

#### LEGAL DESCRIPTION:

DISCOVERY PARK CROSSING, FINAL PLAT, TRACT B (2.48 AC)



#### **UTILITY CONTACTS:**

WATER UTILITIES: 1200 SE HAMBLEN RD LEE'S SUMMIT, MO 64063 PHONE: (816) 969-1900

**PUBLIC ROADWAY:** CITY OF LEE'S SUMMIT, MO 220 SE GREEN STREET LEE'S SUMMIT, MO 64063 PHONE: (816) 969-1800

POWER: **EVERGY** 1300 SE HAMBLEN RD LEE'S SUMMIT, MO 64081 PHONE: (816) 347-4320

STORMWATER: CITY OF LEE'S SUMMIT, MO 220 SE GREEN STREET LEE'S SUMMIT, MO 64063 PHONE: (816) 969-1800

**NATURAL GAS: SPIRE GAS ENERGY** 3025 SW CLOVER DRIVE LEE'S SUMMIT, MO 64082 PHONE: (816) 985-8888

**TELECOMMUNICATIONS:** PHONE: 800-286-8313 SPECTRUM PHONE: 877-772-2253 **GOOGLE FIBER** PHONE: 877-454-6959

#### FEMA FLOOD INFORMATION:

THE ENTIRE SITE IS LOCATED WITHIN ZONE X, "AREAS OF 0.2% ANNUAL CHANGE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AS DEPICTED ON THE FEMA FLOOD INSURANCE RATE (FIRM) MAP NUMBER 29095C0409G, REVISION DATE JANUARY 20, 2017.

#### OIL/GAS WELLS:

NO OIL OR GAS WELLS ARE LOCATED WITHIN PROJECT LIMITS. INFORMATION OBTAINED FROM THE MISSOURI DEPARTMENT OF NATURAL RESOURCES, GEOLOGICAL SURVEY GEOSCIENCES TTECHNICAL RESOURCE ASEESMENT TOOL (GEOSTRAT).

## DISCOVERY CROSSING ONSITE INFRASTRUCTURE PLAN

### DISCOVERY CROSSING AT DISCOVERY PARK

LEE'S SUMMIT, JACKSON COUNTY, MO

**SECTION 30, T48N, R31W** 

DATE: 12/30/24



WATERSHED: LITTLE CEDAR CREEK - LITTLE BLUE RIVER

#### **GENERAL NOTES:**

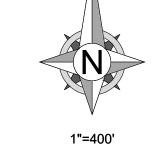
- 1. THE CONTRACTOR IS OBLIGATED TO INSPECT FOR EXISTING CONDITIONS/INSTALLATIONS AND AVAILABLE INFORMATION PRIOR TO SUBMITTING A BID, REFER TO SPECIFICATIONS
- 2. EXISTING INSTALLATIONS (SUCH AS WATER MAINS/LINES, GAS MAINS/LINES, SEWER MAINS/LINES, TELEPHONE LINES, POWER LINES, AND UTILITY STRUCTURES IN THE VICINITY OF THE WORK TO BE DONE) ARE INDICATED ON THE DRAWINGS ONLY TO THE EXTENT THAT SUCH INFORMATION HAS BEEN MADE AVAILABLE TO OR DISCOVERED BY THE ENGINEER IN PREPARING THE DRAWINGS. THERE IS NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF SUCH INFORMATION, AND ALL RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS THEREOF IS EXPRESSLY DISCLAIMED.
- 3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR LOCATING ALL EXISTING INSTALLATIONS.
- 4. ANY DELAY, ADDITIONAL WORK, FEES OR EXTRA COST TO THE CONTRACTOR CAUSED BY OR RESULTING FROM DAMAGE TO OR MODIFICATION OF EXISTING INSTALLATIONS BY THE CONTRACTOR OR AFFECTED UTILITY COMPANY SHALL NOT CONSTITUTE A CLAIM FOR EXTRA WORK, ADDITIONAL PAYMENT OR DAMAGES.
- 5. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONSTRUCTION PRIOR TO SUBMITTING HIS BID. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS/INSTALLATIONS.
- 6. CROSS-ACCESS RIGHTS THROUGH THE DEVELOPMENT WILL BE CONFERRED BY FINAL PLAT, COVENANTS AND RESTRICTIONS, OR SEPARATE DOCUMENT.
- 7. PROPOSED DETENTION FACILITIES SHALL BE CONSTRUCTED PRIOR TO THE DEVELOPMENT OF ANY PART OF THE SUBJECT DRAINAGE AREA

**DISTURBED AREA: 12.60 AC** 

PROJECT SPECIFICATIONS: THE SPECIFICATIONS FOR THIS PROJECT SHALL BE THE FOLLOWING:

- 1. MOST CURRENT VERSION OF THE DESIGN AND CONSTRUCTION MANUAL OF THE CITY OF LEE'S SUMMIT, MO.
- 2. MOST CURRENT VERSION OF THE AMERICAN PUBLIC WORKS ASSOCIATION -KANSAS CITY METRO CHAPTER

THE STANDARD SPECIFICATIONS THROUGH AND INCLUDING THE LATEST AMENDMENTS SHALL BE PART OF THESE PROJECT DRAWINGS AND SPECIFICATIONS AND ARE HEREIN BY REFERENCE. THE MORE STRINGENT OF THESE STANDARD SPECIFICATIONS AND THOSE PREPARED BY THE ENGINEER PREPARING THESE PLANS SHALL GOVERN.



## 0 200' 400'

#### **CIVIL ENGINEER:**

OWN, INC. 8455 COLLEGE BLVD OVERLAND PARK, KS 66210 EMAIL: JBARTZ@WEAREOWN.COM PHONE: (816) 777-0400

#### **DEVELOPER:**

SHEET LIST TABLE

**EXISTING CONDITIONS & DEMOLITION PLAN** 

ROAD PLAN & PROFILE (FIELDSTONE WAY)

ROAD PLAN & PROFILE (FIELDSTONE WAY) 2

ROAD PLAN & PROFILE (FIELDSTONE WAY) 3

ROAD PLAN & PROFILE (NE DISCOVERY AVE)

INTERSECTION DETAILS - KEYMAP

ROUNDABOUT DETAILS

ROUNDABOUT DETAILS 2

INTERSECTION DETAILS

INTERSECTION DETAILS 2

INTERSECTION DETAILS 3

SIDEWALK ADA RAMP DETAILS 1

SIDEWALK ADA RAMP DETAILS 2

SIDEWALK ADA RAMP DETAILS 3

SIDEWALK ADA RAMP DETAILS 4

SIDEWALK ADA RAMP DETAILS 5

SIDEWALK ADA RAMP DETAILS 6

SIDEWALK ADA RAMP DETAILS 7

STRIPING & SIGNAGE PLAN

CONSTRUCTION JOINT PLAN

CONSTRUCTION JOINT PLAN 2

CONSTRUCTION JOINT PLAN 3

CONSTRUCTION JOINT PLAN 4

STORMWATER CALCULATIONS 1

STORMWATER CALCULATIONS 2

**EROSION CONTROL 1** 

**EROSION CONTROL 2** 

**EROSION CONTROL 3** 

ADA RAMP DETAILS

CURB & SIDEWALK DETAILS

PAVEMENT JOINT DETAILS

STORM SEWER DETAILS 1

STORM SEWER DETAILS 2

SILT FENCE DETAILS

STREET NAME SIGN DETAILS

SIGN POST & MOUNTING DETAILS

CONSTRUCTION ENTRANCE DETAILS

STEEP SLOPE PROTECTION DETAILS

CURB INLET PROTECTION DETAILS

AREA INLET PROTECTION DETAILS

DATE

ROCK DITCH CHECK DETAILS

SEDIMENT BASIN DETAILS

STORM SEWER PLAN & PROFILE (LINE 1)

STORM SEWER PLAN & PROFILE (LINES 2,3,4 & 5)

STORM SEWER PLAN & PROFILE (LINE 6, 7 & 8)

**GRADING PLAN** 

DRAINAGE MAP

TURN LANE DETAILS 1

TURN LANE DETAILS 2

ROAD PLAN & PROFILE (NE TRAILS EDGE BLVD)

COVER SHEET

**GENERAL NOTES** 

GENERAL LAYOUT

ALIGNMENT DATA

TYPICAL ROAD SECTIONS 1

TYPICAL ROAD SECTIONS 2

Sheet Title

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C050

C100

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INTRINSIC DEVELOPMENT 3622 ENDEAVOR AVE., STE. 101 COLUMBIA, MO 65201 **CONTACT: BRIAN MAENNER** PHONE: (573) 881-0280

**ROADWAY DATA:** DESIGN SPEED: 15 MPH LENGTH OF PROJECT: 1959 LF

ADT: 7877

#### PREPARED AND SUBMITTED BY:

JEFFREY W. BARTZ, P.E. MISSOURI P.E. NO. 2012022594

8455 College Boulevard Overland Park. KS 66210 weareown.com

Engineering Corporation

#### **DISCOVERY CROSSING AT DISCOVERY PARK**

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT. MO

	REVISIONS	
NO.	DESCRIPTION	DATE

DRAWING INFORMATION

PROJECT NO: 24KC10016

DRAWN BY: JGD CHECK BY: JWB SSUED DATE: 12/30/24 FIELD BOOK: ISSUED BY:

SHEET TITLE

LICENSE NO:

**COVER SHEET** 

**SHEET NUMBER** 

**CVR** 1 OF 56

#### STORM SEWER GENERAL NOTES:

- PIPE LENGTHS SHOWN ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE OR TO THE CENTER OF TOE OF END SECTION. ALL PIPES SHALL BE FIELD STAKED TO THE CENTER OF THE INSIDE WALL FACE OF THE STRUCTURE.
- 2. THE DIMENSION FOR ALL STRUCTURES ARE FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE.
- 3. THE FIRST STRUCTURE DIMENSION SHOWN IS THE "L" DIMENSION AND THE SECOND IS THE "W"
- DIMENSION (SEE STORM SEWER STRUCTURE DETAILS).
  4. LOCATIONS OF NORTHINGS AND EASTINGS SHOWN ARE AS FOLLOWS:
  - A. THROATED AREA INLET: CENTER OF STRUCTURE
  - B. SETBACK CURB INLET: CENTER OF STRUCTURE
  - C. MODIFIED CURB INLET: CENTER OF STRUCTURE ALONG TOP OF CURB AT INLET
- D. END SECTIONS: CENTER OF TOE OF END SECTION
- 5. STORM SEWER PIPE SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
  - A. HIGH DENSITY POLYETHYLENE (HDPE) MEETING THE REQUIREMENTS FOR TEST METHODS, DIMENSIONS, AND MARKINGS FOUND IN AASHTO M294 AND ASTM F2306. JOINTS SHALL BE WATER TIGHT REINFORCED BELL & GASKETED SPIGOT TYPE.
- 6. ALL PIPE SHALL BE PLACED IN TRENCH CONDITIONS. PLACE A MINIMUM OF 2 FEET OF FILL OVER PROPOSED PIPE BEFORE TRENCHING AND PIPE INSTALLATION. PROPOSED FILL SHALL BE PLACED
- IN ACCORDANCE WITH PROJECT REQUIREMENTS.

  7. UTILITY LINES AND STRUCTURES IN FILL AREAS BELOW PIPE GRADE SHALL NOT BE CONSTRUCTED UNTIL ALL CONSOLIDATION OF THE FILL IS COMPLETE AND SO APPROVED BY THE ON-SITE
- GEOTECHNICAL ENGINEER.

  8. ALL CURB INLETS AND OTHER STRUCTURES SET AT LOW POINTS ARE TO BE SET LEVEL. ALL OTHER CURB INLETS ARE TO BE SET WITH THE GRADE AT THE TOP OF CURB OR PAVEMENT. ALL CURB
- INLETS SHALL HAVE TOP SLABS SLOPING TOWARD THE PAVEMENT AT A 2% GRADE UNLESS OTHERWISE NOTED.
- 9. PRECAST STRUCTURES MAY BE USED AT CONTRACTOR'S OPTION. ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED CONCRETE INVERT FROM INVERT IN TO INVERT OUT.
- 10. ALL REINFORCING STEEL SHALL COMPLY WITH ASTM-615 GRADE 60.
- 11. THE LIDS OF ALL PRECAST STRUCTURES SHALL BE GROUTED TO THE TOP OF THE WALLS.
  12. ALL UNSUITABLE MATERIAL ENCOUNTERED DURING THE INSTALLATION OF STORM SEWER SHALL BE REMOVED AT CONTRACTOR'S EXPENSE.
- 13. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICT AND POINTS OF CONNECTION PRIOR TO ANY CONSTRUCTION OF STORM SEWER.

#### **DEMOLITION PLAN GENERAL NOTES**

- 1. EXISTING CONDITIONS SHOWN FOR DEMOLITION ARE CURRENTLY UNDER CONSTRUCTION.
  CONTRACTOR SHALL COORDINATE WITH ON-SITE CONSTRUCTION CREWS TO MINIMIZE DEMOLITION
  OF NEWLY COMPLETED INFRASTRUCTURE.
- CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL ITEMS ENCOUNTERED DURING CONSTRUCTION THAT ARE NOT A REQUIRED PART OF THE PROPOSED PROJECT UPON COMPLETION.
- 3. CONTRACTOR SHALL COORDINATE WITH OWNER ON SALVAGING AND DISPOSAL OF DEMOLISHED/REMOVED ITEMS.
- 4. CONTRACTOR SHALL PROTECT OFFSITE IMPROVEMENTS (INCLUDING BUT NOT LIMITED TO SIDEWALKS, DRIVES, UTILITIES, CURBS, AND PAVING) SURROUNDING THE PROJECT BOUNDARY FROM DAMAGE DURING DEMOLITION ACTIVITY. ALL PAVEMENT REMOVALS SHALL BE SAWCUT WITH CLEAN FULL DEPTH CUTS ADJACENT TO EXISTING PAVEMENT TO REMAIN. CONTRACTOR SHALL INSTALL AND MAINTAIN PEDESTRIAN AND VEHICULAR TRAFFIC CONTROL SIGNAGE IN COMPLIANCE WITH THE MISSOURI DEPARTMENT OF TRANSPORTATION AND CITY OF LEE'S SUMMIT REQUIREMENTS. CONTRACTOR SHALL NOT OBSTRUCT ACCESS TO EXISTING BUSINESSES.
- 5. CONTRACTOR SHALL INSTALL SAFETY FENCING SURROUNDING ALL EXCAVATIONS DURING DEMOLITION OF STRUCTURES, AREAS OF HEAVY EQUIPMENT USAGE FOR SITE GRADING AND GRUBBING, TREE REMOVAL AREAS, AND ANY OTHER AREAS WHERE PEDESTRIAN OR VEHICULAR TRAFFIC MAY ENCROACH. THIS FENCING SHALL BE INSTALLED NO LATER THAN THE END OF EACH WORKING DAY. CONTRACTOR SHALL REPAIR AND MAINTAIN FENCING IN AN ORDERLY MANNER. CONTRACTOR MAY RE-USE FENCING MATERIALS AFTER ALL DEMOLITION ACTIVITIES HAVE BEEN COMPLETED FOR THAT AREA OF WORK.

#### **GRADING PLAN GENERAL NOTES**

- 1. ALL TOPSOIL, VEGETATION, ROOT STRUCTURES, AND DELETERIOUS MATERIALS SHALL BE
- STRIPPED FROM THE GROUND SURFACE PRIOR TO THE PLACEMENT OF EMBANKMENTS.

  2. ALL DISTURBED AREAS THAT ARE NOT TO BE PAVED (GREEN SPACES) SHALL BE FINISH GRADED
- WITH A MINIMUM OF SIX INCHES OF TOPSOIL.
- FINISHED GRADES SHALL NOT BE STEEPER THAN 3:1.
   EXISTING GRADE CONTOURS SHOWN AT 1 FOOT INTERVALS. PROPOSED GRADE CONTOURS
- SHOWN AT 1 FOOT INTERVALS.

  5. HAUL OFF AND MATERIAL IMPORT SHALL NOT BE AN EXCLUDED ITEM IN THE BASE BID. ALL EXCAVATION SHALL BE CONSIDERED NON-CLASSIFIED. NO ADDITIONAL PAYMENT WILL BE MADE
- FOR ROCK EXCAVATION OR BLASTING.
- 6. ALL DISTURBED AREAS ARE TO RECEIVE TOPSOIL (6"), SEED/SOD, MULCH AND WATER UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED. RE-SEEDING SHALL BE REQUIRED.
- 7. WITHIN FORTY-EIGHT HOURS PRIOR TO ANY ASPHALT OR CONCRETE PAVING, THE SUBGRADE SHALL BE PROOF-ROLLED WITH A FULLY LOADED TANDEM WHEEL DUMP TRUCK AND OBSERVED BY THE ON-SITE GEOTECHNICAL ENGINEER. AREAS OF THE SUBGRADE WITH EXCESSIVE RUTTING AND/OR PUMPING SHALL BE RE-WORKED OR REMOVED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. FLY ASH OR GRANULAR MATERIAL MAY BE ADDED BY THE CONTRACTOR (AS APPROVED BY THE ON-SITE GEOTECHNICAL ENGINEER) TO STABILIZE THE SUBGRADE.
- 8. REFERENCE GEOTECHNICAL REPORT FOR BUILDING PAD PREPARATION.
  9. CONTRACTOR SHALL OPERATE LINDER THE TERMS AND PERMITS INCLUDED IN THE
- 9. CONTRACTOR SHALL OPERATE UNDER THE TERMS AND PERMITS INCLUDED IN THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED FOR THIS PROJECT AND PERMITTED THROUGH THE STATE OF MISSOURI. CONTRACTOR SHALL EMPLOY A QUALIFIED PERSON TO CONDUCT REGULAR INSPECTIONS OF THE SITE EROSION CONTROL MEASURES AND DOCUMENT SUCH INSPECTIONS IN THE SWPPP DOCUMENT MAINTAINED BY THE CONTRACTOR.
- 10. THE CONTRACTOR SHALL ADHERE ALL TERMS & CONDITIONS AS OUTLINED IN THE PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH THE CONSTRUCTION ACTIVITIES AS ISSUED BY CITY OF LEE'S SUMMIT, MO AND THE MISSOURI DEPARTMENT OF NATURAL RESOURCES (MDNR).

#### **GENERAL EROSION & SEDIMENTATION NOTES:**

- A. THE STORMWATER POLLUTION PREVENTION PLAN IS COMPRISED OF THIS DRAWING, THE STANDARD DETAILS, ATTACHMENTS INCLUDED IN SPECIFICATIONS, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
- B. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORMWATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE OR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.
- C. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST OF OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
- D. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. CONTRACTOR SHALL
- IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.

  E. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.
- F. CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.
- G. GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES
- AND TOILET FACILITIES.

  H. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.)
  SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
- I. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
- J. DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
- K. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORMWATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
- L. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THIS SITE MAP, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE INITIATED AS SOON AS PRACTICABLE.
- M. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY WILL BE STOPPED FOR AT LEAST 7 DAYS, SHALL BE TEMPORARILY STABILIZED. THESE AREAS SHALL BE STABILIZED NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS.
- N. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE STABILIZED. THESE AREAS SHALL BE STABILIZED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN.
- O. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS
- CARRIED OFF THE SITE. ONLY USE INGRESS/EGRESS LOCATIONS AS PROVIDED.

  P. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- Q. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION
- WITH THE STABILIZATION OF THE SITE.

  R. ON-SITE & OFFSITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
- S. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
- T. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION AND SEDIMENT CONTROL MEASURES (SILT FENCES, ETC.) TO PREVENT EROSION AND POLLUTANT DISCHARGE.

#### **EROSION & SEDIMENTATION CONTROL MAINTENANCE**

ALL MEASURES STATED ON THIS SITE MAP, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR THE APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT, AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

- 1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION.
- SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.
- 3. THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION EXITS AS CONDITIONS DEMAND.
- 4. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AREA AS CONDITIONS DEMAND.

#### UTILITY NOTES

- 1. UTILITY CONSTRUCTION SHALL COMPLY WITH THE STANDARD SPECIFICATIONS, CODES AND DETAILS OF THE CITY OF LEE'S SUMMIT, MISSOURI AND ALL LOCAL UTILITY PROVIDERS.
- OPEN CUTTING OF EXISTING STREETS IS PROHIBITED, ALL PROPOSED UTILITY STREET CROSSINGS SHALL BE BORED UNDER STREETS UNLESS NOTED OTHERWISE.
- 3. THE INFORMATION SHOWN ON THESE PLANS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OF ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES FOR FIELD LOCATIONS OF ALL UNDERGROUND UTILITY LINES PRIOR TO ANY EXCAVATION AND FOR MAKING HIS OWN VERIFICATION AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTRACTOR SHALL CONTACT THE UTILITY LOCATION SERVICE A MINIMUM OF 72 HOURS PRIOR TO ANY EXCAVATION TO FIELD
- LOCATE UTILITIES.

  4. IF DURING THE COURSE OF CONTRACTOR COORDINATION WITH ANY UTILITY THE NEED FOR AN EASEMENT IS REQUIRED CONTRACTOR TO NOTIFY ENGINEER IMMEDIATELY.
- 5. CONTRACTOR TO INSTALL PROTECTIVE SLEEVES IN FOOTINGS IF NECESSARY FOR UTILITY CONNECTION
  WITH BUILDING, SEE STRUCTURAL AND MED PLANS
- WITH BUILDING. SEE STRUCTURAL AND MEP PLANS.
  6. CONTRACTOR SHALL CONTACT POWER PROVIDER TO INSPECT ELECTRIC CONDUIT INSTALLATION PRIOR
- TO BACKFILLING.
  7. ROOF DRAINS, POOL DRAINS, GUTTERS, AND DOWNSPOUTS SHALL NOT CONNECT TO SANITARY SEWER!
- THE CONTRACTOR IS OBLIGATED TO INSPECT FOR EXISTING CONDITIONS/INSTALLATIONS AND AVAILABLE INFORMATION PRIOR TO SUBMITTING A BID, REFER TO SPECIFICATIONS ALSO.
   EXISTING INSTALLATIONS (SUCH AS WATER MAINS/LINES, GAS MAINS/LINES, SEWER MAINS/LINES, TELEPHONE LINES, POWER LINES, AND UTILITY STRUCTURES IN THE VICINITY OF THE WORK TO BE DONE) ARE INDICATED ON THE DRAWINGS ONLY TO THE EXTENT THAT SUCH INFORMATION HAS BEEN MADE
- AVAILABLE TO OR DISCOVERED BY THE ENGINEER IN PREPARING THE DRAWINGS. THERE IS NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF SUCH INFORMATION, AND ALL RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS THEREOF IS EXPRESSLY DISCLAIMED. 10.THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR LOCATING ALL EXISTING INSTALLATIONS.
- 11. ANY DELAY, ADDITIONAL WORK, FEES OR EXTRA COST TO THE CONTRACTOR CAUSED BY OR RESULTING FROM DAMAGE TO OR MODIFICATION OF EXISTING INSTALLATIONS BY THE CONTRACTOR OR AFFECTED UTILITY COMPANY SHALL NOT CONSTITUTE A CLAIM FOR EXTRA WORK, ADDITIONAL PAYMENT OR DAMAGES.
- 12. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONSTRUCTION PRIOR TO SUBMITTING HIS BID.

  NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS/INSTALLATIONS.

#### GENERAL SIDEWALK & SIDEWALK RAMP NOTES

- 1. POSITIVE FLOW LINE DRAINAGE SHALL BE MAINTAINED THROUGH THE PEDESTRIAN ACCESS ROUTE (PAR). NO PONDING SHALL BE PRESENT IN THE PAR. ANY VERTICAL LIP THAT OCCURS AT THE FLOW LINE SHALL NOT BE GREATER THAN  $\frac{1}{4}$  INCH.
- 2. TURNING SPACE SHALL BE LOCATED ANYWHERE THE PAR CHANGES DIRECTION, AND IF THE APPROACHING WALK IS INVERSE GRADE.
- 3. THE MAXIMUM CROSS SLOPE REQUIREMENTS FOR PERPENDICULAR CURB RAMPS AND BLENDED TRANSITIONS ADJACENT TO PEDESTRIAN STREET CROSSINGS ARE AS FOLLOWS: AT YIELD OR STOP CONTROL - 2%; WITHIN YIELD OR STOP CONTROL, OR WITH TRAFFIC SIGNALS - 5%; AT MIDBLOCK - NO GREATER THAN THE STREET GRADE;
- 4. WHEN NOT ADJACENT TO PEDESTRIAN STREET CROSSINGS, PAR AND RAMP CROSS-SLOPE 1% DESIRED. 2% MAXIMUM.
- 5. CONTRACTION JOINTS SHALL BE CONSTRUCTED ALONG ALL GRADE BREAKS AND AT THE TOP OF CONCRETE FLARES ADJACENT TO WALKABLE SURFACES.
- 6. ALL GRADE BREAKS WITHIN THE PAR SHALL BE PERPENDICULAR TO THE PATH OF TRAVEL.
- 7. ALL RAMP TYPES SHOULD HAVE A MINIMUM OF 3' RAMP LENGTH.
- 8. DETECTIBLE WARNINGS SHALL CONTINUOUSLY EXTEND FOR A MINIMUM OF 24" IN THE PATH OF TRAVEL. DETECTABLE WARNING TO COVER THE ENTIRE WIDTH OF SIDEWALK AND SHARED-USE PATHS. ARC LENGTH OF RADIAL DETECTABLE WARNINGS SHALL NOT BE GREATER THAN 20
- 9. RECTANGULAR DETECTABLE WARNINGS SHALL BE SETBACK 2" MINIMUM TO 9" MAXIMUM FROM BACK OF CURB. RADIAL DETECTABLE WARNINGS SHALL BE SETBACK 2" MINIMUM TO 6" MAXIMUM FROM THE BACK OF CURB.
- 10. LONGITUDINAL JOINT SPACING TO MATCH WITH OF SIDEWALK (4' MIN.).

WITH UTILITIES TO OBTAIN RAMP AND SIDEWALK COMPLIANCE.

- 11. ISOLATION JOINTS SHALL BE PLACED WHERE WALK ABUTS DRIVEWAYS AND SIMILAR STRUCTURES, AND 250' CENTERS MAX.
- 12. SIDEWALK RAMPS SHALL BE LENGTHENED AS NEEDED TO PROVIDE COMPLIANT SLOPE (8.33% MAX.) BUT NEED NOT EXCEED 15' REGARDLESS OF RESULTING SLOPE.
- 13. NO CASTING OR UTILITY BOXES SHALL BE ALLOWED IN RAMPS OR TURNING SPACES.
  CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING UTILITY BOXES AND COORDINATING
- 14. NEWLY CONSTRUCTED EXTERIOR ACCESSIBLE ROUTES SHALL NOT EXCEED 5% SLOPE IN THE DIRECTION OF TRAVEL OR 2% CROSS-SLOPE. WALKING SURFACES EXCEEDING 5% SLOPE IN THE DIRECTION OR TRAVEL OF CHANGES IN ELEVATION GREATER THAN 1/4" UNBEVELED OR 1/2" BEVELED MUST HAVE RAMPS COMPLYING WITH ICC A117.7 2009 AND 2010 ADA STANDARD

#### **GENERAL NOTES:**

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE PLANS IN THEIR POSSESSION AR THE MOST CURRENT VERSION ISSUED, AND PRESENT ON SITE AT ALL TIME. CURRENT PLANS PREPARED BY OWN, INC. MAY BE OBTAINED AT THE DIRECTION OF THE OWNER. DIRECT REQUESTS TO OWN, INC. MAY REQUIRE ADDITIONAL AUTHORIZATIONS, AGREEMENTS, AND/OR FEES. PLEASE CONTACT THE ENGINEER FOR MORE INFORMATION.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEVIATIONS FROM THESE PLANS UNLESS WRITTEN APPROVAL FROM ENGINEER, OWNER, AND DEVELOPER.
- 3. ALL WORK AND MATERIALS SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE OWNER OR THE OWNER'S REPRESENTATIVE.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK SHOWN IN THE PLANS.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS, PAYING ALL FEES, AND FOR OTHERWISE COMPLYING WITH ALL APPLICABLE REGULATIONS GOVERNING THE WORK.
- 6. THE CONTRACTOR SHALL NOT ENGAGE IN ACTIVITIES THAT MAY ENCROACH ON WATERS OF THE U.S., INCLUDING WETLANDS, UNTIL ANY NECESSARY PERMITS MAY BE OBTAINED. THE CONTRACTOR SHALL REVIEW AND COMPLY WITH ALL CONDITIONS DESCRIBED IN THE PERMIT.
- 7. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, THE SAFETY OF ALL PERSONS INCLUDING VISITORS AND THE GENERAL PUBLIC, AND PROPERTY DURING PERFORMANCE OF THE WORK.
- 8. PRIOR TO COMMENCEMENT OF WORK THE CONTRACTOR SHALL NOTIFY AND COORDINATE WITH ALL UTILITY COMPANIES AND OBTAIN ANY RELEVANT INFORMATION. NOTIFY ENGINEER OF ANY DISCREPANCIES.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL BOUNDARY CORNERS AND SECTION CORNERS. ANY BOUNDARY CORNERS AND/OR SECTION CORNERS DISTURBED OR DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE RESET BY A LAND SURVEYOR LICENSED IN THE STATE OF MISSOURI, AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ADJACENT PROPERTIES AND SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE DURING CONSTRUCTION. THE CONTRACTOR IS ALSO RESPONSIBLE FOR REPAIRING ANY DAMAGE RESULTING FROM CONSTRUCTION ACTIVITIES.
   PRIOR TO MOVING OFF THE JOB THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER

TO PERFORM A FINAL WALK-THROUGH OF THE CONSTRUCTION SITE.



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## DISCOVERY CROSSING AT DISCOVERY PARK

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

	REVISIONS	
NO.	DESCRIPTION	DAT

#### DRAWING INFORMATION

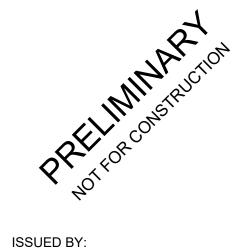
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DRAWN BY: JGD

CHECK BY: JWB

ISSUED DATE: 12/30/24
FIELD BOOK:

LICENSE NO:

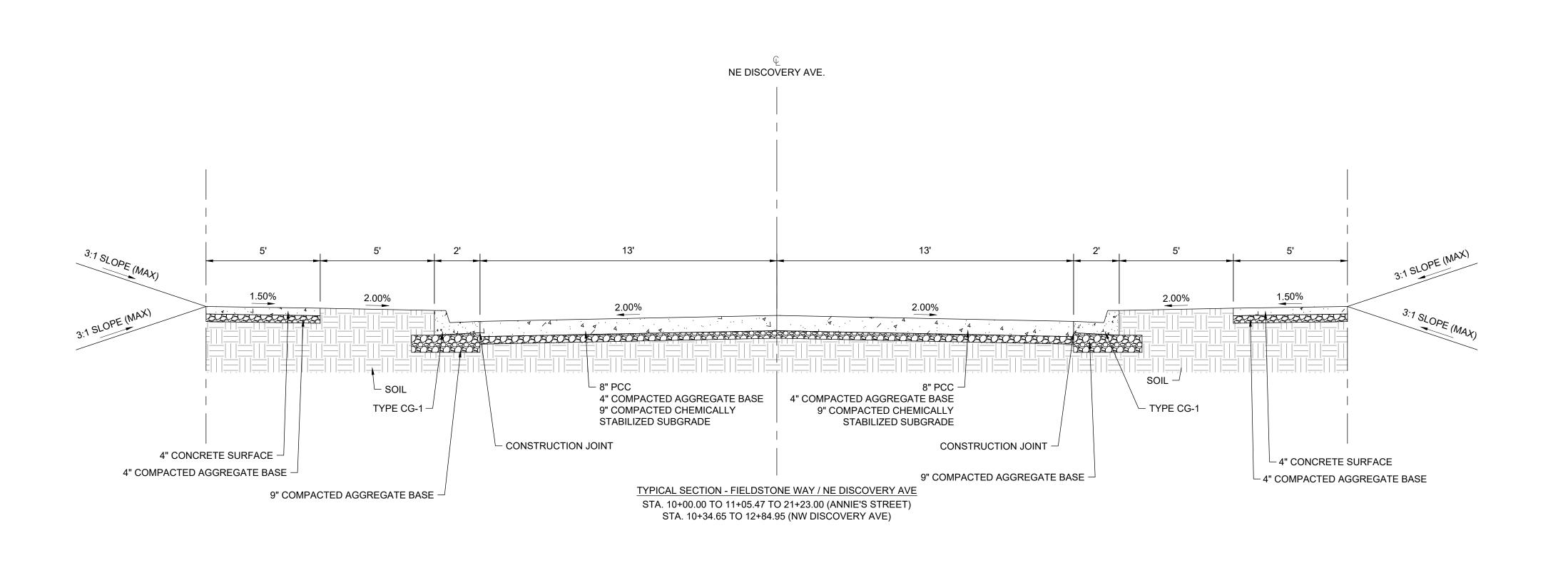


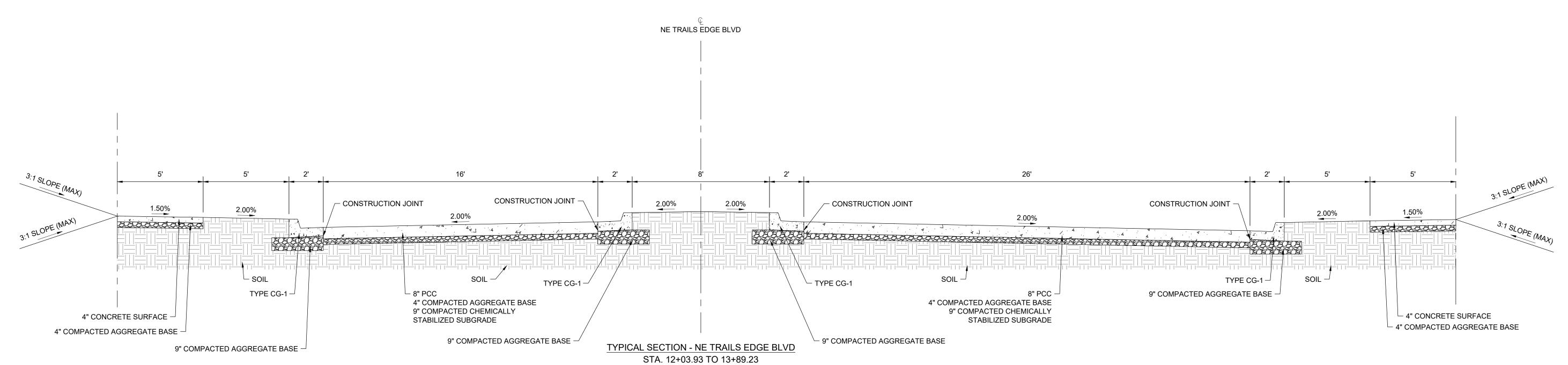
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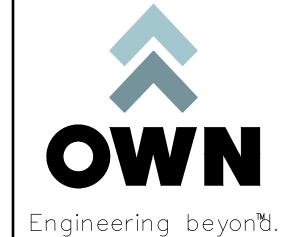
GENERAL NOTES

SHEET NUMBER

C050







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## DISCOVERY CROSSING AT DISCOVERY PARK

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

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#### DRAWING INFORMATION

PROJECT NO: 24KC10016

DRAWN BY: JGD

CHECK BY: JWB

ISSUED DATE: 12/30/24

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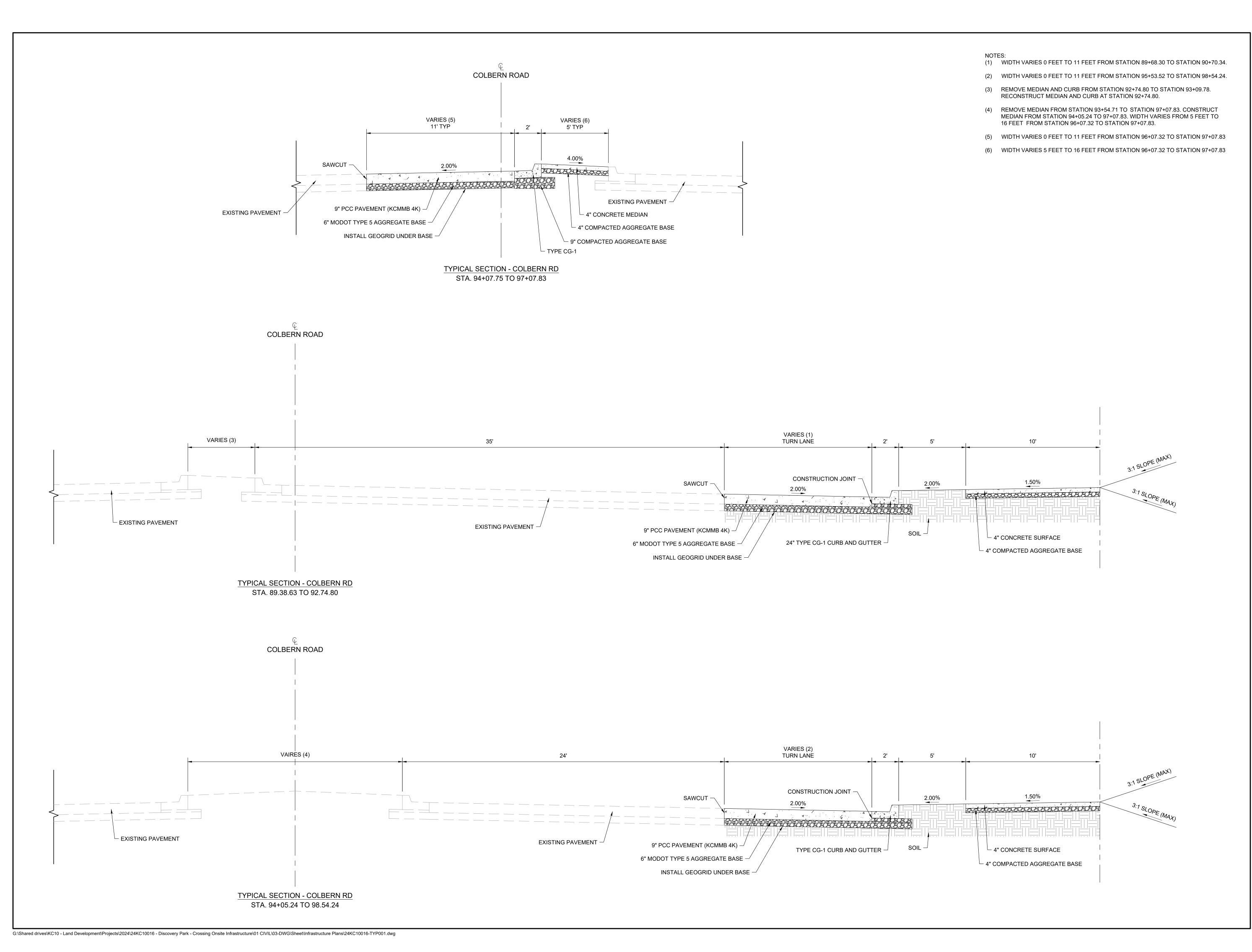
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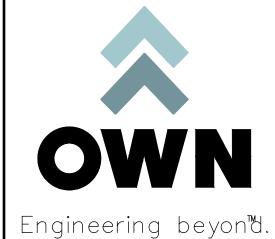
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C051

3 OF 56

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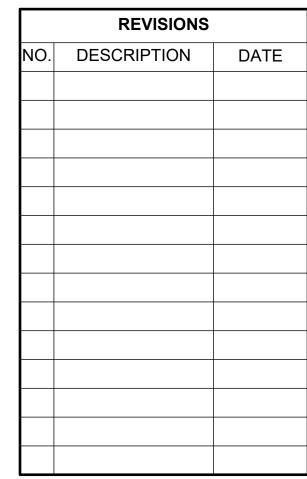
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#### DISCOVERY CROSSING AT DISCOVERY PARK

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO



#### DRAWING INFORMATION

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DRAWN BY: JGD
CHECK BY: JWB

ISSUED DATE: 12/30/24

FIELD BOOK:

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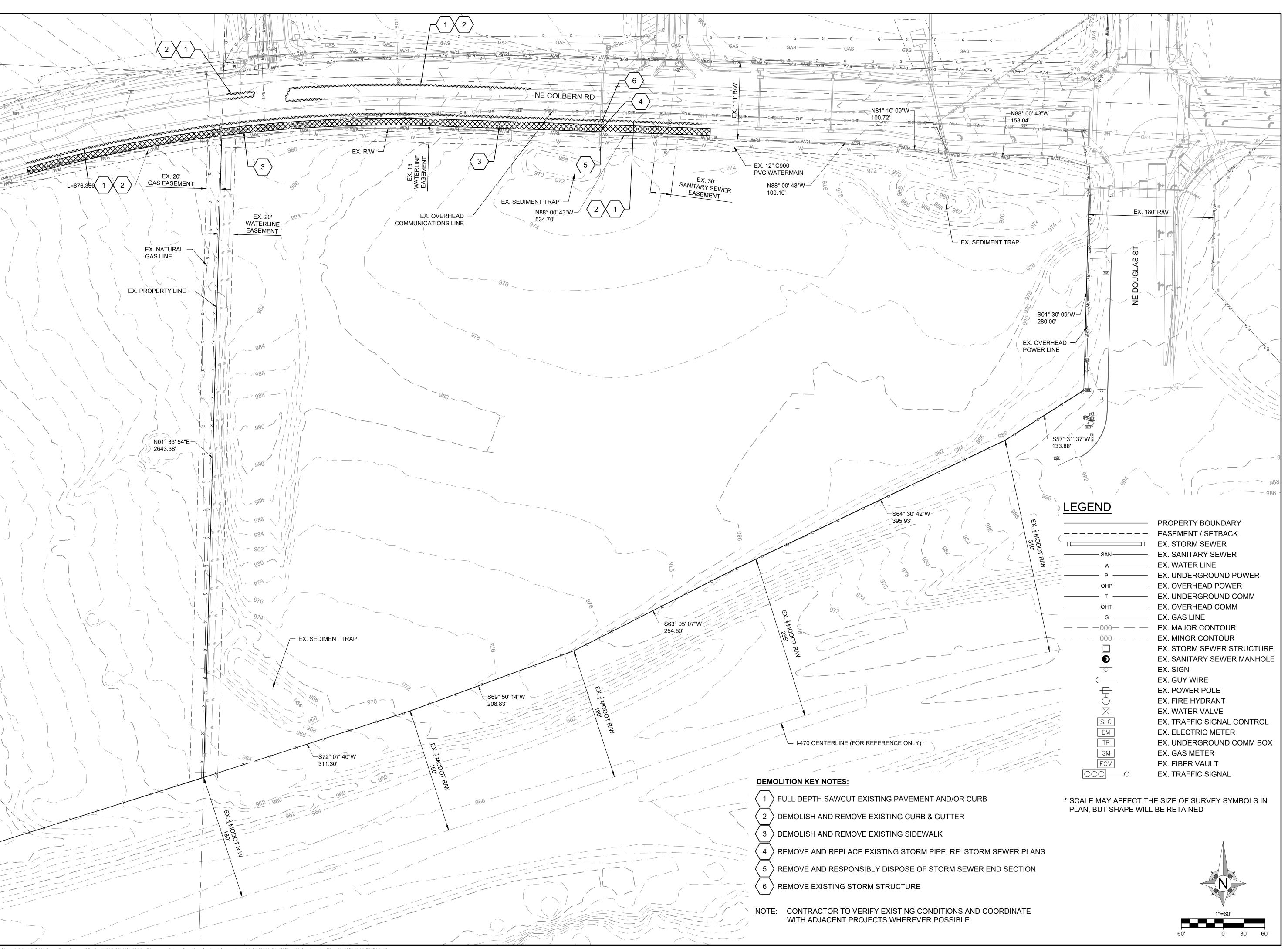
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TYPICAL ROAD SECTIONS 2

SHEET NUMBER

C052





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## DISCOVERY CROSSING AT DISCOVERY PARK

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

REVISIONS						
NO.	DESCRIPTION	DATE				

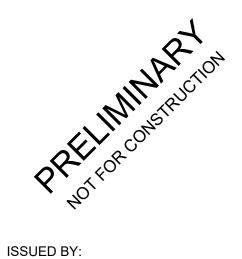
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ISSUED DATE: 12/30/24
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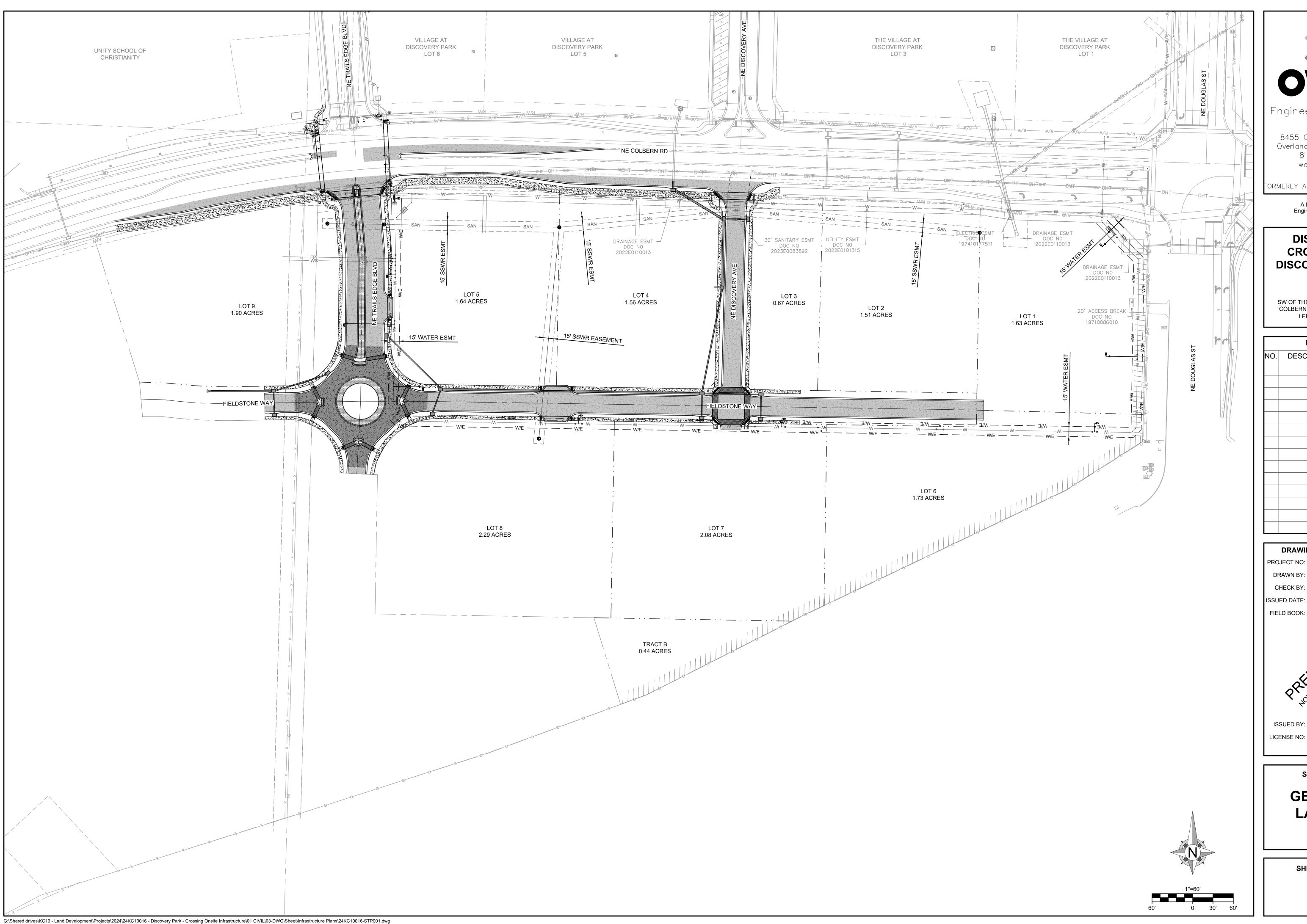
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SHEET TITLE

SHEET NUMBER

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#### **DISCOVERY CROSSING AT DISCOVERY PARK**

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

REVISIONS					
NO.	DESCRIPTION	DATE			

#### DRAWING INFORMATION

PROJECT NO: 24KC10016 DRAWN BY: JGD

CHECK BY: JWB

ISSUED DATE: 12/30/24

ISSUED BY:

LICENSE NO:

SHEET TITLE

**GENERAL LAYOUT** 

SHEET NUMBER

C101 6 OF 56

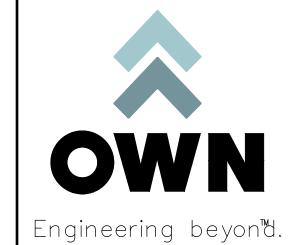
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	NW COLBERN RD (EXIST)								
SEGMENT#		STATION	NORTHING	EASTING	LENGTH	LINE/CHORD DIRECTION	DELTA	TANGENT	RADIUS
L1		88+00.00	1012236.8123	2821889.6350	75.455	N71° 54' 30.20"E			
C1	PC= PI= PT=	88+75.45	1012260.2438	2821961.3592	700.912	N81° 56' 53.55"E	020° 04' 47"	354.09	2000.000
L2		95+76.37	1012357.9176	2822651.8153	923.634	S88° 00' 43.09"E			

				NE TR	AILS EDGE	BLVD			
SEGMENT#		STATION	NORTHING	EASTING	LENGTH	LINE/CHORD DIRECTION	DELTA	TANGENT	RADIUS
L6		10+00.00	1011882.3998	2822416.8281	107.125	N03° 01' 15.83"E			
L7		11+07.12	1011989.3756	2822422.4739	202.967	N00° 37' 01.59"E			
С3	PC= PI= PT=	13+10.09	1012192.3306	2822424.6599	19.235	N02° 08' 16.95"W	005° 30' 37"	9.62	200.000
L8		13+29.33	1012211.5443	2822423.9426	141.817	N04° 53' 35.49"W			

FIELDSTONE WAY									
SEGMENT#		STATION	NORTHING	EASTING	LENGTH	LINE/CHORD DIRECTION	DELTA	TANGENT	RADIUS
C2	PC= PI= PT=	10+00.00	1011985.8447	2822217.9849	22.444	N89° 46' 26.42"E	001° 42' 53"	11.22	750.000
L4		12+04.52	1011989.3756	2822422.4739	98.608	S89° 54' 30.10"E			
L5		13+03.13	1011989.2179	2822521.0821	834.807	S89° 05' 59.89"E			

NE DISCOVERY AVE.									
SEGMENT#		STATION	NORTHING	EASTING	LENGTH	LINE/CHORD DIRECTION	DELTA	TANGENT	RADIUS
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8455 College Boulevard

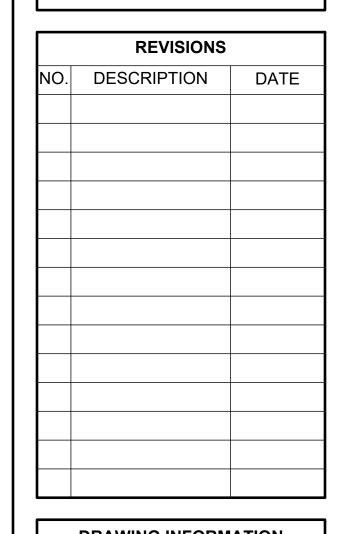
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#### DISCOVERY CROSSING AT DISCOVERY PARK

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO



#### DRAWING INFORMATION

PROJECT NO: 24KC10016

DRAWN BY: JGD

CHECK BY: JWB

ISSUED DATE: 12/30/24
FIELD BOOK:

PRELIMINARY

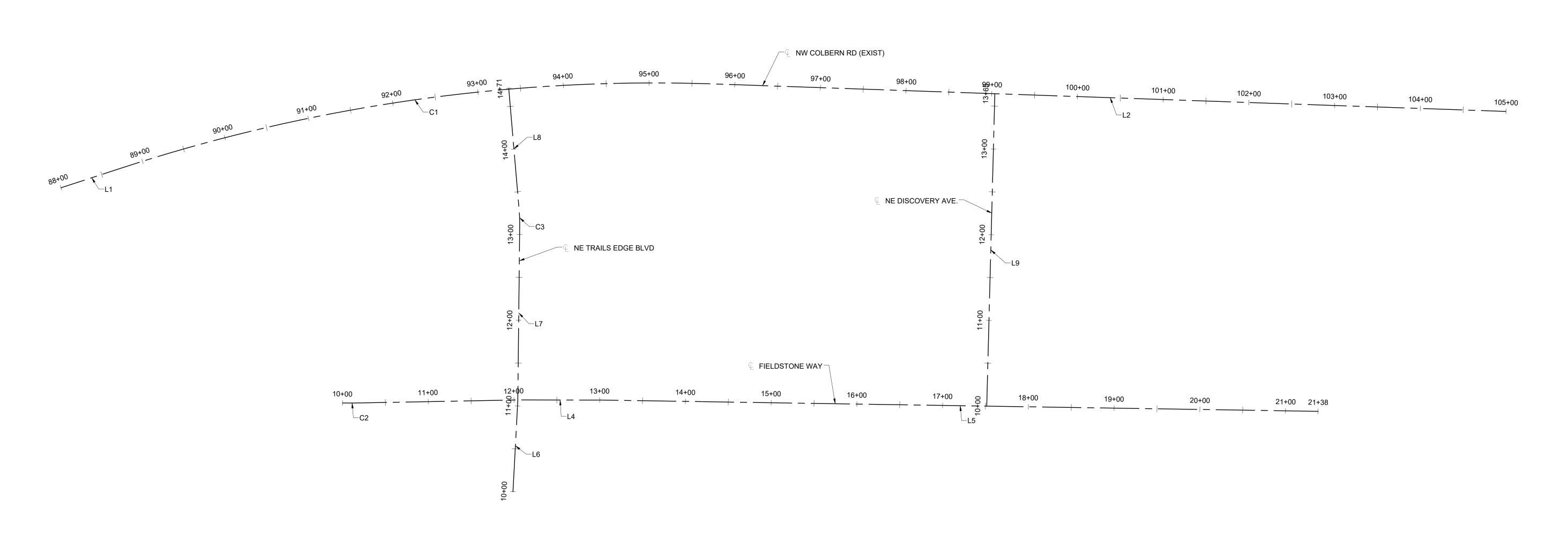
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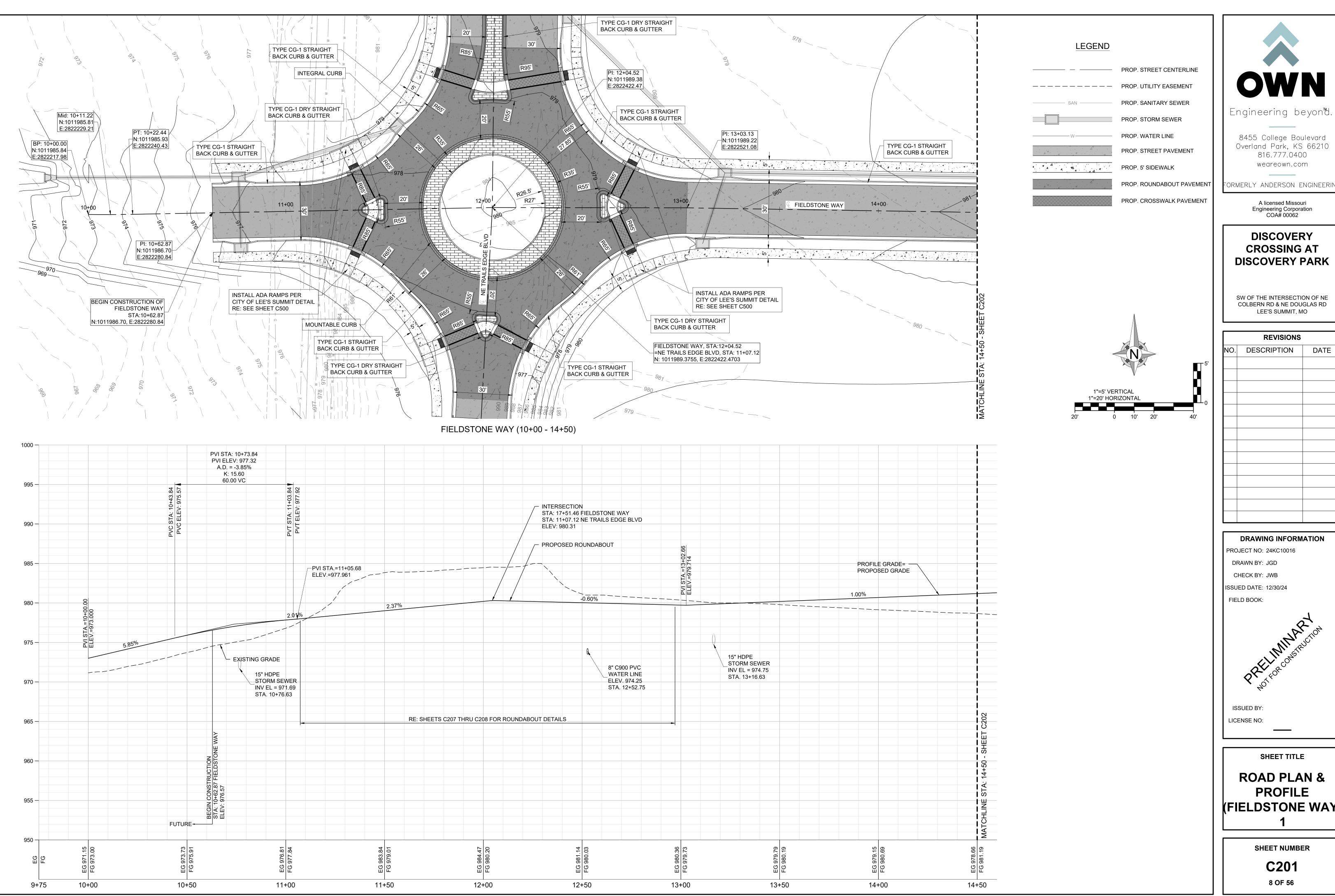
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SHEET NUMBER

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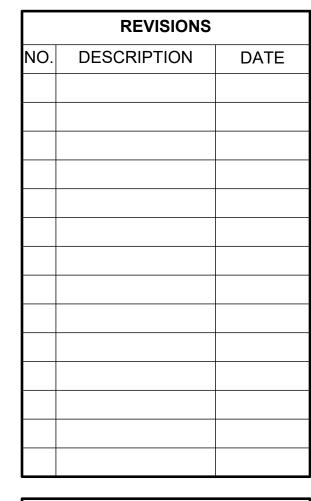


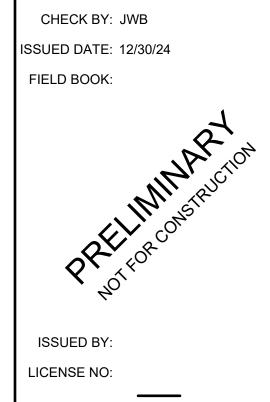


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#### **DISCOVERY CROSSING AT DISCOVERY PARK**

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

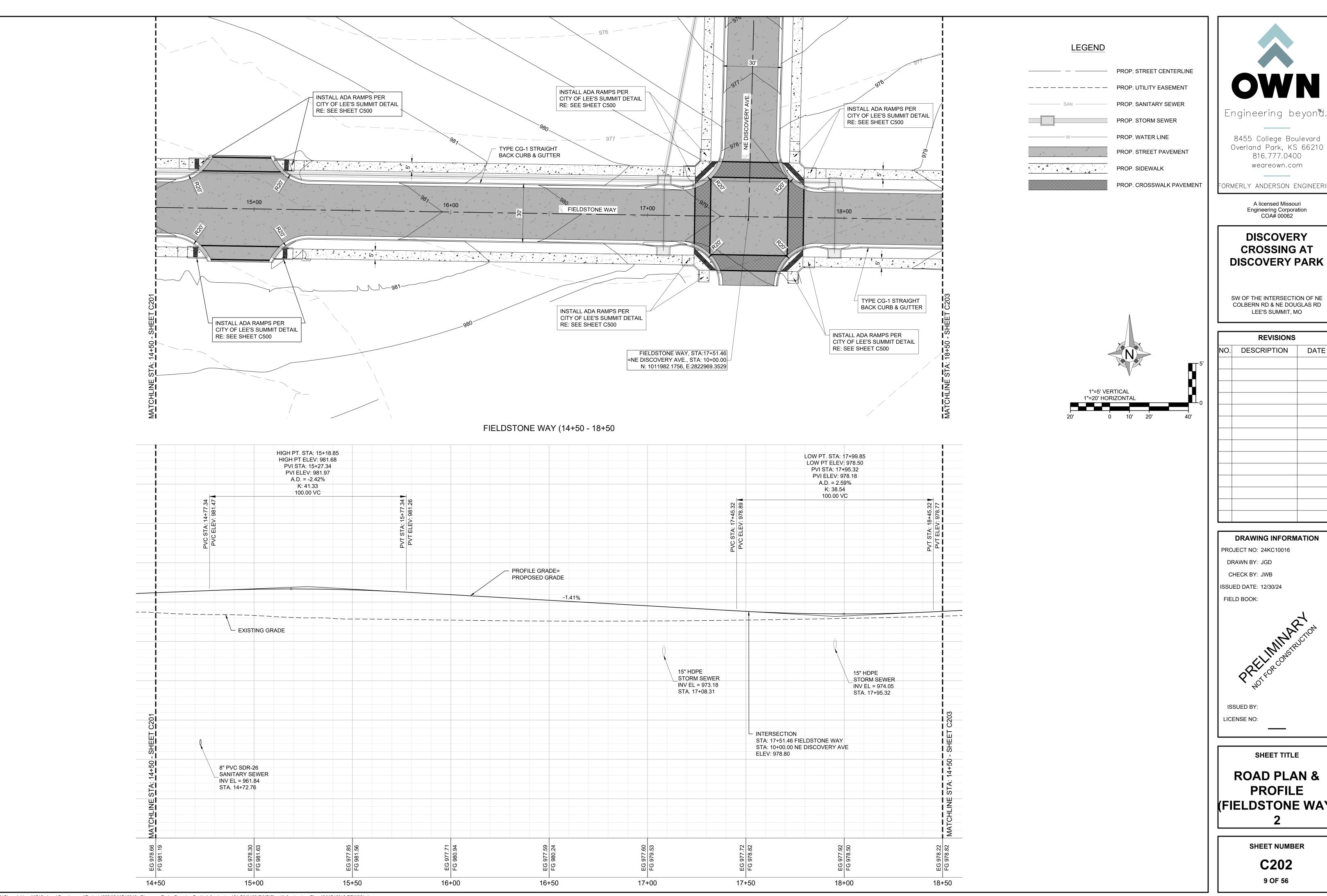




SHEET TITLE **ROAD PLAN & PROFILE** (FIELDSTONE WAY)

SHEET NUMBER

C201 8 OF 56





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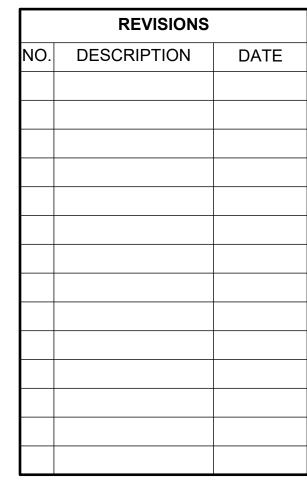
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#### **DISCOVERY CROSSING AT DISCOVERY PARK**

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO



#### DRAWING INFORMATION PROJECT NO: 24KC10016

DRAWN BY: JGD

ISSUED DATE: 12/30/24

FIELD BOOK:

LICENSE NO:

**ROAD PLAN & PROFILE** (FIELDSTONE WAY)

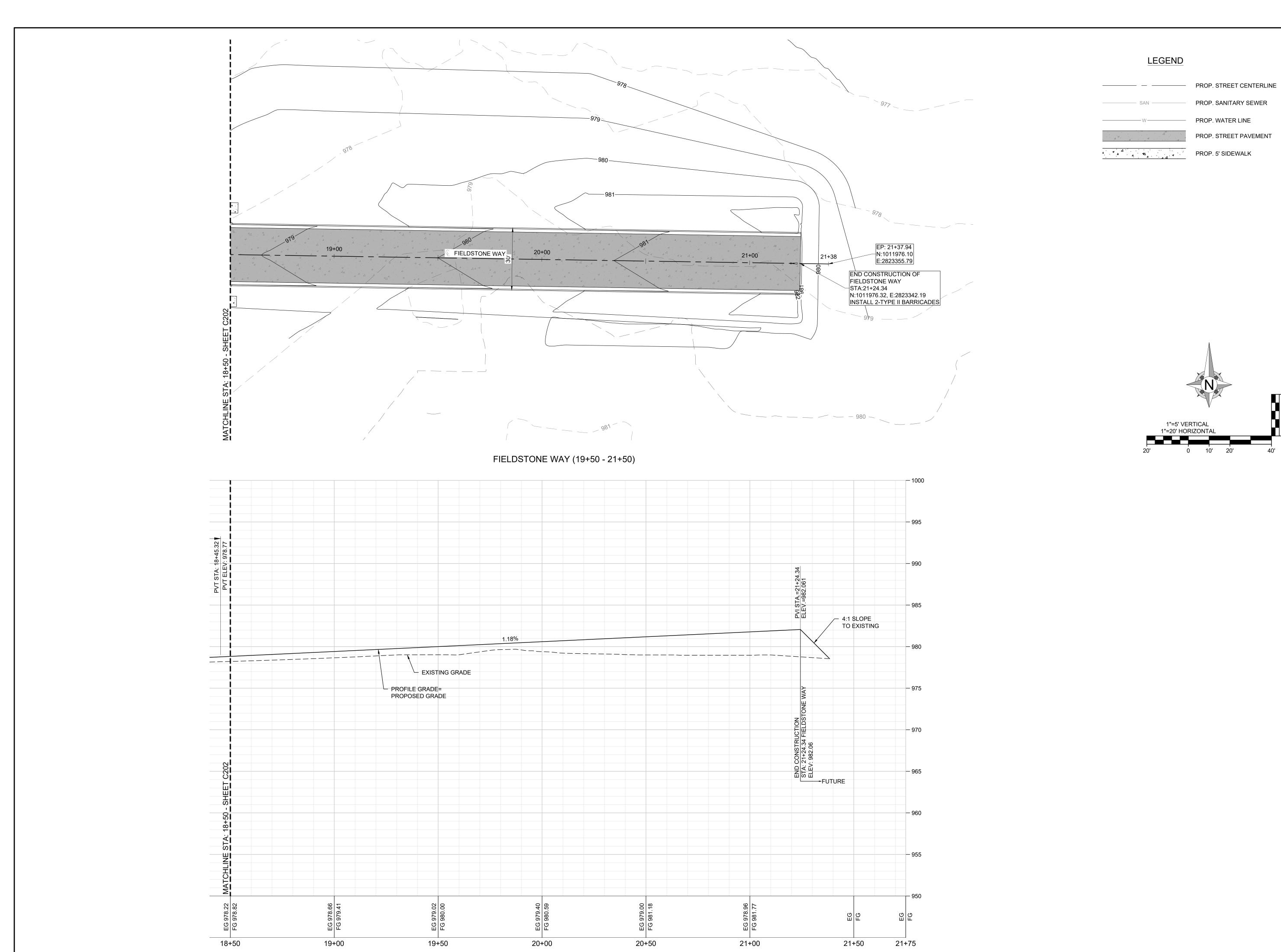
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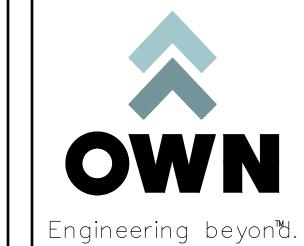
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C202

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PROP. SANITARY SEWER

PROP. STREET PAVEMENT

PROP. WATER LINE

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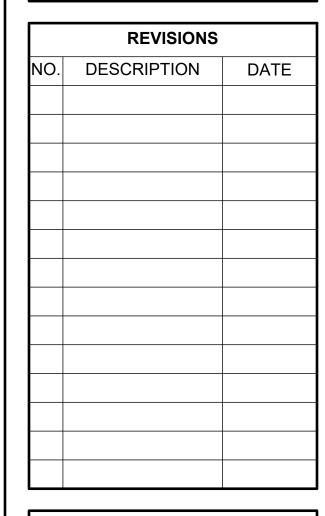
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#### **DISCOVERY CROSSING AT DISCOVERY PARK**

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO



#### DRAWING INFORMATION

PROJECT NO: 24KC10016

DRAWN BY: JGD CHECK BY: JWB

ISSUED DATE: 12/30/24

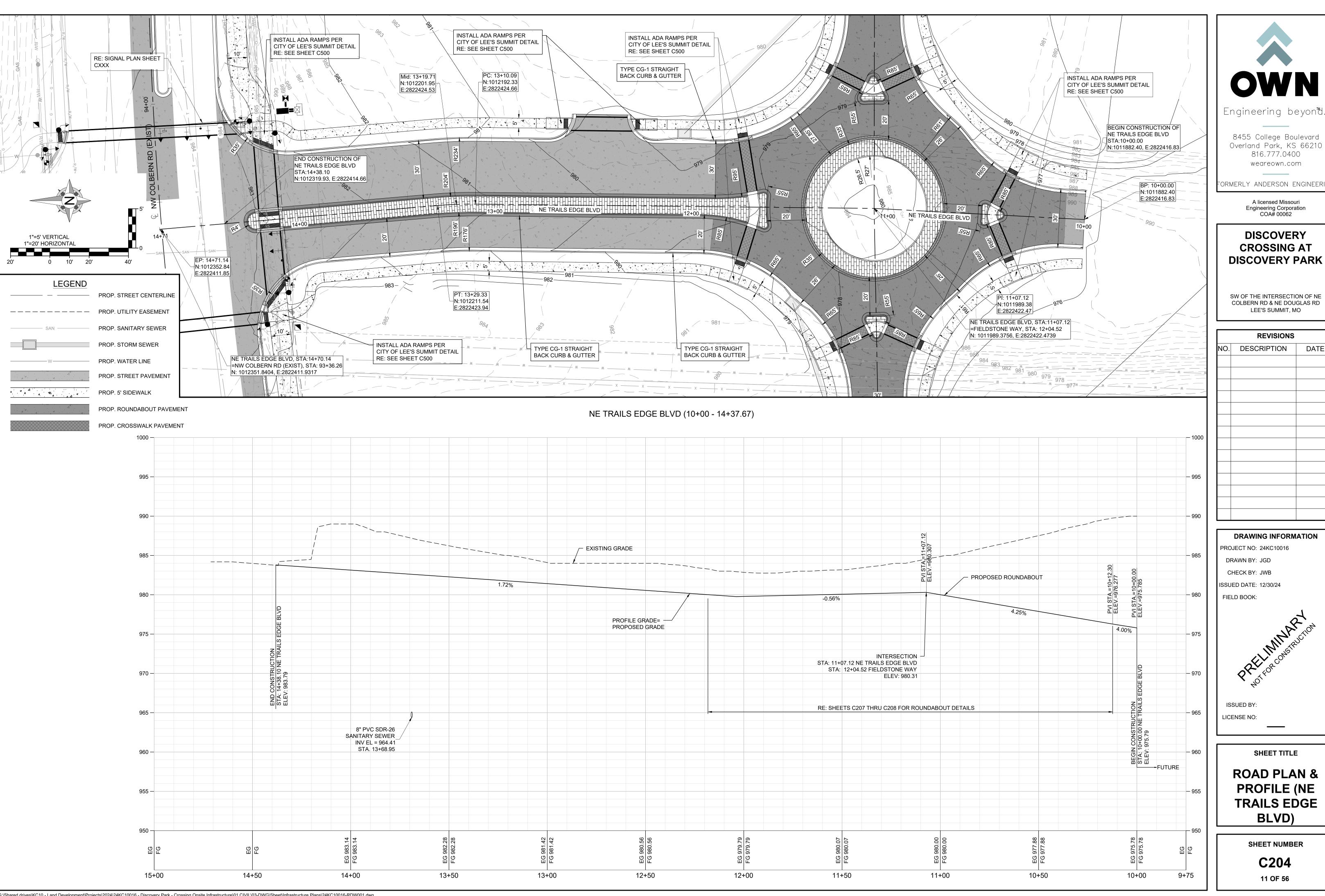
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**ROAD PLAN & PROFILE** (FIELDSTONE WAY)

SHEET TITLE

SHEET NUMBER

C203





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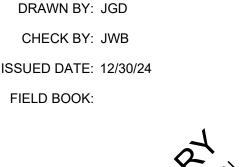
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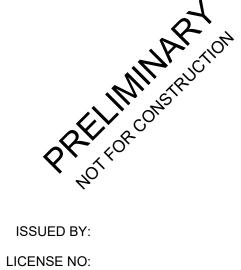
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#### **DISCOVERY CROSSING AT DISCOVERY PARK**

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO





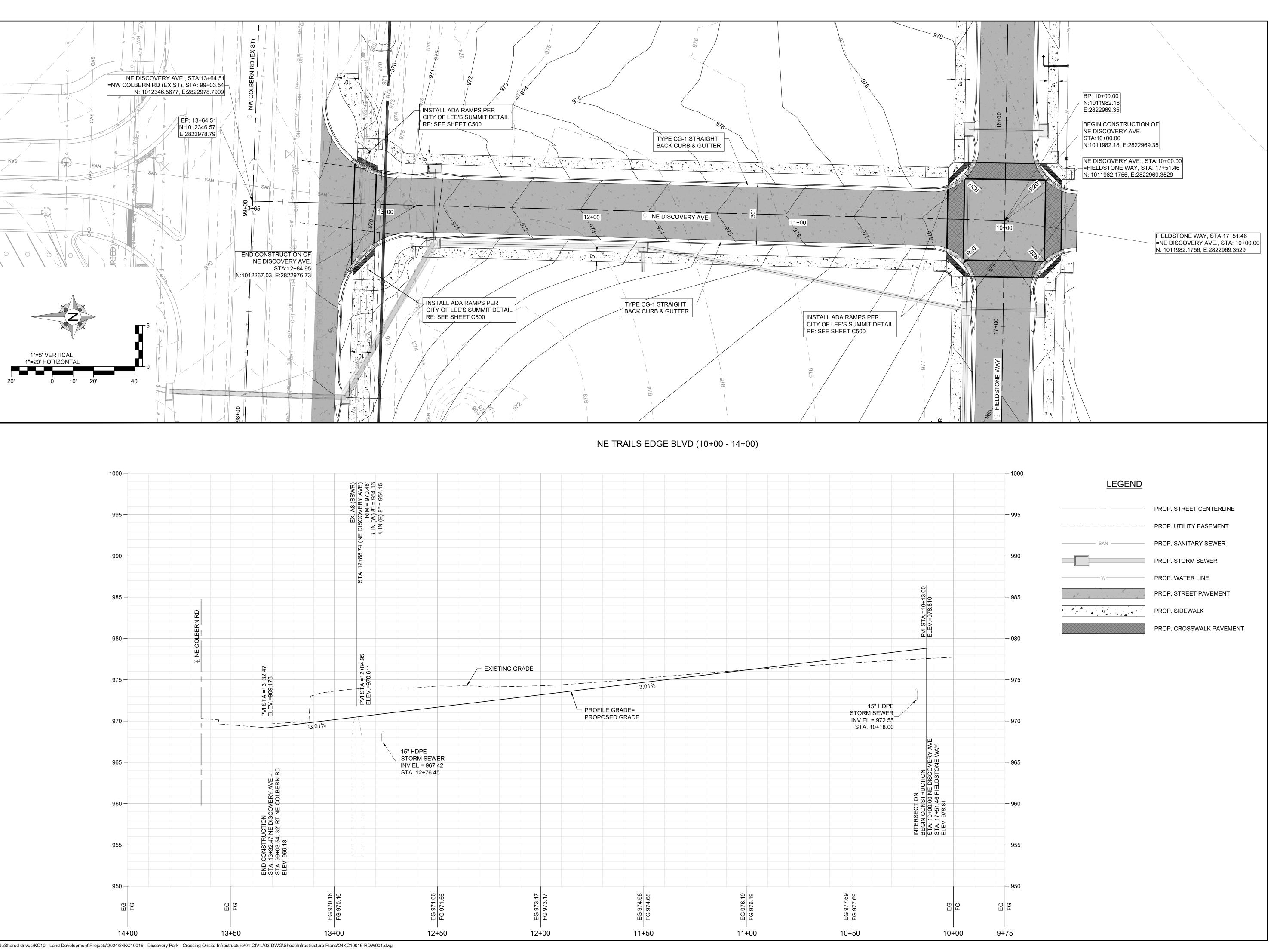


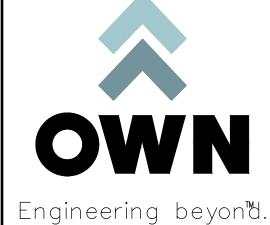
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**ROAD PLAN &** PROFILE (NE TRAILS EDGE BLVD)

SHEET NUMBER

C204 11 OF 56





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#### **DISCOVERY CROSSING AT DISCOVERY PARK**

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO



#### DRAWING INFORMATION

PROJECT NO: 24KC10016 DRAWN BY: JGD

CHECK BY: JWB ISSUED DATE: 12/30/24

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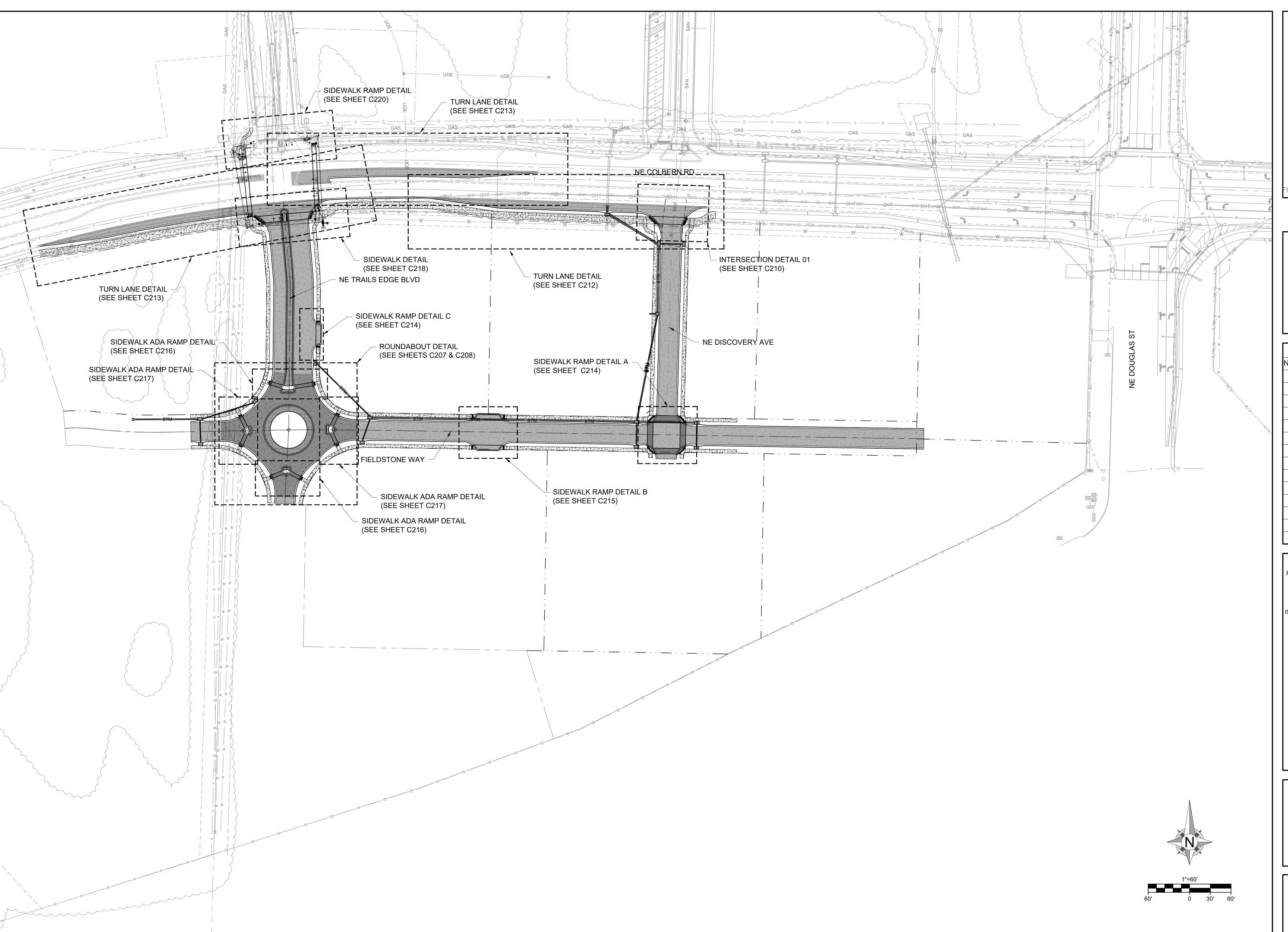


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**ROAD PLAN &** PROFILE (NE DISCOVERY AVE)

SHEET NUMBER

C205 12 OF 56



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#### DISCOVERY CROSSING AT DISCOVERY PARK

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

	REVISIONS	
NO.	DESCRIPTION	DATE

#### DRAWING INFORMATION

PROJECT NO: 24KC10016

DRAWN BY: JGD
CHECK BY: JWB

ISSUED DATE: 12/30/24

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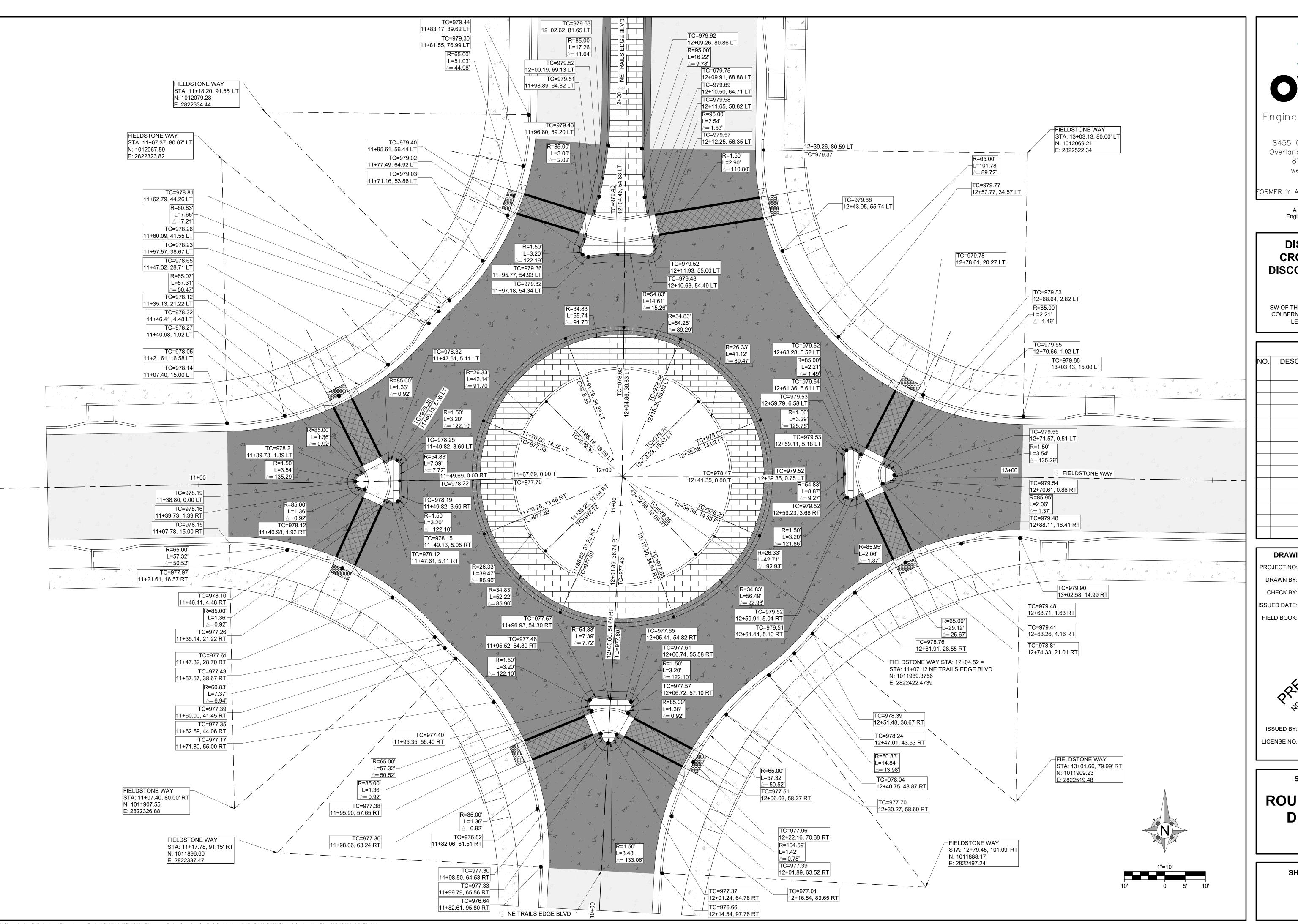
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INTERSECTION
DETAILS KEYMAP

SHEET NUMBER

C206





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#### **DISCOVERY CROSSING AT DISCOVERY PARK**

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

	REVISIONS					
NO.	DESCRIPTION	DATE				

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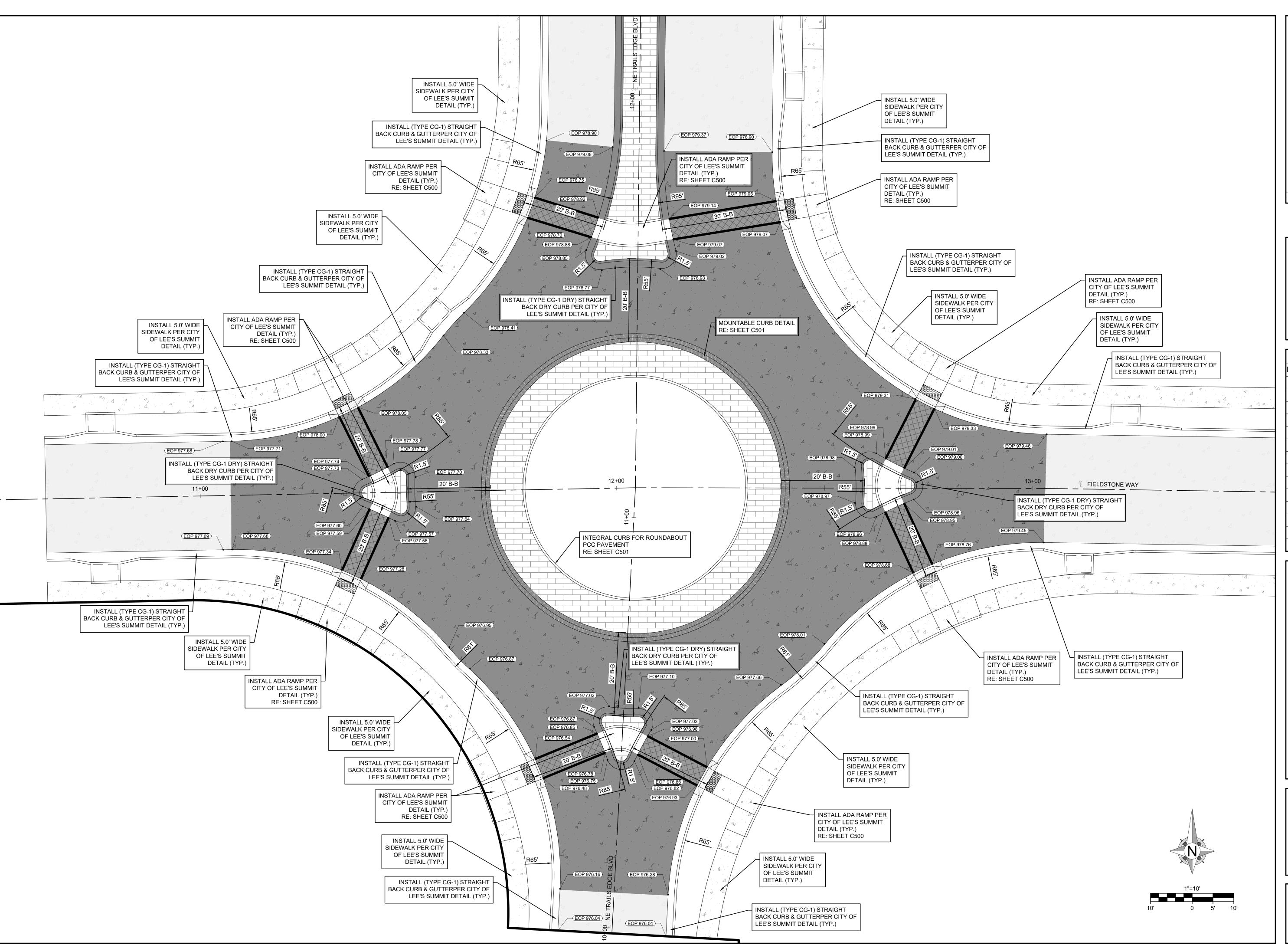


**ROUNDABOUT DETAILS** 

SHEET TITLE

**SHEET NUMBER** 

C207





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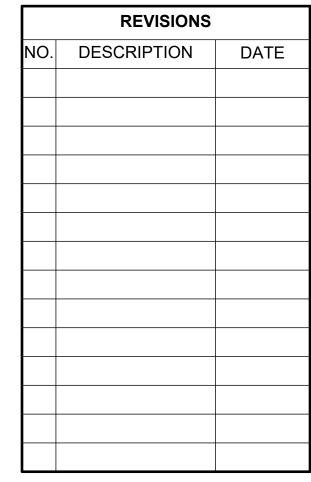
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## DISCOVERY CROSSING AT DISCOVERY PARK

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO



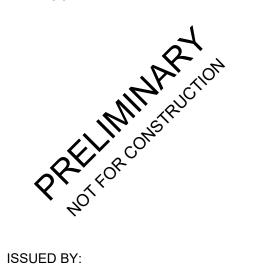
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DRAWN BY: JGD

CHECK BY: JWB

ISSUED DATE: 12/30/24
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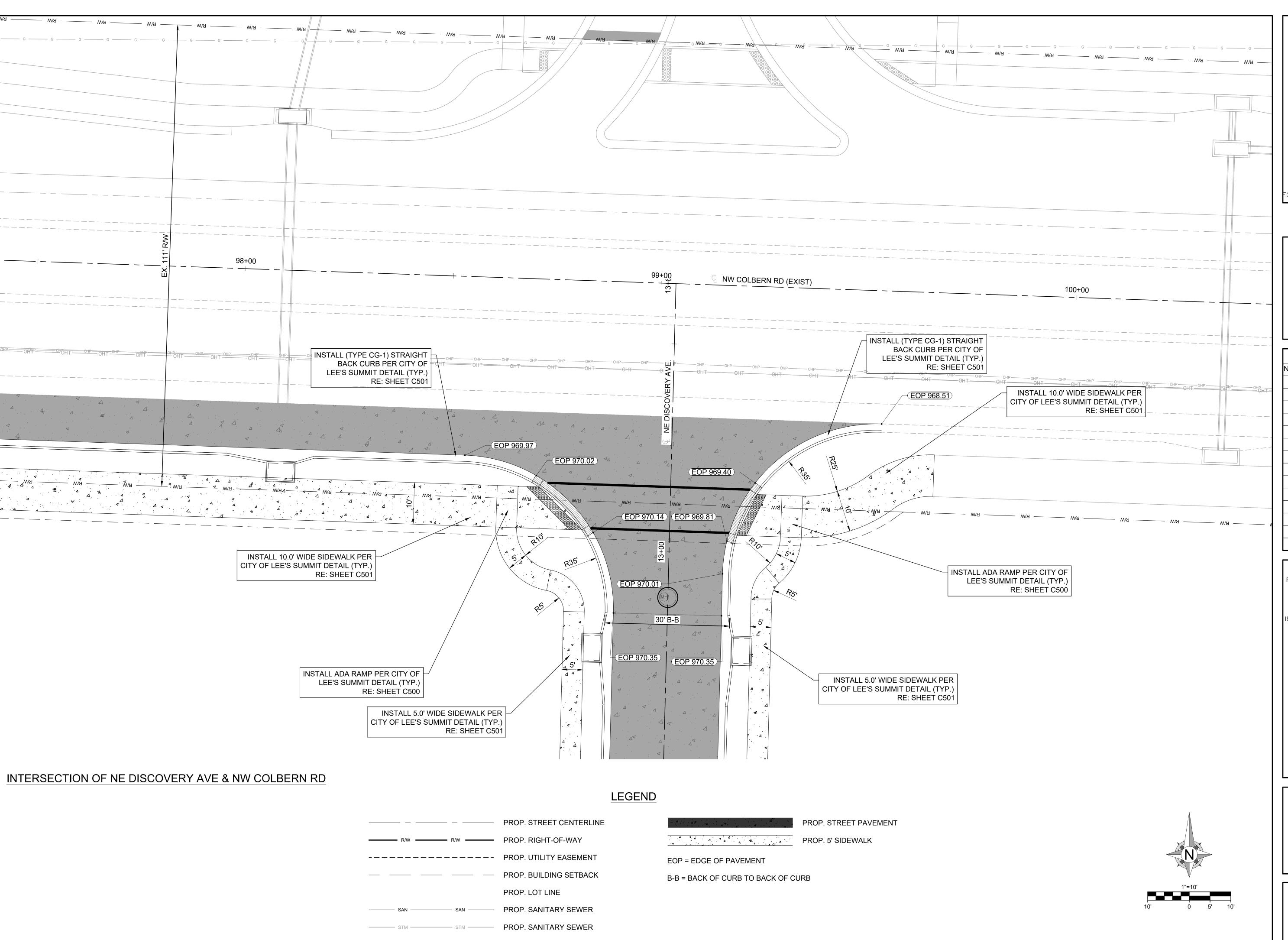
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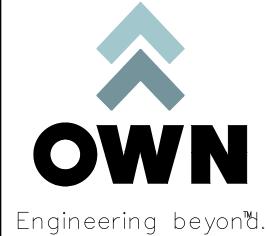
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#### DISCOVERY CROSSING AT DISCOVERY PARK

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

REVISIONS							
NO.	DESCRIPTION	DATE					

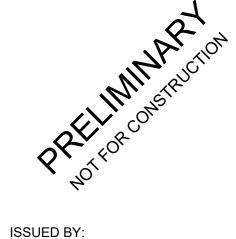
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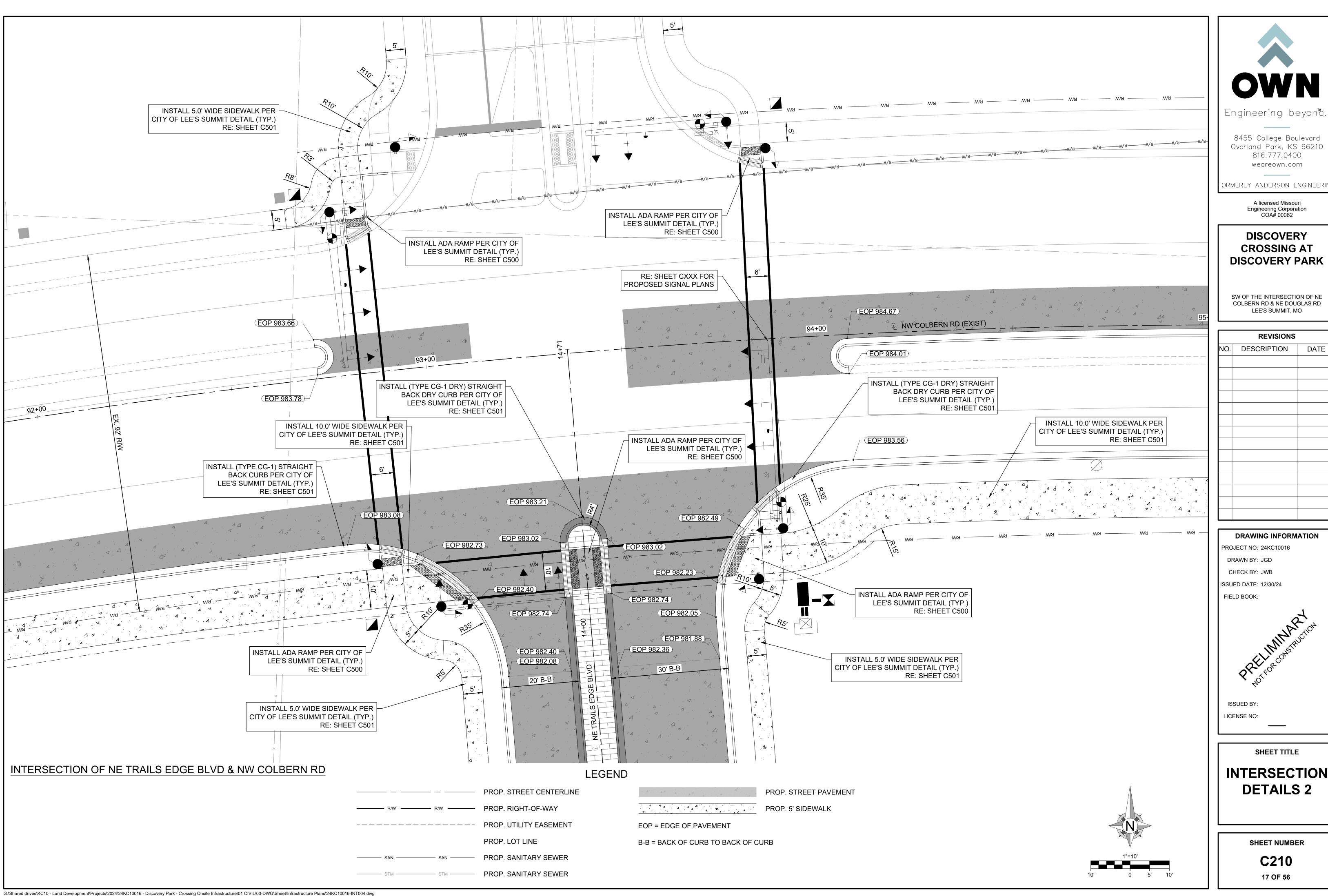
LICENSE NO:

SHEET TITLE

INTERSECTION DETAILS

SHEET NUMBER

C209



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#### **DISCOVERY CROSSING AT DISCOVERY PARK**

Engineering Corporation COA# 00062

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

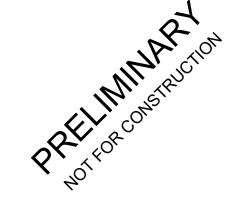
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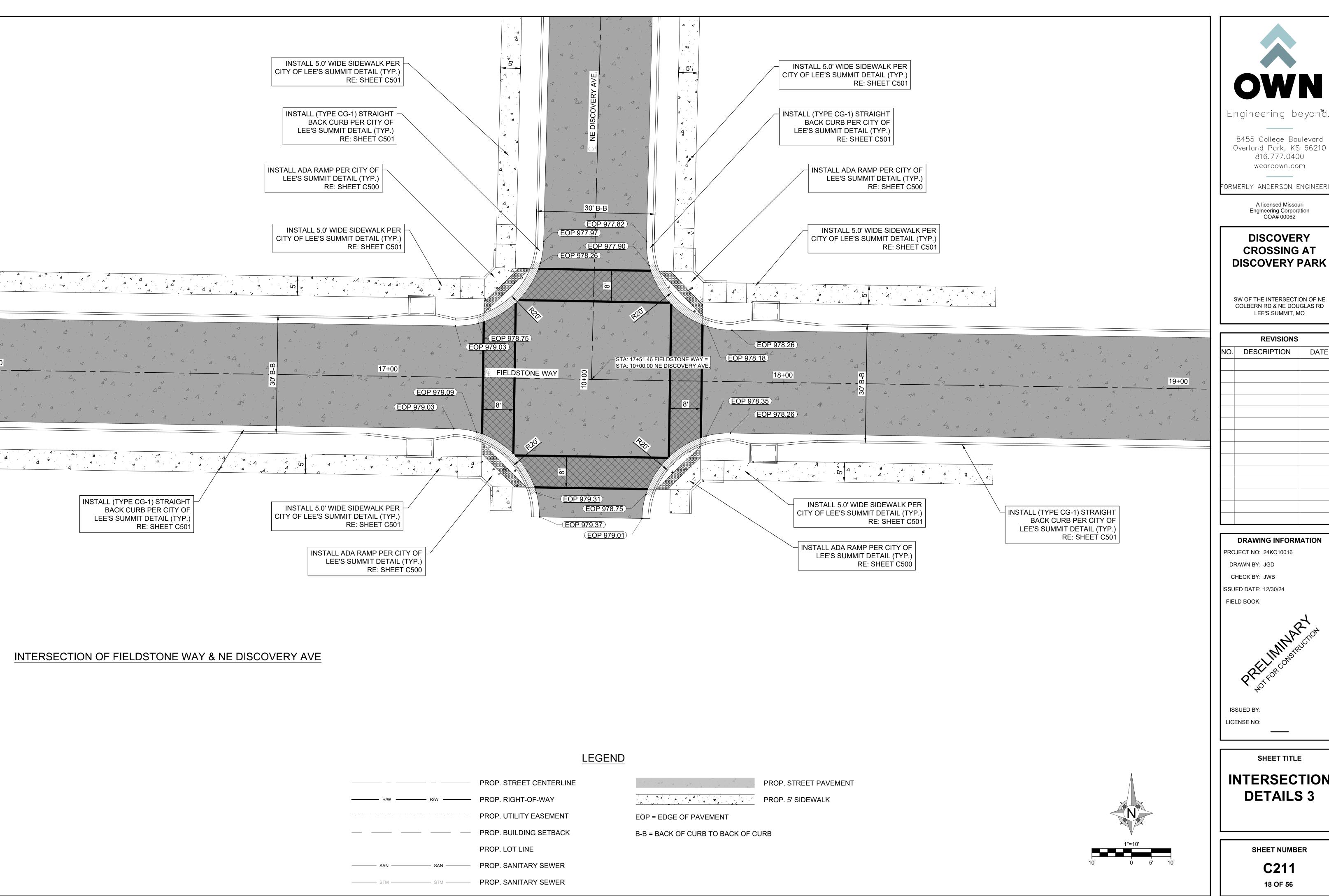
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INTERSECTION **DETAILS 2** 

SHEET NUMBER

C210



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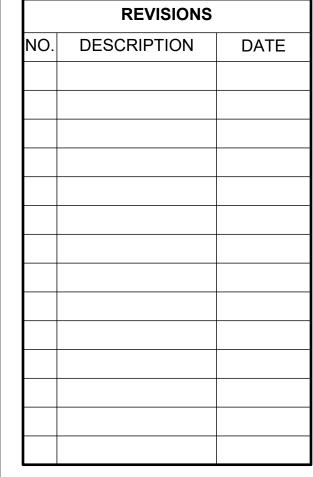
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#### **DISCOVERY CROSSING AT DISCOVERY PARK**

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO



#### DRAWING INFORMATION

DRAWN BY: JGD

CHECK BY: JWB

ISSUED DATE: 12/30/24

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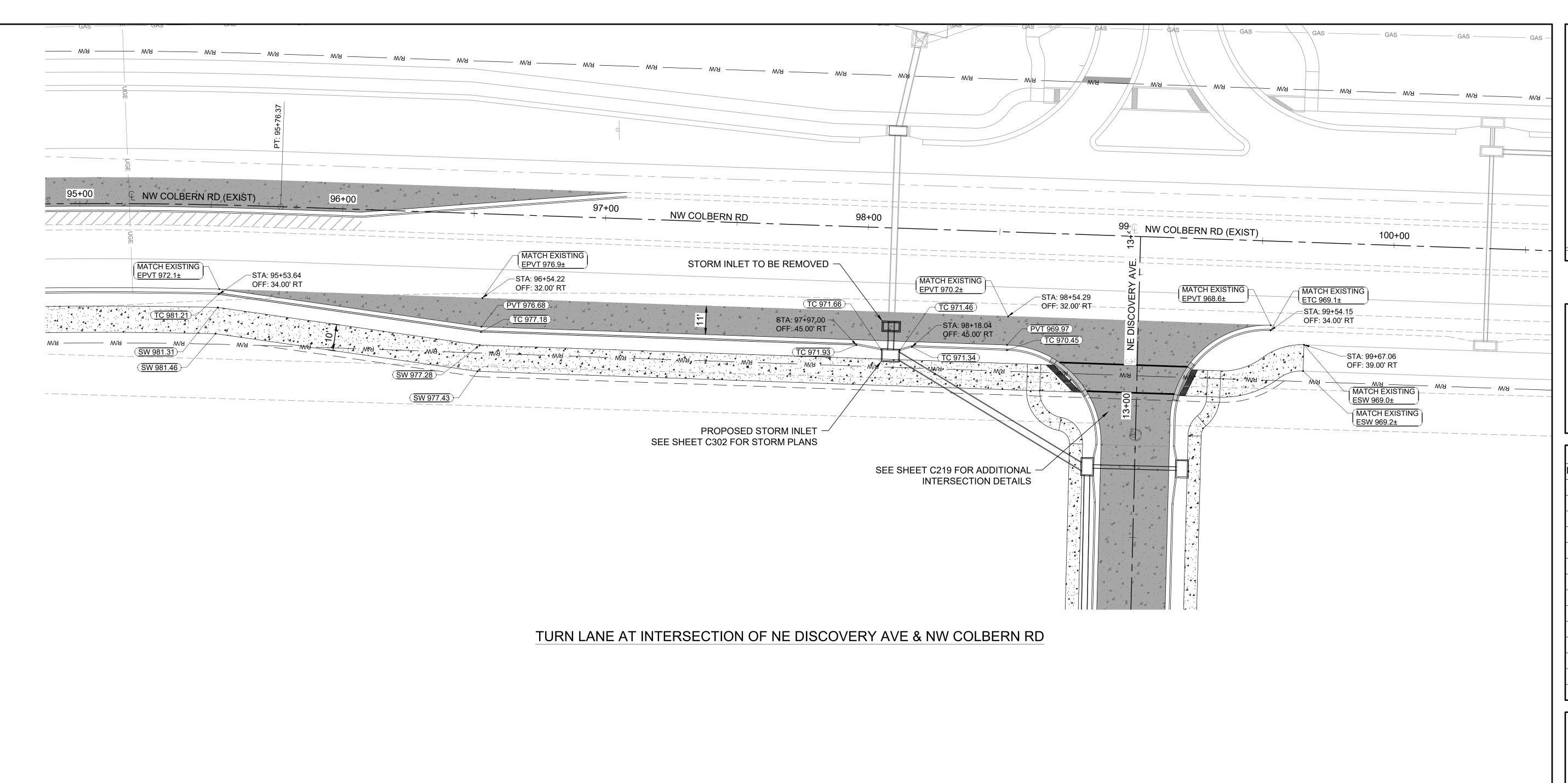
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**SHEET NUMBER** 

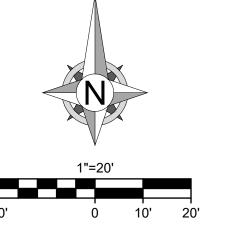
**C211** 



FIELD BOOK:

LEGEND

	 PROP. STREET CENTERLINE		PROP. STREET PAVEMENT
R/W R/W	 PROP. RIGHT-OF-WAY		PROP. 5' SIDEWALK
	 PROP. UTILITY EASEMENT	EOP = EDGE OF PAVEMENT	
	PROP. LOT LINE	B-B = BACK OF CURB TO BACK OF C	URB
SAN SAN -	 PROP. SANITARY SEWER		
STM STM -	 PROP. SANITARY SEWER		



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#### DISCOVERY CROSSING AT DISCOVERY PARK

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

REVISIONS		
NO.	DESCRIPTION	DATE

#### DRAWING INFORMATION

PROJECT NO: 24KC10016

DRAWN BY: JGD

ISSUED DATE: 12/30/24

PRELIMINARY

LICENSE NO:

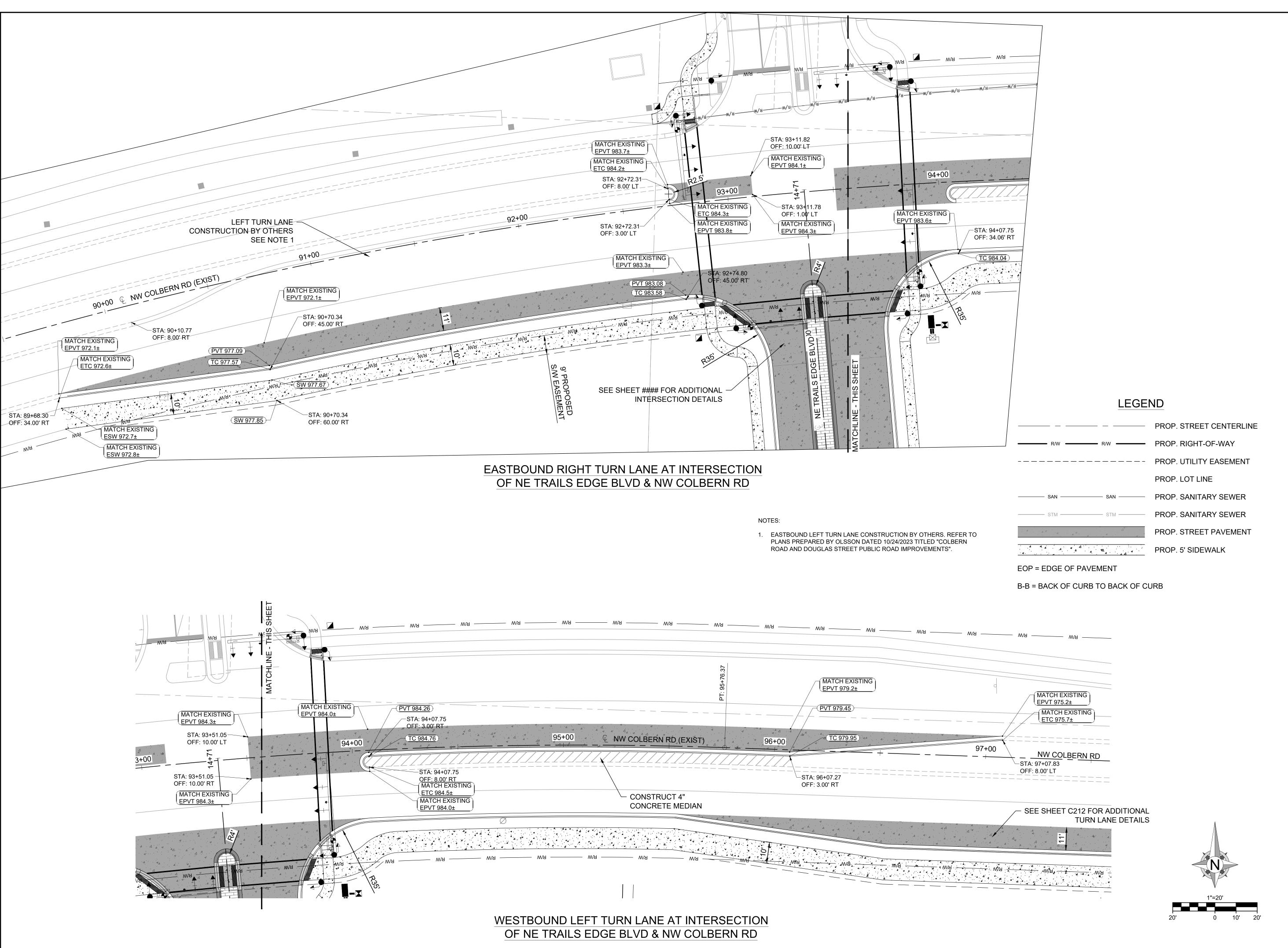
SHEET TITLE

TURN LANE DETAILS 1

SHEET NUMBER

C212
19 OF 56

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#### DISCOVERY CROSSING AT DISCOVERY PARK

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

	REVISIONS	
NO.	DESCRIPTION	DATE

#### DRAWING INFORMATION

PROJECT NO: 24KC10016 DRAWN BY: JGD

CHECK BY: JWB

ISSUED DATE: 12/30/24
FIELD BOOK:

PRELIMINAR

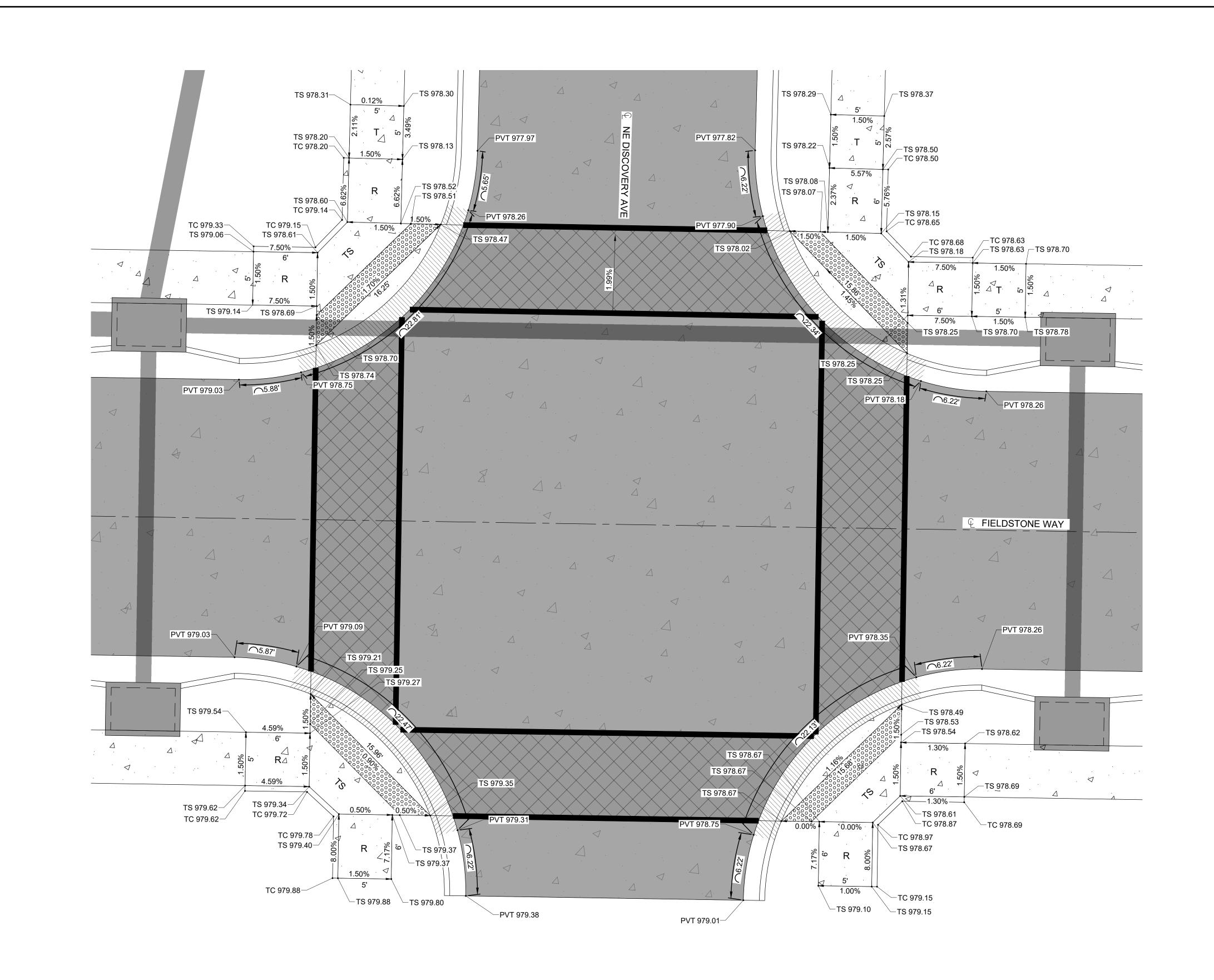
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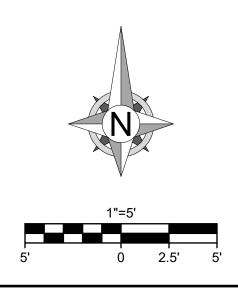
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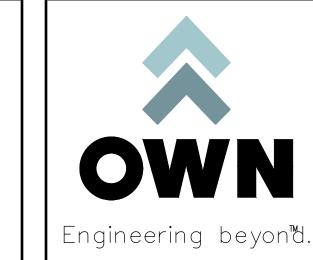
SHEET NUMBER

C213



SIDEWALK RAMP DETAIL A





LEGEND

PROP. STREET CENTERLINE

SAN — PROP. SANITARY SEWER

PROP. WATER LINE

PROP. STORM SEWER

PROP. STREET PAVEMENT

PROP. ROUNDABOUT PAVEMENT

PROP. CROSSWALK PAVEMENT

PROP. 5' SIDEWALK

---- PROP. UTILITY EASEMENT

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#### DISCOVERY CROSSING AT DISCOVERY PARK

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

REVISIONS					
NO.	DESCRIPTION	DATE			

#### DRAWING INFORMATION

PROJECT NO: 24KC10016

DRAWN BY: JGD

CHECK BY: JWB

ISSUED DATE: 12/30/24

FIELD BOOK:

PRELIMINARY

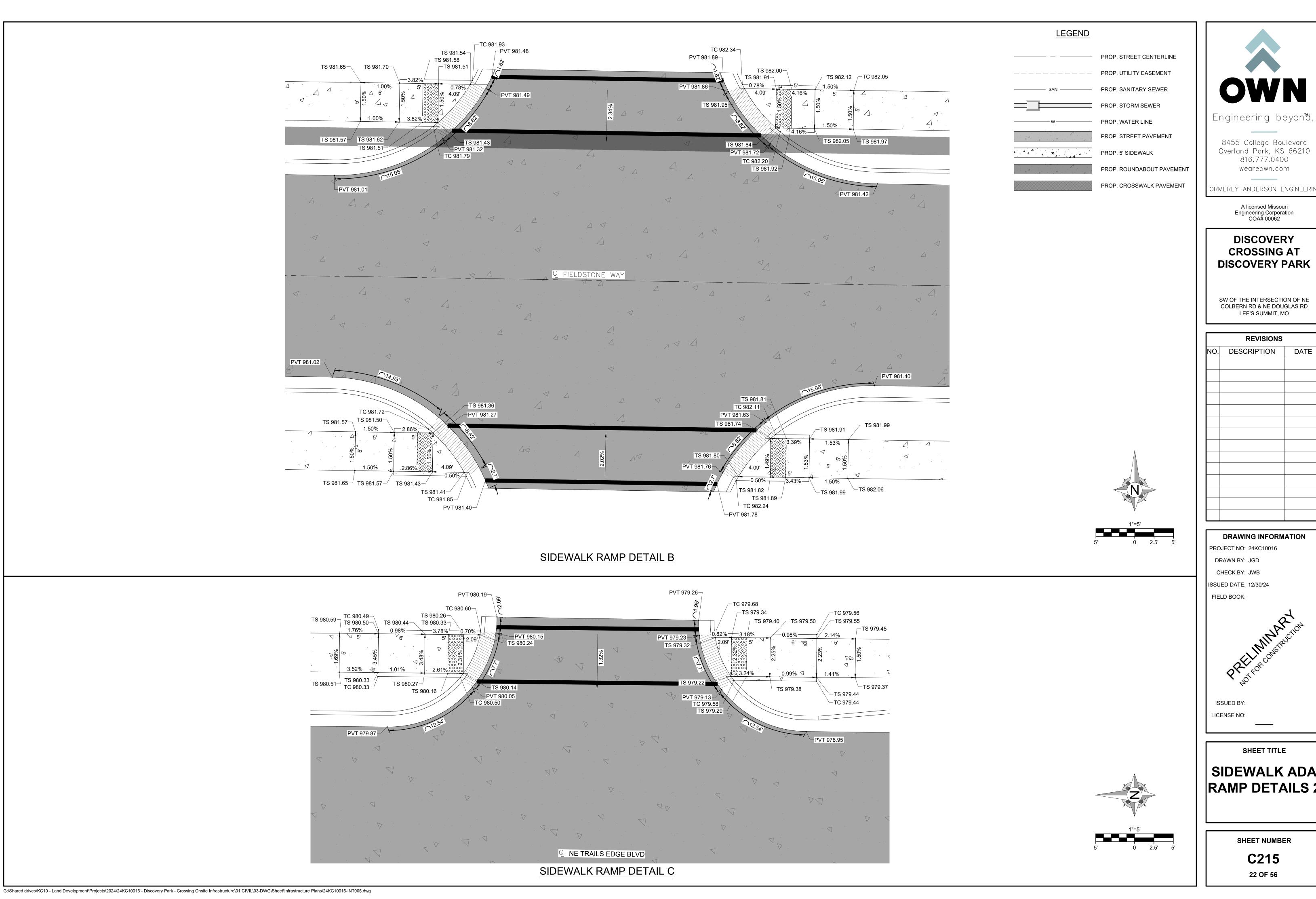
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SHEET TITLE

SIDEWALK ADA RAMP DETAILS 1

SHEET NUMBER

C214 21 OF 56





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#### **DISCOVERY CROSSING AT DISCOVERY PARK**

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

REVISIONS		
NO.	DESCRIPTION	DATE

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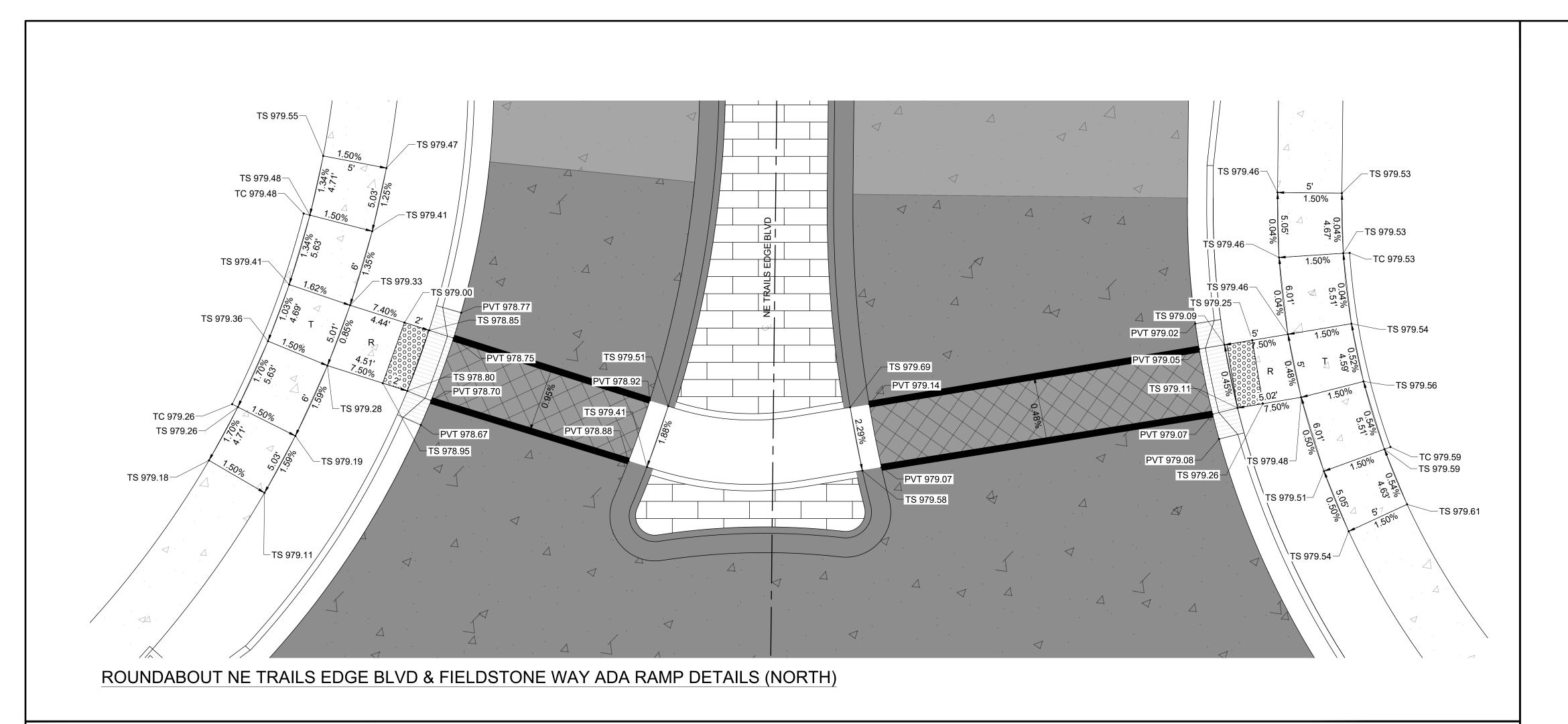
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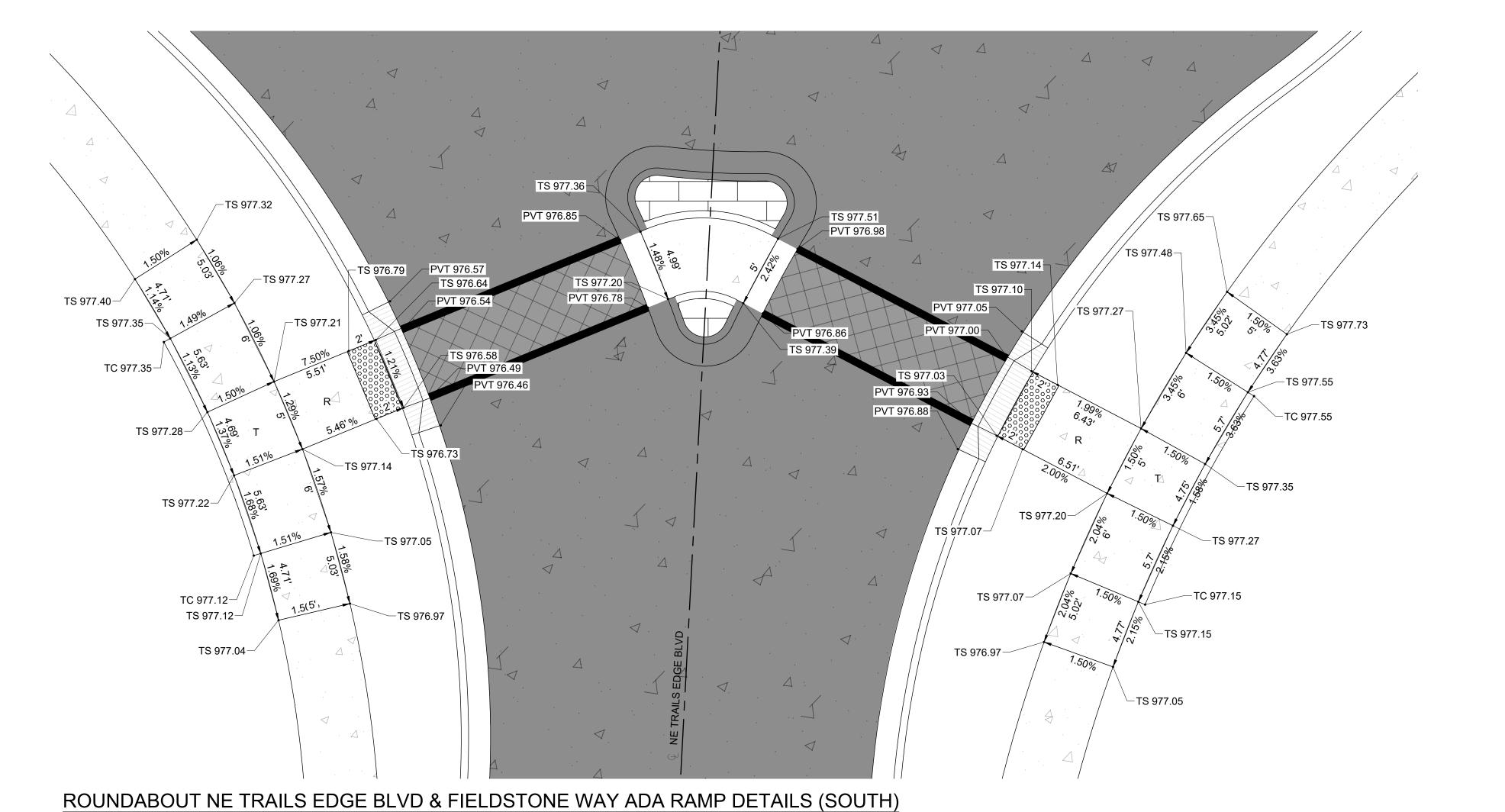
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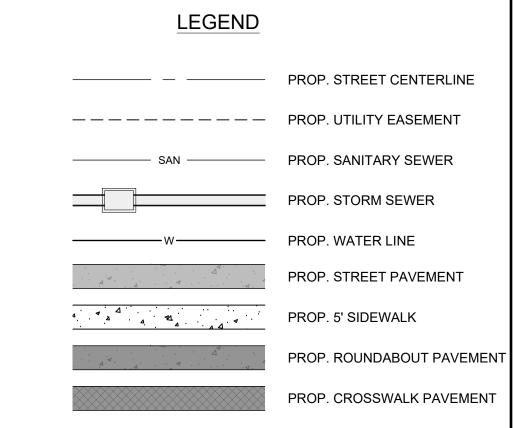
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SHEET NUMBER

C215 22 OF 56









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## DISCOVERY CROSSING AT DISCOVERY PARK

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

REVISIONS		
NO.	DESCRIPTION	DATE

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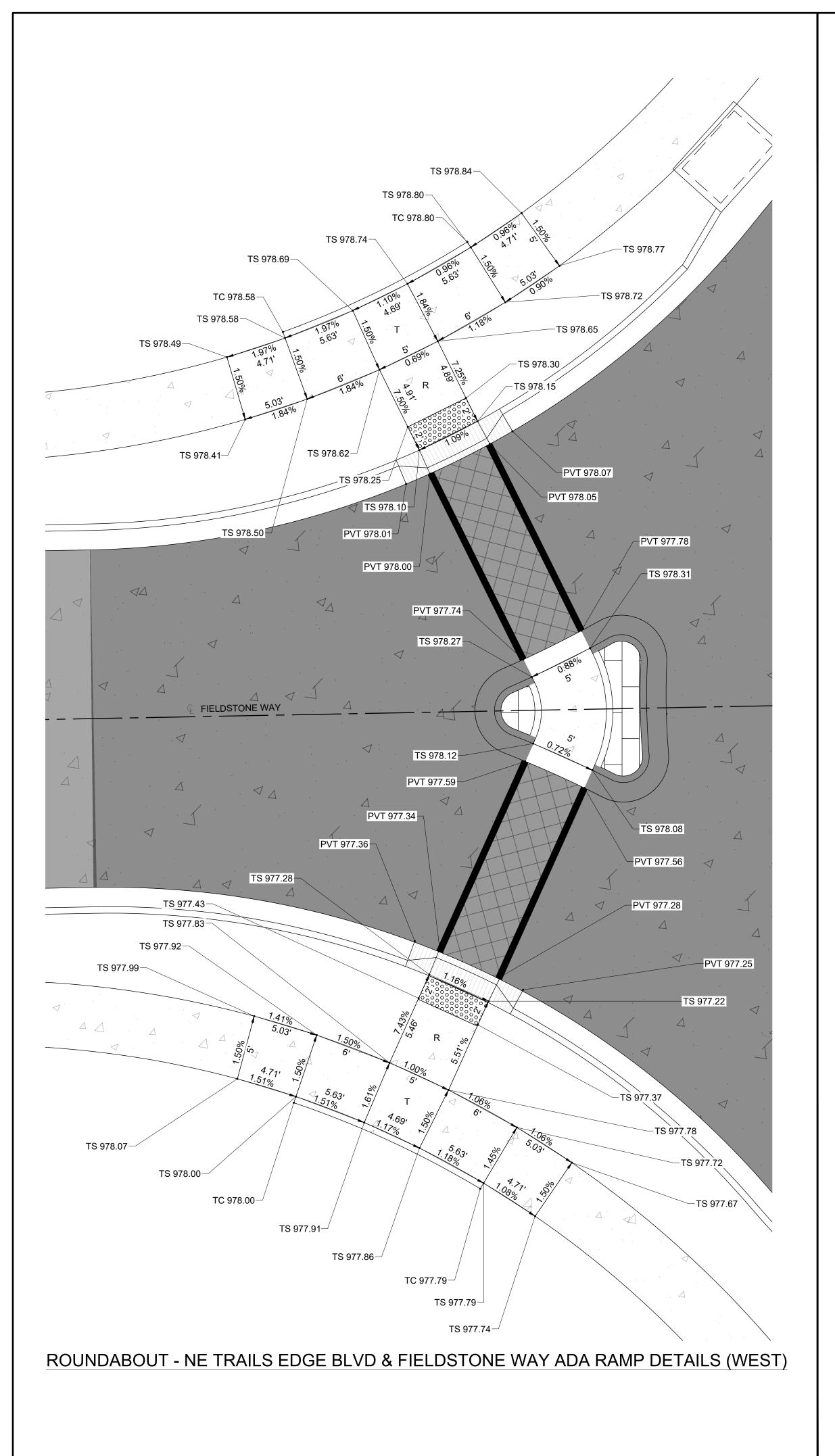
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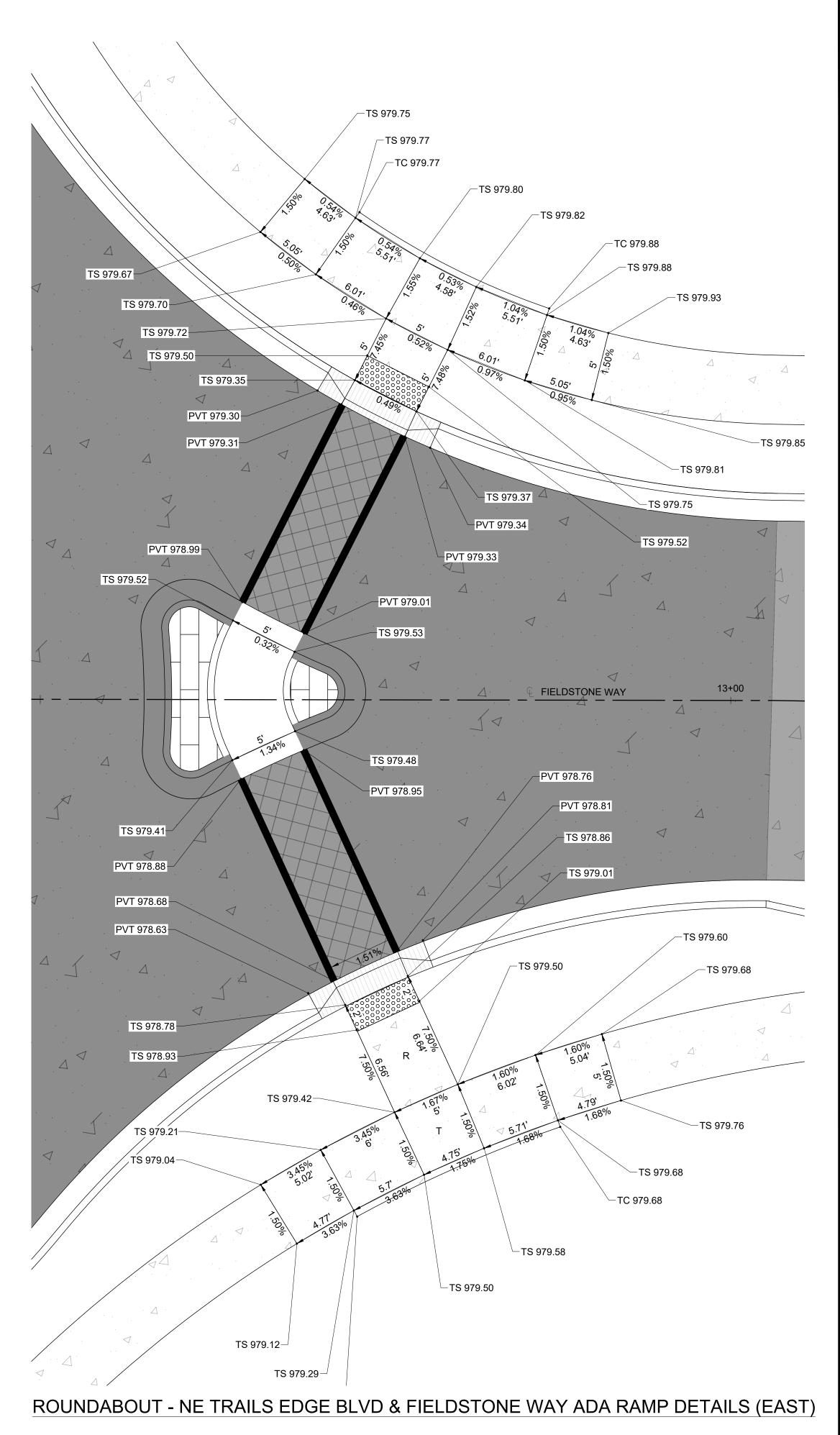
SIDEWALK ADA

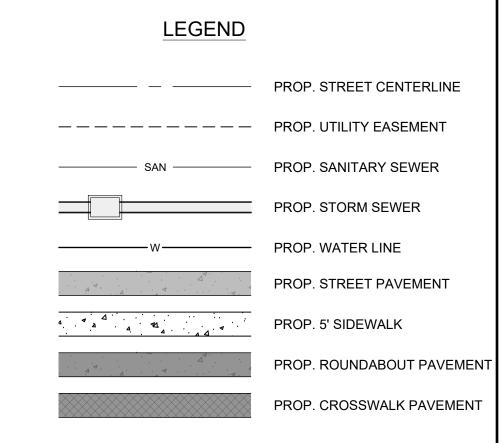
RAMP DETAILS 3

SHEET NUMBER

C216
23 OF 56









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#### DISCOVERY CROSSING AT DISCOVERY PARK

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

REVISIONS		
NO.	DESCRIPTION	DATE

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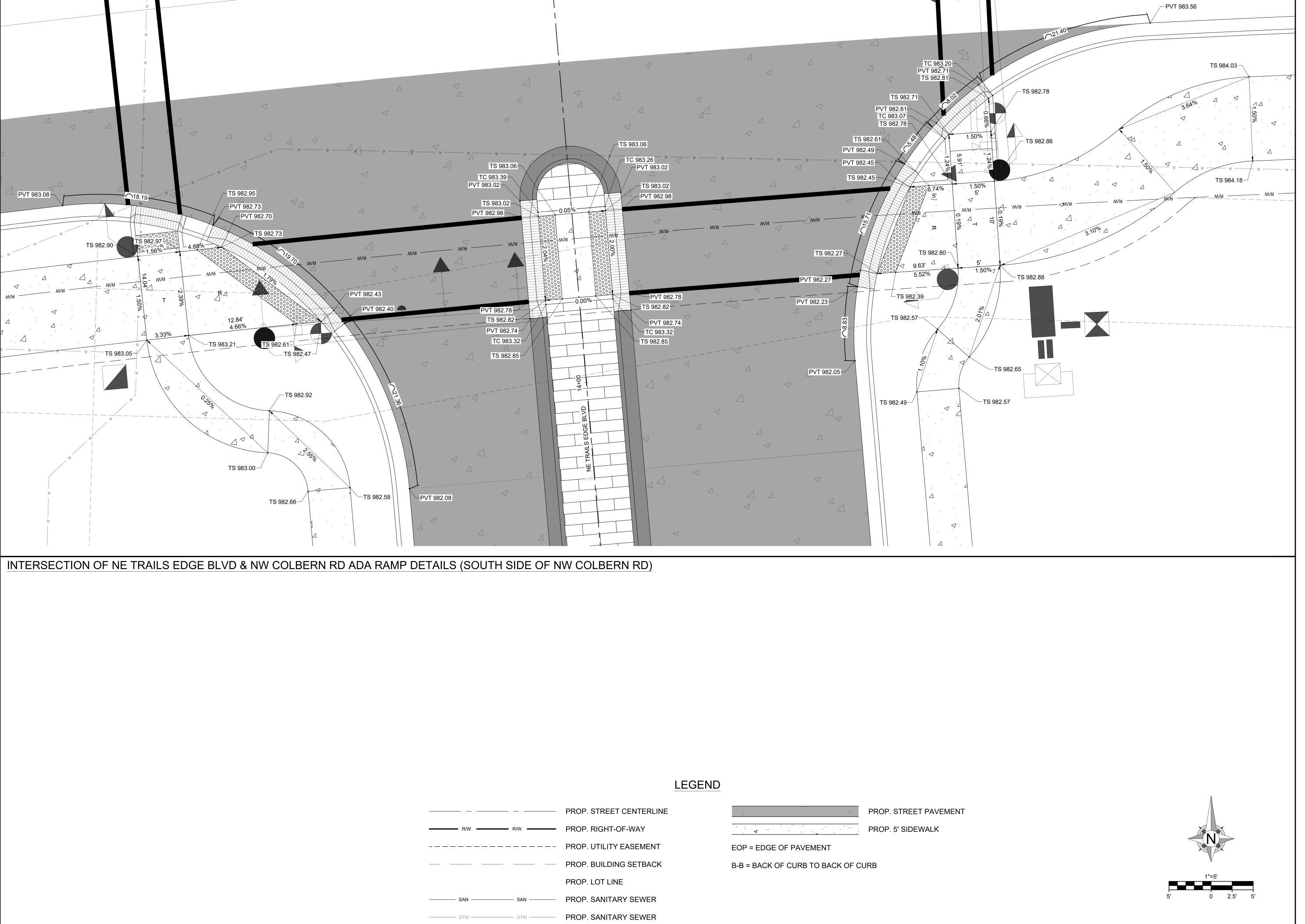
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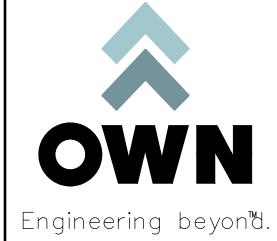
SIDEWALK ADA

RAMP DETAILS 4

SHEET NUMBER

**C217**24 OF 56





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## DISCOVERY CROSSING AT DISCOVERY PARK

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

REVISIONS		
NO.	DESCRIPTION	DATE

#### DRAWING INFORMATION

PROJECT NO: 24KC10016

DRAWN BY: JGD

CHECK BY: JWB

ISSUED DATE: 12/30/24
FIELD BOOK:

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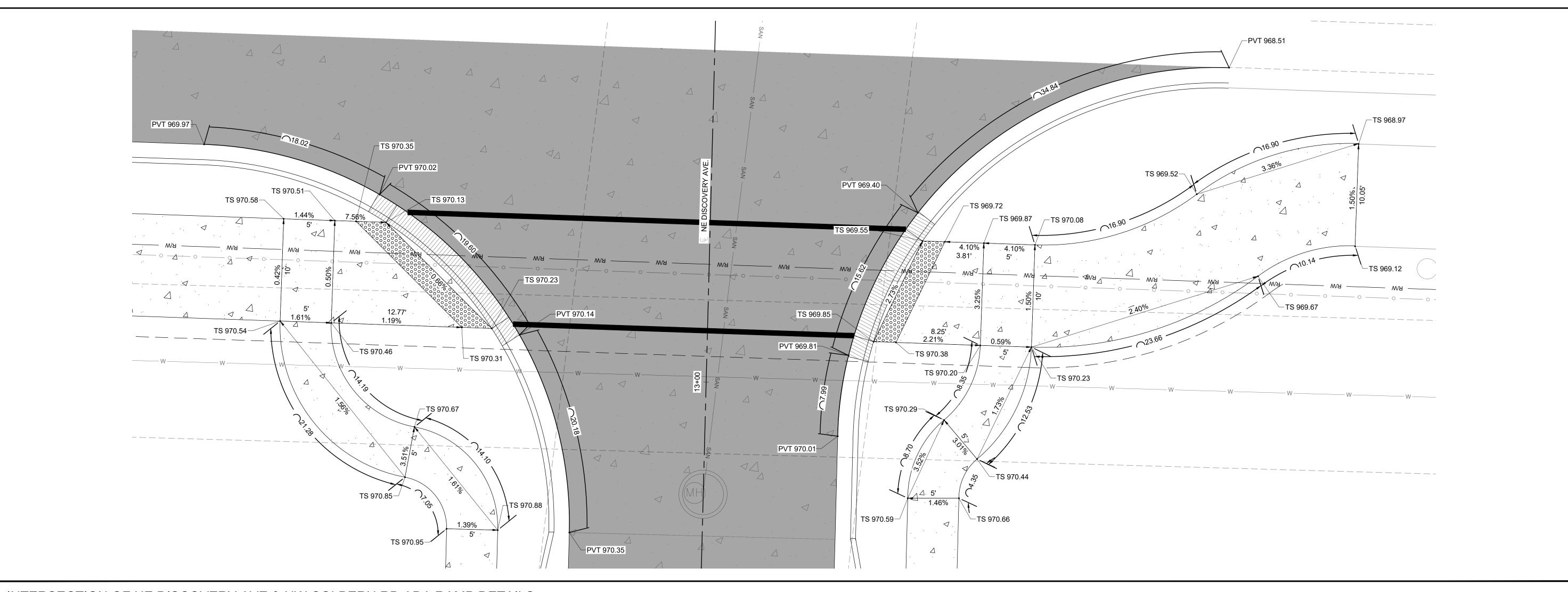
LICENSE NO:

SHEET TITLE

SIDEWALK ADA RAMP DETAILS 5

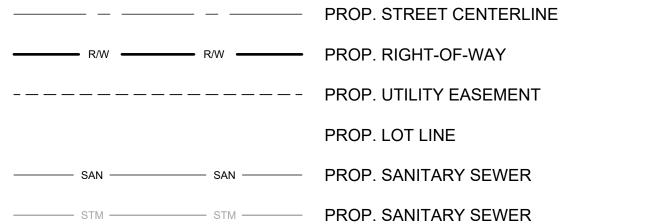
SHEET NUMBER

C218
25 OF 56



INTERSECTION OF NE DISCOVERY AVE & NW COLBERN RD ADA RAMP DETAILS

#### LEGEND

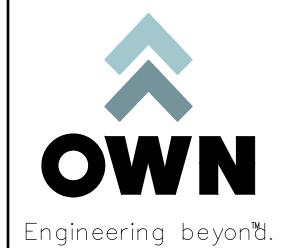


PROP. STREET PAVEMENT

PROP. 5' SIDEWALK

EOP = EDGE OF PAVEMENT

B-B = BACK OF CURB TO BACK OF CURB



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## DISCOVERY CROSSING AT DISCOVERY PARK

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

REVISIONS		
NO.	DESCRIPTION	DATE

#### DRAWING INFORMATION

PROJECT NO: 24KC10016

DRAWN BY: JGD
CHECK BY: JWB

FIELD BOOK:

ISSUED DATE: 12/30/24

RELIMINARY OR ONE TRUCTION

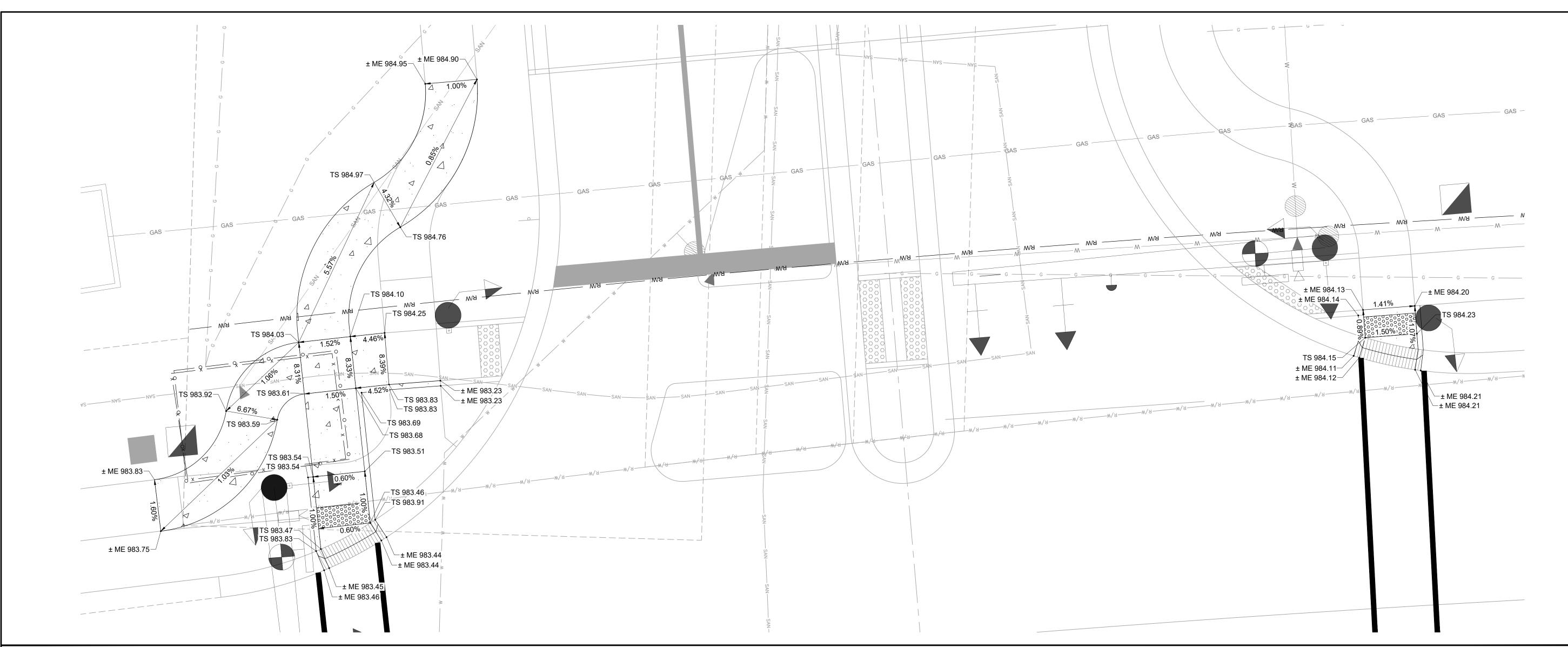
ISSUED BY: LICENSE NO:

SHEET TITLE

SIDEWALK ADA RAMP DETAILS 6

SHEET NUMBER

C219 26 OF 56



INTERSECTION OF NE TRAILS EDGE BLVD & NW COLBERN RD ADA RAMP DETAILS (NORTH SIDE OF NW COLBERN RD)

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO **REVISIONS** NO. DESCRIPTION

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**DISCOVERY** 

**CROSSING AT** 

**DISCOVERY PARK** 

#### DRAWING INFORMATION

PROJECT NO: 24KC10016

CHECK BY: JWB

DRAWN BY: JGD

ISSUED DATE: 12/30/24 FIELD BOOK:

ISSUED BY:

LICENSE NO:

SHEET TITLE

SIDEWALK ADA RAMP DETAILS 7

SHEET NUMBER

C220

27 OF 56

LEGEND

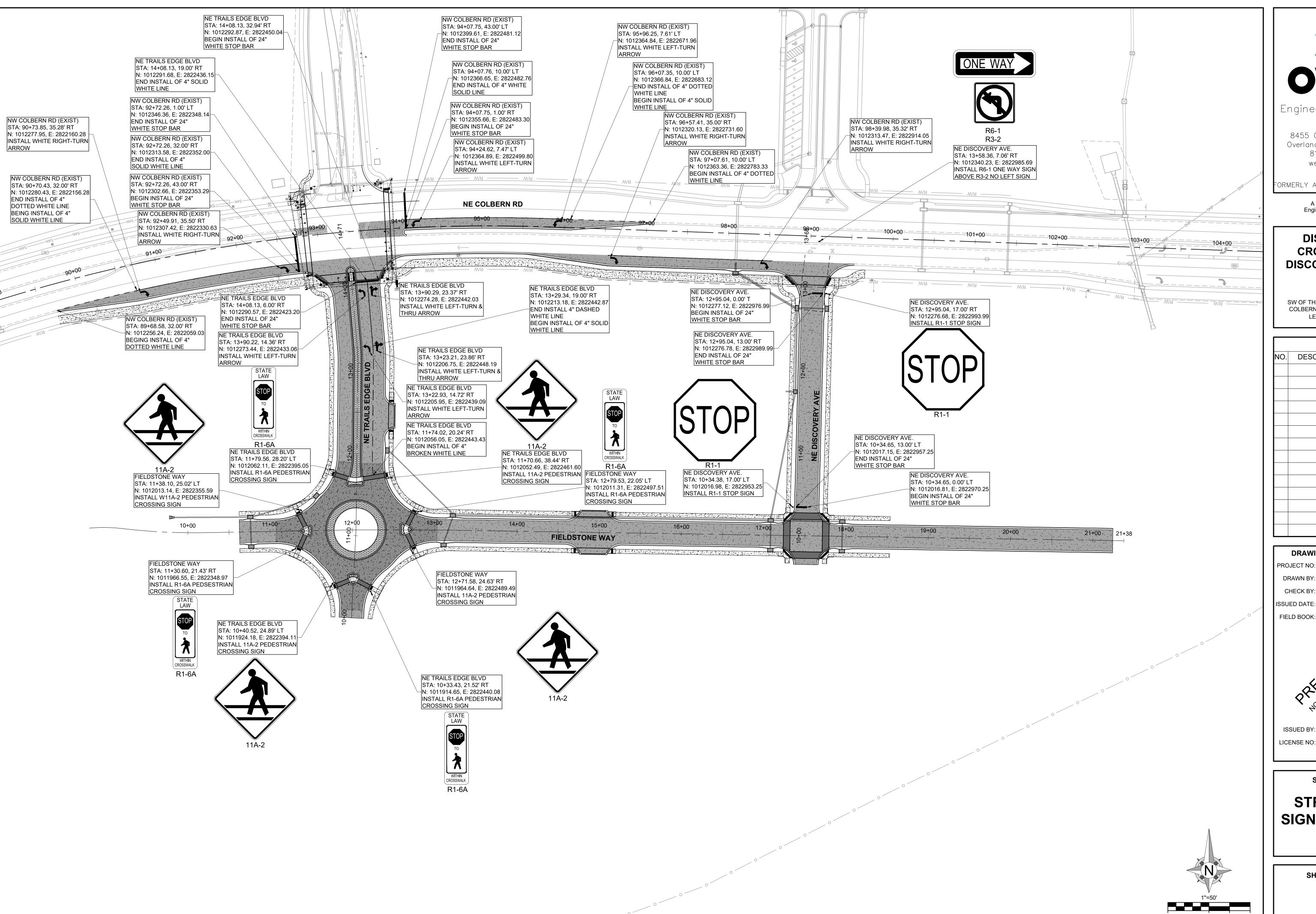
PROP. STREET CENTERLINE RW ———— PROP. RIGHT-OF-WAY ---- PROP. UTILITY EASEMENT PROP. LOT LINE ----- SAN ------ PROP. SANITARY SEWER

PROP. STREET PAVEMENT PROP. 5' SIDEWALK

EOP = EDGE OF PAVEMENT

B-B = BACK OF CURB TO BACK OF CURB

G:\Shared drives\KC10 - Land Development\Projects\2024\24KC10016 - Discovery Park - Crossing Onsite Infrastructure\01 CIVIL\03-DWG\Sheet\Infrastructure Plans\24KC10016-INT007.dwg





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#### **DISCOVERY CROSSING AT DISCOVERY PARK**

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

REVISIONS		
NO.	DESCRIPTION	DATE

#### DRAWING INFORMATION

PROJECT NO: 24KC10016 DRAWN BY: JGD

CHECK BY: JWB

ISSUED DATE: 12/30/24

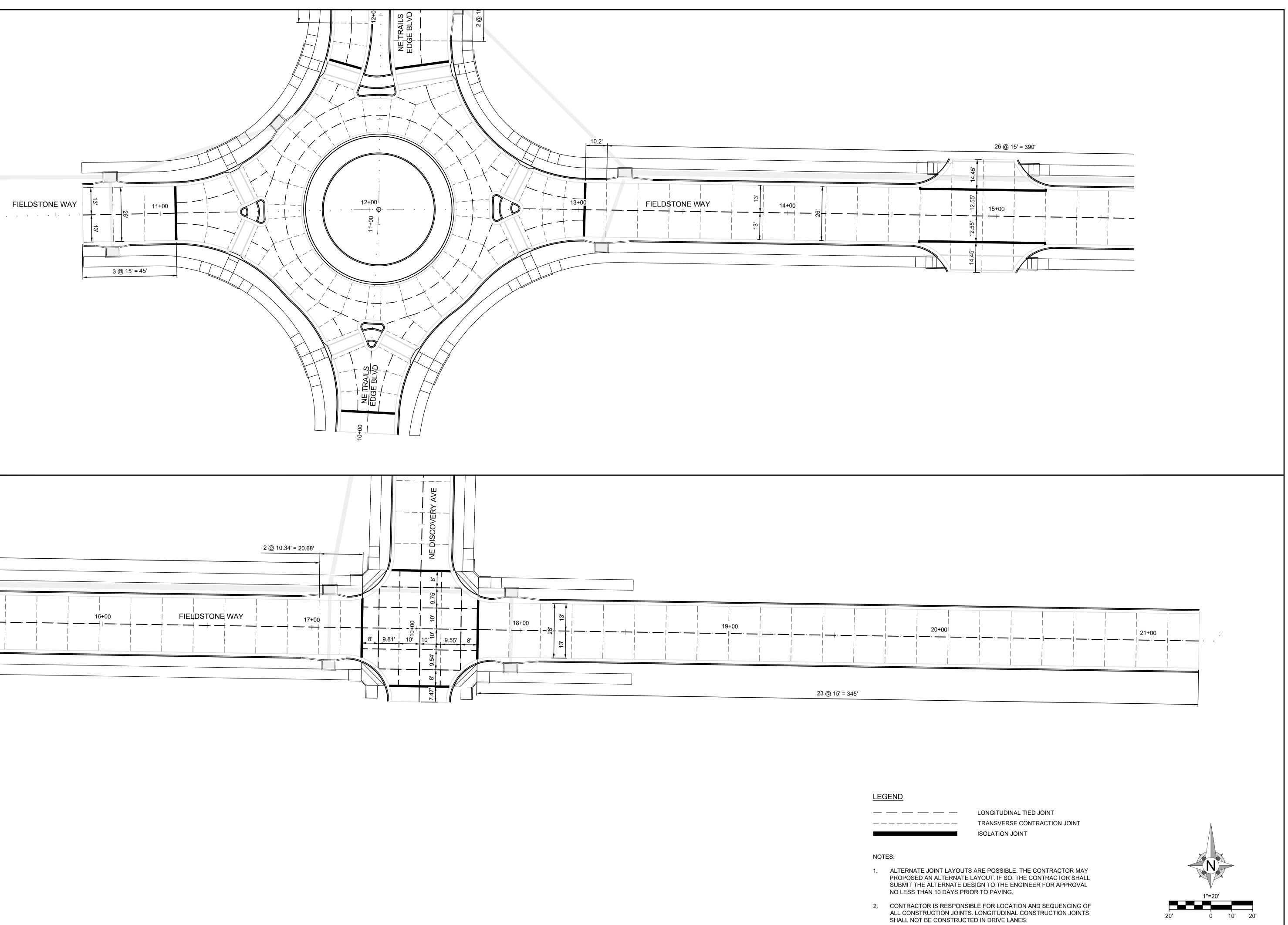
ISSUED BY:

SHEET TITLE

**STRIPING & SIGNAGE PLAN** 

**SHEET NUMBER** 

**C221** 28 OF 56



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#### DISCOVERY CROSSING AT DISCOVERY PARK

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

REVISIONS		
NO.	DESCRIPTION	DATE

#### DRAWING INFORMATION

PROJECT NO: 24KC10016

DRAWN BY: JGD

CHECK BY: JWB

ISSUED DATE: 12/30/24

FIELD BOOK:

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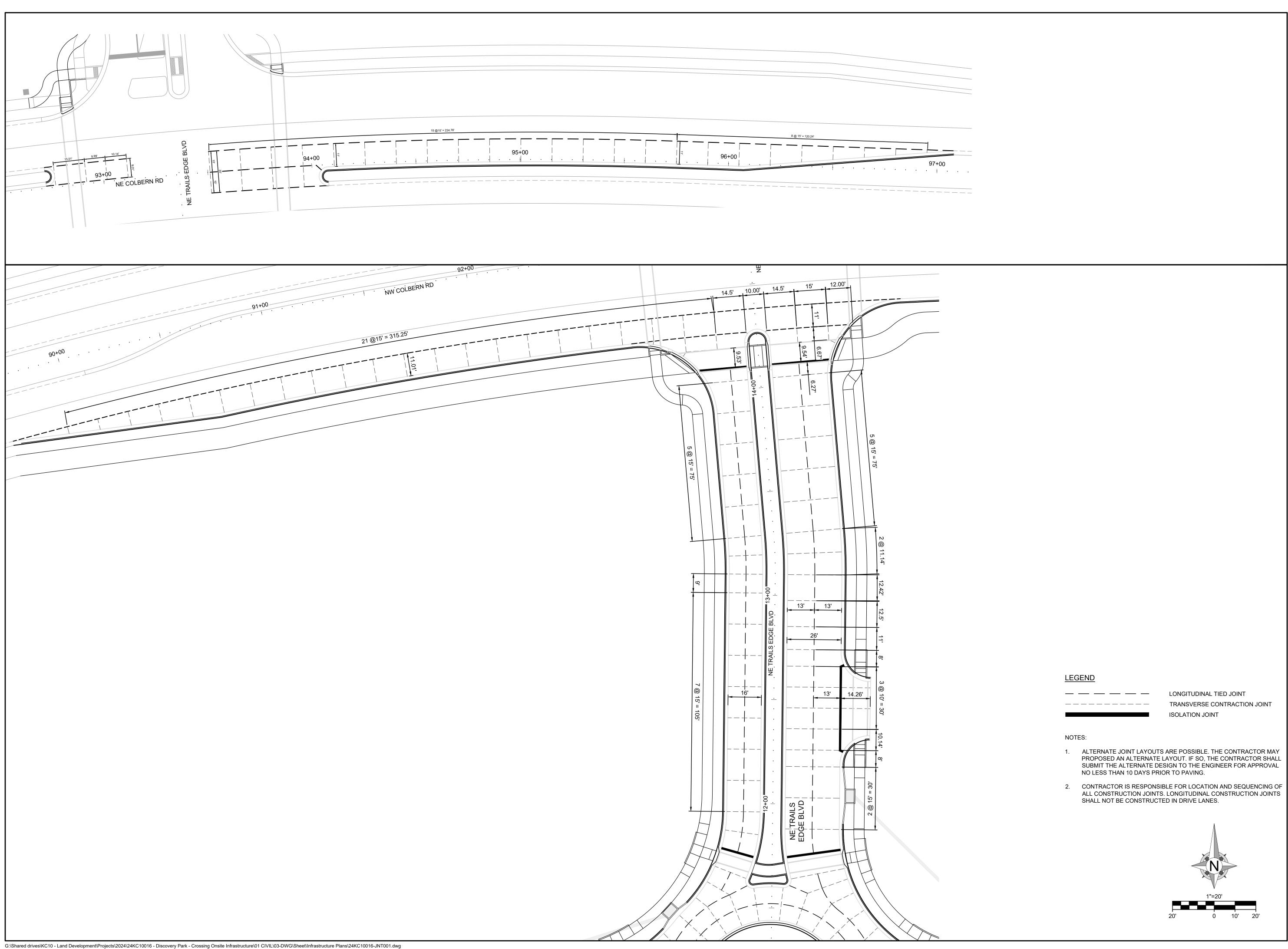
ISSUED BY: LICENSE NO:

SHEET TITLE

CONSTRUCTION
JOINT PLAN

SHEET NUMBER

C222





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#### DISCOVERY CROSSING AT DISCOVERY PARK

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

REVISIONS		
NO.	DESCRIPTION	DATE

#### DRAWING INFORMATION

PROJECT NO: 24KC10016

DRAWN BY: JGD
CHECK BY: JWB

ISSUED DATE: 12/30/24

FIELD BOOK:

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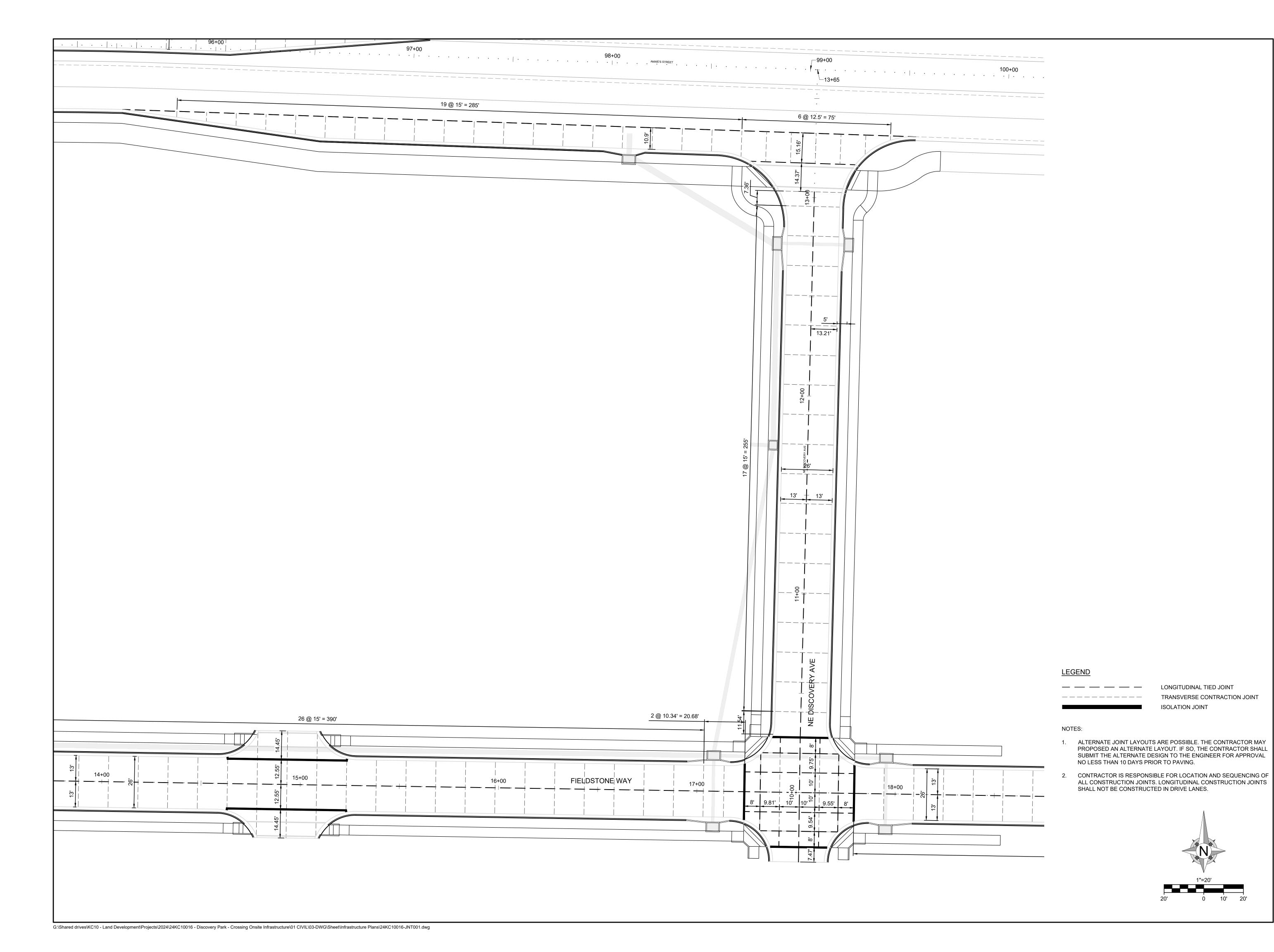
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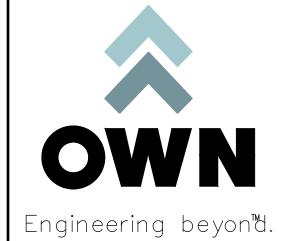
SHEET TITLE

## CONSTRUCTION JOINT PLAN 2

SHEET NUMBER

C223





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#### **DISCOVERY CROSSING AT DISCOVERY PARK**

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

REVISIONS			
NO.	DESCRIPTION	DATE	

#### DRAWING INFORMATION

PROJECT NO: 24KC10016

DRAWN BY: JGD CHECK BY: JWB

ISSUED DATE: 12/30/24

FIELD BOOK:

ISSUED BY:

LONGITUDINAL TIED JOINT

ISOLATION JOINT

TRANSVERSE CONTRACTION JOINT

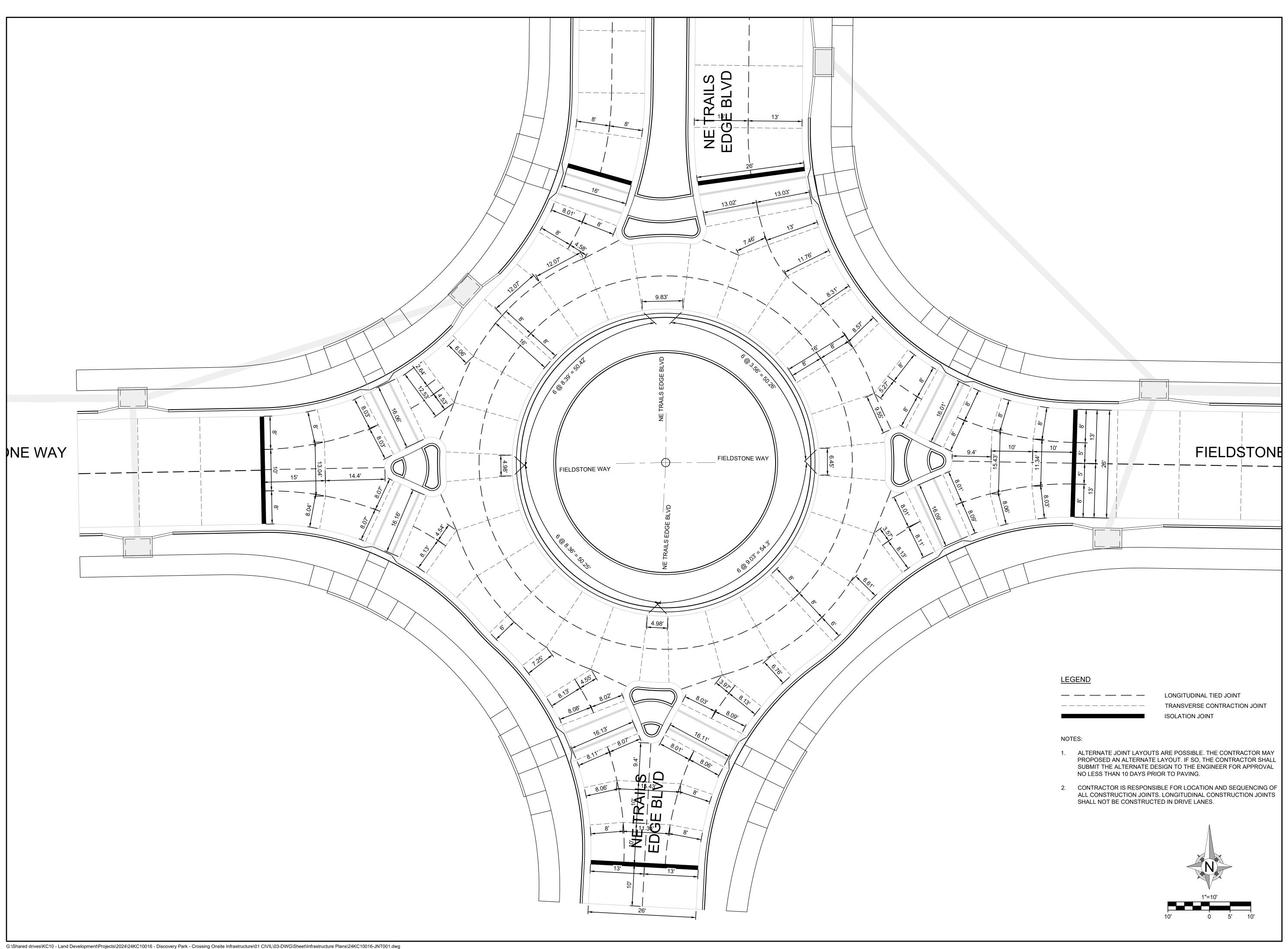
LICENSE NO:

SHEET TITLE

CONSTRUCTION **JOINT PLAN 3** 

SHEET NUMBER

C224





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#### **DISCOVERY CROSSING AT DISCOVERY PARK**

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

## **REVISIONS** NO. DESCRIPTION

#### DRAWING INFORMATION

PROJECT NO: 24KC10016 DRAWN BY: JGD

CHECK BY: JWB

ISSUED DATE: 12/30/24 FIELD BOOK:

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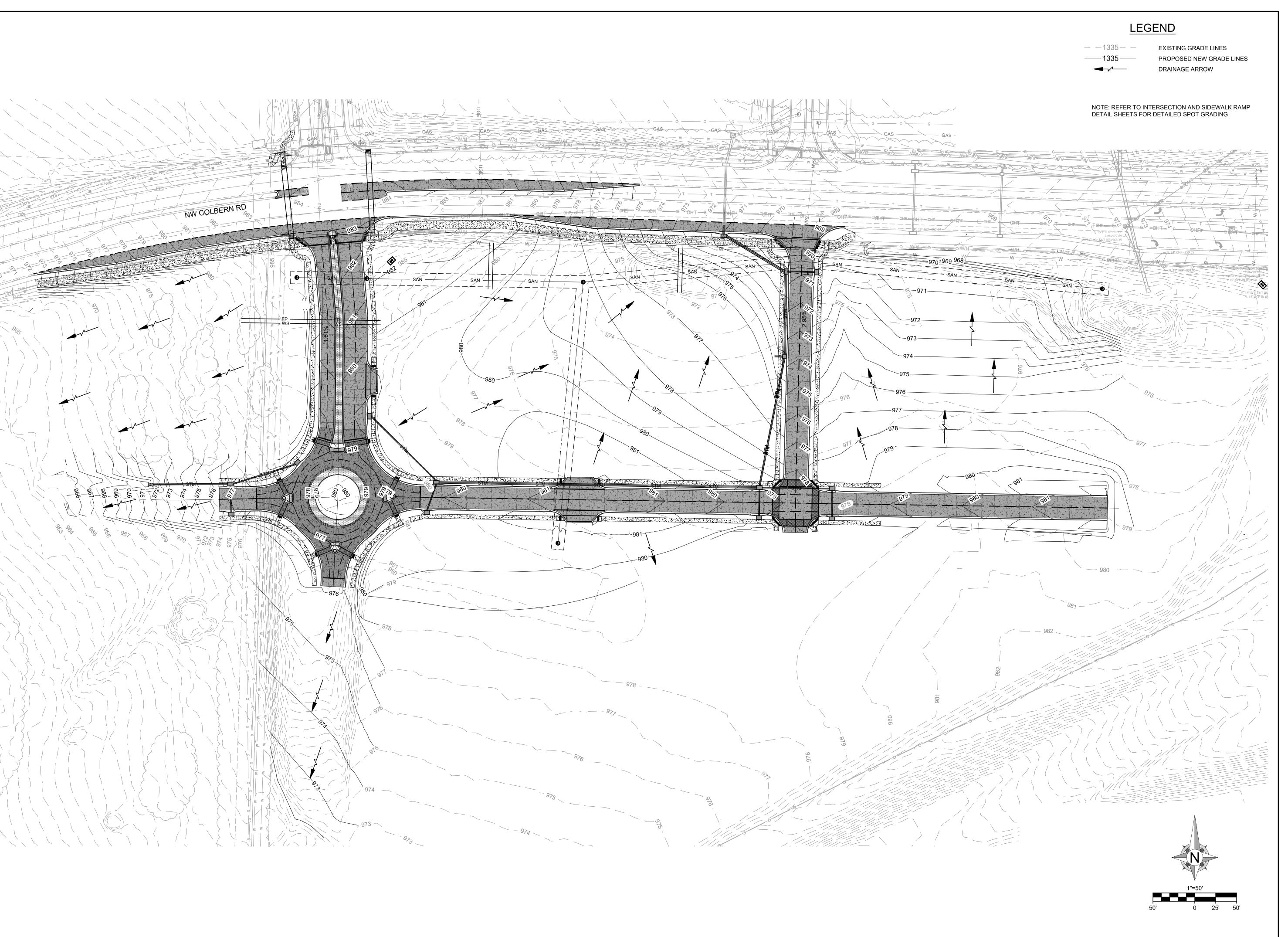
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SHEET NUMBER

C225

32 OF 56

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#### DISCOVERY CROSSING AT DISCOVERY PARK

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

REVISIONS		
NO.	DESCRIPTION	DATE

#### DRAWING INFORMATION

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CHECK BY: JWI

ISSUED DATE: 12/30/24
FIELD BOOK:

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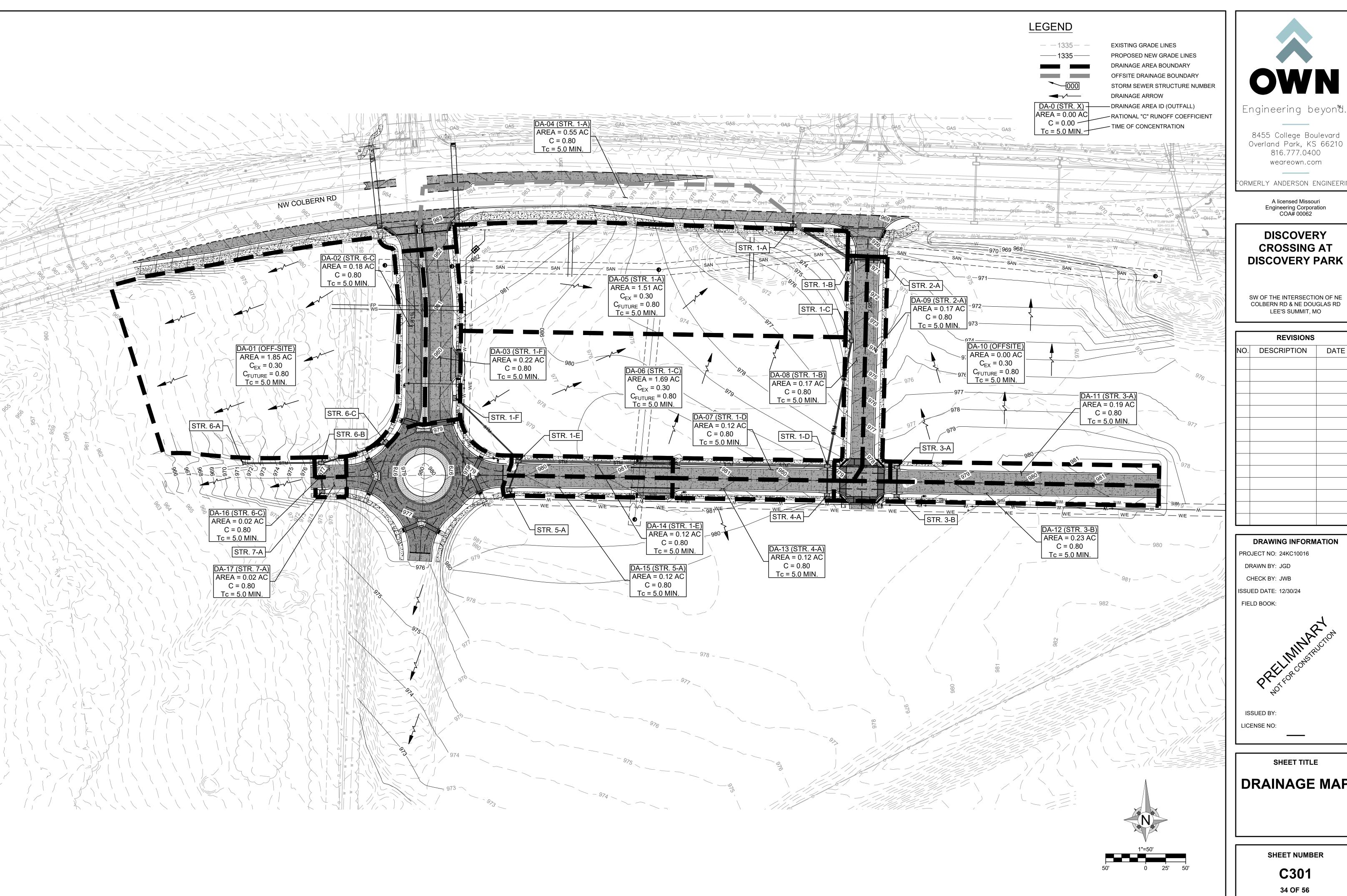
LICENSE NO:

SHEET TITLE

**GRADING PLAN** 

SHEET NUMBER

C300





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#### **DISCOVERY CROSSING AT DISCOVERY PARK**

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

	REVISIONS	
NO.	DESCRIPTION	DATE

#### DRAWING INFORMATION

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ISSUED DATE: 12/30/24 FIELD BOOK:

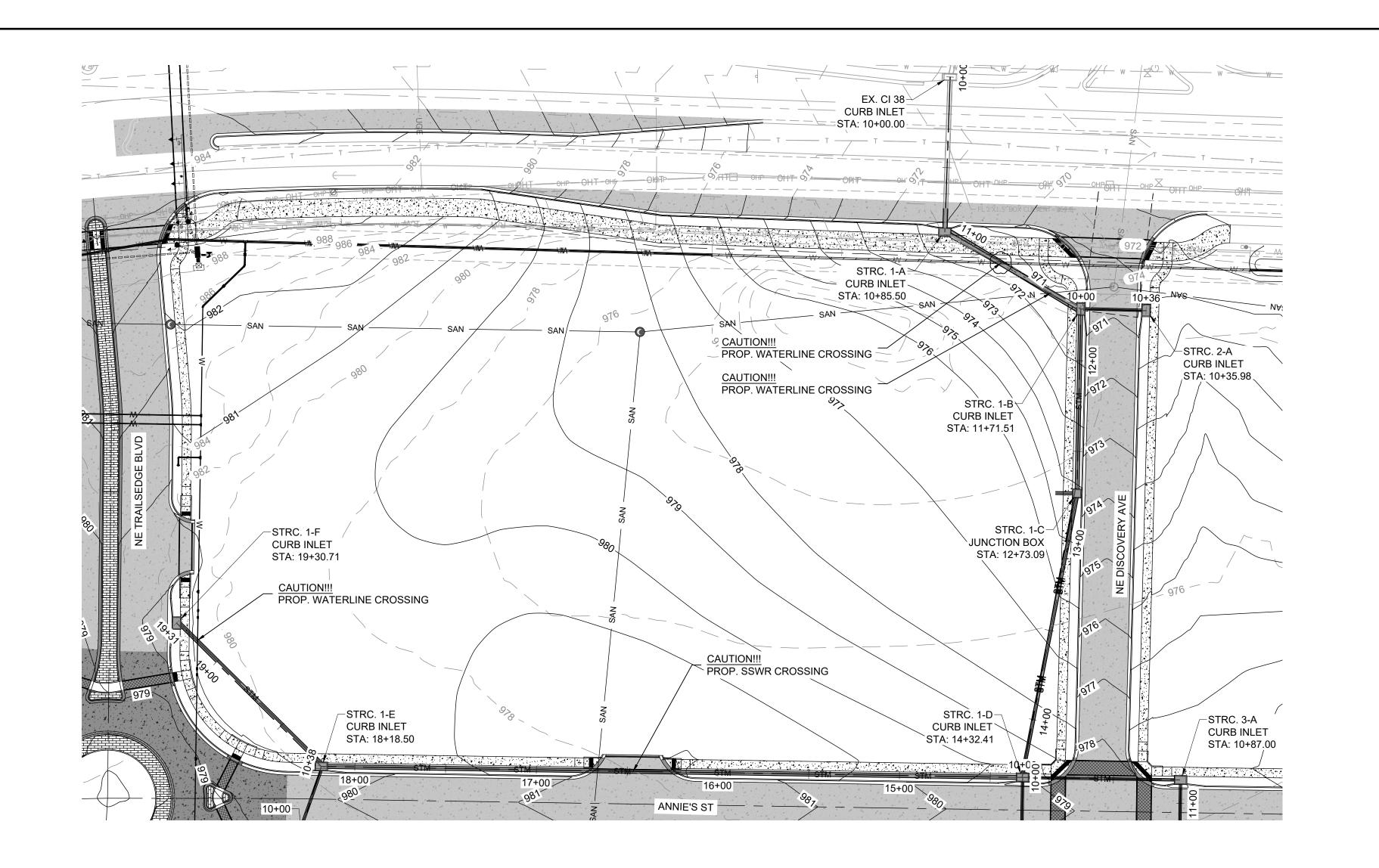
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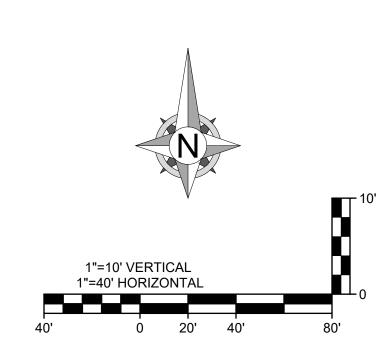
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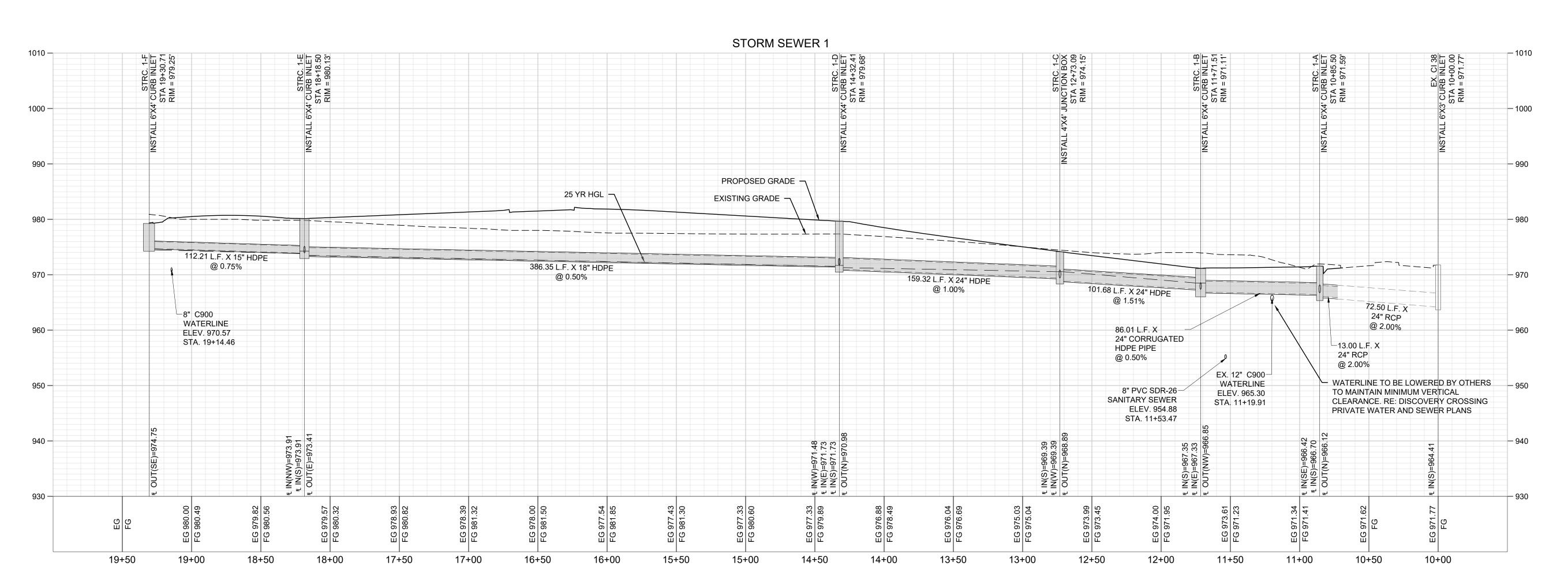
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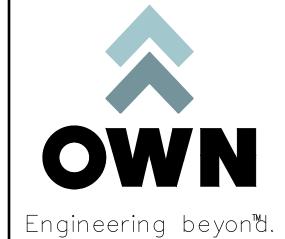
SHEET NUMBER

C301 34 OF 56









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## DISCOVERY CROSSING AT DISCOVERY PARK

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

REVISIONS			
NO.	DESCRIPTION	DATE	

#### DRAWING INFORMATION

PROJECT NO: 24KC10016 DRAWN BY: JGD

ISSUED DATE: 12/30/24

CHECK BY: JWB

FIELD BOOK:

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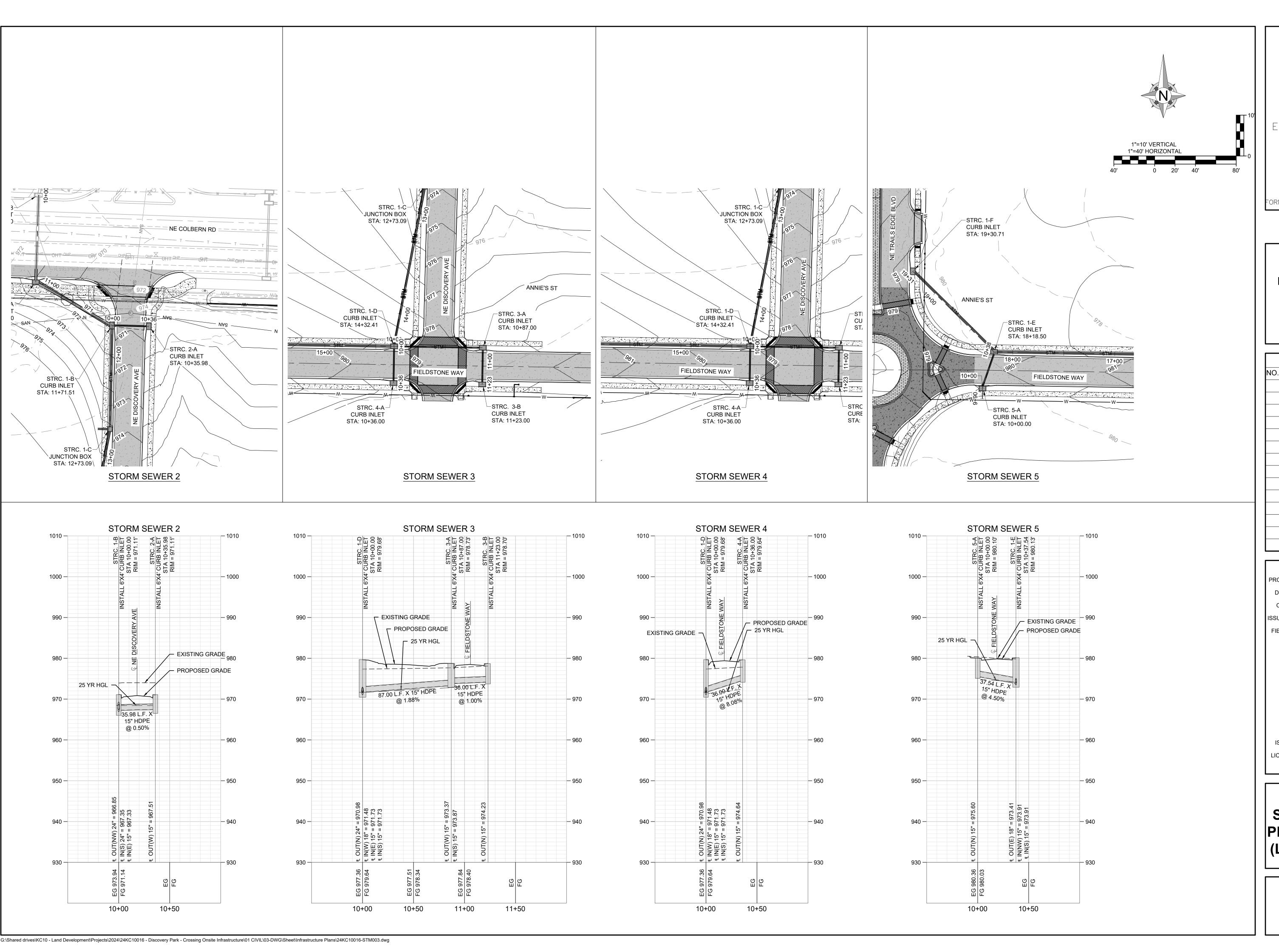
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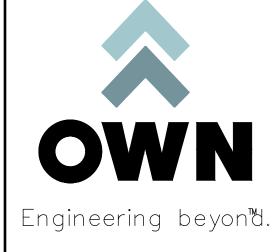
STORM SEWER
PLAN & PROFILE
(LINE 1)

SHEET TITLE

SHEET NUMBER

C302





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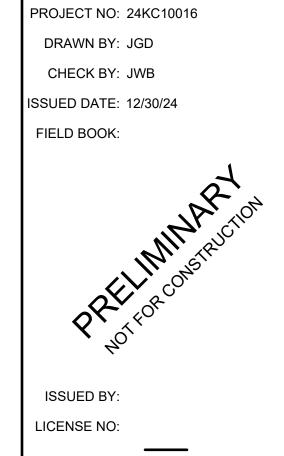
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#### **DISCOVERY CROSSING AT DISCOVERY PARK**

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

DESCRIP	TION	DATE

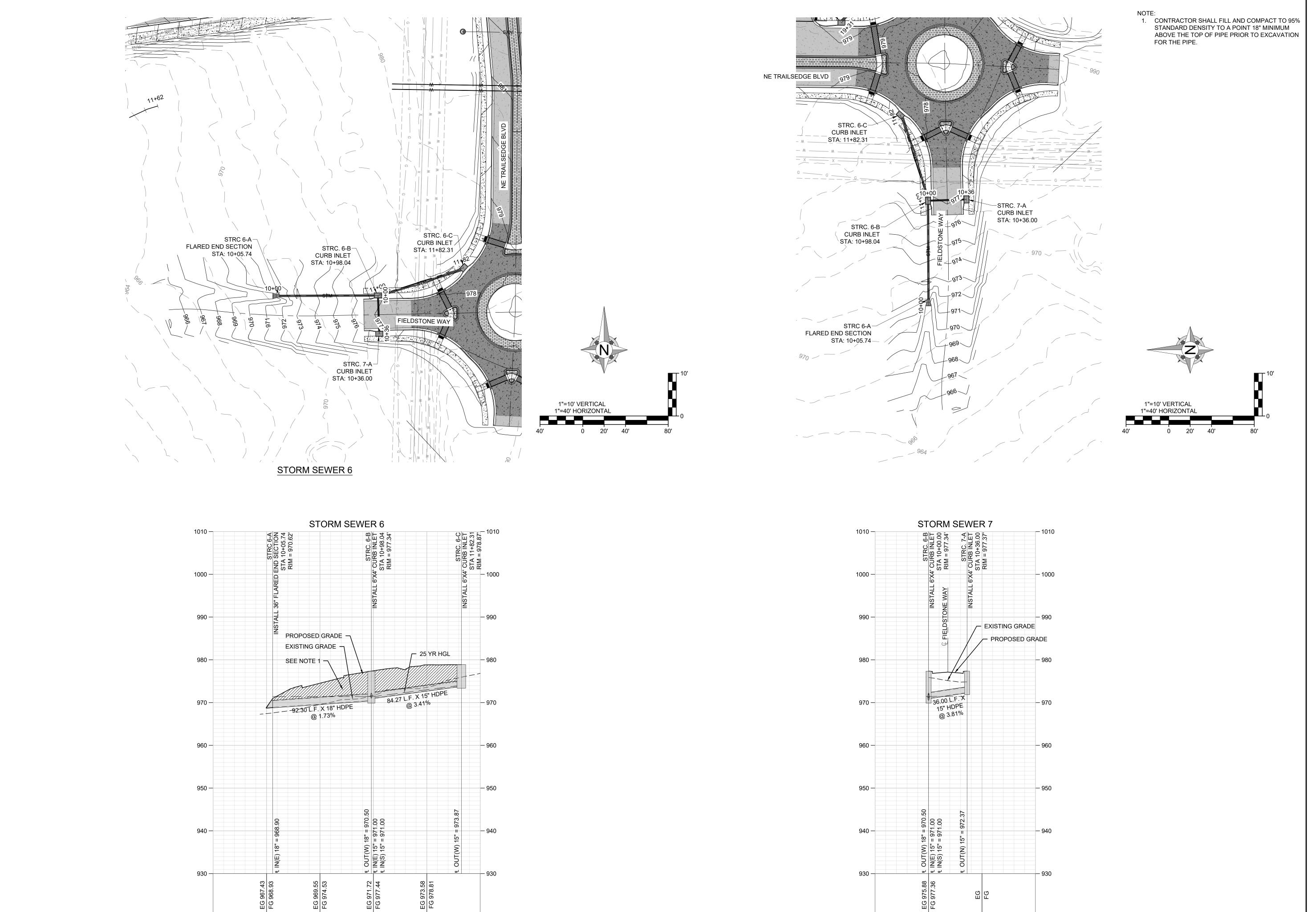
DRAWING INFORMATION



SHEET TITLE STORM SEWER

PLAN & PROFILE (LINES 2,3,4 & 5)

> SHEET NUMBER C303



10+00

10+50



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## DISCOVERY CROSSING AT DISCOVERY PARK

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

	REVISIONS	
NO.	DESCRIPTION	DATE

#### DRAWING INFORMATION

PROJECT NO: 24KC10016 DRAWN BY: JGD

CHECK BY: JWB
ISSUED DATE: 12/30/24

FIELD BOOK:



LICENSE NO:

SHEET TITLE

STORM SEWER PLAN & PROFILE (LINE 6, 7 & 8)

SHEET NUMBER

C304

37 OF 56

10+00

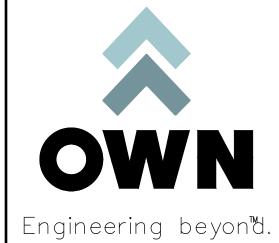
10+50

11+50

11+00

												Disc	overy Crossing - Zor	ne 2 Infrastructure 1	0-yr Storm Sumr	nary											
LineID	DnStrmLine No.	RunoffCoeff	DrainageArea	IncrCxA	TotalArea	Тс	iSys	InletTime	IncrQ	TotalRunoff	InvertUp	InvertDn	LineLength	LineSlope	LineSize	n-valuePipe	FlowRate	CapacityFull	VelAve	HGLUp	HGLDn	EGLUp	EGLDn	GutterDepth	GutterSlope	QBypass	GutterSpread
		(C)	(ac)		(ac)	(min)	(in/hr)	(min)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(%)	(in)		(cfs)	(cfs)	(ft/s)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(cfs)	(ft)
EX-1-A	Outfall	0.81	0.00	0.00	1.96	13.1	5.34	5.0	0.00	8.48	965.86	964.41	72.500	2.00	24	0.013	27.53	31.99	9.18	967.68	966.23	968.99	967.54				
DS-1-A	1	0.81	0.55	0.45	1.96	13.1	5.34	5.0	3.27	8.48	966.12	965.86	12.999	2.00	24	0.013	27.53	31.99	9.18	967.94	967.68	969.25	968.99	0.19	0.035	0.68	8.00
DS-1-B	2	0.81	0.17	0.14	1.41	12.8	5.39	5.0	1.01	6.16	966.85	966.42	86.009	0.50	24	0.012	16.22	17.32	6.27	968.38	967.96	969.00	968.57	0.13	0.030	0.00	5.11
DS-1-C	3	0.81	0.00	0.00	1.12	12.5	5.45	5.0	0.00	4.94	968.89	967.35	101.683	1.51	24	0.012	15.00	30.15	5.59	970.29	969.47	970.92	969.82				
DS-1-D	4	0.81	0.12	0.10	1.12	11.0	5.72	5.0	0.71	5.19	970.98	969.39	159.318	1.00	24	0.012	5.19	24.48	4.11	971.78	970.29	972.08	970.59	0.13	0.014	0.00	5.18
DS-1-E	5	0.81	0.12	0.10	0.46	6.8	6.77	5.0	0.71	2.52	973.41	971.48	386.348	0.50	18	0.012	2.52	8.04	3.92	974.01	972.06	974.24	972.28	0.14	0.011	0.00	5.45
DS-5-A	6	0.81	0.12	0.10	0.12	5.0	7.35	5.0	0.71	0.71	975.60	973.91	37.540	4.50	15	0.012	0.71	14.84	4.49	975.93	974.10	976.05	974.21	0.14	0.011	0.00	5.45
DS-1-F	6	0.81	0.22	0.18	0.22	5.0	7.35	5.0	1.31	1.31	974.75	973.91	112.213	0.75	15	0.012	1.31	6.05	3.61	975.20	974.31	975.37	974.47	0.19	Sag	0.00	8.11
DS-4-A	5	0.81	0.12	0.10	0.12	5.0	7.35	5.0	0.71	0.71	974.64	971.73	36.002	8.08	15	0.012	0.71	19.89	5.20	974.97	971.89	975.09	972.01	0.13	0.014	0.00	5.18
DS-3-A	5	0.81	0.19	0.15	0.42	5.5	7.16	5.0	1.13	2.43	973.37	971.73	87.004	1.88	15	0.012	2.43	9.60	5.25	973.99	972.16	974.24	972.41	0.16	0.010	0.00	6.72
DS-3-B	10	0.81	0.23	0.19	0.23	5.0	7.35	5.0	1.37	1.37	974.23	973.87	36.001	1.00	15	0.012	1.37	7.00	3.87	974.69	974.24	974.86	974.42	0.18	0.010	0.00	7.25
DA-06	4	0.81	0.00	0.00	0.00	5.0	0.00	5.0	10.06	0.00	969.51	969.39	11.789	1.02	18	0.012	10.06	11.48	6.93	970.73	970.48	971.39	971.14				
DS-2-A	3	0.81	0.12	0.10	0.12	5.0	7.35	5.0	0.71	0.71	967.51	967.33	35.977	0.50	15	0.012	0.71	4.95	0.58	969.47	969.47	969.48	969.47	0.12	0.030	0.00	4.39
DA-05	2	0.81	0.00	0.00	0.00	5.0	0.00	5.0	8.99	0.00	967.00	966.70	21.421	1.40	18	0.012	8.99	13.46	5.95	968.16	967.94	968.74	968.52				
DS-6-B	Outfall	0.81	0.02	0.02	0.22	11.2	5.69	5.0	0.12	1.01	970.50	968.90	92.298	1.73	18	0.012	1.01	14.98	2.93	970.88	969.28	971.01	969.41	0.07	0.018	0.00	1.98
DS-6-C	15	0.81	0.18	0.15	0.18	5.0	7.35	5.0	1.07	1.07	973.50	970.83	84.269	3.17	15	0.012	1.07	12.45	4.65	973.91	971.08	974.06	971.23	0.13	0.031	0.00	5.20
DS-7-A	15	0.81	0.02	0.02	0.02	5.0	7.35	5.0	0.12	0.12	971.25	969.25	35.995	5.56	15	0.012	0.12	16.49	0.90	971.38	970.88	971.43	970.88	0.06	0.031	0.00	1.65

												Disc	overy Crossing - Zon	e 2 Infrastructure 10	00-yr Storm Sun	ımary											
LineID	DnStrmLine No.	RunoffCoeff	DrainageArea	IncrCxA	TotalArea	Тс	iSys	InletTime	IncrQ	TotalRunoff	InvertUp	InvertDn	LineLength	LineSlope	LineSize	n-valuePipe	FlowRate	CapacityFull	VelAve	HGLUp	HGLDn	EGLUp	EGLDn	GutterDepth	GutterSlope	QBypass	GutterSprea
		(C)	(ac)		(ac)	(min)	(in/hr)	(min)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(%)	(in)		(cfs)	(cfs)	(ft/s)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(cfs)	(ft)
EX-1-A	Outfall	0.81	0.00	0	1.96	10.7	8.40	5.0	0.00	13.34	965.86	964.41	72.500	2.00	24	0.013	46.78	31.99	14.91	969.37	966.38	972.81	969.85				
DS-1-A	1	0.81	0.55	0.45	1.96	10.6	8.40	5.0	4.59	13.34	966.12	965.86	12.999	2.00	24	0.013	46.78	31.99	14.89	970.44	969.88	973.89	973.33	0.21	0.035	1.45	9.14
DS-1-B	2	0.81	0.17	0.14	1.41	10.5	8.45	5.0	1.42	9.65	966.85	966.42	86.009	0.50	24	0.012	27.31	17.32	8.69	976.20	975.13	977.37	976.30	0.15	0.030	0.00	5.89
DS-1-C	3	0.81	0.00	0	1.12	10.3	8.50	5.0	0.00	7.71	968.89	967.35	101.683	1.51	24	0.012	25.37	30.15	8.08	979.37	978.28	980.38	979.29				
DS-1-D	4	0.81	0.12	0.1	1.12	9.3	8.78	5.0	1.00	7.97	970.98	969.39	159.318	1.00	24	0.012	7.97	24.48	2.54	980.55	980.38	980.65	980.48	0.15	0.014	0.00	5.97
DS-1-E	5	0.81	0.12	0.1	0.46	6.2	9.81	5.0	1.00	3.65	973.41	971.48	386.348	0.50	18	0.012	3.65	8.04	2.07	981.10	980.70	981.17	980.77	0.16	0.011	0.00	6.27
DS-5-A	6	0.81	0.12	0.1	0.12	5.0	10.31	5.0	1.00	1.00	975.60	973.91	37.540	4.50	15	0.012	1.00	14.84	0.82	981.22	981.21	981.23	981.22	0.16	0.011	0.00	6.27
DS-1-F	6	0.81	0.22	0.18	0.22	5.0	10.31	5.0	1.84	1.84	974.75	973.91	112.213	0.75	15	0.012	1.84	6.05	1.50	981.29	981.21	981.32	981.24	0.23	Sag	0.00	10.17
DS-4-A	5	0.81	0.12	0.1	0.12	5.0	10.31	5.0	1.00	1.00	974.64	971.73	36.002	8.08	15	0.012	1.00	19.89	0.82	980.71	980.70	980.72	980.71	0.15	0.014	0.00	5.97
DS-3-A	5	0.81	0.19	0.15	0.42	5.4	10.15	5.0	1.59	3.45	973.37	971.73	87.004	1.88	15	0.012	3.45	9.60	2.81	980.91	980.70	981.04	980.82	0.18	0.010	0.00	7.70
DS-3-B	10	0.81	0.23	0.19	0.23	5.0	10.31	5.0	1.92	1.92	974.23	973.87	36.001	1.00	15	0.012	1.92	7.00	1.57	981.12	981.10	981.16	981.14	0.20	0.010	0.00	8.30
DA-06	4	0.81	0.00	0	0.00	5.0	0.00	5.0	17.66	0.00	969.51	969.39	11.789	1.02	18	0.012	17.66	11.48	9.99	980.67	980.38	982.22	981.93				
DS-2-A	3	0.81	0.12	0.1	0.12	5.0	10.31	5.0	1.00	1.00	967.51	967.33	35.977	0.50	15	0.012	1.00	4.95	0.82	978.28	978.28	978.29	978.29	0.13	0.030	0.00	5.09
DA-05	2	0.81	0.00	0	0.00	5.0	0.00	5.0	15.78	0.00	967.00	966.70	21.421	1.40	18	0.012	15.78	13.46	8.93	975.54	975.13	976.78	976.37				
DS-6-B	Outfall	0.81	0.02	0.02	0.22	9.4	8.75	5.0	0.17	1.56	970.50	968.90	92.298	1.73	18	0.012	1.56	14.98	3.31	970.97	969.37	971.14	969.54	0.08	0.018	0.00	2.43
DS-6-C	15	0.81	0.18	0.15	0.18	5.0	10.31	5.0	1.50	1.50	973.50	970.83	84.269	3.17	15	0.012	1.50	12.45	5.13	973.99	971.12	974.17	971.30	0.15	0.031	0.00	5.99
DS-7-A	15	0.81	0.02	0.02	0.02	5.0	10.31	5.0	0.17	0.17	971.25	969.25	35.995	5.56	15	0.012	0.17	16.49	1.00	971.41	970.97	971.46	970.97	0.07	0.031	0.00	2.07



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FORMERLY ANDERSON ENGINEERING

A licensed Missouri Engineering Corporation COA# 00062

## DISCOVERY CROSSING AT DISCOVERY PARK

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

DESCRIPTION	DATE

#### DRAWING INFORMATION

PROJECT NO: 24KC10016

DRAWN BY: JGD
CHECK BY: JWB

ISSUED DATE: 12/30/24

PRELIMINARY

ISSUED BY: LICENSE NO:

SHEET TITLE

STORMWATER
CALCULATIONS 1

SHEET NUMBER

C305
38 OF 56

		Drainage A	rea Design Tab	le (10-yr)		
Inlet ID	Drainage Area	С	Тс	i	К	Peak Flow
	(ac)		(min)	(in/hr)		(cfs)
1A	0.55	0.81	5.00	7.35	1.00	3.27
1B	0.17	0.81	5.00	7.35	1.00	1.01
1D	0.12	0.81	5.00	7.35	1.00	0.71
1E	0.12	0.81	5.00	7.35	1.00	0.71
1F	0.22	0.81	5.00	7.35	1.00	1.31
2A	0.12	0.81	5.00	7.35	1.00	0.71
3A	0.19	0.81	5.00	7.35	1.00	1.13
3B	0.23	0.81	5.00	7.35	1.00	1.37
4A	0.12	0.81	5.00	7.35	1.00	0.71
5A	0.12	0.81	5.00	7.35	1.00	0.71
6B	0.02	0.81	5.00	7.35	1.00	0.12
6C	0.18	0.81	5.00	7.35	1.00	1.07
7A	0.02	0.81	5.00	7.35	1.00	0.12

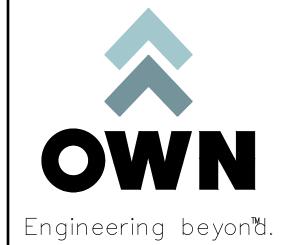
		Drainage Ar	ea Design Tabl	e (100-yr)		
Inlet ID	Drainage Area	С	Tc	i	К	Peak Flow
	(ac)		(min)	(in/hr)		(cfs)
1A	0.55	0.81	5	10.32	1.25	5.75
1B	0.17	0.81	5	10.32	1.25	1.78
1D	0.12	0.81	5	10.32	1.25	1.25
1E	0.12	0.81	5	10.32	1.25	1.25
1F	0.22	0.81	5	10.32	1.25	2.30
2A	0.12	0.81	5	10.32	1.25	1.25
3A	0.19	0.81	5	10.32	1.25	1.99
3B	0.23	0.81	5	10.32	1.25	2.40
4A	0.12	0.81	5	10.32	1.25	1.25
5A	0.12	0.81	5	10.32	1.25	1.25
6B	0.02	0.81	5	10.32	1.25	0.21
6C	0.18	0.81	5	10.32	1.25	1.88
7A	0.02	0.81	5	10.32	1.25	0.21

	DA-05	(Future Condition	ons)	
	10-YR	25-YR	50-YR	100-YR
K	1.00	1.10	1.20	1.25
С	0.81	0.81	0.81	0.81
i	7.35	8.53	9.40	10.32
Α	1.51	1.51	1.51	1.51
Q	8.99	11.48	13.80	15.78
Note: Assumed fut	ture Tc = 5 min.			

	DA-	06 (Future Condition	ons)	
	10-YR	25-YR	50-YR	100-YR
К	1.00	1.10	1.20	1.25
С	0.81	0.81	0.81	0.81
i	7.35	8.53	9.40	10.32
А	1.69	1.69	1.69	1.69
Q	10.06	12.84	15.44	17.66
Note: Assumed	I future Tc = 5 mi	n.		

			Inlet	Design Table (	10-yr)			
Inlet	Throat Height	Orifice Coeff.	Depth at Lip of Curb opening	Inlet Length	Inlet Capacity	80% Inlet Capacity	Peak Flow	Bypass
	(ft)		(ft)	(ft)	(cfs)	(cfs)	(cfs)	(cfs)
1A	0.83	0.67	1.17	6.00	29.07	23.25	3.27	0.00
1B	0.83	0.67	1.17	6.00	29.07	23.25	1.01	0.00
1D	0.83	0.67	1.17	6.00	29.07	23.25	0.71	0.00
1E	0.83	0.67	1.17	6.00	29.07	23.25	0.71	0.00
1F	0.83	0.67	1.17	6.00	29.07	23.25	1.31	0.00
2A	0.83	0.67	1.17	6.00	29.07	23.25	0.71	0.00
3A	0.83	0.67	1.17	6.00	29.07	23.25	1.13	0.00
3B	0.83	0.67	1.17	6.00	29.07	23.25	1.37	0.00
4A	0.83	0.67	1.17	6.00	29.07	23.25	0.71	0.00
5A	0.83	0.67	1.17	6.00	29.07	23.25	0.71	0.00
6B	0.83	0.67	1.17	6.00	29.07	23.25	0.12	0.00
6C	0.83	0.67	1.17	6.00	29.07	23.25	1.07	0.00
7A	0.83	0.67	1.17	6.00	29.07	23.25	0.12	0.00
	No	te: Max. inlet cap	pacity calulations	completed per	APWA 5600, Fitu	re 5604-21, pg.	61.	

			Inlet I	Design Table (1	00-yr)			
Inlet	Throat Height	Orifice Coeff.	Depth at Lip of Curb opening	Inlet Length	Inlet Capacity	80% Inlet Capacity	Peak Flow	Bypass
	(ft)		(ft)	(ft)	(cfs)	(cfs)	(cfs)	(cfs)
1A	0.83	0.67	1.17	6.00	29.07	23.25	5.75	0.00
1B	0.83	0.67	1.17	6.00	29.07	23.25	1.78	0.00
1D	0.83	0.67	1.17	6.00	29.07	23.25	1.25	0.00
1E	0.83	0.67	1.17	6.00	29.07	23.25	1.25	0.00
1F	0.83	0.67	1.17	6.00	29.07	23.25	2.30	0.00
2A	0.83	0.67	1.17	6.00	29.07	23.25	1.25	0.00
3A	0.83	0.67	1.17	6.00	29.07	23.25	1.99	0.00
3B	0.83	0.67	1.17	6.00	29.07	23.25	2.40	0.00
4A	0.83	0.67	1.17	6.00	29.07	23.25	1.25	0.00
5A	0.83	0.67	1.17	6.00	29.07	23.25	1.25	0.00
6B	0.83	0.67	1.17	6.00	29.07	23.25	0.21	0.00
6C	0.83	0.67	1.17	6.00	29.07	23.25	1.88	0.00
7A	0.83	0.67	1.17	6.00	29.07	23.25	0.21	0.00



FORMERLY ANDERSON ENGINEERING

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## DISCOVERY CROSSING AT DISCOVERY PARK

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

	REVISIONS	
NO.	DESCRIPTION	DATE

#### DRAWING INFORMATION

PROJECT NO: 24KC10016

DRAWN BY: JGD

CHECK BY: JWB

ISSUED DATE: 12/30/24
FIELD BOOK:

PRELIMINARY

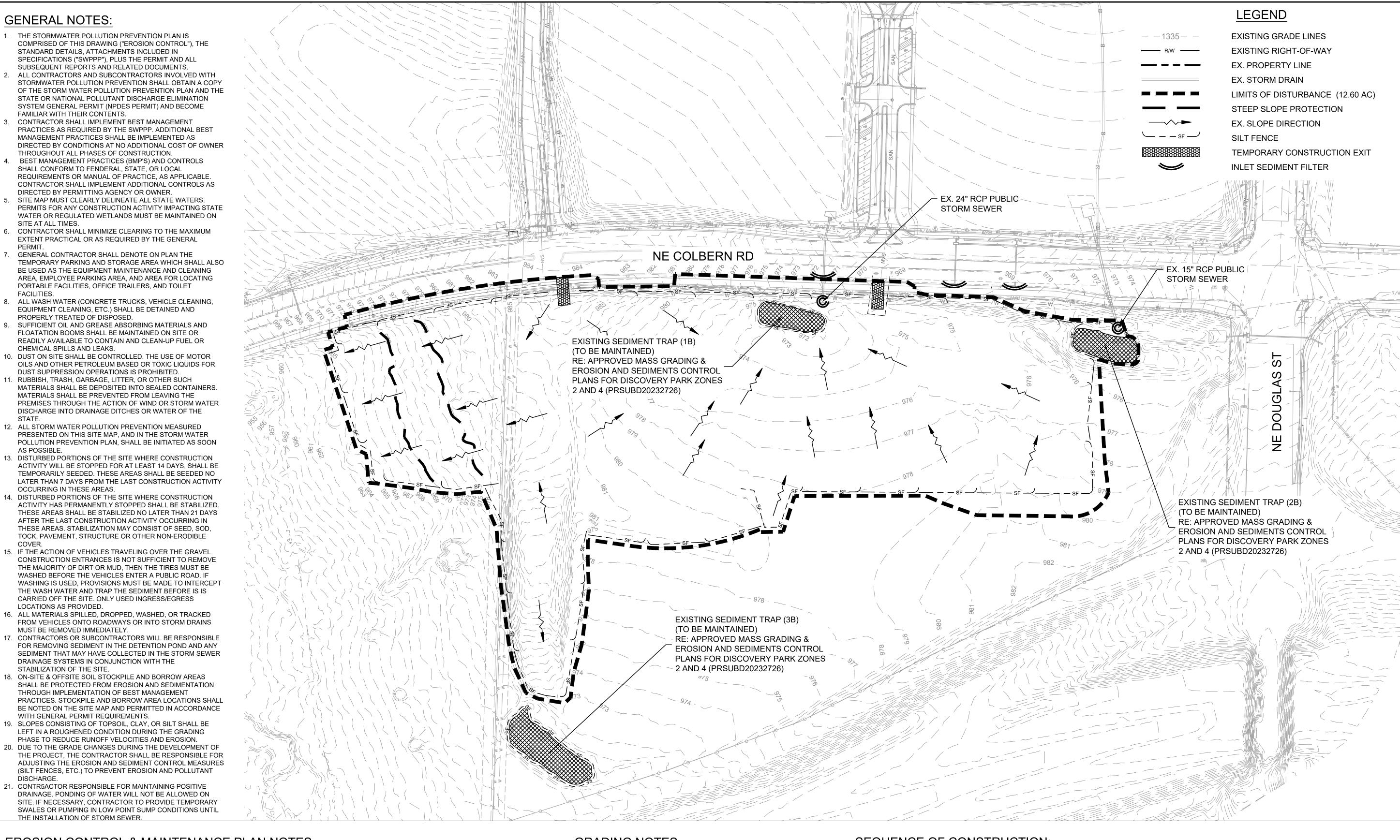
ISSUED BY: LICENSE NO:

SHEET TITLE

STORMWATER CALCULATIONS 2

SHEET NUMBER

C306
39 OF 56



### **EROSION CONTROL & MAINTENANCE PLAN NOTES:**

PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AREA AS CONDITIONS DEMAND.

**GENERAL NOTES:** 

FAMILIAR WITH THEIR CONTENTS.

PROPERLY TREATED OF DISPOSED.

CHEMICAL SPILLS AND LEAKS.

OCCURRING IN THESE AREAS.

LOCATIONS AS PROVIDED.

STABILIZATION OF THE SITE.

DISCHARGE.

MUST BE REMOVED IMMEDIATELY.

THE INSTALLATION OF STORM SEWER.

SITE AT ALL TIMES.

FACILITIES.

STATE.

COVER.

AS POSSIBLE

ALL MEASURES STATED ON THIS SITE MAP, AND IN THE STORMWATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR THE APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT, AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

- 1. AT A MINIMUM, THE CONTRACTOR SHALL FOLLOW THE REQUIREMENTS FOR GOOD HOUSEKEEPING, SPILL CONTROL AND EROSION AND SEDIMENT CONTROL AS SPECIFIED IN THE KANSAS CITY METROPOLITAN CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION SECTION 2150.
- 2. INLET PROTECTION DEVISED AND BARRIERS SHALL BE REPAIRED OR REPLACED IN THEY SHOWN SIGNS OF UNDERMINING OR DETERIORATION. 3. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED, AREAS SHOULD BE FERTILIZED, WATERED, AND
- RESEEDED AS NEEDED.
- 4. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHED ONE-THIRD THE HEIGHT OF THE SILT FENCE.
- 5. THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS
- MAY REQUIRE PERIODIC TOP D4RESSING OF THE CONSTRUCTION EXITS AS CONDITIONS DEMAND. 6. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE
- 7. DRAINAGE SWALES WITH SLOPES STEEPER THAN 15% SHALL BE INSPECTED AFTER EACH RAINFALL EVENT. THESE CHANNELS AND SLOPES SHOULD BE TREATED WITH EROSION CONTROL FABRIC. IF THE CHANNELS OR SLOPES SHOW ANY SIGNS OF FAILURE, COORDINATE WITH THE ENGINEER TO DEVELOP A PLAN TO RE-STABLIZE THE FAILED AREA.

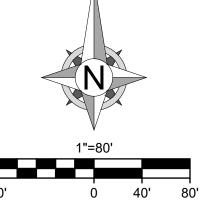
#### **GRADING NOTES:**

- 1. ALL TREES OUTSIDE OF LIMITS OF DISTURBANCE SHALL REMAIN. ONLY THOSE TREES WITHIN LIMITS OF DISTURBANCE THAT AREA IN THE AREA TO BE GRADED SHALL BE REMOVED.
- 2. ALL TOPSOIL, VEGETATION, ROOT STRUCTURES, AND DELETERIOUS MATERIALS SHALL BE STRIPPED FROM THE GROUND SURFACE PRIOR TO THE PLACEMENT OF EMBANKMENTS. CONTRACTOR SHALL OBTAIN THE ON-SITE GEOTECHNICAL REPRESENTATIVE'S ACCEPTANCE OF THE EXISTING GROUND SURFACE MATERIALS AND THE PROPOSED FILL MATERIAL PRIOR TO THE PLACEMENT OF FILL.
- 3. ALL PROPOSED CONTOUR LINES AND SPOT ELEVATIONS SHOWN ARE FINISH GRADE ELEVATIONS. CONTRACTOR SHALL ACCOUNT FOR PAVEMENT DEPTHS, BUILDING PADS, TOPSOIL, ETC. WHEN GRADING
- 4. ALL DISTURBED AREAS THAT SHALL BE FINISH GRADED WITH A MINIMUM OF FOUR INCHES OF TOPSOIL
- 5. FINISHED GRADES SHALL NOT BE STEEPER THAN 3:1. 6. ALL GRADING WORK SHALL BE CONSIDERED UNCLASSIFIED. NO
- ADDITIONAL PAYMENTS SHALL BE MADE FOR ROCK EXCAVATION. CONTRACTOR SHALL SATISFY HIMSELF AS TO ANY ROCK EXCAVATION REQUIRED TO ACCOMPLISH THE IMPROVEMENTS SHOWN HEREIN.

## **SEQUENCE OF CONSTRUCTION:**

SITE IMPROVEMENTS CONSIST OF GRADING OPERATIONS, ALONG WITH RE-ACTIVATING OF AN EXISTING SEDIMENT TRAP. WORK SHALL BE CONDUCTED AS FOLLOWS:

- 1. MAINTAIN/RECONSTRUCT EXISTING SEDIMENT TRAPS. EXCAVATE EXISTING SEDIMENT AS NEEDED TO REESTABLISH MIN. CLEANOUT VOLUME. REFINFORCE SEDIMENT TRAP WITH SILT FENCE AS NEEDED. INSTALL CONSTRUCTION VEHICLE ENTRANCE AND INSTALL PERIMETER SILT FENCE AND INLET
- PROTECTION TO EXISTING INLETS SURROUNDING THE LIMITS OF DISTURBANCE.
- INSTALL WATTLES/BIODEGRADABLE LOG STEEP SLOPE PROTECTION AS SHOWN ON PLANS.
- 4. CONTRACTOR TO CONSTRUCT/MAINTAIN STORMWATER MANAGEMENT FACILITIES, SPECIFICALLY THOSE FEATURES RELATED TO DETENTION, PRIOR TO ANY LAND DISTURBANCE OF THE SITE AND PRIOR TO THE CONSTRUCTION OF ANY OTHER SITE DEVELOPMENT WORK AS NOT TO EFFECT DOWNSTREAM NEIGHBORS WITH UNDETAINED STORMWATER DISCHARGE.
- 5. AS GRADING OPERATIONS ARE COMPLETED, AREAS TO REMAIN INACTIVE FOR MORE THAN 14 DAYS SHALL BE STABILIZED WITH SEED AND COMPOST MULCH AND/OR STEEP SLOPE PROTECTION. SEE INTERMEDIATE EROSION CONTROL PLAN.





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### **DISCOVERY CROSSING AT DISCOVERY PARK**

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

	REVISIONS	
NO.	DESCRIPTION	DATE

#### DRAWING INFORMATION

PROJECT NO: 24KC10016 DRAWN BY: JGD

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FIELD BOOK:

ISSUED BY: LICENSE NO:

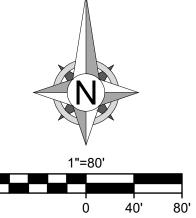
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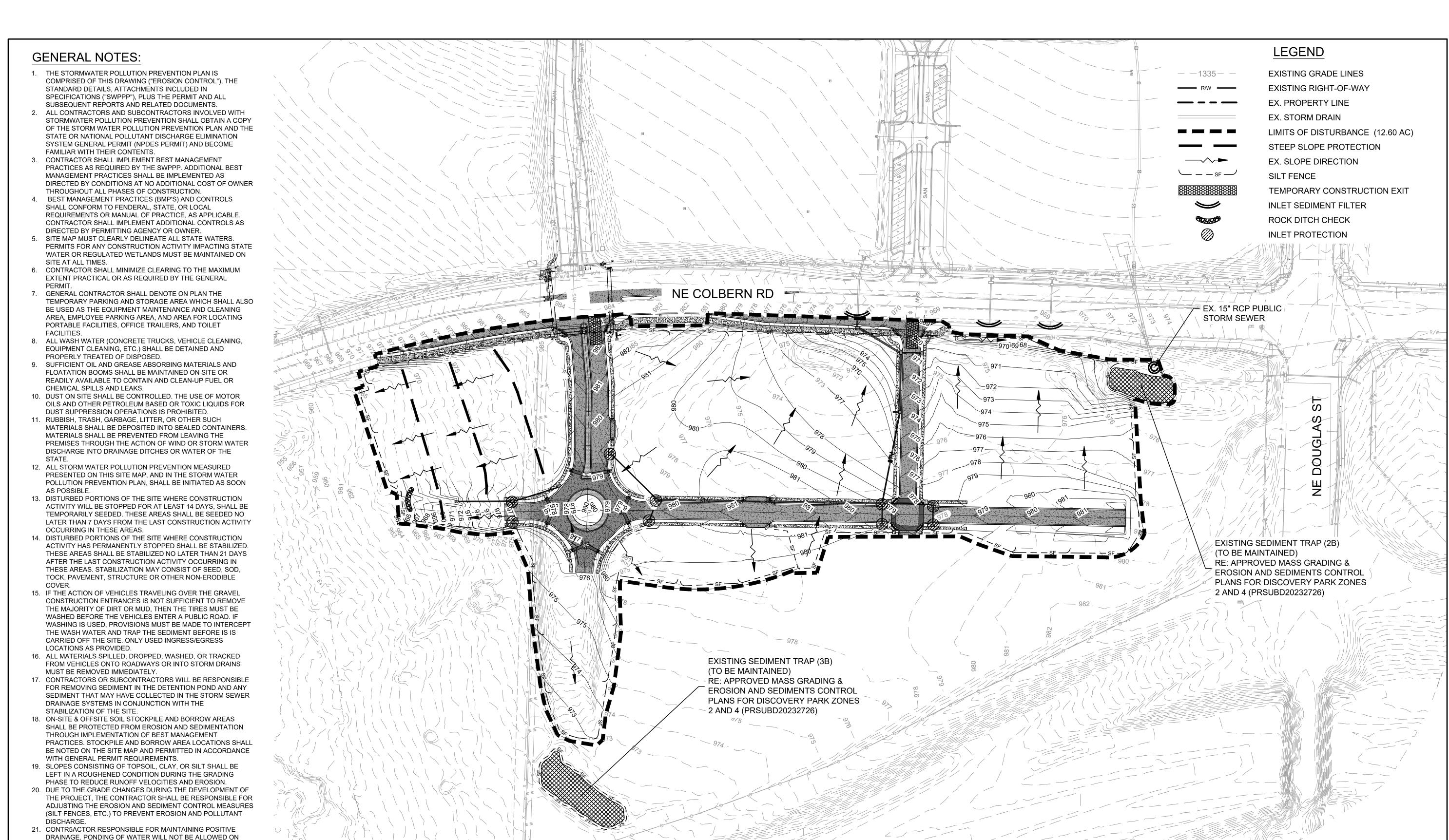
**EROSION CONTROL** 1

**SHEET NUMBER** 

40 OF 56

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## **EROSION CONTROL & MAINTENANCE PLAN NOTES:**

SITE. IF NECESSARY, CONTRACTOR TO PROVIDE TEMPORARY SWALES OR PUMPING IN LOW POINT SUMP CONDITIONS UNTIL

THE INSTALLATION OF STORM SEWER.

ALL MEASURES STATED ON THIS SITE MAP, AND IN THE STORMWATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR THE APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT, AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

- 1. AT A MINIMUM, THE CONTRACTOR SHALL FOLLOW THE REQUIREMENTS FOR GOOD HOUSEKEEPING, SPILL CONTROL AND EROSION AND SEDIMENT CONTROL AS SPECIFIED IN THE KANSAS CITY METROPOLITAN CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION SECTION 2150.
- 2. INLET PROTECTION DEVISED AND BARRIERS SHALL BE REPAIRED OR REPLACED IN THEY SHOWN SIGNS OF UNDERMINING OR DETERIORATION.
- 3. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED, AREAS SHOULD BE FERTILIZED, WATERED, AND RESEEDED AS NEEDED.
- 4. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHED ONE-THIRD THE HEIGHT OF THE SILT FENCE.
- 5. THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP D4RESSING OF THE CONSTRUCTION EXITS AS CONDITIONS DEMAND.
- 6. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AREA AS CONDITIONS DEMAND.
- 7. DRAINAGE SWALES WITH SLOPES STEEPER THAN 15% SHALL BE INSPECTED AFTER EACH RAINFALL EVENT. THESE CHANNELS AND SLOPES SHOULD BE TREATED WITH EROSION CONTROL FABRIC. IF THE CHANNELS OR SLOPES SHOW ANY SIGNS OF FAILURE, COORDINATE WITH THE ENGINEER TO DEVELOP A PLAN TO RE-STABLIZE THE FAILED AREA.

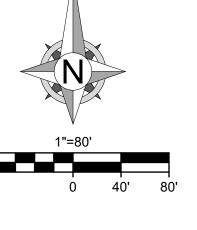
#### **GRADING NOTES:**

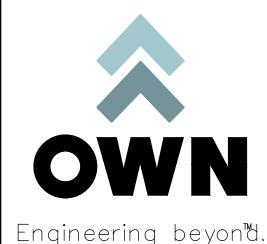
- 1. ALL TREES OUTSIDE OF LIMITS OF DISTURBANCE SHALL REMAIN.
  ONLY THOSE TREES WITHIN LIMITS OF DISTURBANCE THAT AREA IN
  THE AREA TO BE GRADED SHALL BE REMOVED.
- 2. ALL TOPSOIL, VEGETATION, ROOT STRUCTURES, AND DELETERIOUS MATERIALS SHALL BE STRIPPED FROM THE GROUND SURFACE PRIOR TO THE PLACEMENT OF EMBANKMENTS. CONTRACTOR SHALL OBTAIN THE ON-SITE GEOTECHNICAL REPRESENTATIVE'S ACCEPTANCE OF THE EXISTING GROUND SURFACE MATERIALS AND THE PROPOSED FILL MATERIAL PRIOR TO THE PLACEMENT OF FILL.
- 3. ALL PROPOSED CONTOUR LINES AND SPOT ELEVATIONS SHOWN ARE FINISH GRADE ELEVATIONS. CONTRACTOR SHALL ACCOUNT FOR PAVEMENT DEPTHS, BUILDING PADS, TOPSOIL, ETC. WHEN GRADING THE SITE.
- 4. ALL DISTURBED AREAS THAT SHALL BE FINISH GRADED WITH A MINIMUM OF FOUR INCHES OF TOPSOIL.
- 5. FINISHED GRADES SHALL NOT BE STEEPER THAN 3:1.
- 6. ALL GRADING WORK SHALL BE CONSIDERED UNCLASSIFIED. NO ADDITIONAL PAYMENTS SHALL BE MADE FOR ROCK EXCAVATION. CONTRACTOR SHALL SATISFY HIMSELF AS TO ANY ROCK EXCAVATION REQUIRED TO ACCOMPLISH THE IMPROVEMENTS SHOWN HEREIN.

### SEQUENCE OF CONSTRUCTION:

SITE IMPROVEMENTS CONSIST OF FINISHING MASS GRADING ACTIVITIES, BUILDING CONSTRUCTION, PARKING LOT PAVING, PROPOSED SERVICE LINE UTILITY INSTALLATION, AND STORM SEWERS. WORK SHALL BE CONDUCTED AS FOLLOWS:

- FINISH ANY MASS GRADING AND/OR STEEP SLOPE STABILIZATION ACTIVITIES THAT WERE NOT COMPLETED IN PHASE I.
   BEGIN INSTALLING UNDERGROUND INFRASTRUCTURE STARTING WITH SANITARY SEWER, FOLLOWED BY STORM SEWER, THEN WATER LINE. REFERNCE APPROVED WATER & SANITARY INFRASTRUCTURE PLANS FOR DISCOVERT CROSSING FOR MORE DETAIL ON UNDERGROUND INFRASTRUCTURE INSTALLATION. INSTALL INLET PROTECTION AND SLOPE INTERRUPT SILT FENCE ONCE PIPE BACKFILLING HAS BEEN COMPLETED.
- AS PIPE INSTALLATION OPERATIONS ARE COMPLETED, AREAS TO REMAIN INACTIVE FOR MORE THAN 14 DAYS SHALL BE STABILIZED WITH SEED AND COMPOST MULCH AND/OR STEEP SLOPE PROTECTION. SEE FINAL STABILIZATION PLAN.
   AS STORM SEWER INFRASTRUCTURE IS COMPLETED, INLET PROTECTION SHALL BE INSTALLED TO PROTECT EXISTING STORM SEWER INFRASTRUCTURE FROM HIGHLY CONCENTRATED DISCHARGE FLOWS.
- 5. ALL PHASE I AND PHASE II EROSION CONTROL MEASURES SHALL CONTINUE BEING REGULARLY INSPECTED AND MAINTAINED UNTIL FINAL STABILIZATION OF AT LEAST 70% OF THE DISTURBED SURFACE HAS BEEN MET THROUGH TEMPORARY SEEDING.
- 6. PHASE 1 EROSION CONTROL BMPS MAY BE REMOVED UPON COMPLETION OF PAVING ACTIVITIES.





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### DISCOVERY CROSSING AT DISCOVERY PARK

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

REVISIONS		
NO.	DESCRIPTION	DATE

#### DRAWING INFORMATION

PROJECT NO: 24KC10016

DRAWN BY: JGD

CHECK BY: JWB

ISSUED DATE: 12/30/24

FIELD BOOK:

ORELININARY ORETRUCTION

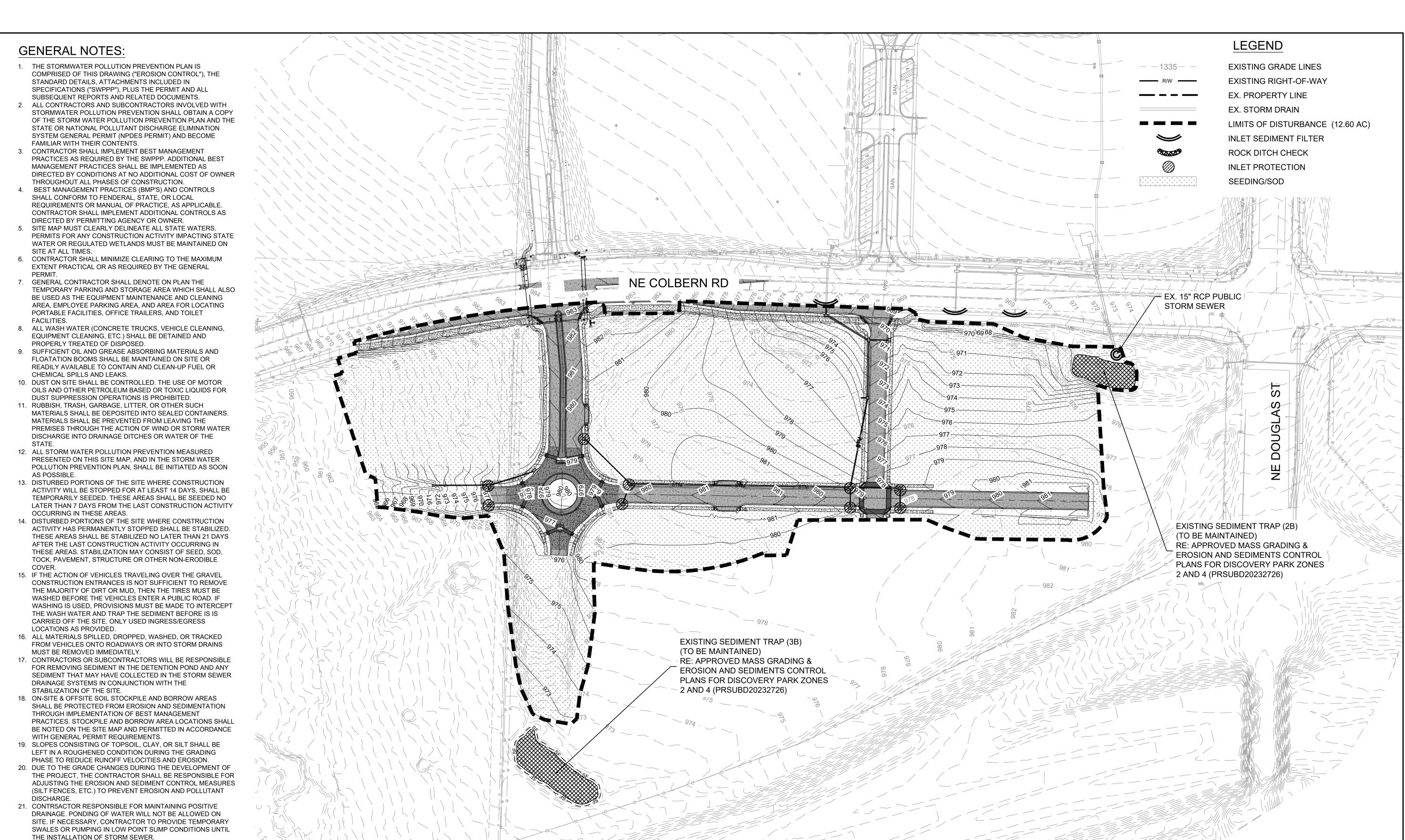
ISSUED BY: LICENSE NO:

SHEET TITLE

EROSION CONTROL 2

SHEET NUMBER

C401



## **EROSION CONTROL & MAINTENANCE PLAN NOTES:**

ALL MEASURES STATED ON THIS SITE MAP, AND IN THE STORMWATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR THE APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT, AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

- 1. AT A MINIMUM, THE CONTRACTOR SHALL FOLLOW THE REQUIREMENTS FOR GOOD HOUSEKEEPING, SPILL CONTROL AND EROSION AND SEDIMENT CONTROL AS SPECIFIED IN THE KANSAS CITY METROPOLITAN CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION SECTION 2150.
- 2. INLET PROTECTION DEVISED AND BARRIERS SHALL BE REPAIRED OR REPLACED IN THEY SHOWN SIGNS OF UNDERMINING OR DETERIORATION. 3. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED, AREAS SHOULD BE FERTILIZED, WATERED, AND
- RESEEDED AS NEEDED. 4. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT
- REACHED ONE-THIRD THE HEIGHT OF THE SILT FENCE.
- 5. THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP D4RESSING OF THE CONSTRUCTION EXITS AS CONDITIONS DEMAND.
- 6. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AREA AS CONDITIONS DEMAND.
- 7. DRAINAGE SWALES WITH SLOPES STEEPER THAN 15% SHALL BE INSPECTED AFTER EACH RAINFALL EVENT. THESE CHANNELS AND SLOPES SHOULD BE TREATED WITH EROSION CONTROL FABRIC. IF THE CHANNELS OR SLOPES SHOW ANY SIGNS OF FAILURE, COORDINATE WITH THE ENGINEER TO DEVELOP A PLAN TO RE-STABLIZE THE FAILED AREA.

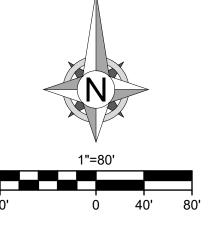
#### **GRADING NOTES:**

- 1. ALL TREES OUTSIDE OF LIMITS OF DISTURBANCE SHALL REMAIN. ONLY THOSE TREES WITHIN LIMITS OF DISTURBANCE THAT AREA IN THE AREA TO BE GRADED SHALL BE REMOVED.
- 2. ALL TOPSOIL, VEGETATION, ROOT STRUCTURES, AND DELETERIOUS MATERIALS SHALL BE STRIPPED FROM THE GROUND SURFACE PRIOR TO THE PLACEMENT OF EMBANKMENTS. CONTRACTOR SHALL OBTAIN THE ON-SITE GEOTECHNICAL REPRESENTATIVE'S ACCEPTANCE OF THE EXISTING GROUND SURFACE MATERIALS AND THE PROPOSED FILL MATERIAL PRIOR TO THE PLACEMENT OF FILL.
- 3. ALL PROPOSED CONTOUR LINES AND SPOT ELEVATIONS SHOWN ARE FINISH GRADE ELEVATIONS. CONTRACTOR SHALL ACCOUNT FOR PAVEMENT DEPTHS, BUILDING PADS, TOPSOIL, ETC. WHEN GRADING
- 4. ALL DISTURBED AREAS THAT SHALL BE FINISH GRADED WITH A
- MINIMUM OF FOUR INCHES OF TOPSOIL. 5. FINISHED GRADES SHALL NOT BE STEEPER THAN 3:1.
- 6. ALL GRADING WORK SHALL BE CONSIDERED UNCLASSIFIED. NO ADDITIONAL PAYMENTS SHALL BE MADE FOR ROCK EXCAVATION. CONTRACTOR SHALL SATISFY HIMSELF AS TO ANY ROCK EXCAVATION REQUIRED TO ACCOMPLISH THE IMPROVEMENTS SHOWN HEREIN.

## SEQUENCE OF CONSTRUCTION:

SITE IMPROVEMENTS CONSIST OF PAVING STREETS, RE-ESTABLISHING GROUNDCOVER VEGETATION, DEACTIVATING SEDIMENT TRAP 4B, REMOVING SILT FENCE, AND REMOVING INLET PROTECTION. WORK SHALL BE COMPLETED IN THE SEQUENCE AS FOLLOWS:

- REMOVE CONSTRUCTION ENTRANCE/EXIT AS ROADS ARE PAVED.
- 2. INSTALL CURB, ROAD PAVEMENT, AND REQUIRED SIDEWALKS. ADJUST SILT FENCE AS NECESSARY TO PREVENT MUD AND SILT FROM FLOWING LONG DISTANCES.
- 3. SEED AND/OR SOD ALL DISTURBED AREAS ONCE FINISHED GRADE HAS BEEN ACHIEVED. MAINTAIN SILT FENCE AND INLET PROTECTION UNTIL VEGETATIVE COVER HAS BEEN ESTABLISHED OVER 70% OF THE TOTAL DISTURBED AREA.
- 4. AS ALL DISTURBED AREAS ARE STABLIXED WITH VEGETATIVE COVER, STORM SEWER INLET PROTECTION, SILT FENCE, AND SEDIMENT TRAP CAN BE REMOVED UPON CITY INSPECTION AND APPROVAL. ENSURE ENTIRE SITE IS STABLIZED PRIOR TO DEACTIVATION ON EROSION CONTROL





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### **DISCOVERY CROSSING AT DISCOVERY PARK**

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

REVISIONS		
NO.	DESCRIPTION	DATE

#### DRAWING INFORMATION

PROJECT NO: 24KC10016 DRAWN BY: JGD

CHECK BY: JWB

ISSUED DATE: 12/30/24

FIELD BOOK:

ISSUED BY: LICENSE NO:

SHEET TITLE

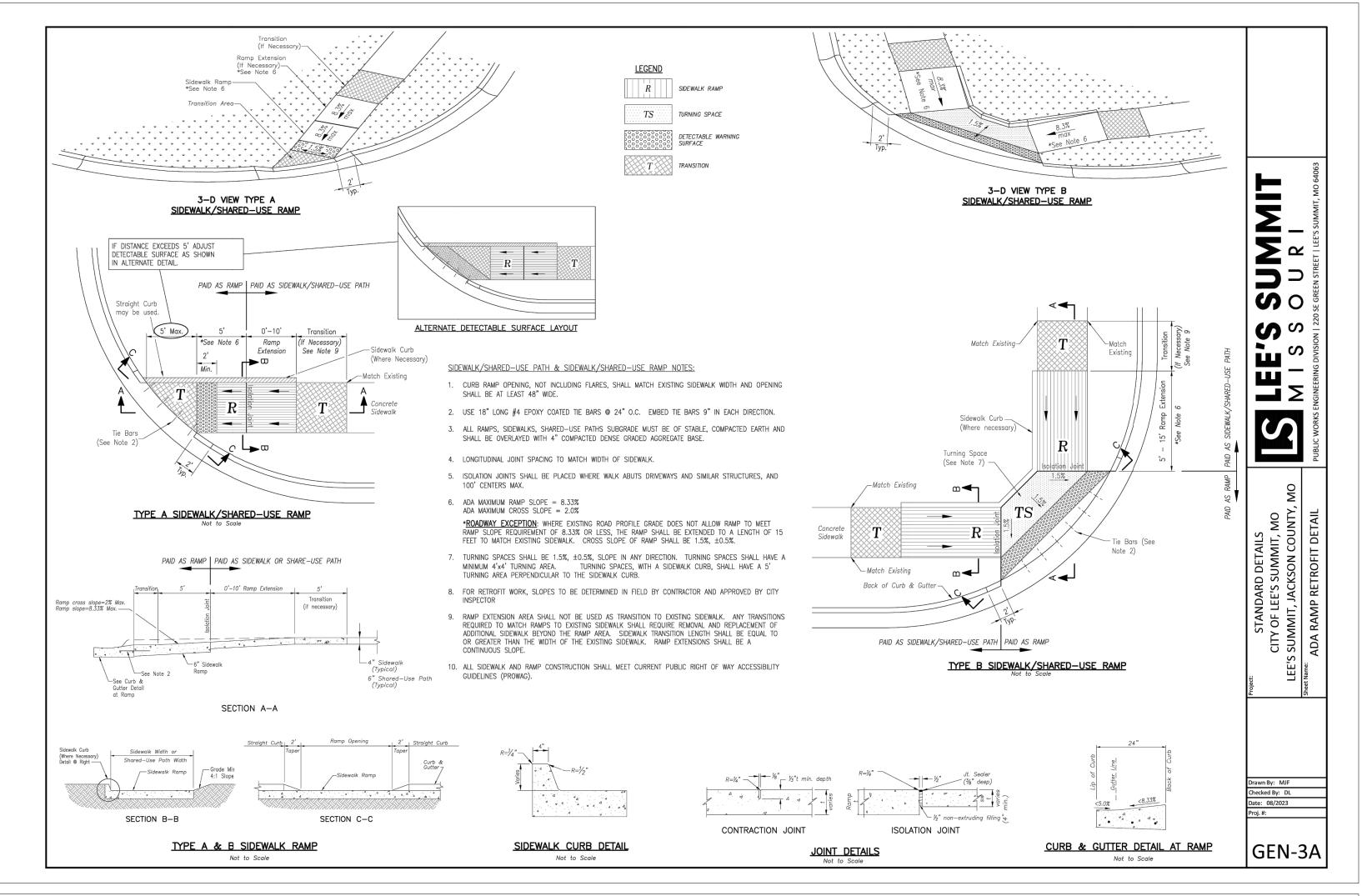
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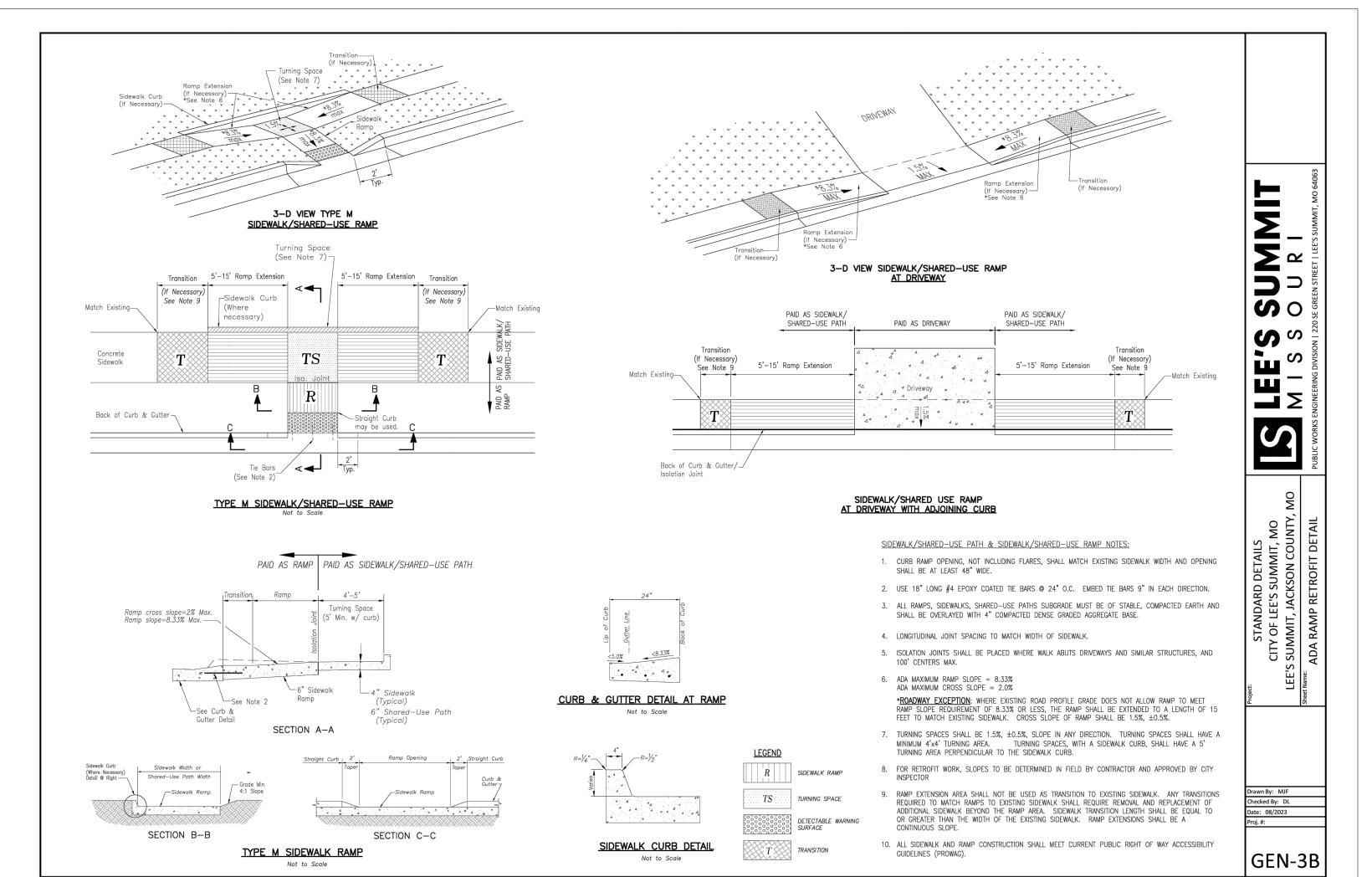
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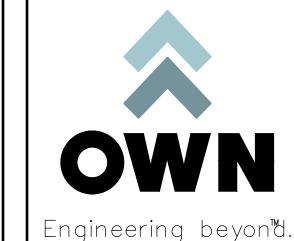
C402

42 OF 56

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## DISCOVERY CROSSING AT DISCOVERY PARK

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

REVISIONS		
NO.	DESCRIPTION	DATE

#### DRAWING INFORMATION

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DRAWN BY: JGD
CHECK BY: JWB

ISSUED DATE: 12/30/24

FIELD BOOK:

PRILIMINARIONSTRUCTION

LICENSE NO:

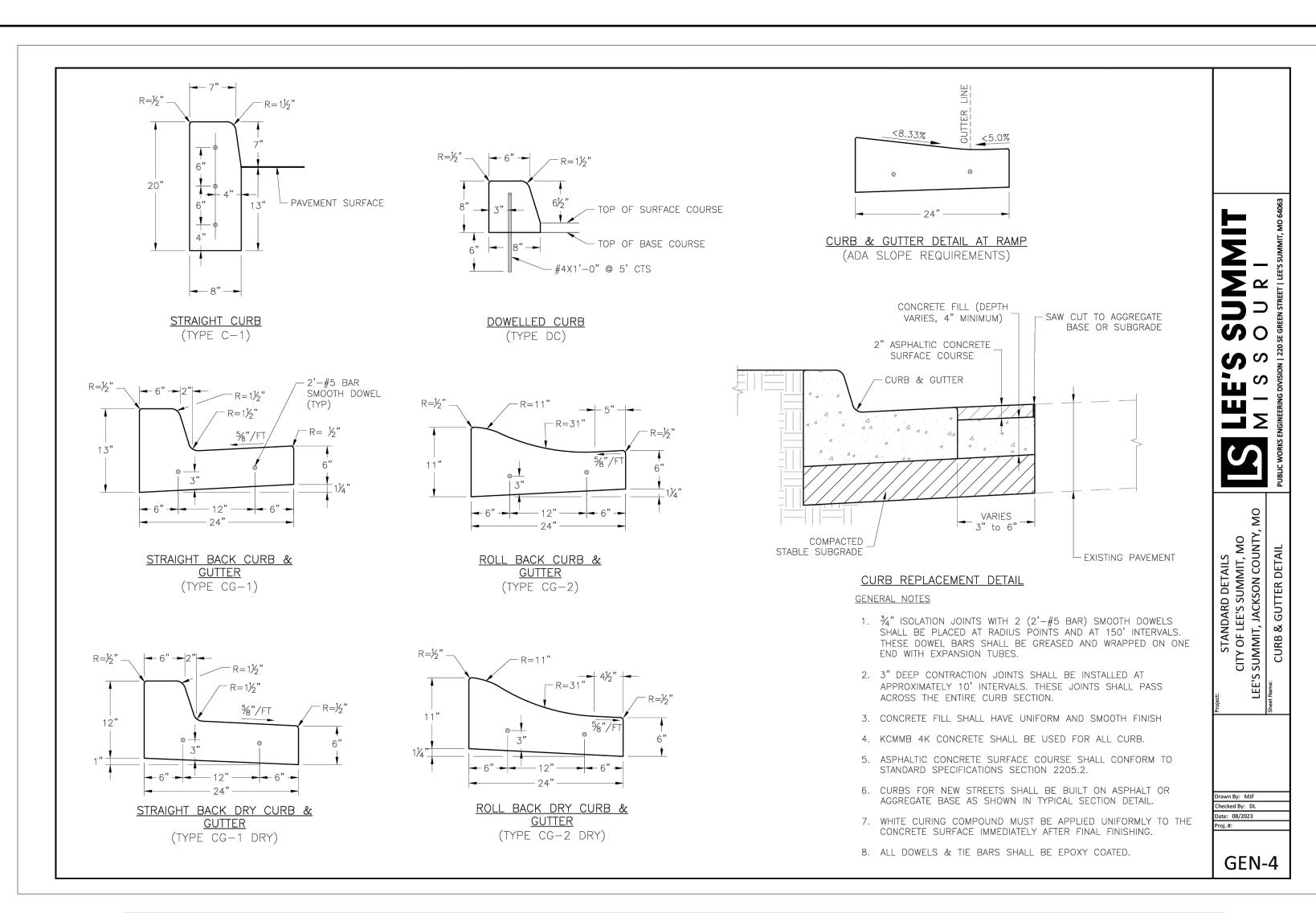
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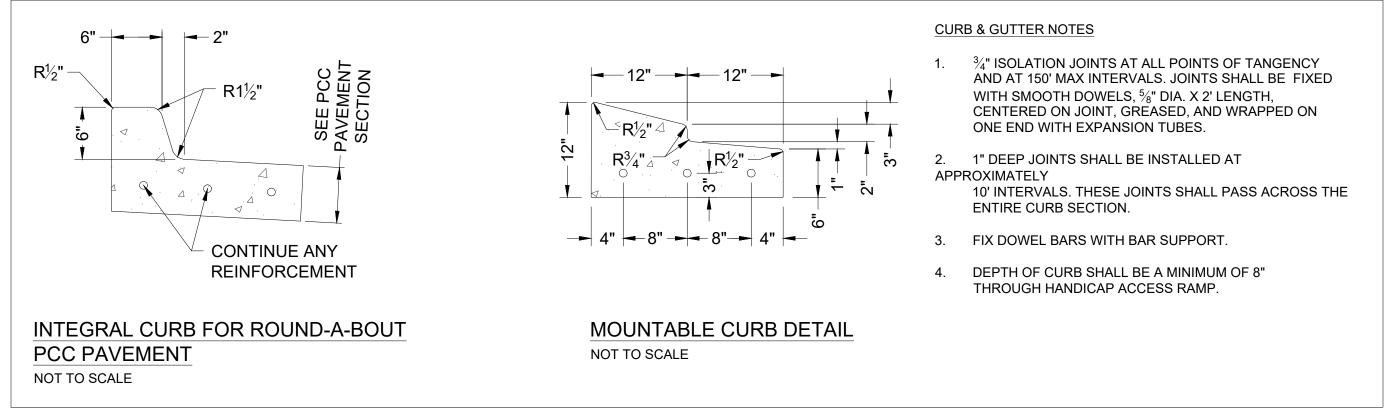
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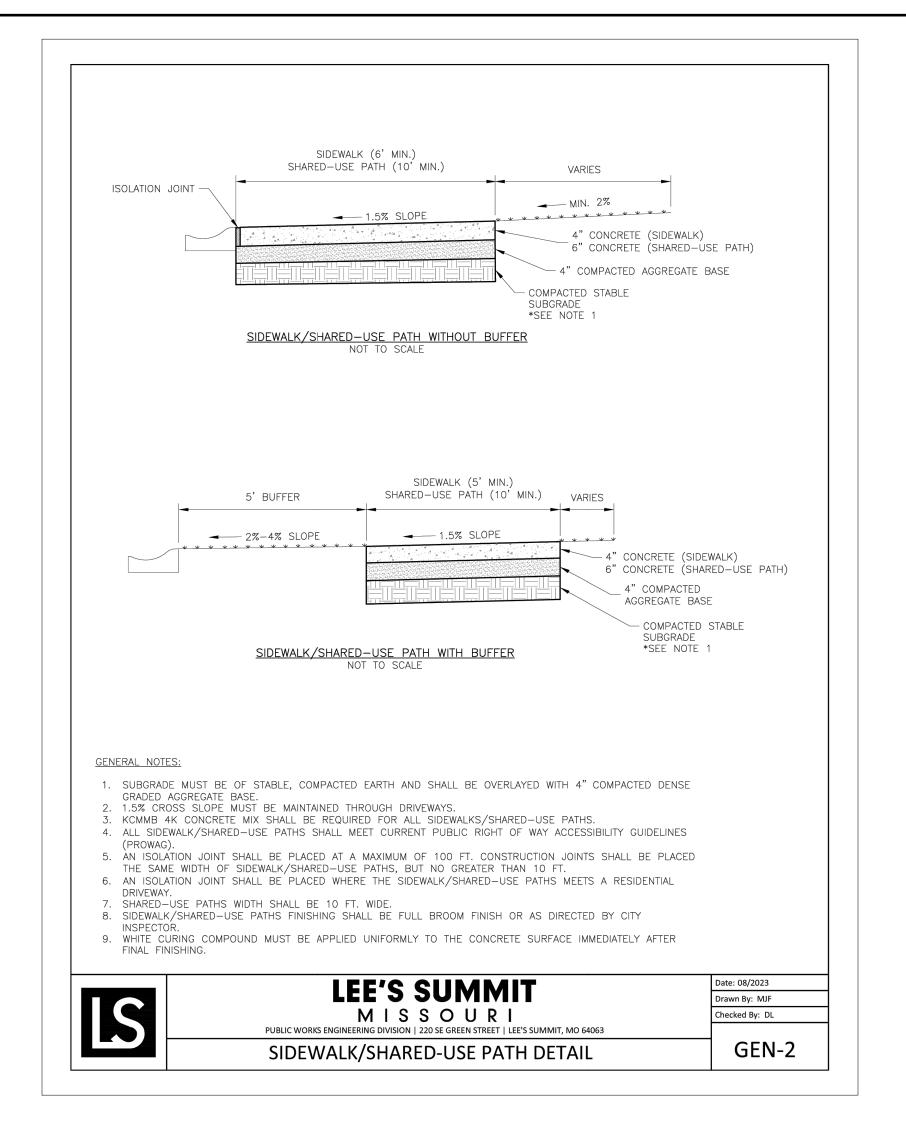
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SHEET NUMBER

**C500**43 OF 56









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## DISCOVERY CROSSING AT DISCOVERY PARK

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

REVISIONS		
NO.	DESCRIPTION	DATE

#### DRAWING INFORMATION

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CHECK BY: JWB

FIELD BOOK:

ISSUED DATE: 12/30/24

PRELIMINAR RUCTION

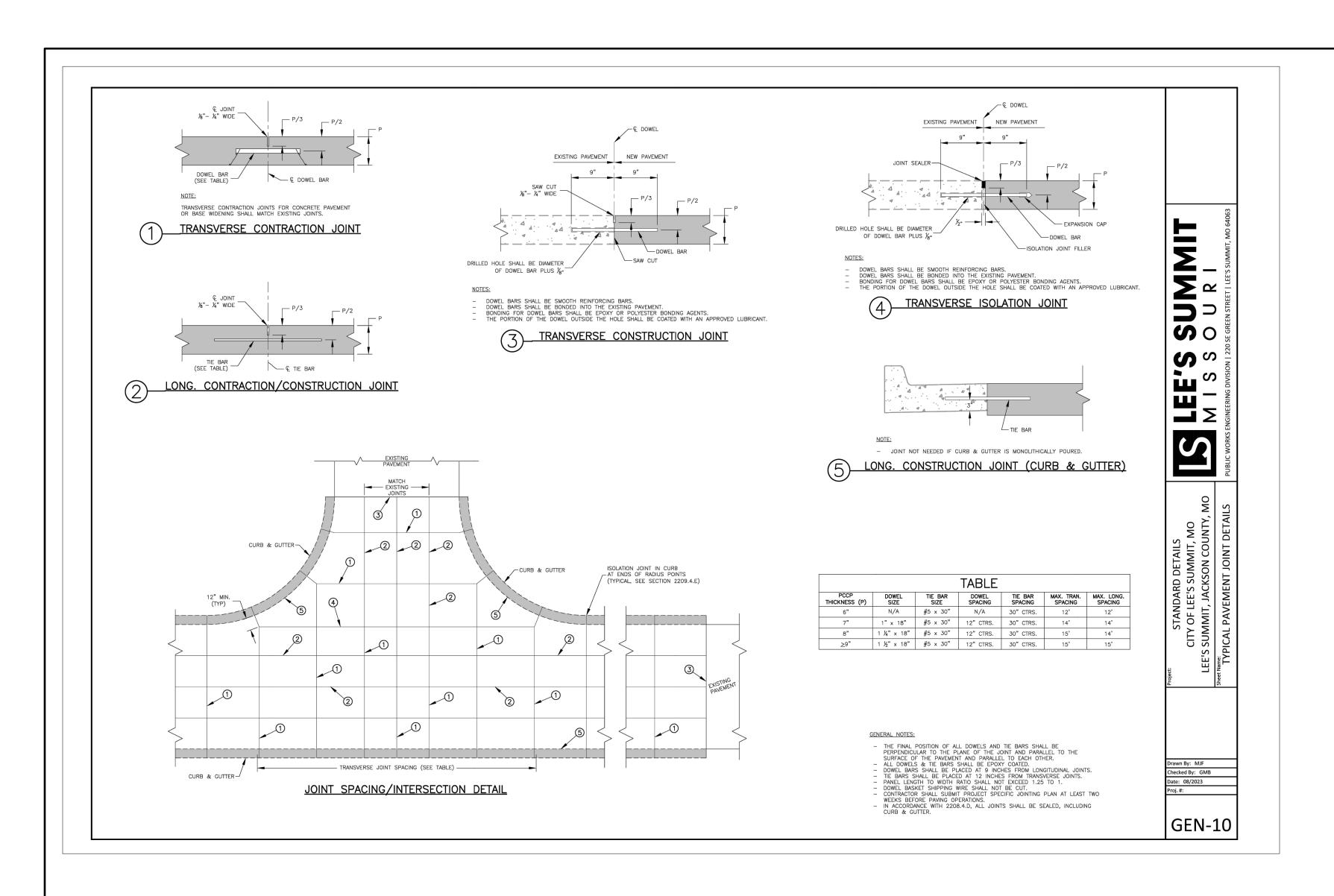
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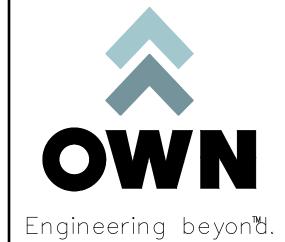
SHEET TITLE

CURB & SIDEWALK DETAILS

SHEET NUMBER

**C501**44 OF 56





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# DISCOVERY CROSSING AT DISCOVERY PARK

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

REVISIONS		
NO.	DESCRIPTION	DATE

## DRAWING INFORMATION

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DRAWN BY: JGD
CHECK BY: JWB

ISSUED DATE: 12/30/24

FIELD BOOK:

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LICENSE NO:

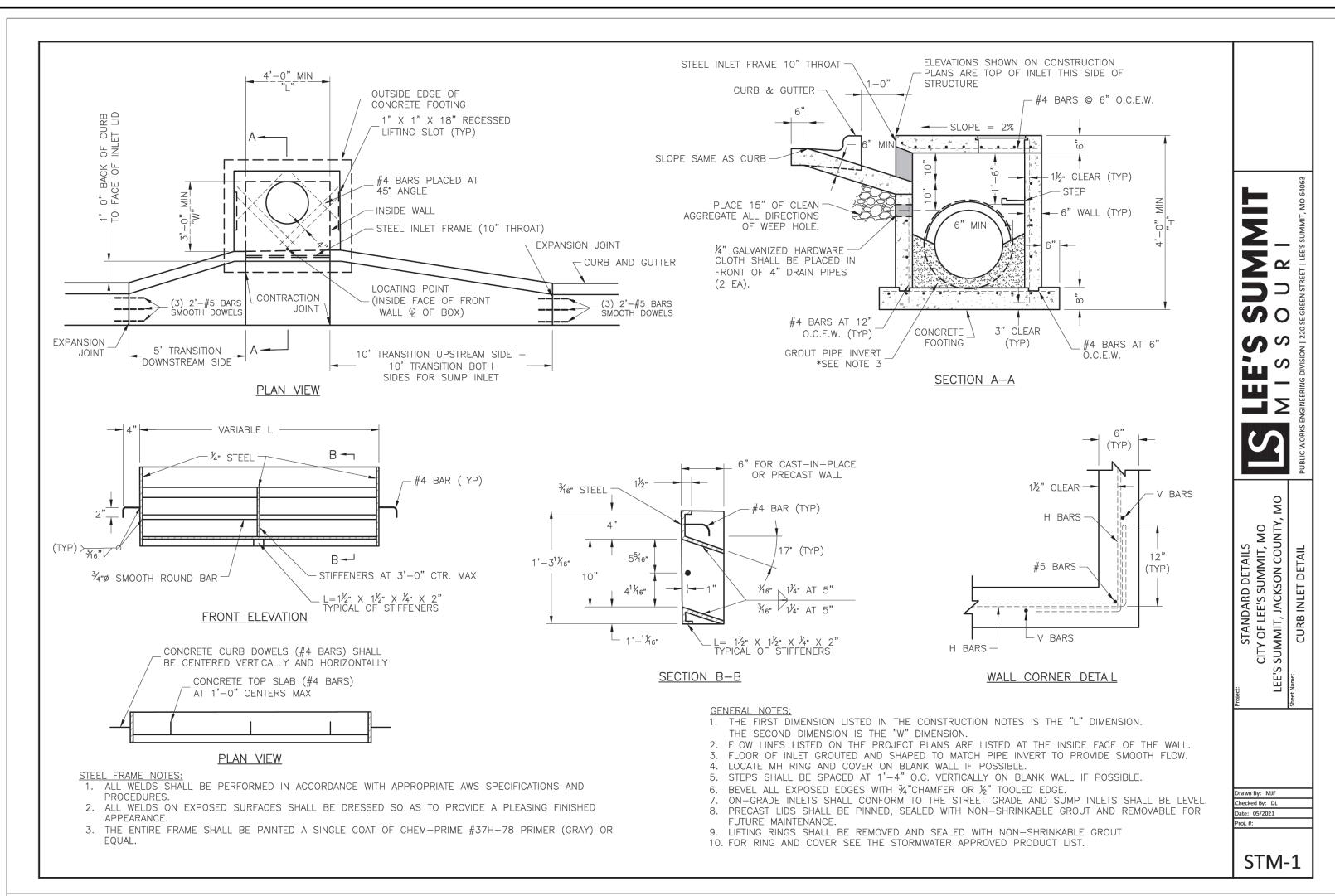
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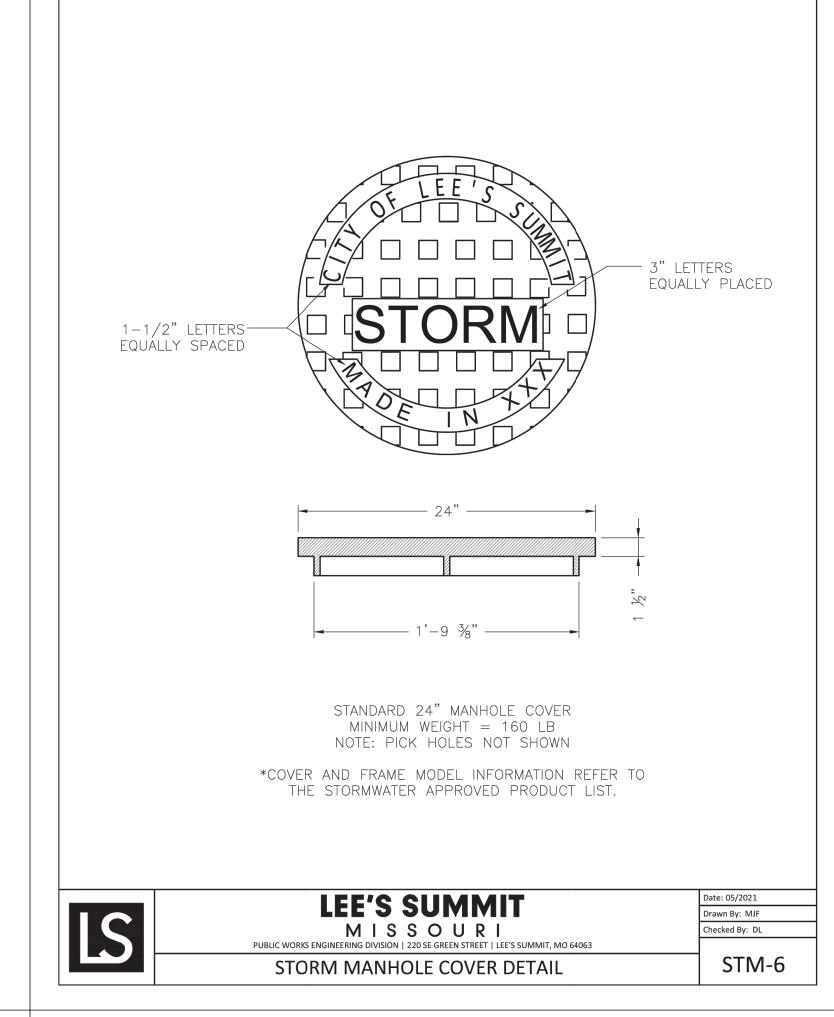
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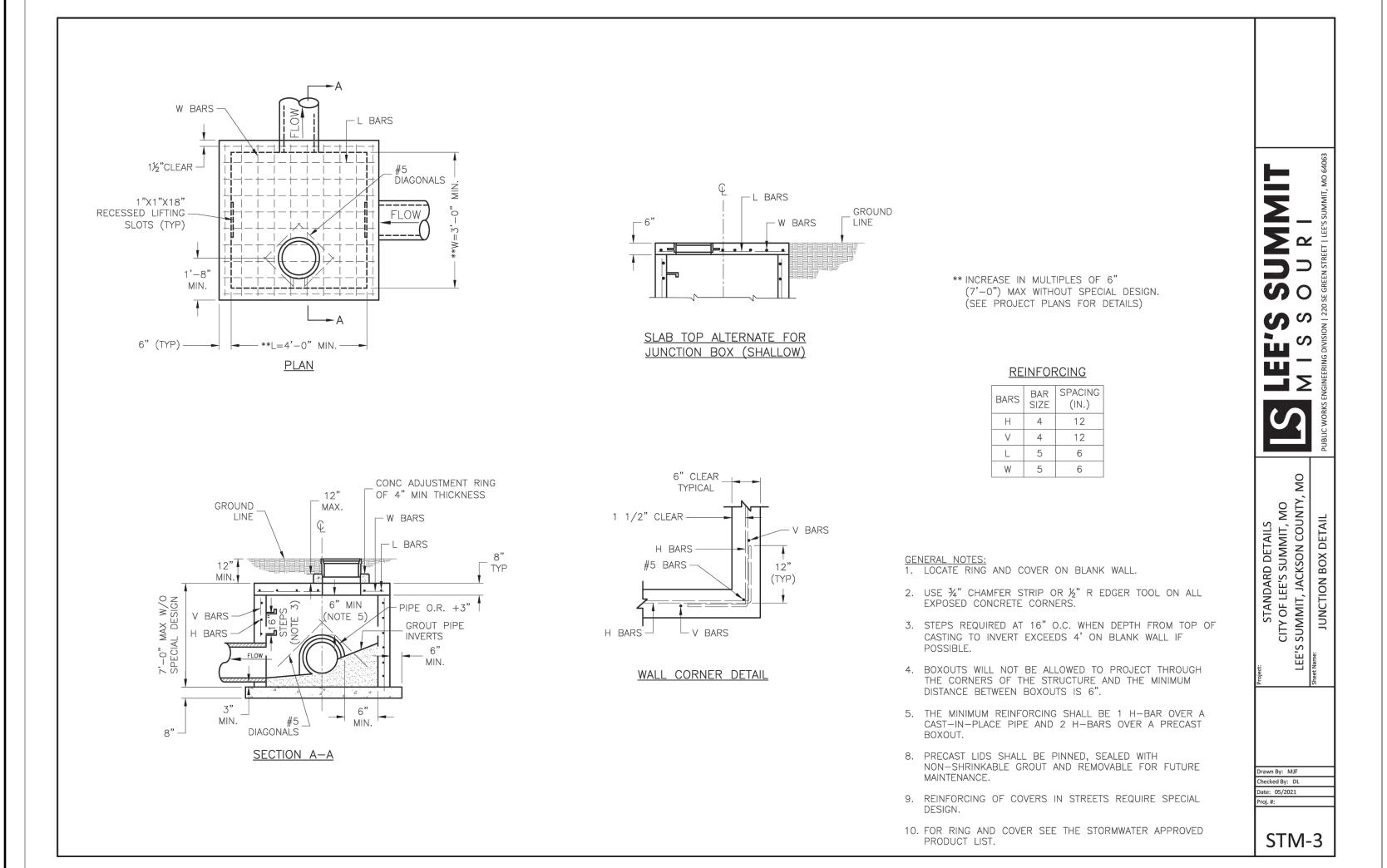
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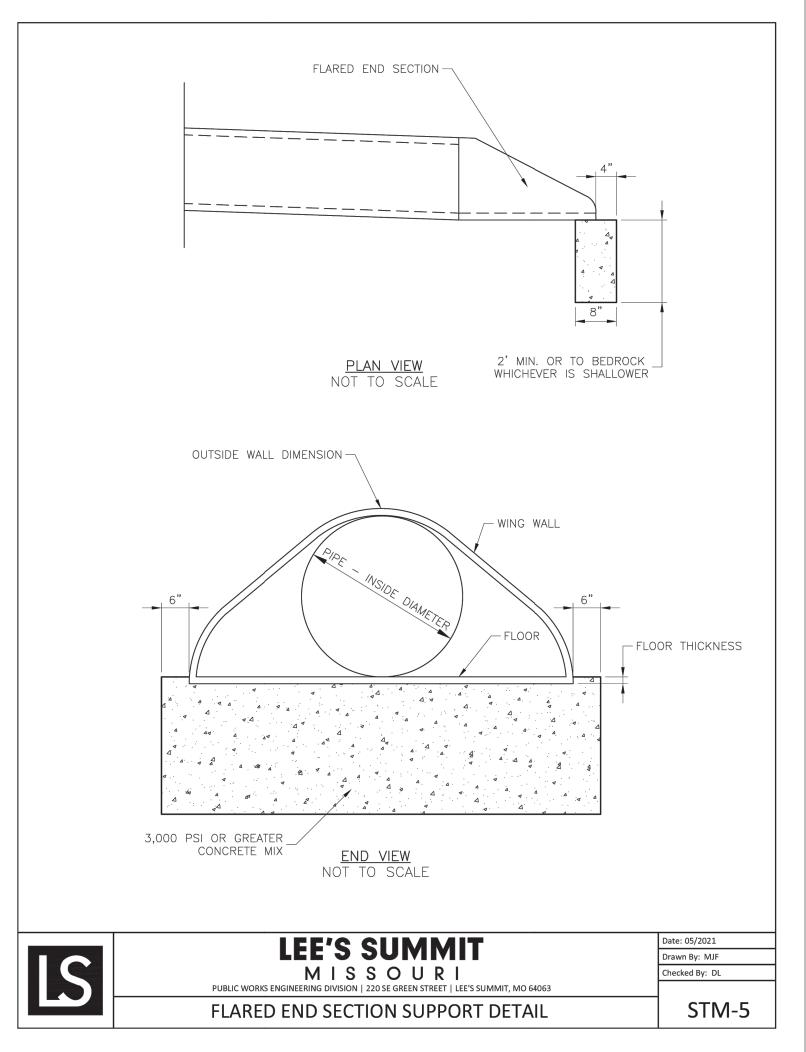
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45 OF 56

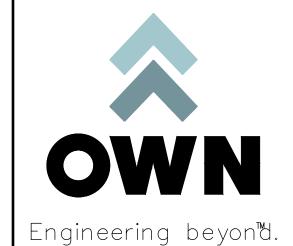
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## DISCOVERY CROSSING AT DISCOVERY PARK

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

REVISIONS		
NO.	DESCRIPTION	DATE

## DRAWING INFORMATION

PROJECT NO: 24KC10016 DRAWN BY: JGD

CHECK BY: JWB

ISSUED DATE: 12/30/24

FIELD BOOK:

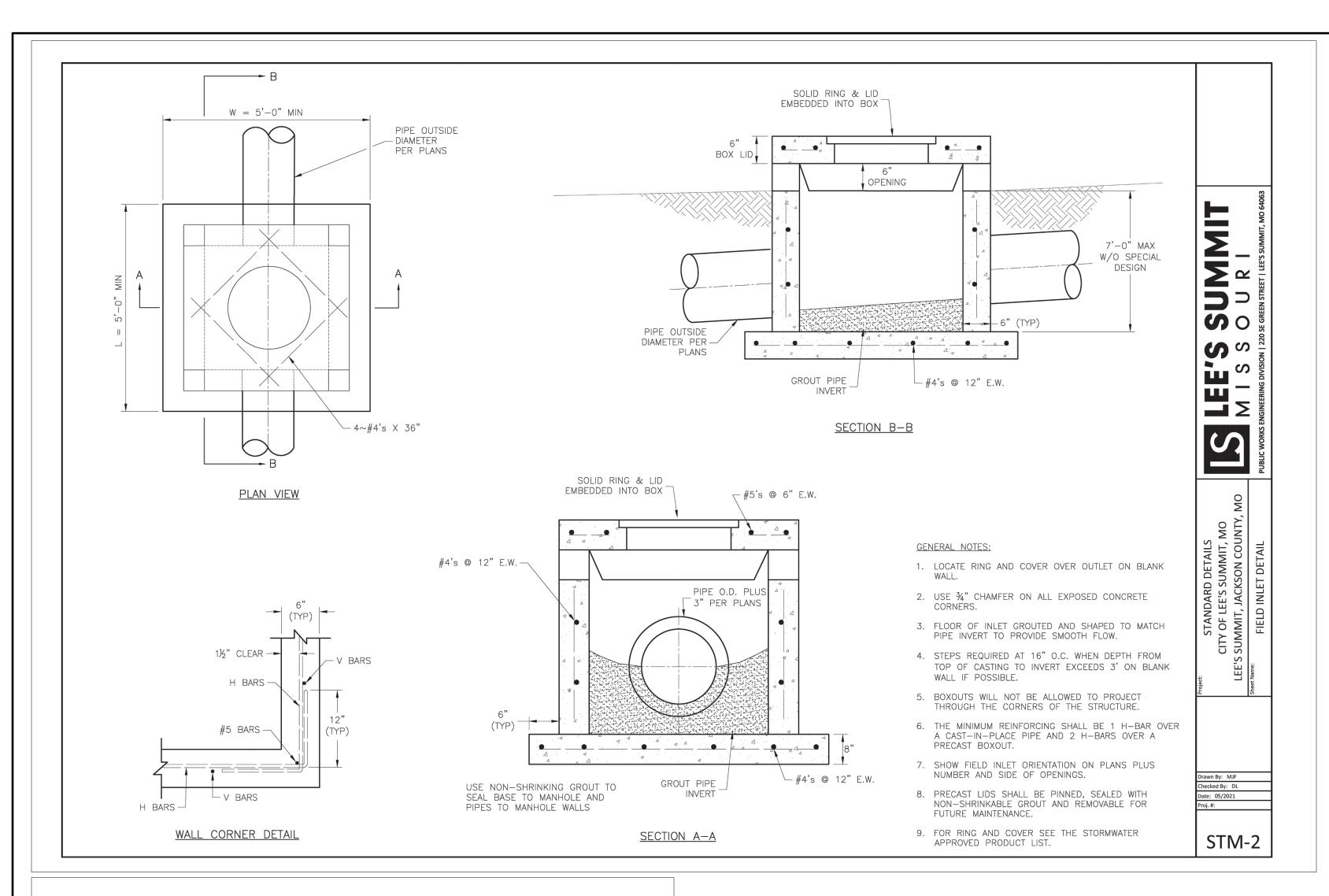
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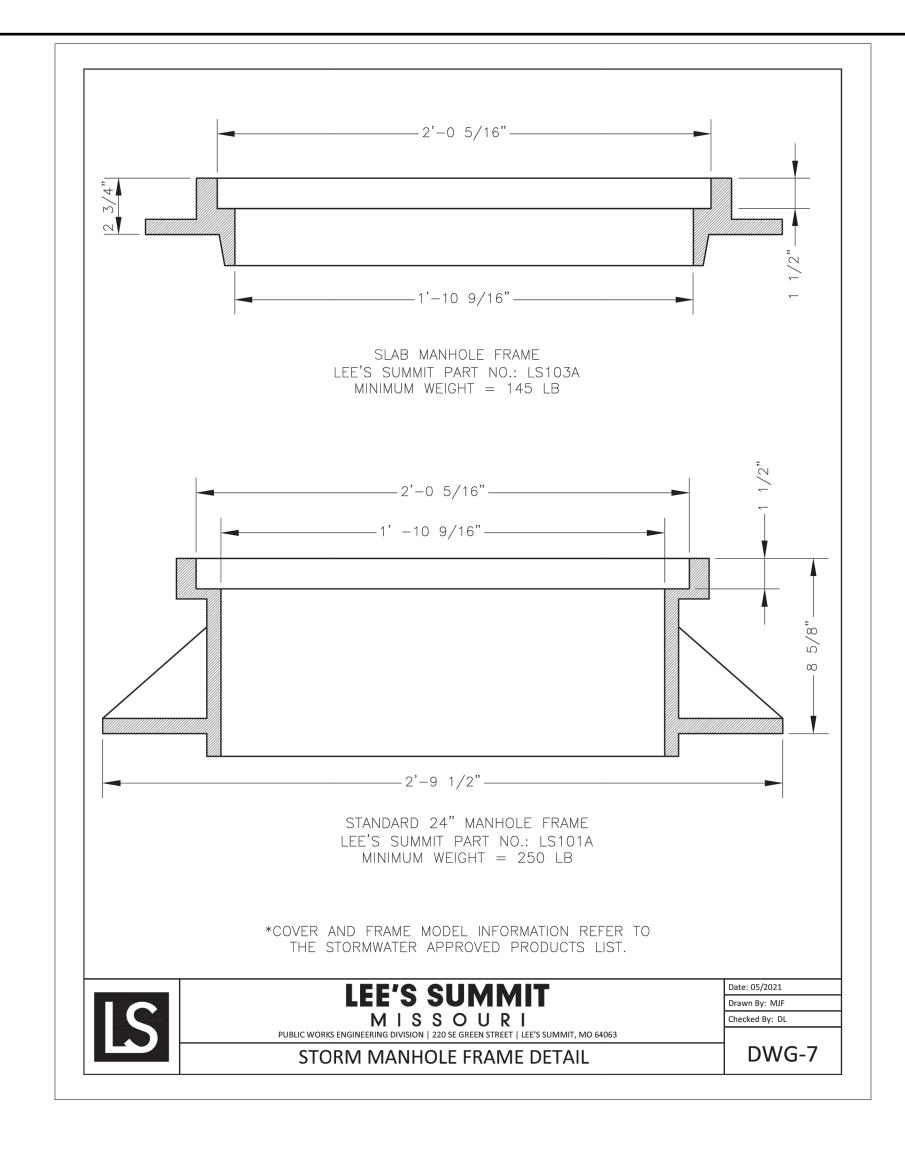
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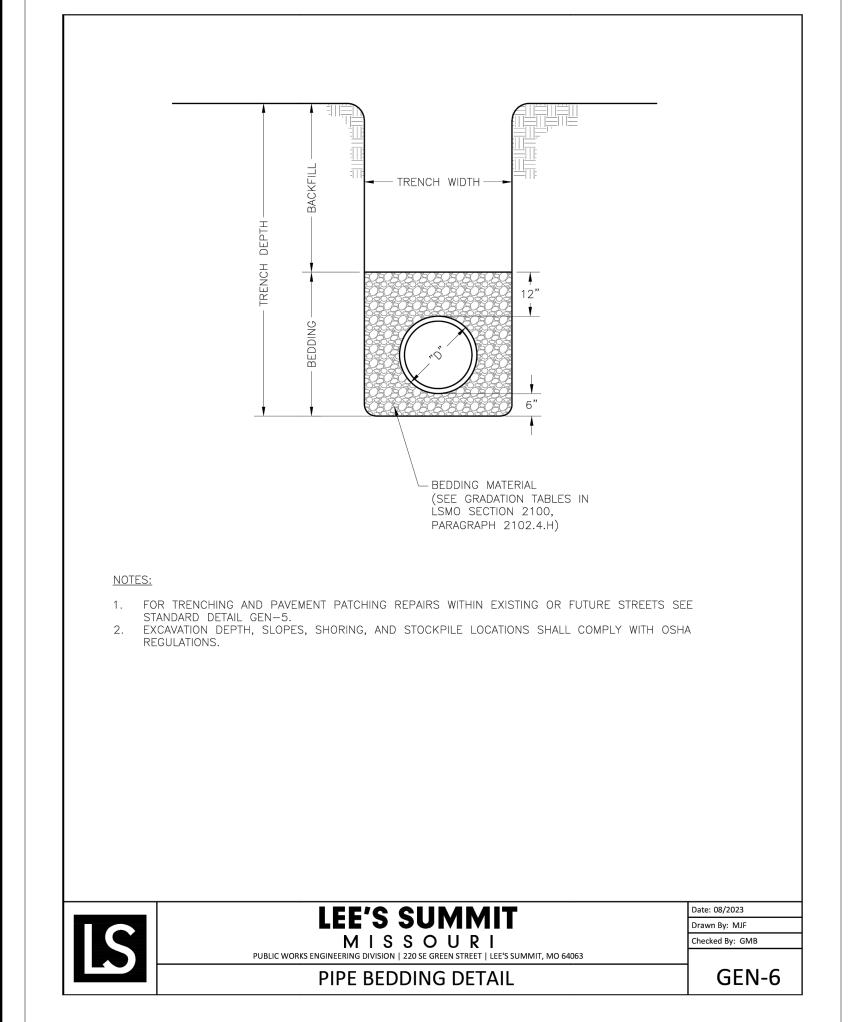
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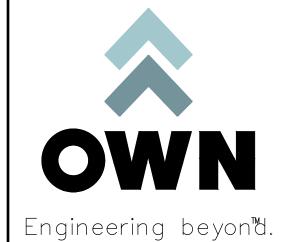
## STORM SEWER DETAILS 1

C503









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## DISCOVERY CROSSING AT DISCOVERY PARK

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

REVISIONS		
NO.	DESCRIPTION	DAT

#### DRAWING INFORMATION

PROJECT NO: 24KC10016

DRAWN BY: JGD

CHECK BY: JWB

ISSUED DATE: 12/30/24
FIELD BOOK:

PRELIMINARY

PROPERTION

ISSUED BY:

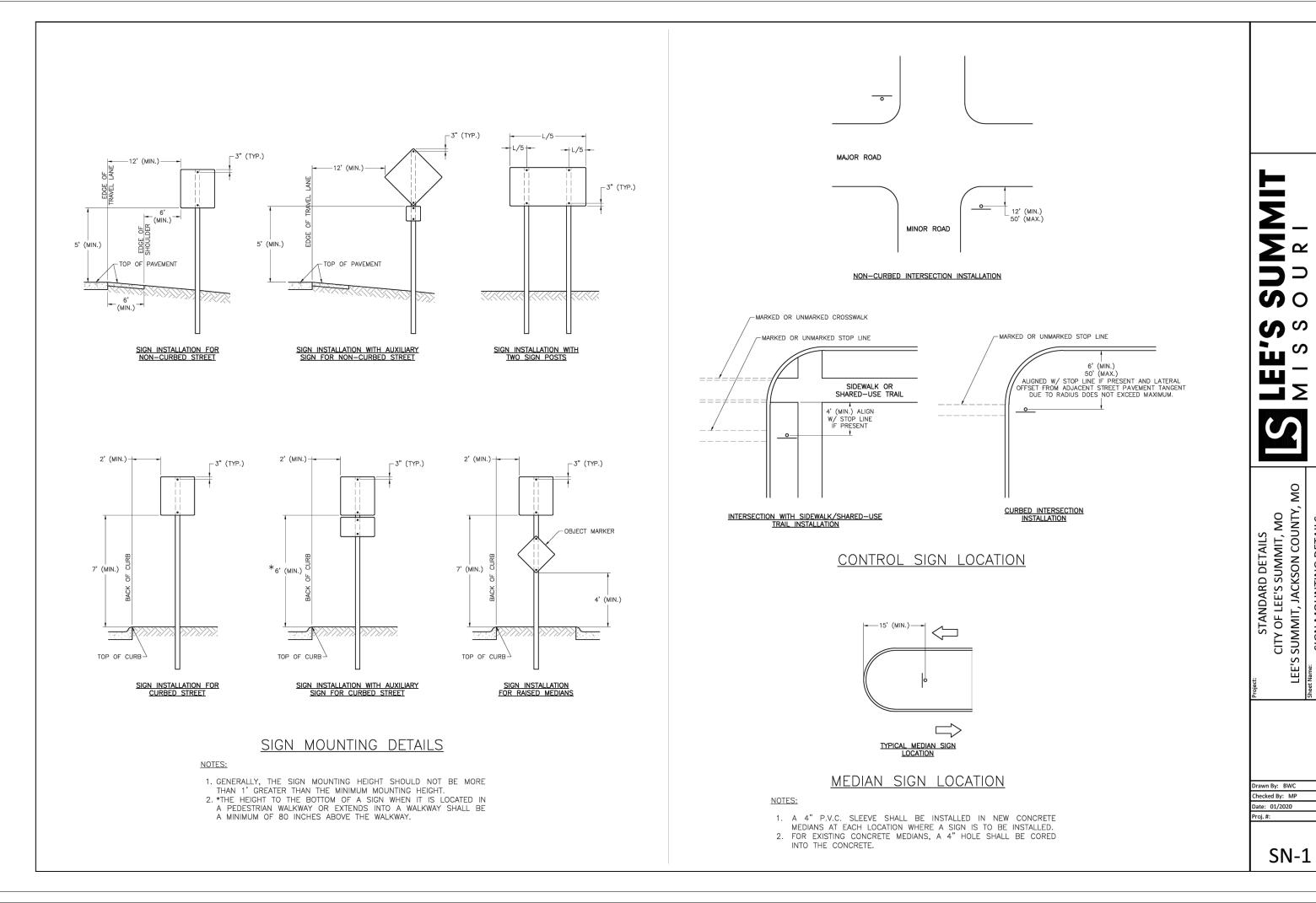
LICENSE NO:

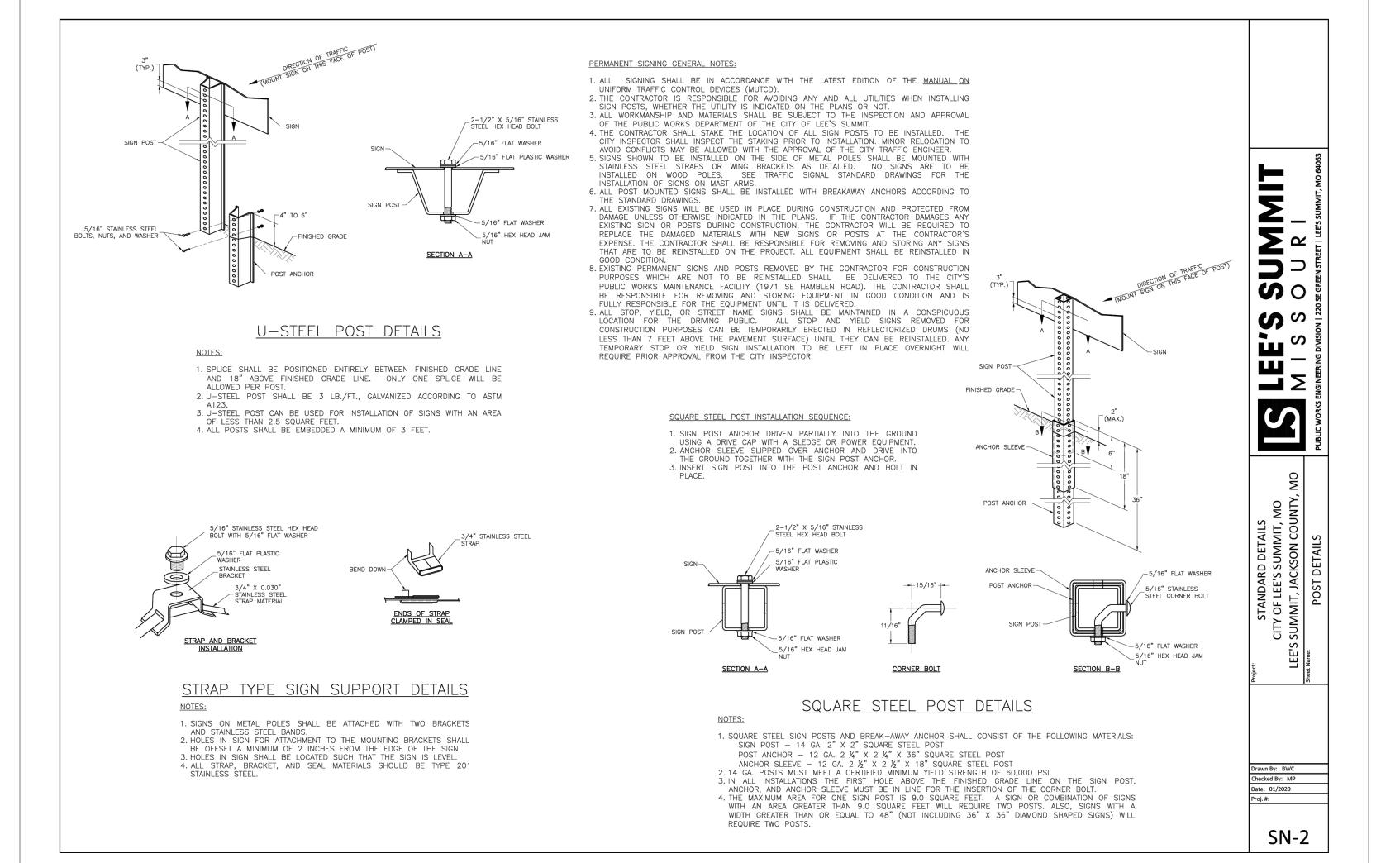
SHEET TITLE

STORM SEWER DETAILS 2

SHEET NUMBER

C504







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## DISCOVERY CROSSING AT DISCOVERY PARK

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

	REVISIONS		
NO.	DESCRIPTION	DATE	

#### DRAWING INFORMATION

PROJECT NO: 24KC10016

DRAWN BY: JGD
CHECK BY: JWB

ISSUED DATE: 12/30/24

FIELD BOOK:



ISSUED BY:

SHEET TITLE

SIGN POST & MOUNTING DETAILS

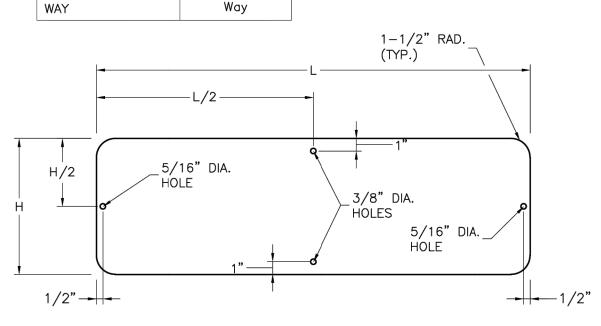
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**C505**48 OF 56

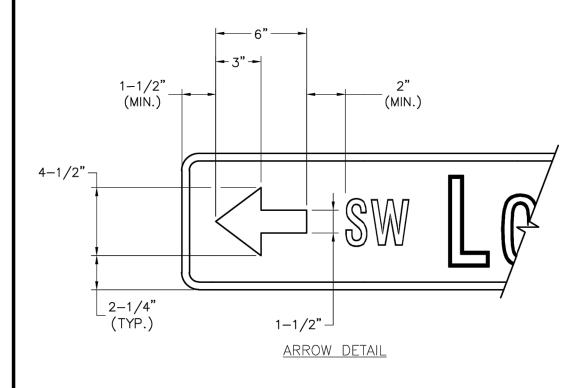
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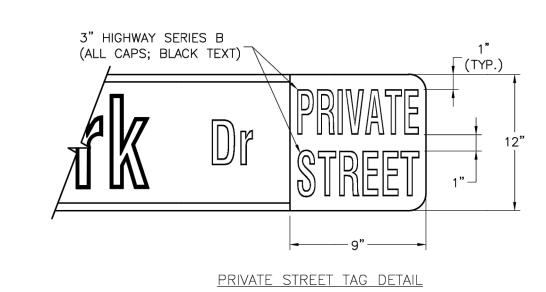
NAMED S	STREETS
AVENUE	Ave
BOULEVARD	Blvd
CIRCLE	Cir
CREEK	Cr
COURT	Ct
CROSSING	Xing
DRIVE	Dr
HIGHWAY	Hwy
LANE	Ln
PARKWAY	Pkwy
PLACE	PI
ROAD	Rd
STREET	St
TERRACE	Ter
TRAIL	Trl

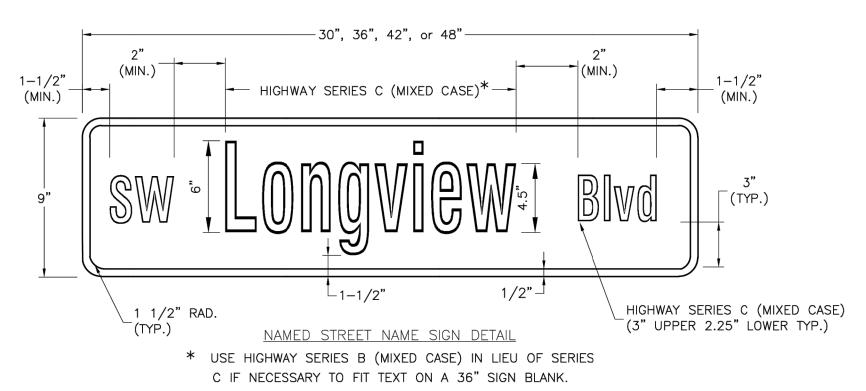
NUMBERED STR	REETS
FIRST	ST
SECOND	ND
THIRD	RD
FOURTH TO TENTH	TH



STREET NAME SIGN BLANK DETAILS
FOR MOUNTING ON SQUARE STEEL POSTS

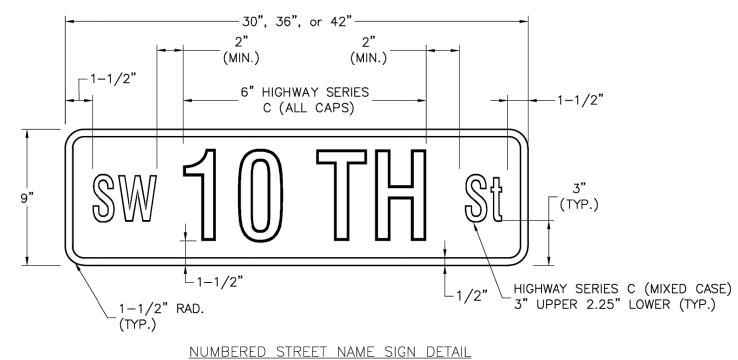






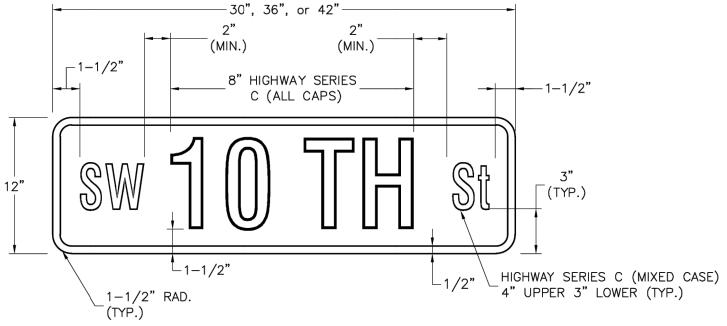
STREET NAME SIGN FACE DETAILS

POST MOUNTED 2-LANE ALL SPEEDS AND MULTI-LANE UNDER 40 MPH



NUMBERED STREET NAME SIGN DETAIL

STREET NAME SIGN FACE DETAILS
POST MOUNTED 2-LANE ALL SPEEDS AND MULTI-LANE UNDER 40 MPH



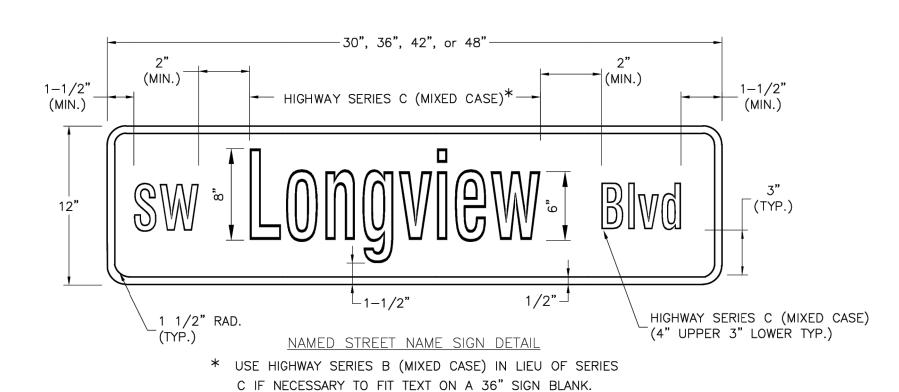
NUMBERED STREET NAME SIGN DETAIL

## STREET NAME SIGN FACE DETAILS

POST MOUNTED MULTI-LANE GREATER THAN 40 MPH

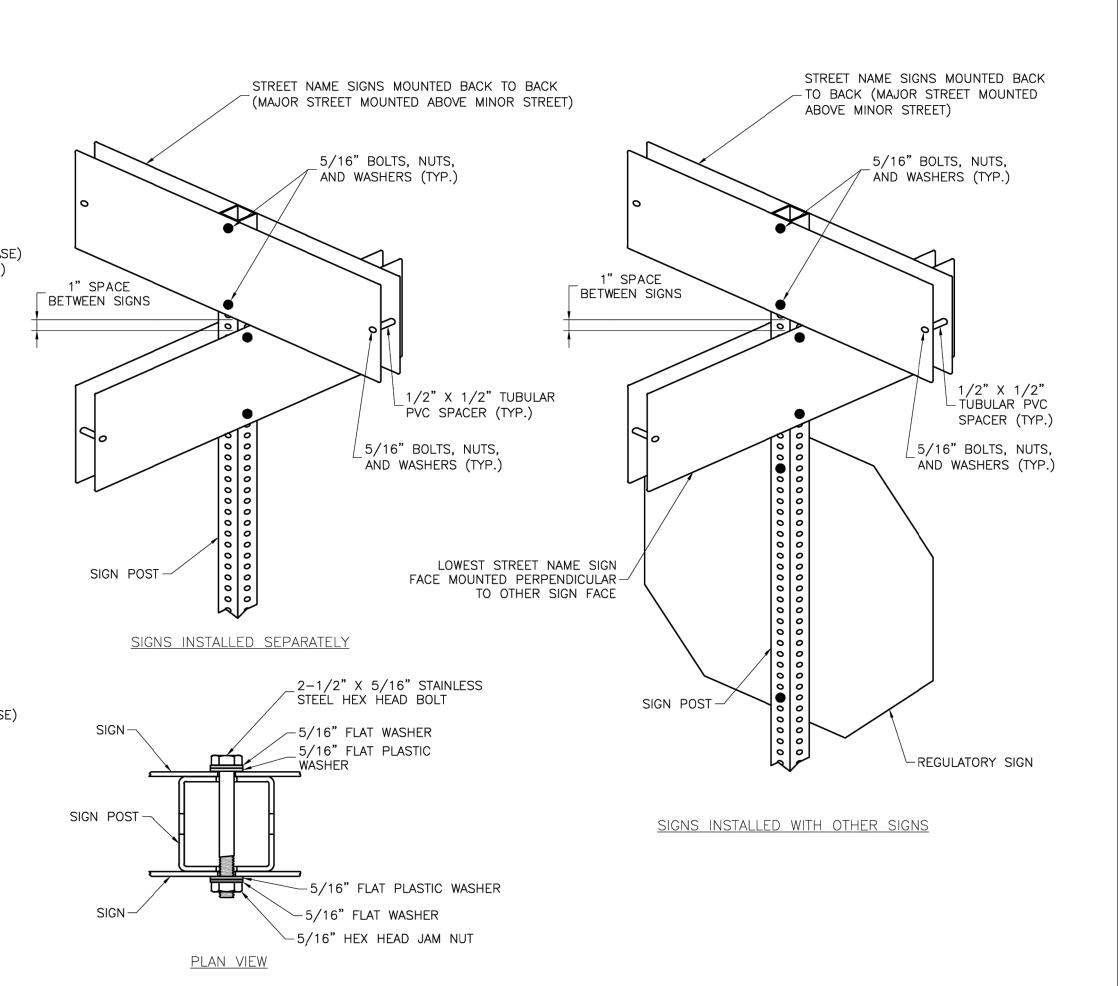
#### NOTES:

- 1. FOR ALL STREET NAME SIGNS, THE LEGEND SHALL BE WHITE AND THE BACKGROUND SHALL BE GREEN.
- 2. ARROWS SHALL BE ADDED TO STREET NAME SIGNS WHERE THE NAME OF A STREET CHANGES AT AN INTERSECTION. STREET NAME SIGNS WITH ARROWS ARE TO BE INSTALLED ON EACH SIDE OF THE INTERSECTION TO INDICATE THE CHANGE IN NAMES. ARROWS SHALL BE WHITE.
- 3. THE "PRIVATE STREET" TAG SHOULD BE ADDED TO THE END OF STREET NAME SIGNS TO INDICATE WHERE A STREET THAT IS OUTSIDE THE RIGHT-OF-WAY INTERSECTS A PUBLIC STREET. THE BACKGROUND FOR THE "PRIVATE STREET" TAG SHALL BE YELLOW.
- 4. MULTI-LANE IS DEFINED AS HAVING 2 LANES OR MORE IN EACH DIRECTION, EXCLUDING TURN LANES.
- 5. OVERHEAD SIGN DETAILS MAY BE FOUND ON THE SIGNAL HEAD MOUNTING DETAIL.



STREET NAME SIGN FACE DETAILS

POST MOUNTED MULTI-LANE GREATER THAN 40 MPH



SQUARE STEEL POST MOUNTING DETAILS

LEE'S SUMMINION OF STREET LESS INVITED OF STR

CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
STREET NAME SIGN DETAILS

Orawn By: BWC
Checked By: MP
Date: 01/2020
Proj. #:

SN-3

OWN

Engineering beyon<sup>th</sup>.

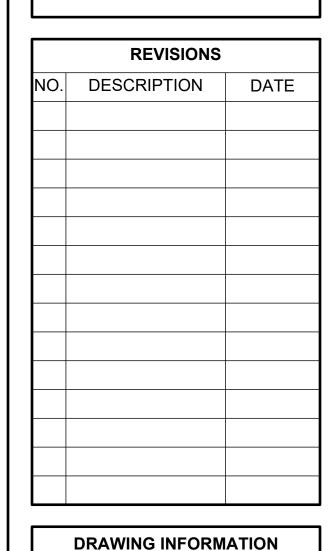
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## DISCOVERY CROSSING AT DISCOVERY PARK

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

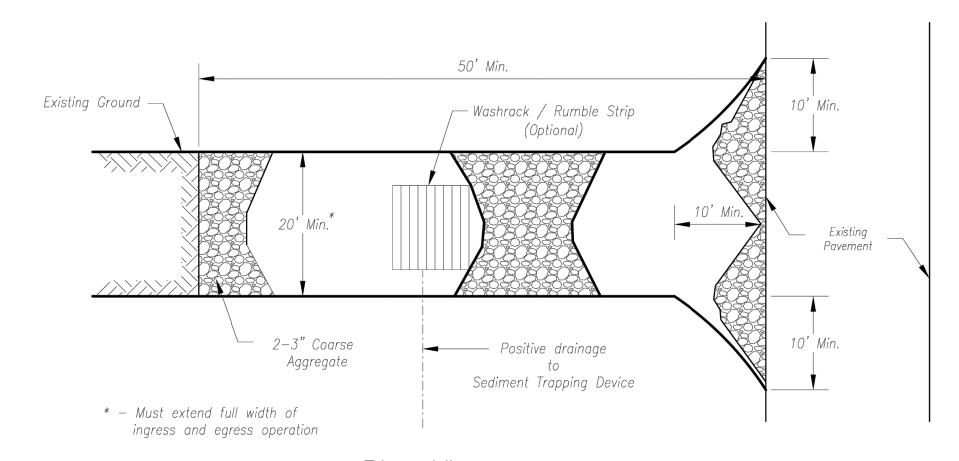


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ISSUED DATE: ^	12/30/24
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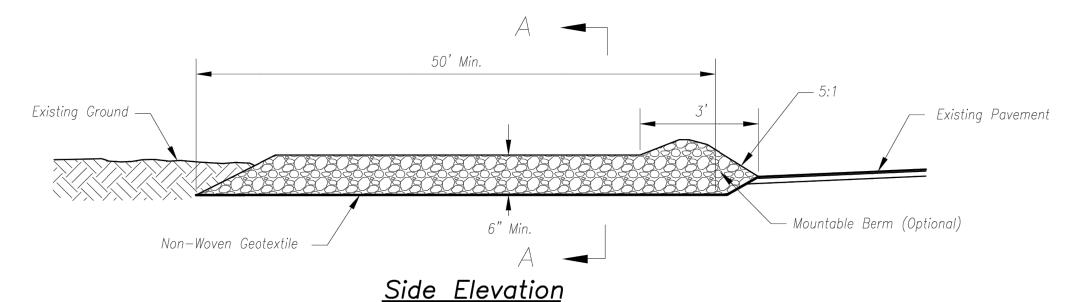
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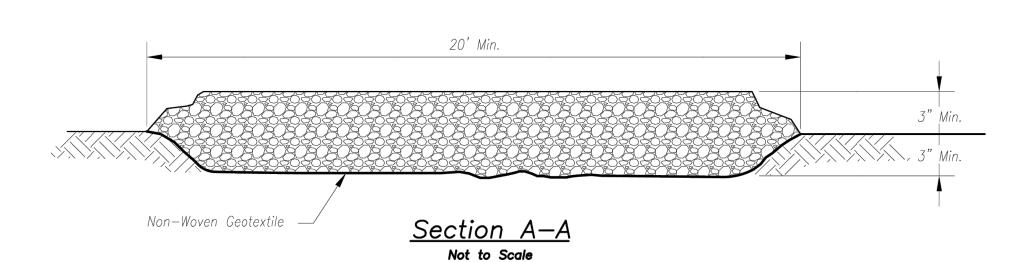
STREET NAME
SIGN DETAILS

C506



## Plan View Not to Scale





#### Notes for Construction Entrance:

- Avoid locating on steep slopes, at curves on public roads, or downhill of disturbed area.
- Remove all vegetation and other unsuitable material from the foundation area, grade, and crown for positive drainage.
- 3. If slope towards the public road exceeds 2%, construct a 6— to 8—inch high ridge with 3H:1V side slopes across the foundation approximately 15 feet from the edge of the public road to divert runoff from it.
- 4. Install pipe under the entrance if needed to maintain drainage ditches along public roads.
- Place stone to dimensions and grade as shown on plans. Leave surface sloped for drainage.
- Divert all surface runoff and drainage from the entrance to a sediment control device.
- If conditions warrant, place geotextile fabric on the graded foundation to improve stability.

#### Maintenance for Construction Entrance:

 Reshape entrance as needed to maintain function and integrity of Installation. Top dress with clean aggregate as needed.

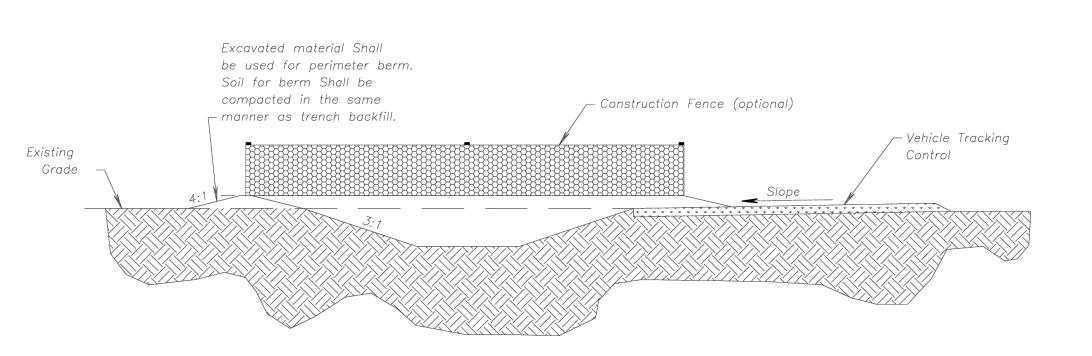
### **CONSTRUCTION ENTRANCE**

#### Notes for Concrete Washout:

- Concrete washout areas shall be installed prior to any concrete placement on site.
- Concrete washout area shall include a flat subsurface pit sized relative to the amount of concrete to be placed on site. The slopes leading out of the subsurface pit shall be 3:1. The vehicle tracking pad shall be sloped towards the concrete washout area.
- Vehicle tracking control is required at the access point to all concrete washout areas.
- 4. Signs shall be placed at the construction site entrance, washout area and elsewhere as necessary to clearly indicate the location(s) of the concrete washout area(s) to operators of concrete truck and pump rigs.
- 5. A one-piece impervious liner may be required along the bottom and sides of the subsurface pit in sandy or gravelly soils.

#### Maintenance for Concrete Washout:

- Concrete washout materials shall be removed once the materials have filled the washout to approximately 75% full.
- Concrete washout areas shall be enlarged as necessary to maintain capacity for wasted concrete.
- Concrete washout water, wasted pieces of concrete and all other debris in the subsurface pit shall be transported from the job site in a water—tight container and disposed of properly.
- 4. Concrete washout areas shall remain in place until all concrete for the project is placed.
- 5. When concrete washout areas are removed, excavations shall be filled with suitable compacted backfill and topsoil, any disturbed areas associated with the installation, maintenance, and/or removal of the concrete washout areas shall be stabilized.



## CONCRETE WASHOUT

Construction Entrance modified from 2015 Overland Park Standard Details for Erosion and Sediment Control; Concrete Washout modified from 2009

City of Great Bend Standard Drawings.

## AMERICAN PUBLIC WORKS ASSOCIATION



KANSAS CITY METRO CHAPTER

CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT

STANDARD DRAWING
NUMBER ESC-0|
ADOPTED:
10/24/2016



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ORMERLY ANDERSON ENGINEERING

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# DISCOVERY CROSSING AT DISCOVERY PARK

SW OF THE INTERSECTION OF NE COLBERN RD & NE DOUGLAS RD LEE'S SUMMIT, MO

REVISIONS		
NO.	DESCRIPTION	DATE

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FIELD BOOK:

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ISSUED BY: LICENSE NO:

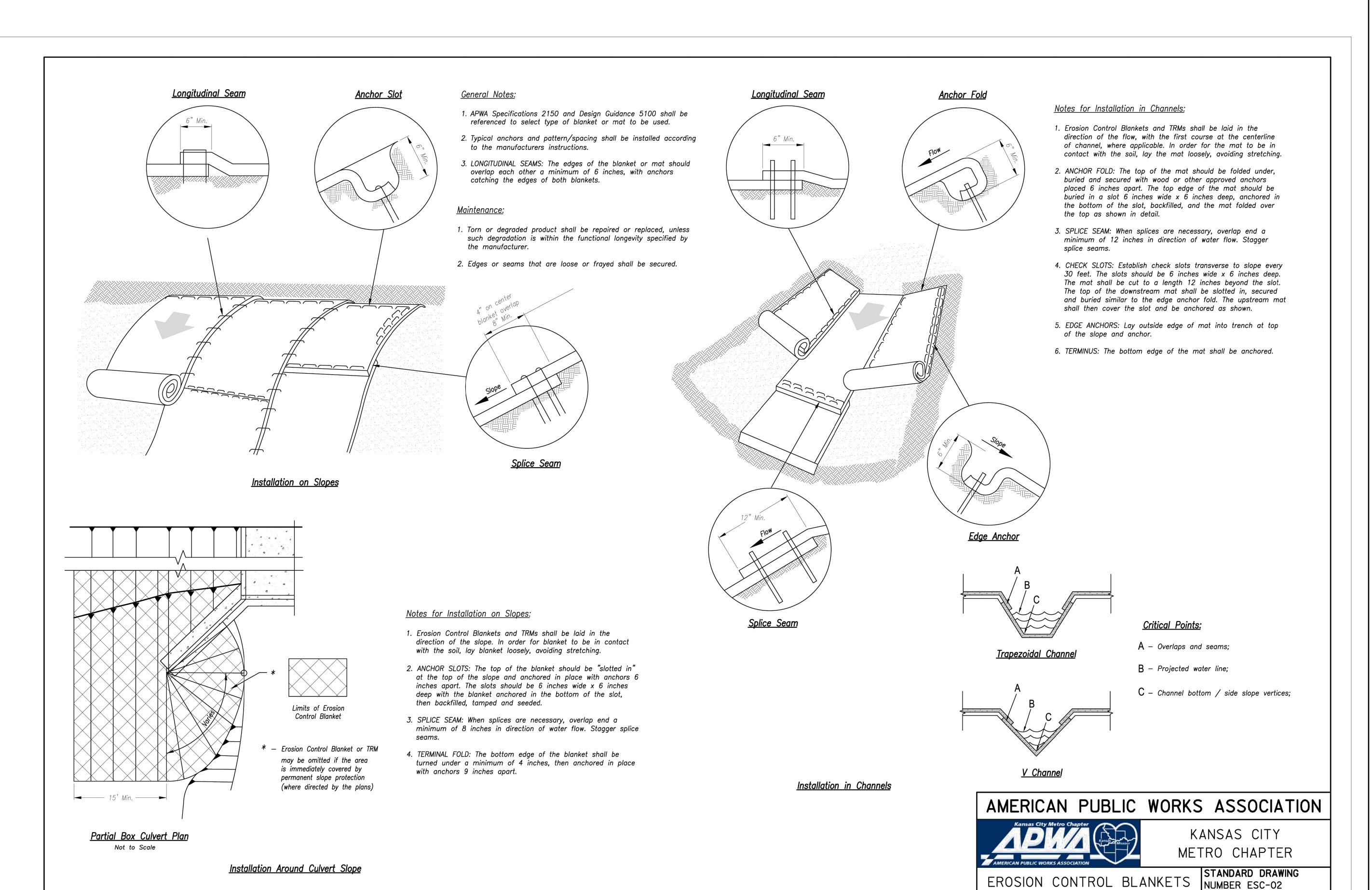
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CONSTRUCTION ENTRANCE DETAILS

SHEET NUMBER

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10/24/2016

Modified from 2015 Overland Park Standard Details

for Erosion and Sediment Control.

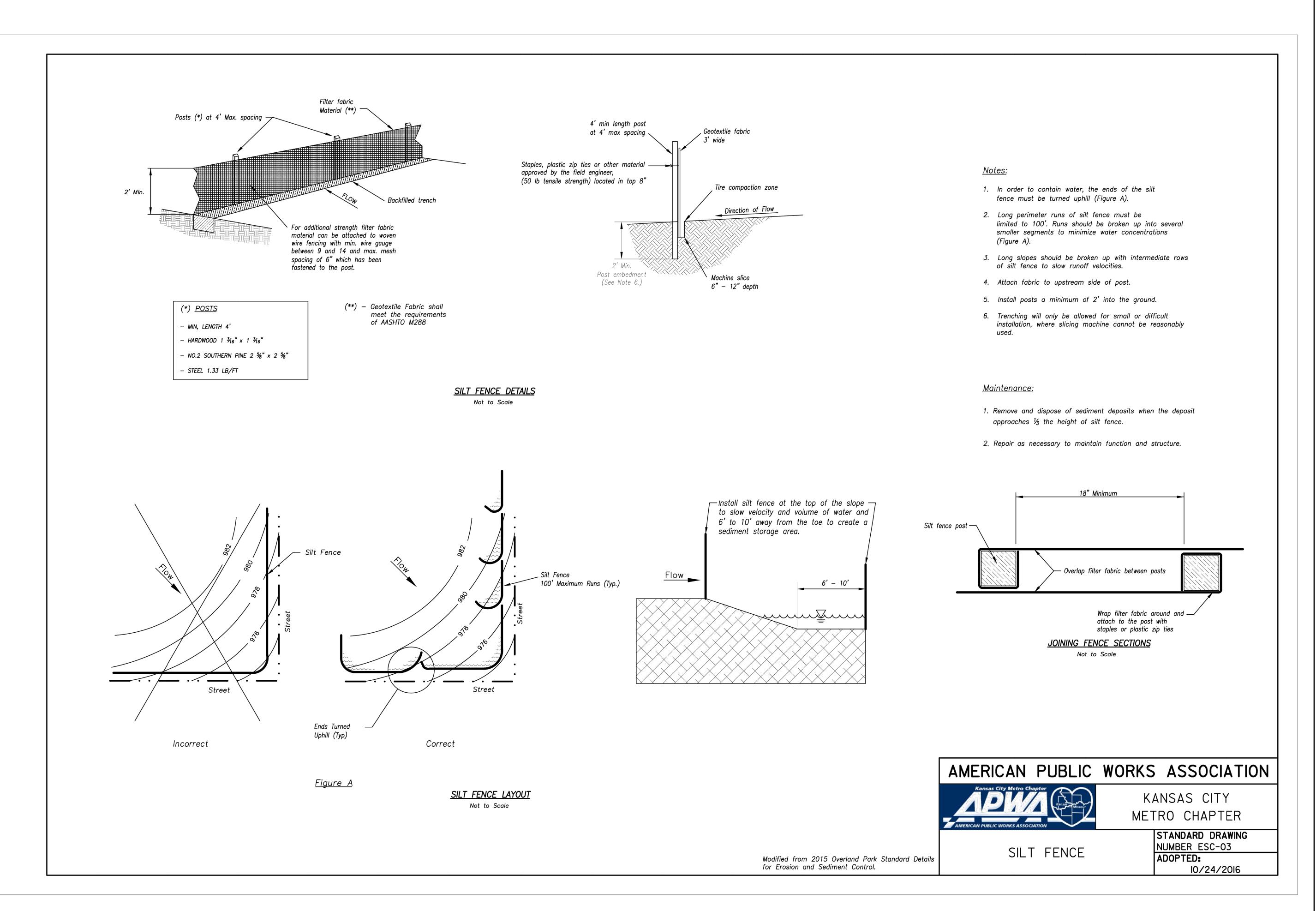
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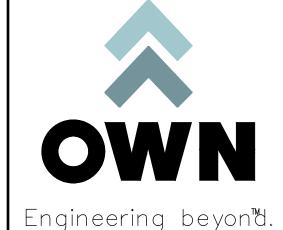
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STEEP SLOPE PROTECTION DETAILS

SHEET NUMBER

C508





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### DISCOVERY CROSSING AT DISCOVERY PARK

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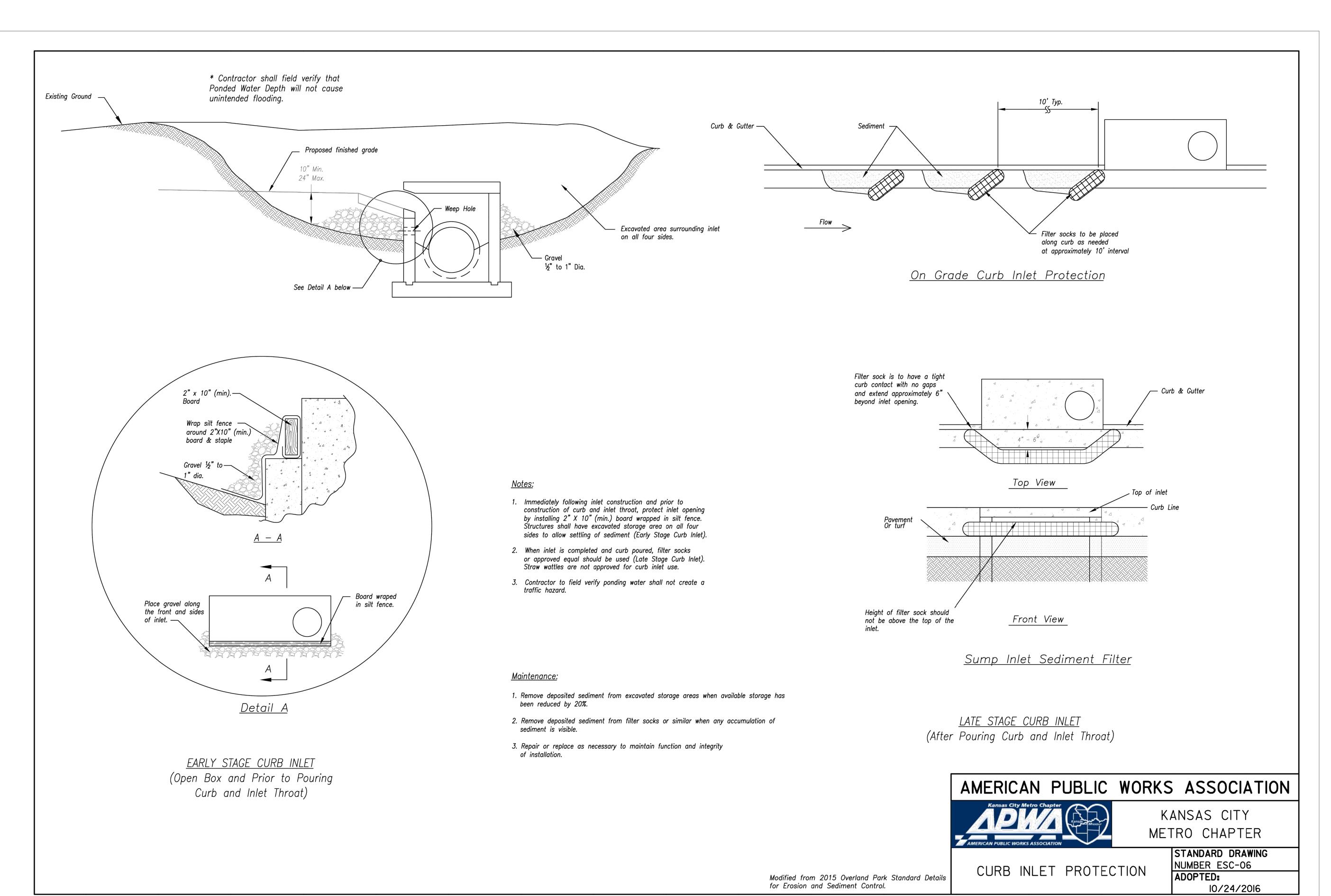
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### **DISCOVERY CROSSING AT DISCOVERY PARK**

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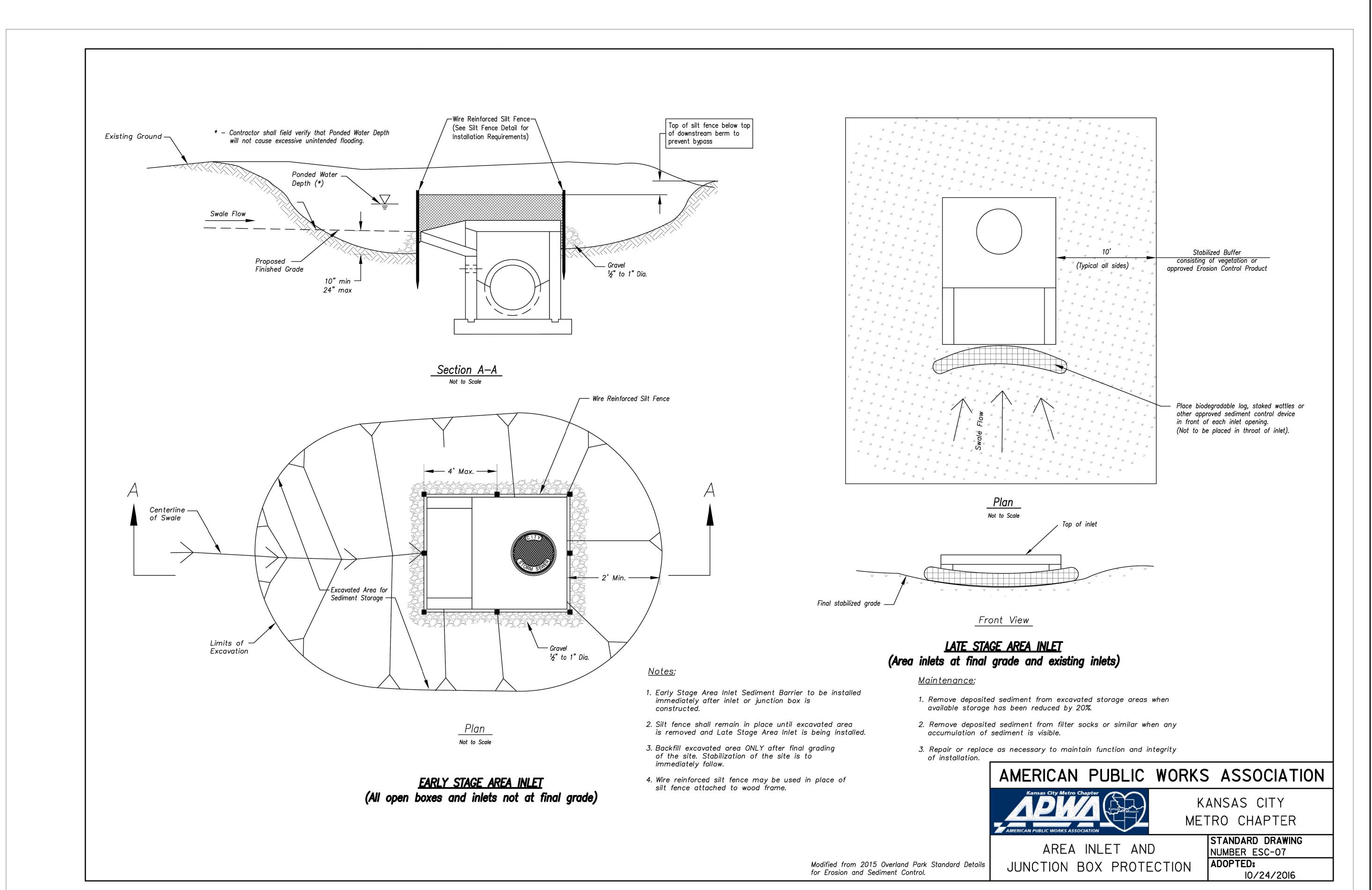
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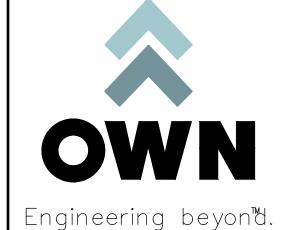
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SHEET NUMBER

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# DISCOVERY CROSSING AT DISCOVERY PARK

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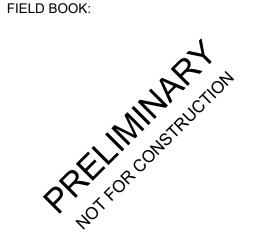
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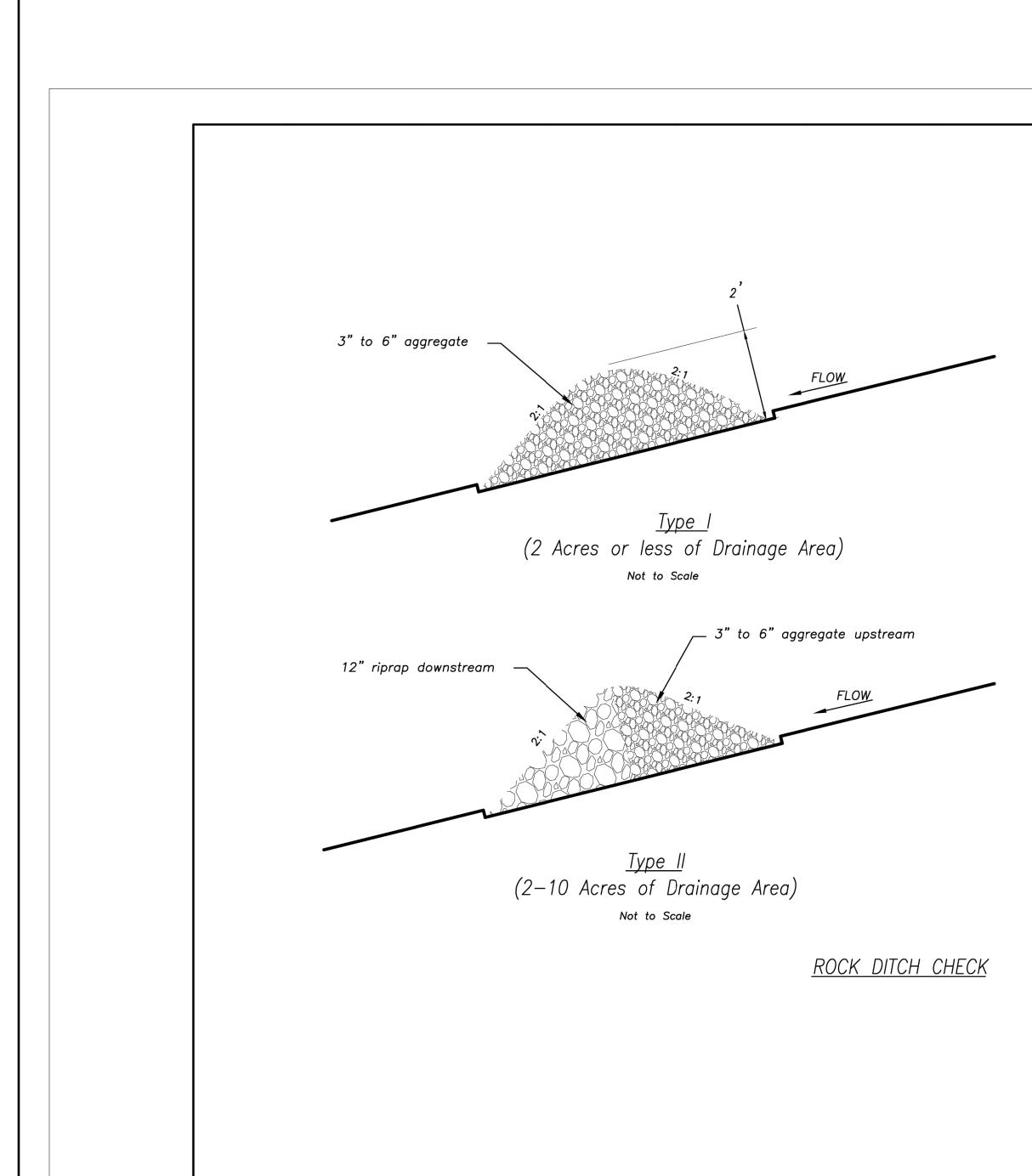
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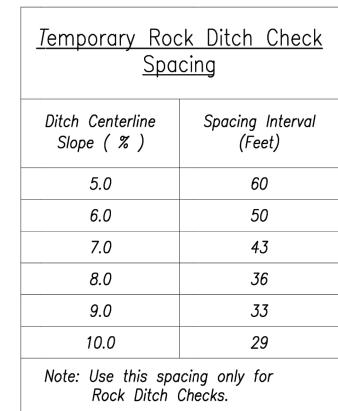
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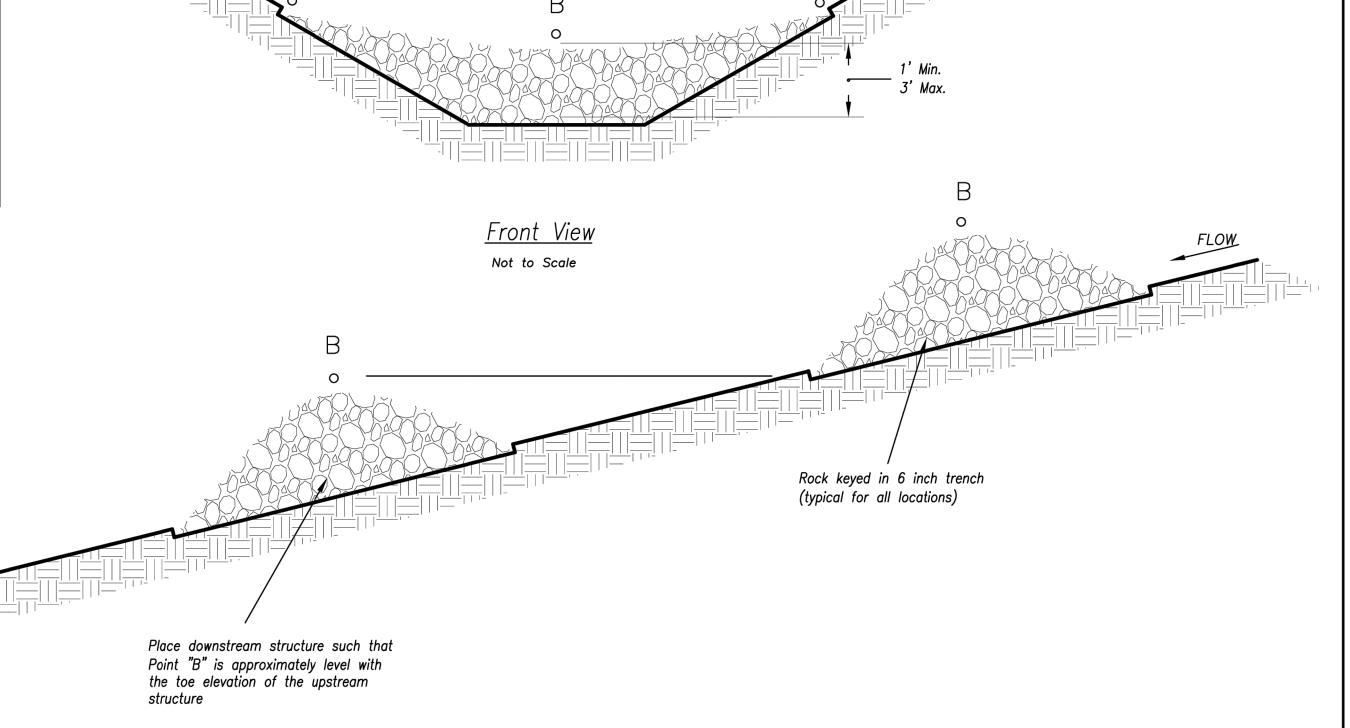
AREA INLET PROTECTION DETAILS

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**C511**54 OF 56







Elevation at end Points "A" must be minimum 6" higher than elevation of flow line at point "B"

Spacing Between Check Dams (all types)

Not to Scale

Modified from 2015 Overland Park Standard Details

for Erosion and Sediment Control.

### <u>Notes:</u>

- Rock check dams shall be used only for drainage areas less that 10 acres unless approved by the City Engineer.
- Use rock checks only in situations where the ditch slope exceeds 6%.

#### <u>Maintenance:</u>

- 1. Remove and dispose of sediment deposits when the deposit approaches ½ the height of the ditch check.
- Replace and reshape as necessary to maintain function and integrity of installation.

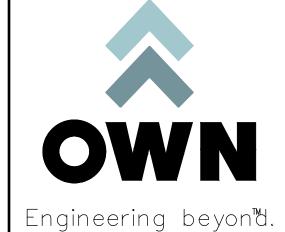
AMERICAN PUBLIC WORKS ASSOCIATION



KANSAS CITY METRO CHAPTER

ROCK DITCH CHECKS

STANDARD DRAWING
NUMBER ESC-IO
ADOPTED:
IO/24/20I6



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## DISCOVERY CROSSING AT DISCOVERY PARK

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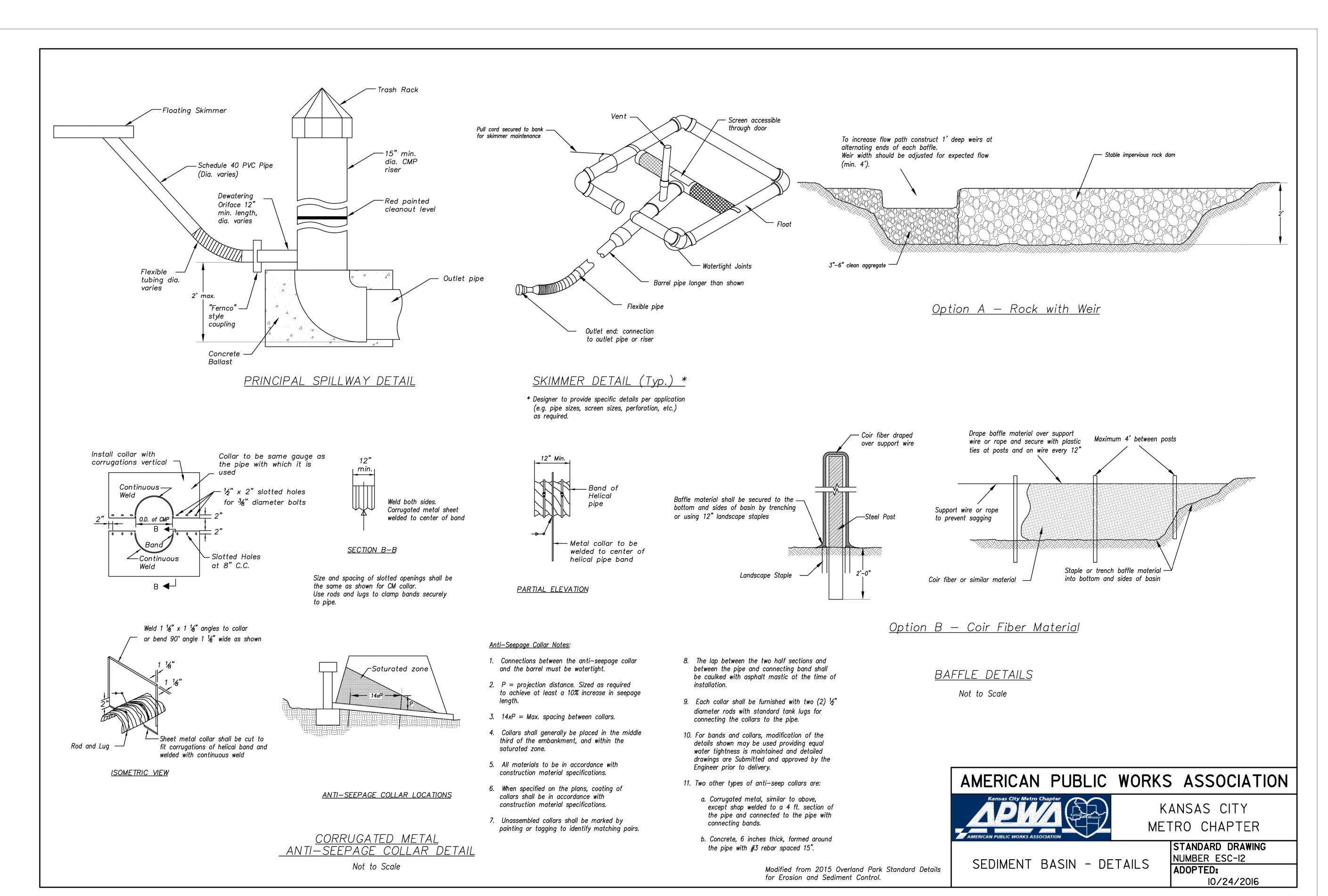
ROCK DITCH CHECK DETAILS

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DISCOVERY

CROSSING AT
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