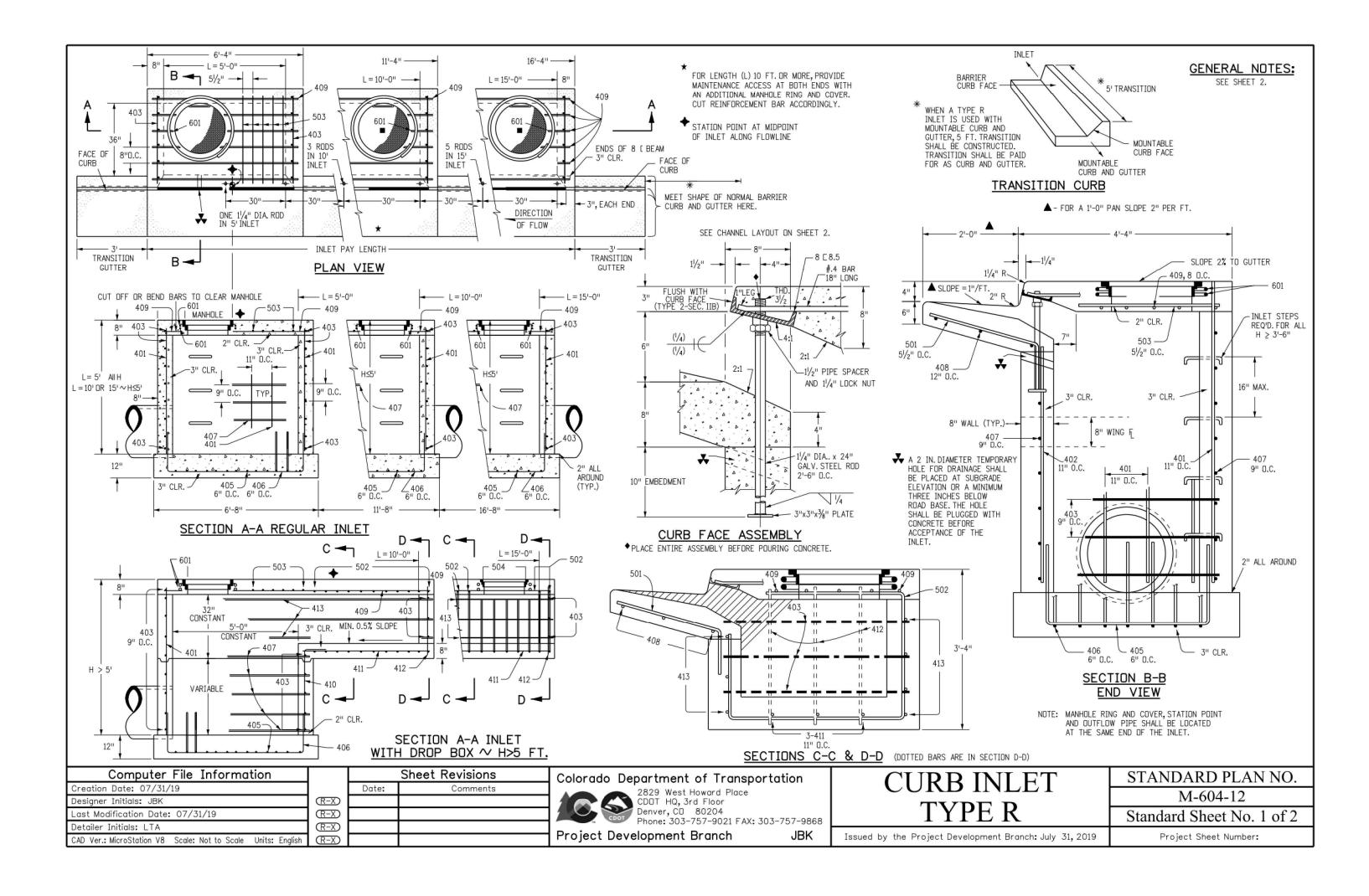
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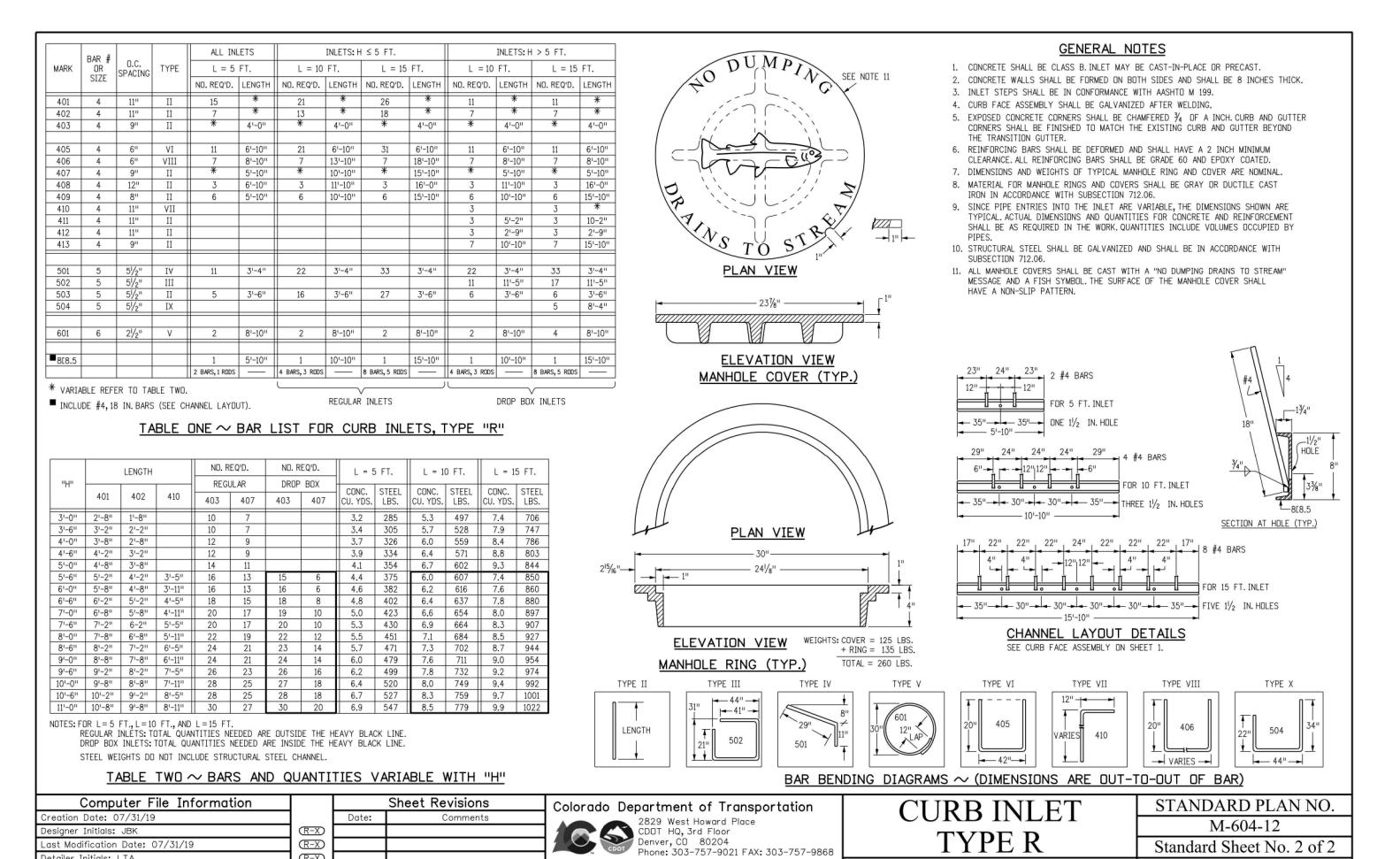
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necked By: CMWJ
ate: 10/20/2023

STORM DRAIN DETAILS

VR239 & SDP2336

C5.2
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Project Development Branch

CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English R-X

JBK

Issued by the Project Development Branch: July 31, 2019

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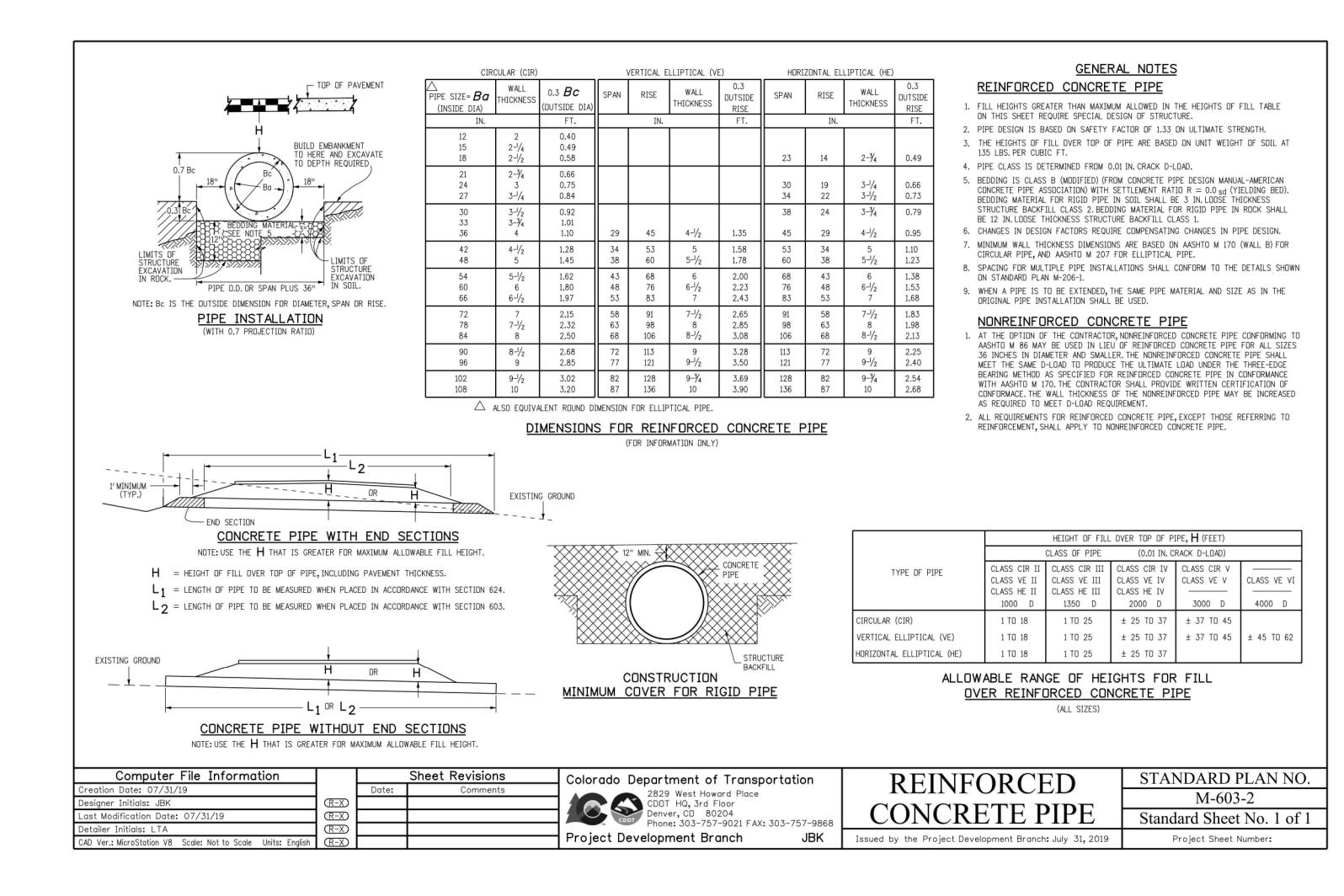
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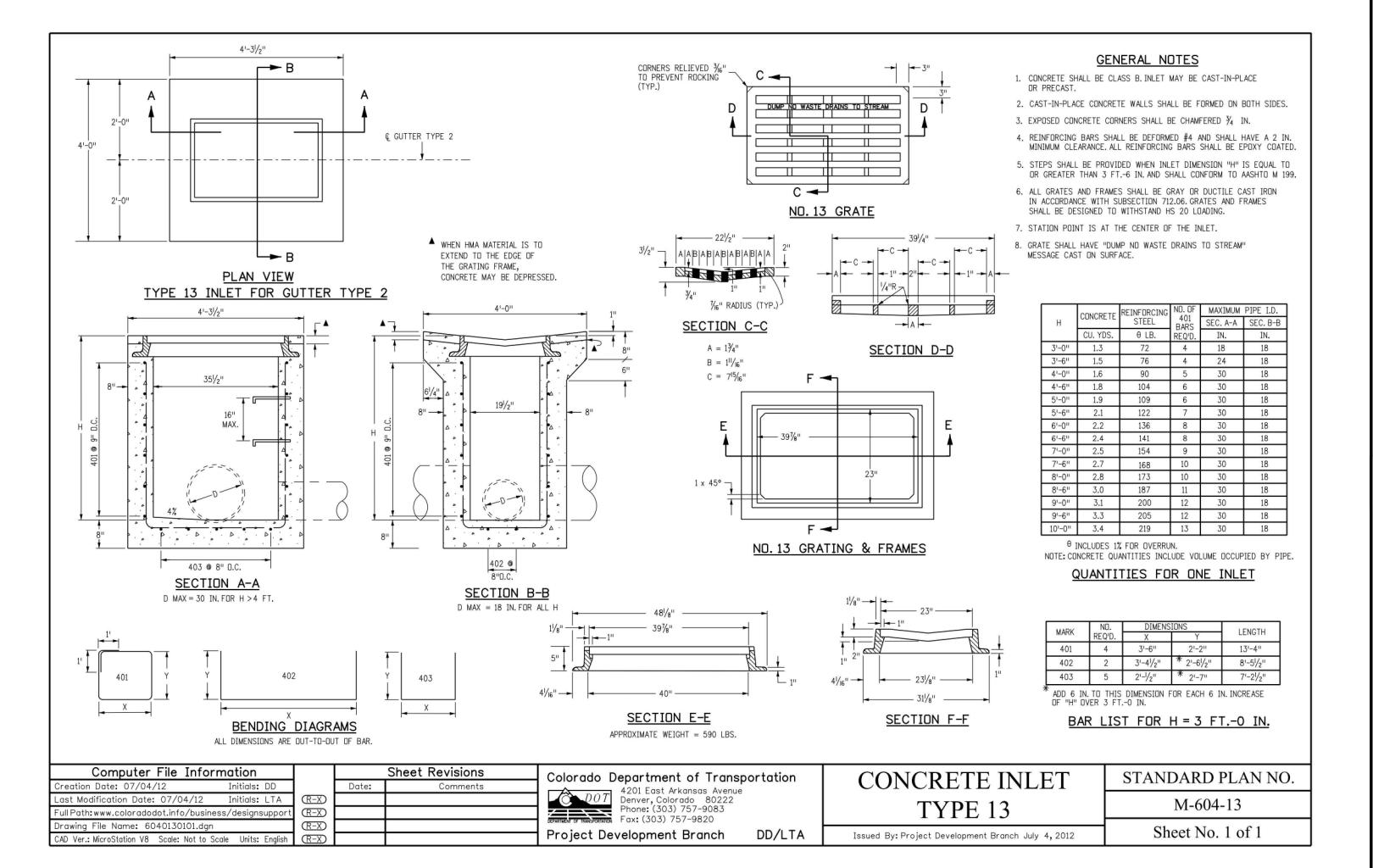
STORM DRAIN DETAILS

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Project Sheet Number:

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IDIAN ROAD & OWL PLACE

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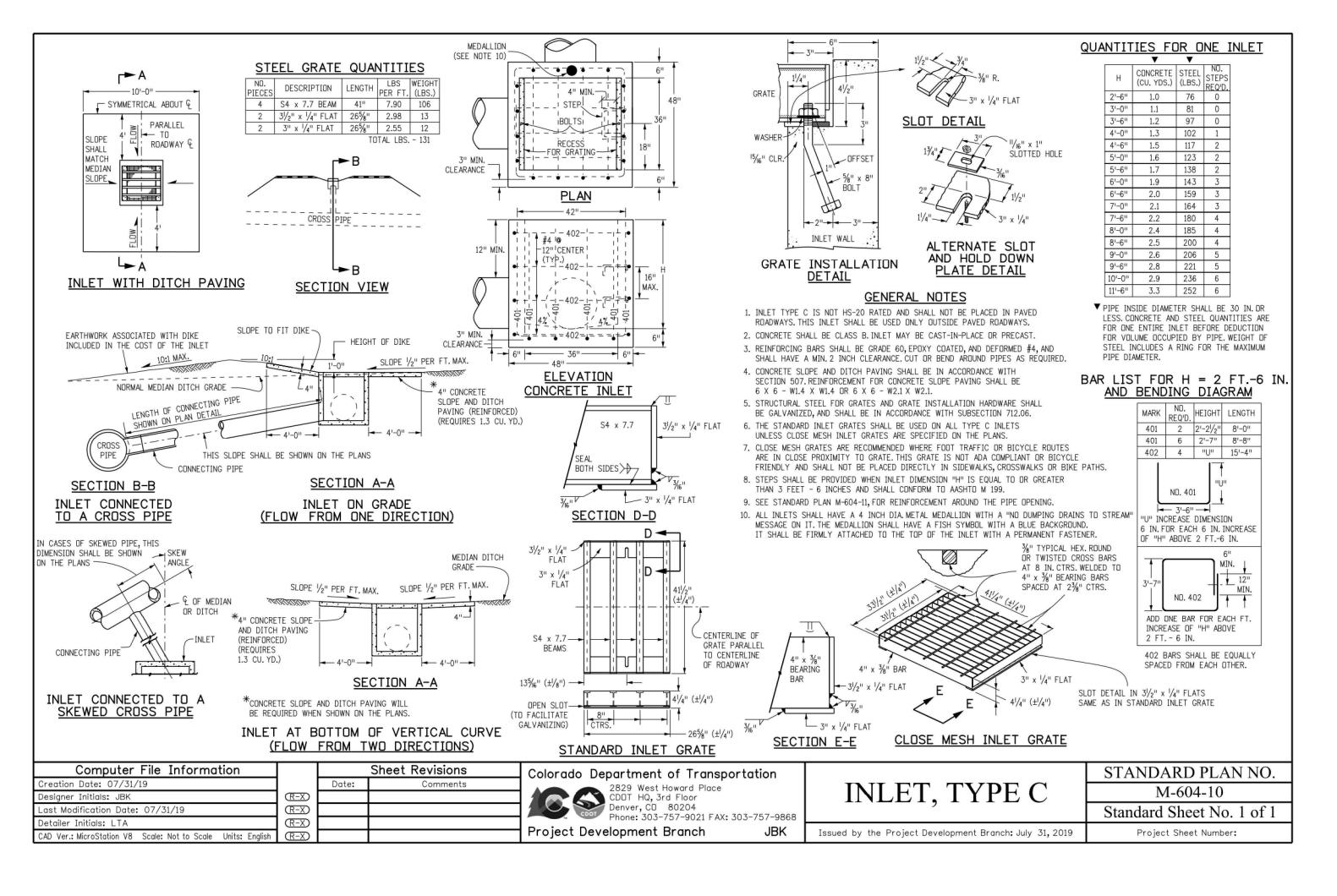
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STORM DRAIN DETAILS

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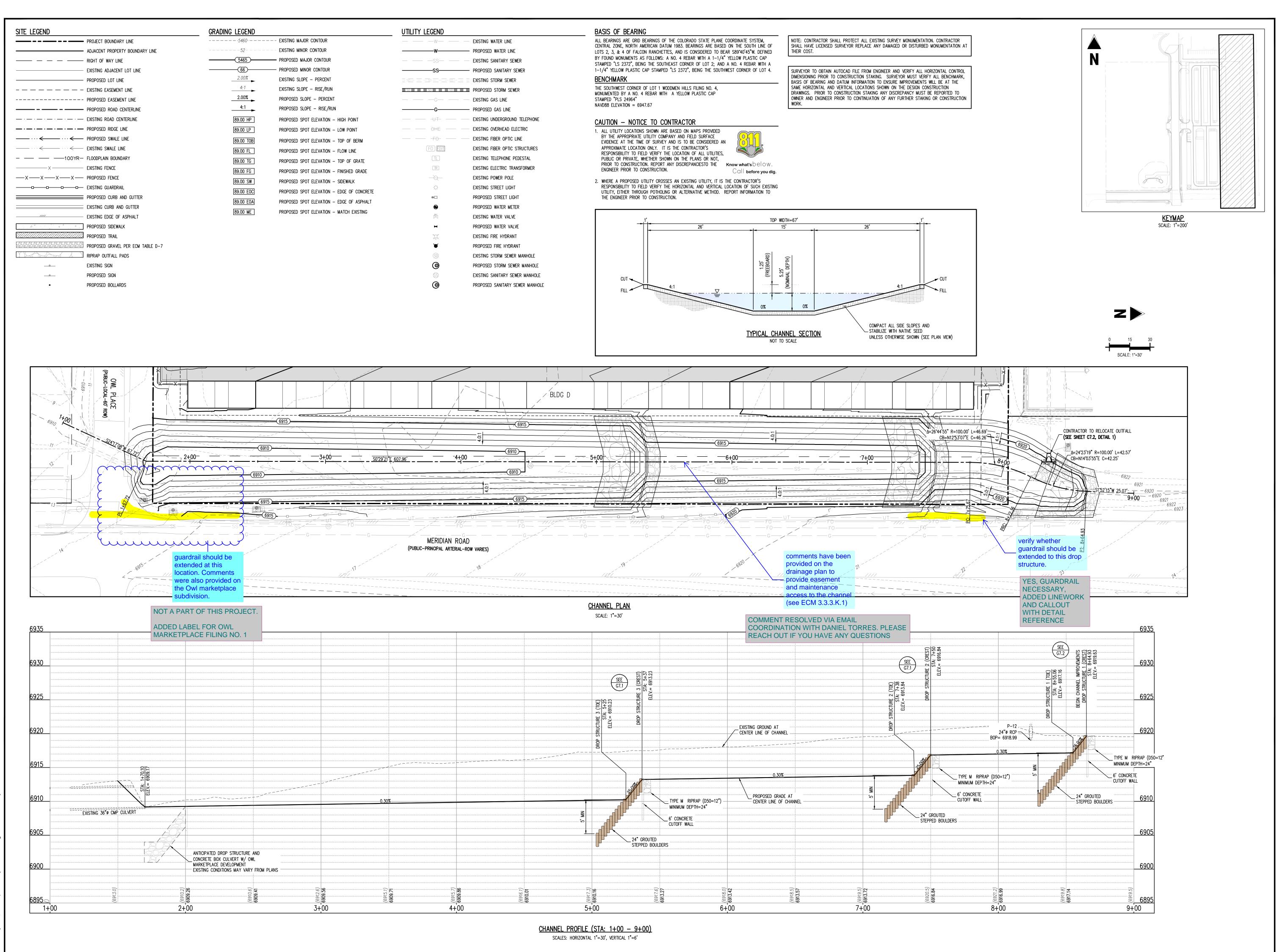
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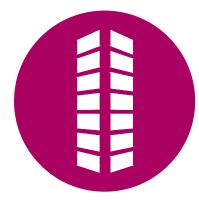
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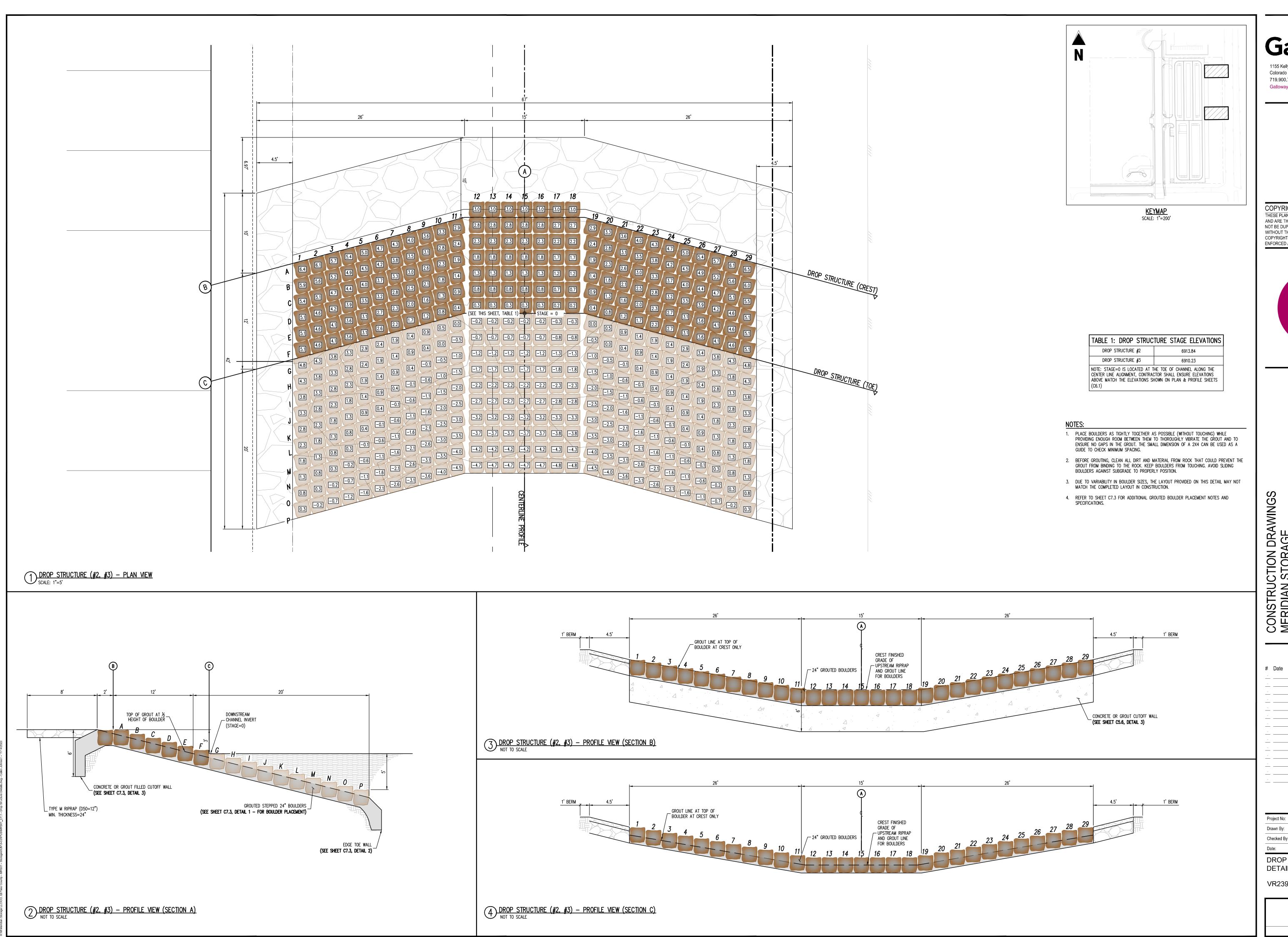
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CHANNEL PLAN & PROFILE



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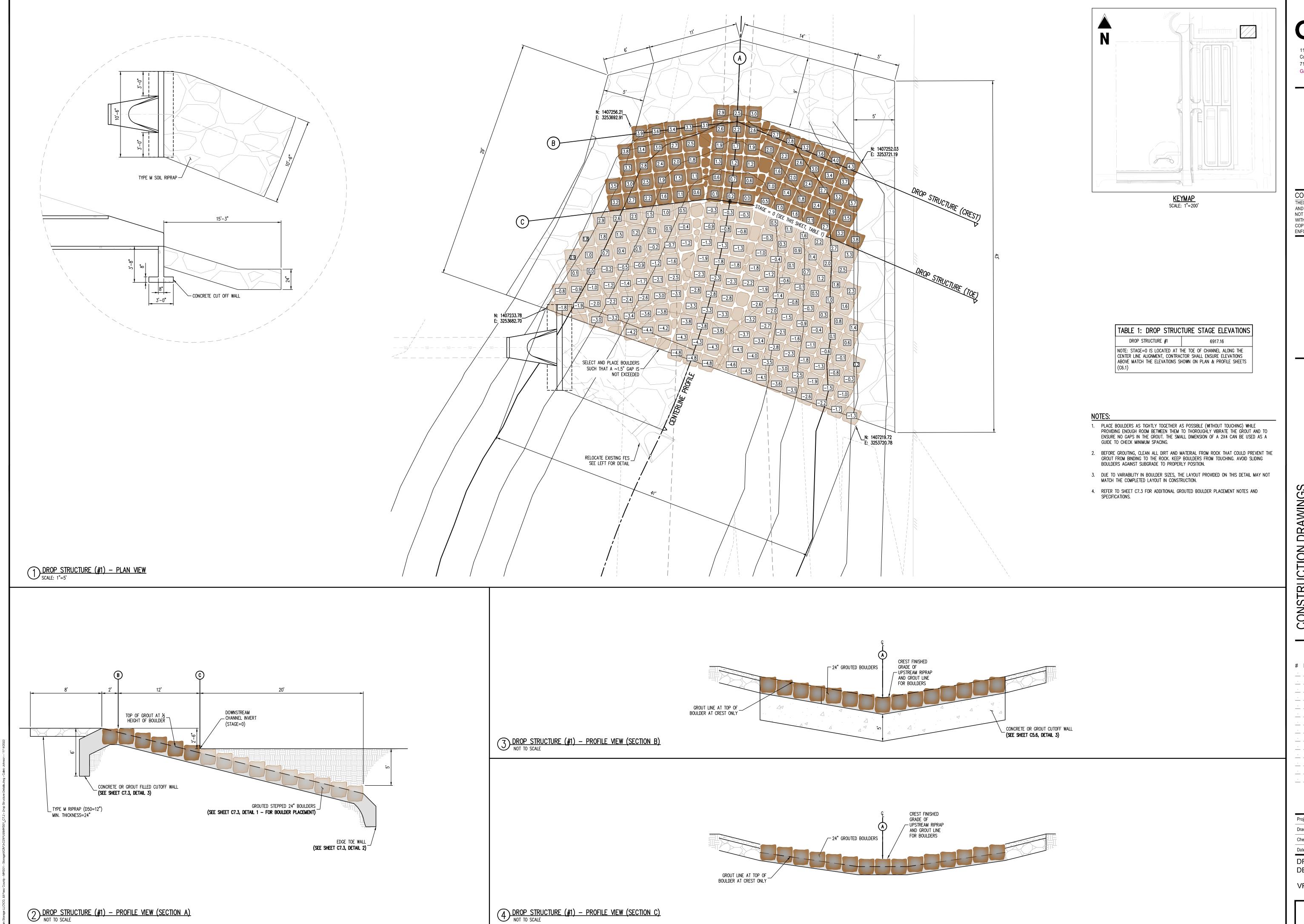


Project No:	MRS01
)rawn By:	JDM
Checked By:	CMWJ
Date:	10/20/2023

DROP STRUCTURE 2 & 3 **DETAILS** 

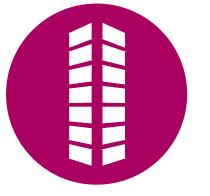
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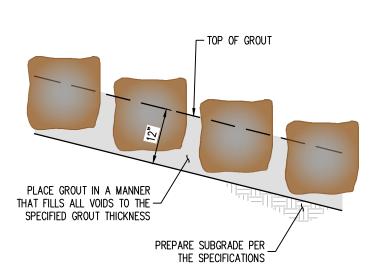


10/20/2023

DROP STRUCTURE 1
DETAILS

VR239 & SDP2336

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#### **BOULDER PLACEMENT NOTES:**

PLACE BOULDERS WITH THE REQUIRED BOULDER HEIGHT VERTICAL. PLACE BOULDERS AS TIGHTLY TOGETHER AS POSSIBLE (WITHOUT TOUCHING) WHILE PROVIDING ENOUGH ROOM BETWEEN THEM TO THOROUGHLY VIBRATE THE GROUT AND TO ENSURE NO GAPS IN THE GROUT. THE SMALL DIMENSION OF A 2X4 CAN BE USED AS A GUIDE TO CHECK MINIMUM

2. BEFORE GROUTING, CLEAN ALL DIRT AND MATERIAL FROM ROCK THAT COULD PREVENT THE GROUT FROM BINDING TO THE ROCK. KEEP BOULDERS FROM TOUCHING. AVOID SLIDING BOULDERS AGAINST SUBGRADE TO PROPERLY POSITION.

#### MATERIAL SPECIFICATIONS:

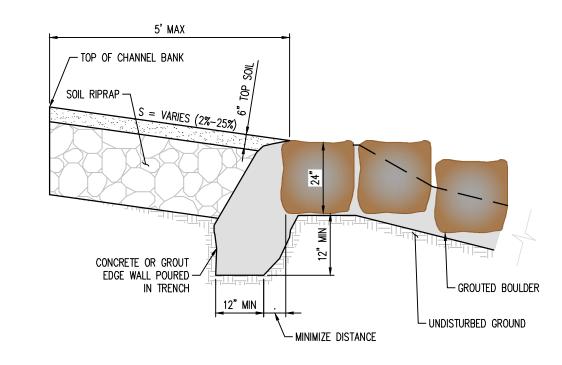
1. ALL GROUT SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH EQUAL TO 3200 PSI.

- 2. ONE CUBIC YARD OF GROUT SHALL HAVE A MINIMUM OF SIX (6) SACKS OF TYPE II PORTLAND CEMENT.
- 3. A MAXIMUM OF 25% TYPE F FLY ASH MAY BE SUBSTITUTED FOR THE PORTLAND CEMENT. 4. THE AGGREGATE SHALL BE COMPRISED OF 70% NATURAL SAND (FINES) AND 30% 3/8" ROCK
- 5. THE GROUT SLUMP SHALL BE BETWEEN 4-INCHES TO 6-INCHES.
- 6. AIR ENTRAINMENT SHALL BE BETWEEN 5.5% AND 7.5%.
- 7. TO CONTROL SHRINKAGE AND CRACKING. 1.5 POUNDS OF FIBERMESH, OR EQUIVALENT, SHALL BE USED PER CUBIC YARD OF GROUT.
- 8. COLOR ADDITIVE IN REQUIRED AMOUNTS SHALL BE USED WHEN SO SPECIFIED BY

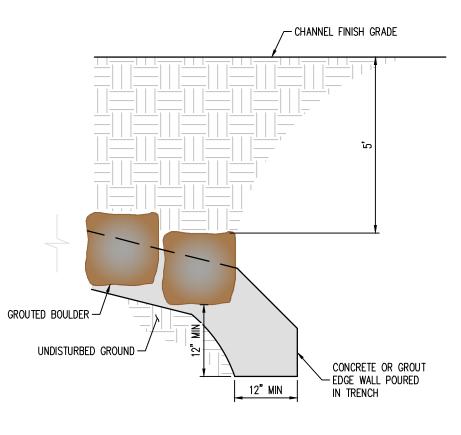
# GROUT PLACEMENT SPECIFICATIONS:

1. SPECIAL PROCEDURES SHALL BE REQUIRED FOR GROUT PLACEMENT WHEN THE AIR TEMPERATURES ARE LESS THAN 40°F OR GREATER THAN 90°F. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FROM THE DESIGN ENGINEER OF THE PROCEDURES TO BE USED FOR PROTECTING THE GROUT.

- 2. GROUT SHALL BE DELIVERED BY MEANS OF A LOW PRESSURE (LESS THAN 10 PSI) GROUT PUMP USING A 2-INCH DIAMETER (MAXIMUM) NOZZLE.
- 3. FULL DEPTH PENETRATION OF THE GROUT INTO THE BOULDER VOIDS SHALL BE ACHIEVED BY INJECTING GROUT STARTING WITH THE NOZZLE NEAR THE BOTTOM AND RAISING IT AS THE ROUT FILLS, WHILE VIBRATING GROUT INTO PLACE USING A PENCIL VIBRATOR
- 4. ALL GROUT BETWEEN BOULDERS SHALL BE TREATED WITH A BROOM FINISH.
- 5. AFTER GROUT PLACEMENT, EXPOSED BOULDER FACES SHALL BE CLEANED AND FREE OF
- 6. ALL FINISHED GROUT SURFACES SHALL BE SPRAYED WITH A CLEAR LIQUID MEMBRANE CURING COMPOUND AS SPECIFIED IN ASTM C309



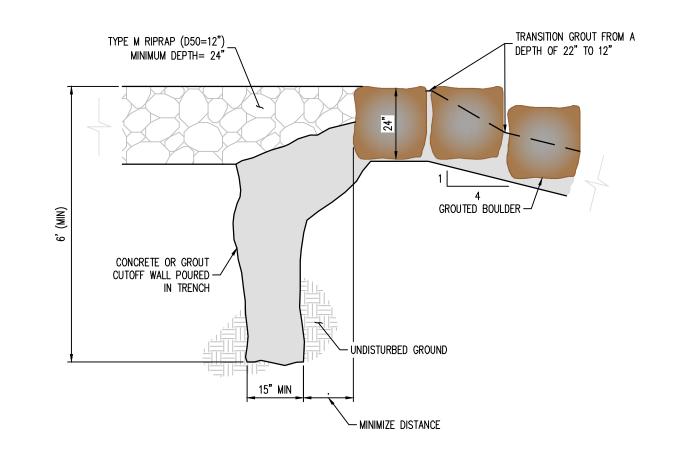
### EDGE SIDE WALL DETAIL



EDGE TOE WALL DETAIL

POSE WALL DETAIL

NOT TO SCALE



CUT-OFF WALL DETAIL

NOT TO SCALE

#### SOIL RIPRAP SPECIFICATIONS:

- 1. CONTRACTOR SHALL EXCAVATE AREAS TO RECEIVE SOIL RIPRAP TO THE SPECIFIED DEPTH. 2. SUBGRADE SHOULD BE COMPACTED TO NINETY-FIVE PERCENT (95%) MAXIMUM DENSITY
- 3. NO BEDDING MATERIAL IS REQUIRED FOR SOIL RIPRAP.
- 4. RIPRAP SHALL BE PLACED ON THE PREPARED SLOPE OR CHANNEL BOTTOM AREAS IN A MANNER WHICH WILL PRODUCE A REASONABLY WELL GRADED MASS OF STONE WITH THE MINIMUM PRACTICABLE PERCENTAGE OF VOIDS.
- 5. RIPRAP SHALL BE MACHINE PLACED.
- 6. IT IS THE INTENT OF THESE SPECIFICATIONS TO PRODUCE A FAIRLY COMPACT RIPRAP PROTECTION IN WHICH ALL SIZES OF MATERIAL ARE PLACED IN THEIR PROPER PROPORTIONS.
- 7. WHEN RIPRAP IS PLACED ON SLOPE, PLACEMENT SHALL COMMENCE AT THE BOTTOM OF THE SLOPE WORKING UP THE SLOPE.
- 8. ALL MATERIAL USED FOR RIPRAP PROTECTION FOR CHANNEL SLOPE OR BOTTOM SHALL BE PLACED AND DISTRIBUTED SUCH THAT THERE SHALL BE NO LARGE ACCUMULATIONS OF EITHER THE LARGER OR SMALLER SIZES OF STONE. SOME HAND PLACEMENT MAY BE REQUIRED TO ACHIEVE THIS DISTRIBUTION.
- 9. SMALLER ROCK SHALL BE SECURELY LOCKED BETWEEN THE LARGER STONE. IT IS ESSENTIAL THAT THE MATERIAL BETWEEN THE LARGER STONES NOT BE LOOSE OR EASILY
- 10. THE SOIL MATERIAL SHALL BE NATIVE OR TOPSOIL AND MIXED WITH SIXTY-FIVE PERCENT (65%) RIPRAP AND THIRTY-FIVE PERCENT (35%) SOIL BY VOLUME.
- 11. SOIL RIPRAP SHALL CONSIST OF A UNIFORM MIXTURE OF SOIL AND RIPRAP WITHOUT VOIDS.
- 12. SOIL RIPRAP SHALL BE FREE OF BRUSH, TREES, STUMPS, AND OTHER OBJECTIONABLE MATERIAL AND BE GRADED TO A SMOOTH COMPACTED SURFACE.
- 13. MIXING OF SOIL AND RIPRAP SHOULD BE DONE AT THE STOCKPILE LOCATION, NOT AT THE LOCATION WHERE SOIL RIPRAP IS TO BE PLACED.
- 14. MIX THIRTY-FIVE PERCENT (35%) SOIL BY VOLUME WITH STOCKPILED RIPRAP. USING ADDITIONAL MOISTURE AND CONTROL PROCEDURES THAT ENSURE A HOMOGENOUS MIXTURE;
- WHERE THE SOIL FILLS THE INHERENT VOIDS IN THE RIPRAP WITHOUT DISPLACING RIPRAP. 15. LAYERING THE RIPRAP AND SOIL INSTEAD OF PREMIXING MAY BE ALLOWED IF THE NATIVE SOIL IS GRANULAR.
- 16. PLACE A FIRST LAYER OF SMALLER SOIL RIPRAP OF APPROXIMATE D50 THICKNESS. THEN PLACE THE TOP LAYER WITH THE SURFACE ROCKS THAT ARE LARGELY D50 OR GREATER,
- FILLING VOIDS AS NECESSARY WITH THE SMALLER PLANTED RIPRAP. 17. THE MIXTURE SHALL BE CONSOLIDATED BY LARGE VIBRATORY EQUIPMENT OR BACKHOE
- BUCKET TO CREATE A TIGHT, DENSE INTERLOCKING MASS. 18. THE SOIL SHALL BE FURTHER WETTED TO ENCOURAGE VOID FILLING WITH SOIL.
- 19. ANY LARGE VOIDS SHALL BE FILLED WITH ROCK AND SMALL VOIDS FILLED WITH SOIL.
- 20. THE TOP SURFACE SHALL BE COVERED WITH FOUR (4) INCHES OF TOPSOIL SUCH THAT NO ROCK POINTS ARE PROTRUDING.
- 21. THE FINAL SURFACE SHALL BE THOROUGHLY WETTED FOR GOOD COMPACTION, SMOOTHED AND COMPACTED BY VIBRATING EQUIPMENT.

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# Date Issue / Description Init. 

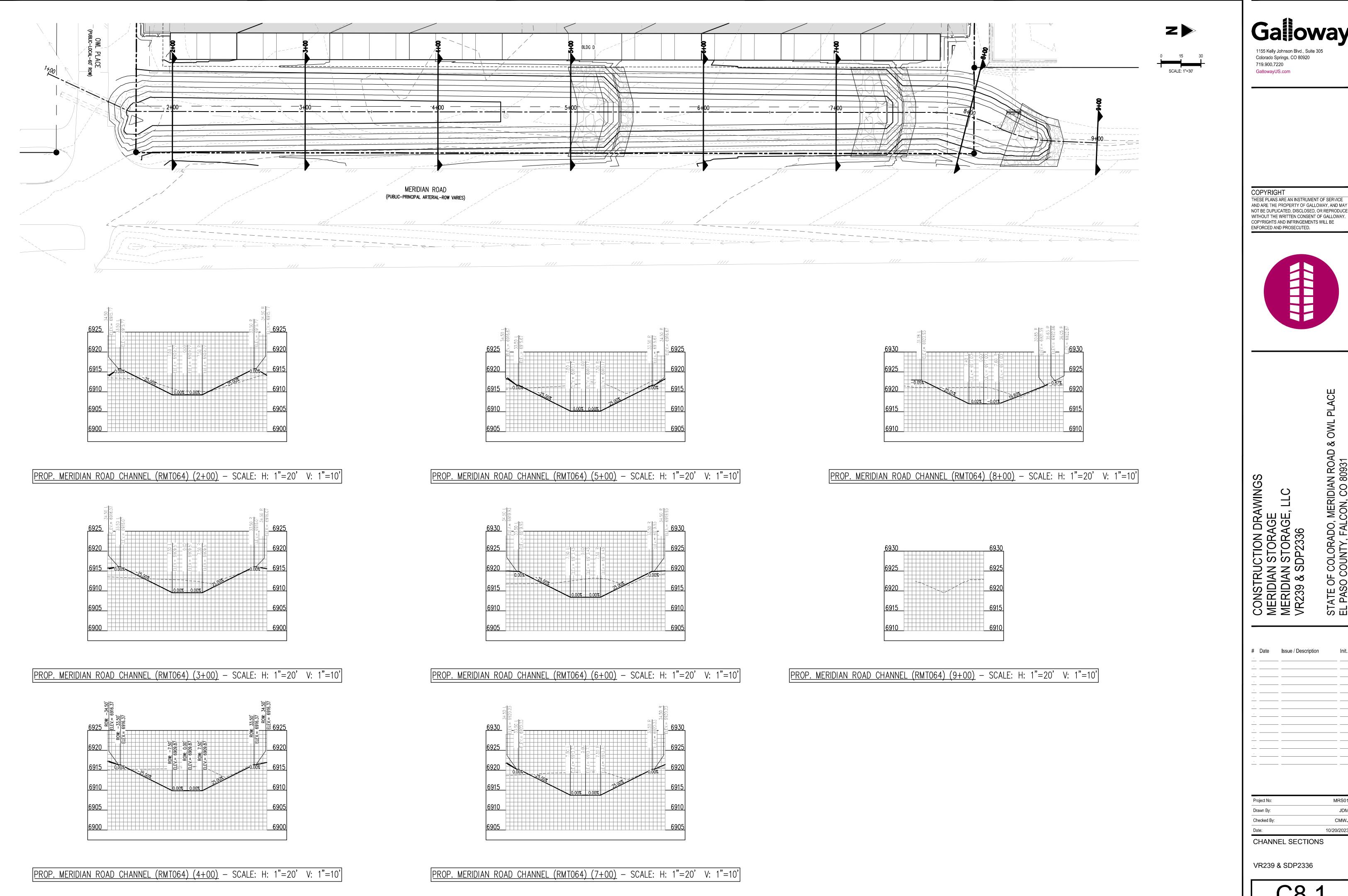
CMWJ 10/20/2023

DROP STRUCTURE **GENERAL DETAILS** 

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1 GROUTED BOULDER PLACEMENT DETAIL



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CONSTRUCTION DRAWINGS MERIDIAN STORAGE MERIDIAN STORAGE, LLC VR239 & SDP2336

CHANNEL SECTIONS

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C8.1

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