

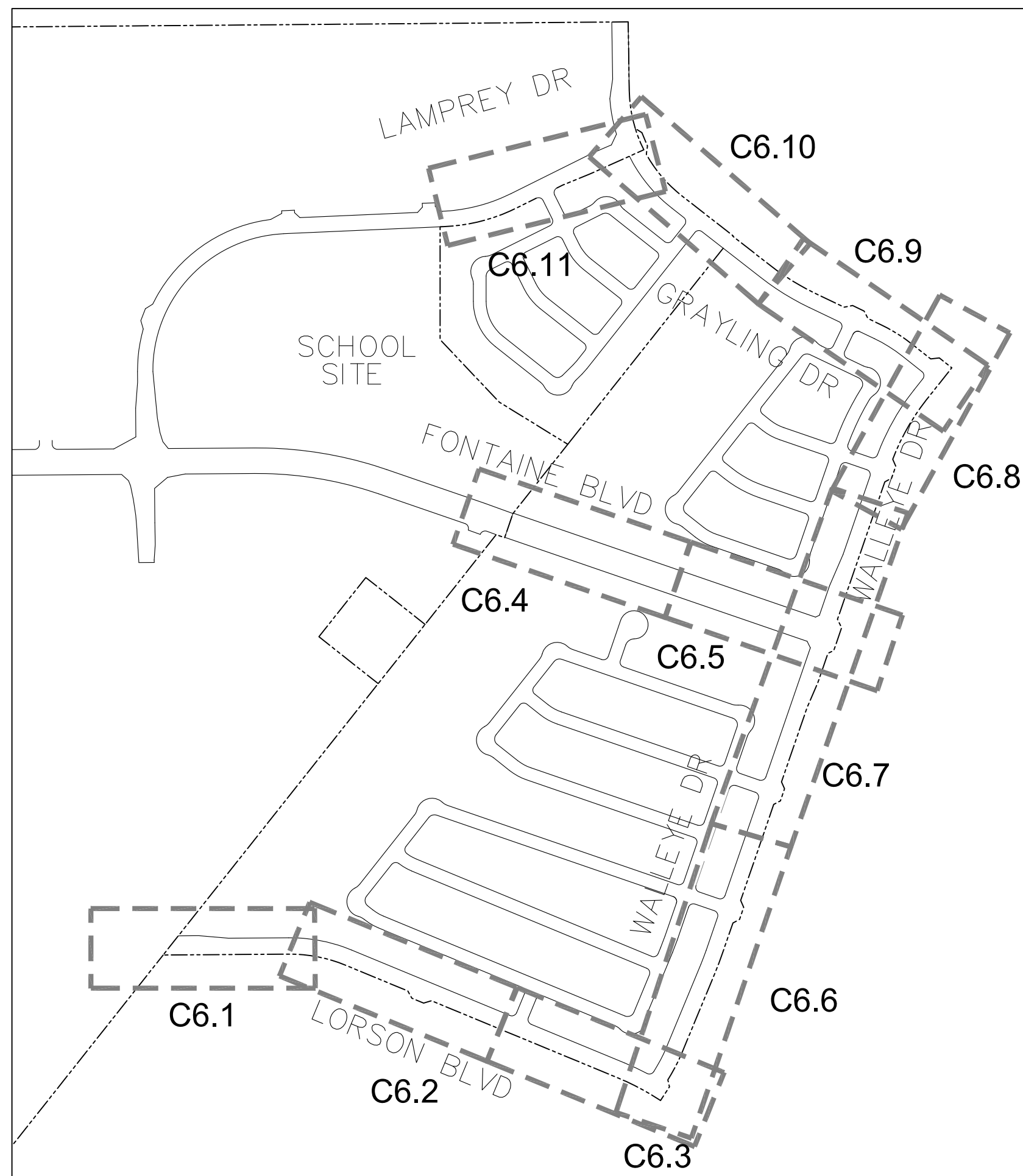
CONSTRUCTION PLANS  
FOR

# THE HILLS AT LORSON RANCH COLLECTOR STREETS STREET, STORM SEWER, WATERMAIN, SANITARY SEWER CONSTRUCTION PLANS

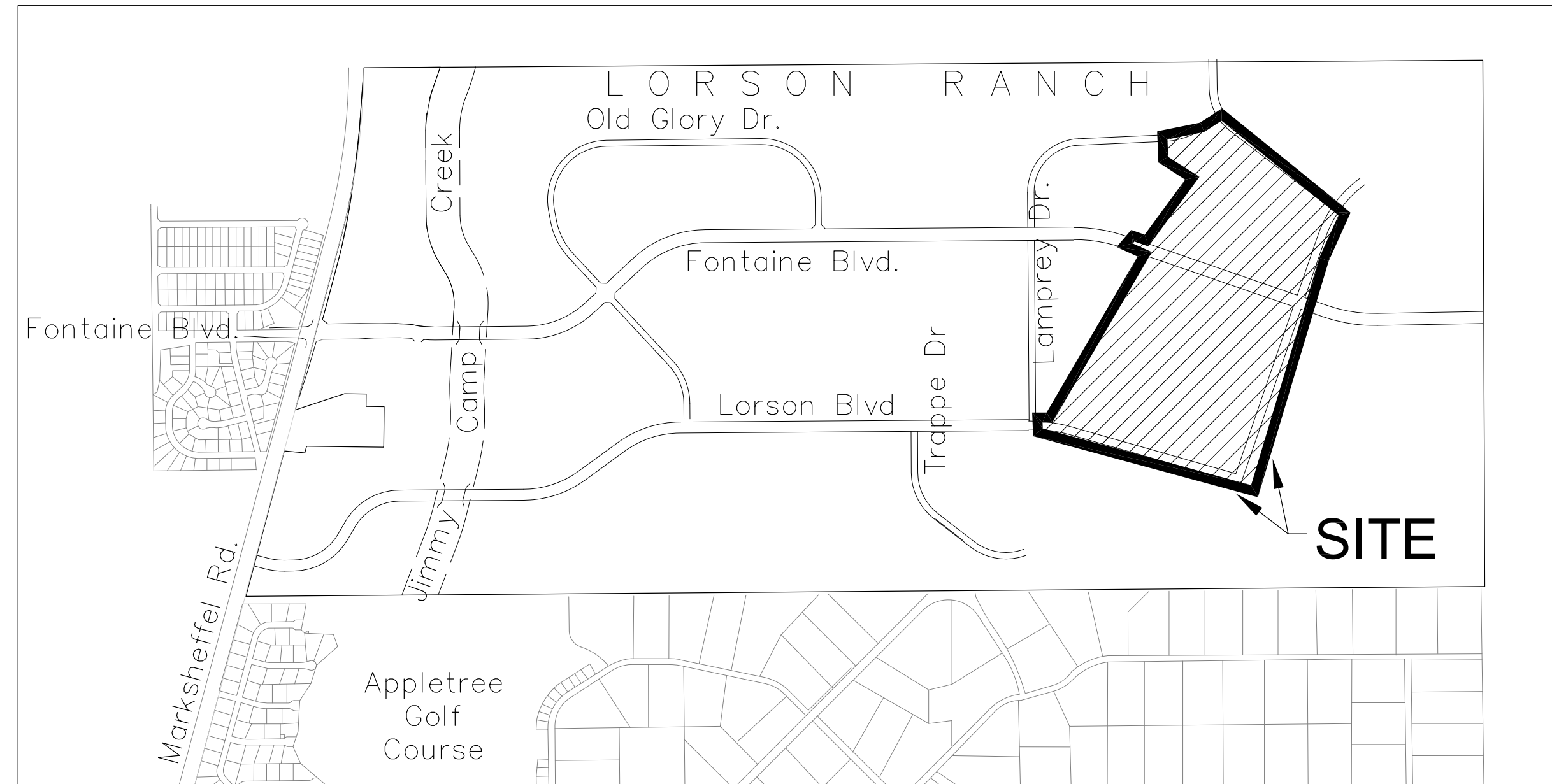


Know what's below.  
Call before you dig.

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



KEY MAP  
NO SCALE



VICINITY MAP  
NO SCALE

SHEET INDEX	
SHEET NO.	SHEET DESCRIPTION
C1.1	COVER SHEET
C1.2a	NOTES - STREET AND STORM
C1.2b	NOTES - WATERMAIN AND SANITARY SEWER
C1.3	TYPICAL SECTIONS
C2.1-C2.2	STREET HORIZONTAL CONTROL
C5.1-C5.5	SIGNING/STRIPING PLANS
C6.1-C6.11	STREET/STORM PLAN AND PROFILES
C7.1-C7.4	PLAN AND PROFILE - STORM LATERALS
C8.1-C8.12	WATERMAIN AND SANITARY PLAN AND PROFILES
C9.1-C9.11	DETENTION POND LOW FLOW AND OUTLET DETAILS
C9.12-C9.15	DETENTION POND OUTLET STRUCTURE DETAILS
C10.1-C10.3	DETAILS - STREET AND STORM
C12.1-C12.2	DETAILS - WATERMAIN AND SANITARY

**DEVELOPER'S STATEMENT**

THE UNDERSIGNED OWNER/DEVELOPER HAS READ AND WILL COMPLY WITH ALL THE REQUIREMENTS SPECIFIED IN THESE CONSTRUCTION PLANS AND THE ACCOMPANYING DRAINAGE REPORT.

BUSINESS NAME LORSON, LLC

BY \_\_\_\_\_ DATE \_\_\_\_\_

TITLE \_\_\_\_\_

ADDRESS 212 N. WAHSATCH AVE. SUITE 301  
COLORADO SPRINGS, CO 80903

PREPARED FOR:  
**LORSON, LLC**  
N. WAHSATCH AVE., SUITE 301  
COLORADO SPRINGS, CO 80903  
719-635-3200  
CONTACT: JEFF MARK

PREPARED BY:  
**CORE ENGINEERING GROUP**  
15004 1ST AVENUE S.  
BURNSVILLE, MN 55306  
719-570-1100  
CONTACT: RICHARD L. SCHINDLER P.E.

**WATER / SANITARY**  
WIDEFIELD WATER AND SANITATION DISTRICT  
8495 FONTAINE BLVD.  
COLORADO SPRINGS, CO 80925  
719-390-7111

**CABLE**  
COMCAST  
P.O. BOX 173838  
DENVER, CO 80217  
970-641-4774

**ELECTRIC**  
MOUNTAIN VIEW ELECTRIC  
11140 E. WOODMEN RD.  
COLORADO SPRINGS, CO 80831  
719-495-2283

**TELEPHONE**  
CENTURYLINK  
7925 INDUSTRY ROAD  
COLORADO SPRINGS, CO 80939  
719-278-4651

**GAS**  
BLACK HILLS ENERGY  
7060 ALLEGRE ST.  
FOUNTAIN, CO 80817  
719-393-6639

**EL PASO COUNTY**  
PLANNING AND COMMUNITY DEVELOPMENT  
2880 INTERNATIONAL CIRCLE  
COLORADO SPRINGS, CO 80910  
719-520-6300

**SECURITY FIRE PROTECTION DISTRICT**  
400 SECURITY BOULEVARD  
SECURITY, CO 80911  
719-392-7121

**BASIS OF BEARING**  
BEARINGS ARE BASED ON THE SOUTH LINE OF THE NORTH HALF OF SECTION 23, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH PRINCIPAL MERIDIAN AS BEING SOUTH 89°41'52" WEST; THE EAST QUARTER CORNER OF SAID SECTION 23 IS A FOUND 3-1/2" ALUMINUM CAP MONUMENT AND THE WEST QUARTER CORNER OF SAID SECTION 23 IS A FOUND 2-1/2" ALUMINUM CAP MONUMENT

**BENCHMARK**  
FIMS MONUMENT F204 LOCATED AT THE NORTHWEST CORNER OF FONTAINE BLVD AND COTTONWOOD GROVE DR.  
ELEVATION 5724.072 (N.G.V.D. 29)

**TRAFFIC CONTROL NOTE**  
THE CONTRACTOR SHALL PROVIDE ALL TRAFFIC CONTROL DEVICES AND MONITORING NECESSARY TO SAFELY COMPLETE THE WORK SHOWN IN THESE CONSTRUCTION DOCUMENTS IN CONFORMANCE WITH M.U.T.C.D. GUIDELINES. THE CONTRACTOR SHALL COMPLETE ALL NECESSARY WORK FOR PLAN REVIEW, PERMITS AND PROCESSING. TRAFFIC CONTROL WILL NOT BE PAID SEPARATELY BUT IS INCLUDED IN THE COST OF THE PROJECT.

**LEGEND**

- SUBDIVISION BOUNDARY
- EXISTING AND PROPOSED RIGHT OF WAY
- EXISTING AND PROPOSED LOT LINES
- EXISTING AND PROPOSED EASEMENTS
- STREET CENTERLINE
- PROPOSED CURB AND GUTTER
- EX-W --- EXISTING WATERMAIN
- W-8 --- PROPOSED WATERMAIN
- SS-8 --- EXISTING SANITARY SEWER
- SS-8 --- PROPOSED SANITARY SEWER
- SS-24 --- EXISTING 24" SANITARY SEWER
- G --- EXISTING GASMAIN
- E --- EXISTING UNDERGROUND ELECTRIC
- OHE --- EXISTING OVERHEAD ELECTRIC
- TV --- EXISTING CABLE TV
- T --- EXISTING PHONE OR FIBER OPTIC
- EXISTING STORM DRAIN
- PROPOSED STORM SEWER
- ⊙ --- EXISTING MANHOLES
- ⊙ --- PROPOSED SANITARY AND STORM MANHOLES
- ⊙ --- EXISTING AND PROPOSED WATERMAIN VALVES
- ⊙ --- EXISTING AND PROPOSED FIRE HYDRANT
- EXISTING UTILITY POLE
- PROPOSED STORM SEWER INLET

**DISTRICT APPROVAL (WATER)**

THE WIDEFIELD WATER AND SANITATION DISTRICT RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN. THE WIDEFIELD WATER AND SANITATION DISTRICT HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY.

WIDEFIELD WATER AND SANITATION DISTRICT  
WATER DESIGN APPROVAL

DATE \_\_\_\_\_ BY \_\_\_\_\_

PROJECT NO. \_\_\_\_\_

IN CASE OF ERRORS OR OMISSIONS WITH THE WATER DESIGN AS SHOWN ON THIS DOCUMENT THE STANDARDS AS DEFINED IN THE "RULES AND REGULATIONS FOR INSTALLATION OF WATER MAINS AND SERVICES" SHALL RULE.

APPROVAL EXPIRES 180 DAYS FROM DESIGN APPROVAL

**DISTRICT APPROVAL (WASTEWATER)**

THE WIDEFIELD WATER AND SANITATION DISTRICT RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN. THE WIDEFIELD WATER AND SANITATION DISTRICT HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY.

WIDEFIELD WATER AND SANITATION DISTRICT  
WATER DESIGN APPROVAL

DATE \_\_\_\_\_ BY \_\_\_\_\_

PROJECT NO. \_\_\_\_\_

IN CASE OF ERRORS OR OMISSIONS WITH THE WATER DESIGN AS SHOWN ON THIS DOCUMENT THE STANDARDS AS DEFINED IN THE "RULES AND REGULATIONS FOR INSTALLATION OF WATER MAINS AND SERVICES" SHALL RULE.

APPROVAL EXPIRES 180 DAYS FROM DESIGN APPROVAL

**CONSTRUCTION APPROVAL**

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUALS VOLUME 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS AMENDED. IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE TWO YEARS THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTOR'S DISCRETION

JENNIFER IRVINE, COUNTY ENGINEER/ECM ADMINISTRATOR DATE \_\_\_\_\_  
CONDITIONS:

**ENGINEER'S APPROVAL**

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

RICHARD L. SCHINDLER, P.E. # 33997  
FOR AND ON BEHALF OF CORE ENGINEERING GROUP

PUDSP-20-XX  
CDR 20-XX

**CORE ENGINEERING GROUP**  
15004 1ST AVENUE S.  
BURNSVILLE, MN 55306  
PH: 719-570-1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@ceg1.com

DATE: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_  
NO: \_\_\_\_\_  
PREPARED FOR: **LORSON, LLC**  
212 N. WAHSATCH AVE, SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
PROJECT: **THE HILLS COLLECTOR STREET CONSTRUCTION**  
FONTAINE BLVD - GRAYLING DR  
LORSON BLVD - WALLEYE DR - LAMPREY DR  
COLORADO SPRINGS, COLORADO  
CONTACT: JEFF MARK

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

THE HILLS AT LORSON RANCH  
COLLECTOR STREET  
CONSTRUCTION PLANS

DATE:  
JUNE 1, 2020

PROJECT NO.  
100.061  
SHEET NUMBER  
C0.1  
TOTAL SHEETS: 58

**CONSTRUCTION NOTES**

1. ALL WORK SHALL COMPLY WITH THE CODES AND POLICIES FOR EL PASO COUNTY.
2. EXISTING TOPOGRAPHIC INFORMATION SHOWN ON THIS GRADING PLAN WAS OBTAINED FROM DREXEL, BARRELL & CO., JULY, 2005. SUPPLEMENTAL SURVEY DATA WAS OBTAINED FOR MARKSHEFFEL ROAD FROM M&S CIVIL GROUP IN NOVEMBER, 2016. THE CONTRACTOR SHALL BE RESPONSIBLE TO EXAMINE THE SITE AND BE FAMILIAR WITH THE EXISTING CONDITIONS.
3. DEPTH OF MOISTURE-DENSITY CONTROL FOR THIS PROJECT SHALL BE AS FOLLOWS:  
BASE OF ALL CUTS AND FILLS - 12 INCHES,  
FULL DEPTH OF ALL EMBANKMENTS
4. THE CONTRACTOR IS RESPONSIBLE FOR THE RE-ESTABLISHMENT OF ALL SURVEY MONUMENTS DISTURBED WITHIN THE PROJECT LIMITS.
5. THE CONTRACTOR SHALL PROTECT ALL WORK AREAS AND FACILITIES FROM FLOODING AT ALL TIMES. AREAS AND FACILITIES SUBJECTED TO FLOODING, REGARDLESS OF THE SOURCE OF WATER, SHALL BE PROMPTLY DEWATERED AND RESTORED.
6. PRIOR TO PAVING OPERATIONS, THE ENTIRE SUBGRADE SHALL BE PROOF-ROLLED WITH A LOADED 988 FRONT-END LOADER OR SIMILAR HEAVY RUBBER Tired VEHICLE (GVW OF 50,000 POUNDS WITH 18 KIP PER AXLE AT TIRE PRESSURES OF 90 PSI) TO DETECT ANY SOFT OR LOOSE AREAS. IN AREAS WHERE SOFT OR LOOSE SOILS, PUMPING OR EXCESSIVE MOVEMENT IS OBSERVED, THE EXPOSED MATERIALS SHALL BE OVER-EXCAVATED TO A MINIMUM DEPTH OF TWO FEET BELOW PROPOSED FINAL GRADE OR TO A DEPTH AT WHICH SOILS ARE STABLE. AFTER THIS HAS BEEN COMPLETED, THE EXPOSED MATERIALS SHALL BE SCARIFIED TO A DEPTH OF 12 INCHES AND MOISTURE CONDITIONED. THE SUBGRADE SHALL THEN BE UNIFORMLY COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR DENSITY (ASTM D-698) AT 0 TO +4.0% OF OPTIMUM MOISTURE CONTENT FOR A-6 AND A-7-6 SOILS ENCOUNTERED. OTHER SUBGRADE TYPES SHALL BE UNIFORMLY COMPACTED TO A MINIMUM OF 95% OF MODIFIED PROCTOR DENSITY (ASTM D-1557) AT PLUS OR MINUS 2.0% OF OPTIMUM MOISTURE CONTENT. AREAS WHERE STABLE NATURAL SOILS ARE ENCOUNTERED AT PROPOSED SUBGRADE ELEVATION SHALL ALSO BE SCARIFIED (18 INCHES FOR A-7-6 SOILS BELOW FULL-DEPTH ASPHALT CONCRETE) AND COMPACTED AS OUTLINED ABOVE PRIOR TO PAVING OPERATIONS. SUBGRADE FILL SHALL BE PLACED IN SIX-INCH LIFTS AND UNIFORMLY COMPACTED, MEETING THE REQUIREMENTS AS PREVIOUSLY DESCRIBED.
7. SUBGRADE MATERIALS DEEMED UNSUITABLE BY THE ENGINEER SHALL BE EXCAVATED, DISPOSED OF AND REPLACED WITH APPROVED MATERIALS.
8. FILL SHALL BE PLACED IN 8-INCH MAXIMUM LOOSE LIFTS AND SHALL BE COMPACTED PRIOR TO SUCCESSIVE LIFTS.
9. THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING AND CONTROLLING EROSION DURING CONSTRUCTION ACTIVITIES AT ALL TIMES DURING GRADING AND CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE THE FOLLOWING EROSION AND SEDIMENT CONTROL MEASURES:
  - HAY BALE BARRIERS WHERE NEEDED AND/OR AS DIRECTED BY THE ENGINEER.
  - SILT FENCE WHERE NEEDED AND/OR AS DIRECTED BY THE ENGINEER.
  - TEMPORARY SEDIMENTATION BASINS WHERE NEEDED AND/OR AS DIRECTED BY THE ENGINEER.
  - MULCHING AND SEEDING OF EXCESSIVE SLOPED AREAS AS NEEDED OR AS DIRECTED BY THE ENGINEER.
  - TEMPORARY VEHICLE TRACKING CONTROL AS NEEDED AND/OR DIRECTED BY THE ENGINEER.
  - CONCRETE WASH AREAS.
  - INLET PROTECTION.
 THESE AND ALL EROSION CONTROL BEST MANAGEMENT PRACTICES AS SHOWN IN THE GRADING AND EROSION CONTROL PLANS SHALL BE STRICTLY ADHERED TO.
10. FINISHED CONTOURS/SPOT ELEVATIONS SHOWN HEREON REPRESENT FINISHED GRADES. ALL PAVEMENT SUBGRADES ARE BASED ON THE COMPOSITE ASPHALT PAVEMENT RECOMMENDATIONS MADE IN THE "GEOTECHNICAL STUDY" FOR LORSON RANCH.

**EL PASO COUNTY STANDARD CONSTRUCTION NOTES:**

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

**STORM SEWER NOTES:**

1. CONTRACTOR SHALL USE "TYLOX SUPER SEAL" OR APPROVED EQUIL JOINT GASKET FOR ALL RCP STORM SEWER JOINTS

**CORE ENGINEERING GROUP**  
 15004 1ST AVENUE S.  
 BURNSVILLE, MN 55306  
 PH: 719.570.1100  
 CONTACT: RICHARD L. SCHINDLER, P.E.  
 EMAIL: Rls@cegi.com

DATE: \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_  
 NO: \_\_\_\_\_  
 PREPARED FOR: LORSON, LLC  
 212 N. WASHATCH AVE., SUITE 301  
 COLORADO SPRINGS, COLORADO 80903  
 PROJECT: THE HILLS COLLECTOR STREET CONSTRUCTION  
 FONTAINE BLVD GRAYLING DR. LORSON RANCH, LOT 101 DR LORSON, COLORADO SPRINGS, COLORADO  
 CONTACT: JEFF MARK

DRAWN: RLS  
 DESIGNED: RLS  
 CHECKED: RLS

**THE HILLS AT LORSON RANCH  
 STREET / STORM SEWER  
 NOTES**

DATE: JUNE 1, 2020  
 PROJECT NO. 100.061  
 SHEET NUMBER C1.2a  
 TOTAL SHEETS: 58

**CONSTRUCTION NOTES**

- ALL WORK SHALL COMPLY WITH THE CODES AND POLICIES FOR EL PASO COUNTY.
- EXISTING TOPOGRAPHIC INFORMATION SHOWN ON THIS GRADING PLAN WAS OBTAINED FROM DREXEL, BARRELL & CO., JULY, 2005. SUPPLEMENTAL SURVEY DATA WAS OBTAINED FOR MARKSHEFFEL ROAD FROM M&S CIVIL GROUP IN NOVEMBER, 2016. THE CONTRACTOR SHALL BE RESPONSIBLE TO EXAMINE THE SITE AND BE FAMILIAR WITH THE EXISTING CONDITIONS.
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  - CONCRETE WASH AREAS.
  - INLET PROTECTION.
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duplicated

**WIDEFIELD WATER AND SANITATION DISTRICT GENERAL NOTES**

- ALL UTILITY CONSTRUCTION TO BE CONDUCTED IN CONFORMANCE WITH THE CURRENT WIDEFIELD WATER AND SANITATION DISTRICT SPECIFICATIONS. COMPACTION REQUIREMENTS SHALL BE 95% STANDARD PROCTOR AS DETERMINED BY ASTM D698, UNLESS OTHERWISE APPROVED BY THE WIDEFIELD WATER AND SANITATION DISTRICT OR A HIGHER STANDARD IS IMPOSED BY ANOTHER AGENCY HAVING RIGHT-OF-WAY JURISDICTION.
- ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE WIDEFIELD WATER AND SANITATION DISTRICT. THE WIDEFIELD WATER AND SANITATION DISTRICT RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO ITS STANDARDS AND SPECIFICATIONS.
- THE DEVELOPER OR HIS ENGINEER HAS LOCATED ALL FIRE HYDRANTS AND FUTURE SERVICE STUBS. ANY REQUIRED REALIGNMENT, EITHER HORIZONTAL OR VERTICAL, SHALL BE AT THE EXPENSE OF THE DEVELOPER.
- ALL DUCTILE IRON PIPE, TO INCLUDE FITTINGS, VALVES AND FIRE HYDRANTS WILL BE WRAPPED WITH POLYETHYLENE TUBING, BONDED AT EACH JOINT AND ELECTRICALLY ISOLATED.
- ALL DUCTILE IRON PIPE SHALL BE DOUBLE BONDED. DIP SHALL HAVE CATHODIC PROTECTION USING NO. 6 WIRE WITH 17 LB. MAGNESIUM ANODES EVERY 400 FEET.
- PVC MAIN LINES SHALL BE INSTALLED WITH COATED NO. 12 TRACER WIRE.
- ALL FITTINGS SHALL BE DUCTILE IRON -MECHANICAL JOINT AND HAVE 9 LB. MAGNESIUM ANODES AT EVERY FITTING.
- THE CONTRACTOR IS REQUIRED TO NOTIFY THE WIDEFIELD WATER AND SANITATION DISTRICT (390-7111) A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL ALSO NOTIFY AFFECTED UTILITY COMPANIES 48 HOURS PRIOR TO CONSTRUCTION ADJACENT TO THE KNOWN UTILITY LINES.
- THE LOCATION OF ALL UTILITIES AS SHOWN ON THESE DRAWINGS ARE APPROXIMATE ONLY. THE LOCATION OF ALL UTILITIES SHALL BE VERIFIED PRIOR TO CONSTRUCTION BY THE CONTRACTOR.
- THE CONTRACTOR SHALL FIELD EXCAVATE AND VERIFY THE VERTICAL AND HORIZONTAL LOCATION OF ALL TIE-INS. CONTRACTOR SHALL NOTIFY THE WIDEFIELD WATER AND SANITATION DISTRICT AND THE ENGINEER OF THE FIELD VERIFIED INFORMATION PRIOR TO CONSTRUCTION.
- ALL BENDS SHALL BE FIELD STAKED PRIOR TO CONSTRUCTION.
- ANY WATER UTILITY MATERIAL REMOVED AND NOT REUSED SHALL BE RETURNED TO THE WIDEFIELD WATER AND SANITATION DISTRICT IF THE DISTRICT SO REQUESTS.
- THE CONTRACTOR SHALL AT HIS EXPENSE SUPPORT AND PROTECT ALL UTILITY MAINS SO THAT THEY WILL FUNCTION CONTINUOUSLY DURING CONSTRUCTION. SHOULD A UTILITY MAIN FAIL AS A RESULT OF THE CONTRACTOR'S OPERATION, IT WILL BE REPLACED IMMEDIATELY BY EITHER THE CONTRACTOR OR THE WIDEFIELD WATER AND SANITATION DISTRICT AT FULL COST OF LABOR AND MATERIALS TO THE CONTRACTOR.
- ANY PUMPING OR BYPASS OPERATIONS MUST BE REVIEWED AND APPROVED PRIOR TO EXECUTION BY BOTH THE WIDEFIELD WATER AND SANITATION DISTRICT AND THE ENGINEER.
- DISINFECTION SHALL BE ACCOMPLISHED BY GLUING TABLETS TO THE TOP OF THE LINE. POWDER OR GRANULER HTH SHALL NOT BE USED. SEE WIDEFIELD SPECS FOR FURTHER DEFINITION OF DISINFECTION TECHNIQUES.
- CONTRACTOR MUST REPLACE OR REPAIR ANY DAMAGE TO ALL SURFACE IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO FENCES, CURB AND GUTTER AND/OR ASPHALT THAT MAY BE CAUSED DURING CONSTRUCTION.
- ALL WATER LINES 6" AND LARGER, AND ALL SEWER LINES 8" AND LARGER, SHALL HAVE AS "AS-BUILT" PLANS PREPARED AND APPROVED PRIOR TO FINAL ACCEPTANCE BY THE WIDEFIELD WATER AND SANITATION DISTRICT.
- PRIOR TO CONSTRUCTION, A PRE-CONSTRUCTION CONFERENCE IS REQUIRED A MINIMUM OF 72 HOURS IN ADVANCE OF COMMENCEMENT OF WORK. TO SET THE PRE-CONSTRUCTION CONFERENCE, CONTACT BRANDON BERNARD-WATER DEPARTMENT MANAGER AND/OR JASON DREESEN, WASTEWATER DEPARTMENT MANAGER OF THE WIDEFIELD WATER AND SANITATION DISTRICT AT 719-955-0548 FOR A TIME. NO PRE-CONSTRUCTION CONFERENCE TIMES WILL BE SET UNTIL 4 SETS OF SIGNED DRAWINGS ARE RECEIVED BY THE WIDEFIELD W & S DISTRICT. PRE-CONSTRUCTION DATE /INITIALS

**WIDEFIELD WATER AND SANITATION DISTRICT UTILITY CONSTRUCTION NOTES**

- ALL DUCTILE IRON PIPE AND FITTINGS SHALL HAVE CATHODIC PROTECTION AND 9 LB MAGNESIUM ANODES AT EVERY FITTING.
- ALL FIRE HYDRANTS SHALL BE GUARDIAN K-81D HYDRANT KENNEDY VALVE OR AMERICAN AVK SERIES 2700, (MODERN)

**UNDERDRAIN CONSTRUCTION NOTES**

- SUMP PUMP DISCHARGES FROM HOUSES MUST DISCHARGE TO UNDERGROUND UNDERDRAIN LATERALS, OPEN SPACE, PONDS, OR SWALES AND ARE NOT ALLOWED TO FLOW OVER PUBLIC SIDEWALK OR CURB/GUTTER.
- ALL PVC UNDERDRAIN MAINS SHALL BE 4" PVC, SDR 35.
- UNDERDRAIN LATERALS SHALL BE 3" PVC, SDR 35
- UNDERDRAIN CLEANOUT BOXES ON THE MAINS SHALL BE A CAST IRON TWO PIECE HEAVY DUTY VALVE BOX MANUFACTURED BY STAR PIPE PRODUCTS OR APPROVED EQUAL. THE TOP PIECE SHALL BE 16" TALL AND THE BOTTOM PIECE SHALL BE 36" TALL.
- PVC MAIN LINES SHALL BE INSTALLED WITH COATED NO. 12 TRACER WIRE.
- ALL FITTINGS SHALL BE DUCTILE IRON -MECHANICAL JOINT AND HAVE 1 LB. MAGNESIUM ANODES AT EVERY FITTING.
- THE LOCATION OF ALL UTILITIES AS SHOWN ON THESE DRAWINGS ARE APPROXIMATE ONLY. THE LOCATION OF ALL UTILITIES SHALL BE VERIFIED PRIOR TO CONSTRUCTION BY THE CONTRACTOR.
- THE CONTRACTOR SHALL FIELD EXCAVATE AND VERIFY THE VERTICAL AND HORIZONTAL LOCATION OF ALL TIE-INS. CONTRACTOR SHALL NOTIFY THE ENGINEER OF THE FIELD VERIFIED INFORMATION PRIOR TO CONSTRUCTION.
- ALL BENDS SHALL BE FIELD STAKED PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL AT HIS EXPENSE SUPPORT AND PROTECT ALL UTILITY MAINS SO THAT THEY WILL FUNCTION CONTINUOUSLY DURING CONSTRUCTION. SHOULD A UTILITY MAIN FAIL AS A RESULT OF THE CONTRACTOR'S OPERATION, IT WILL BE REPLACED IMMEDIATELY BY THE CONTRACTOR AT FULL COST OF LABOR AND MATERIALS TO THE CONTRACTOR.

**CORE**  
**ENGINEERING GROUP**  
15004 1ST AVENUE S.  
BURNSVILLE, MN 55306  
PH: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rlen@cegi.com

NO.	DESCRIPTION	DATE

PREPARED FOR:  
**LORSON, LLC**  
212 N. WASHATCH AVE., SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
CONTACT: JEFF MARK

PROJECT:  
**THE HILLS COLLECTOR STREET CONSTRUCTION**  
FONTAINE BLVD GRAYLING DR. INTERSECTION  
LORSON RANCH, COLORADO SPRINGS, COLORADO

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

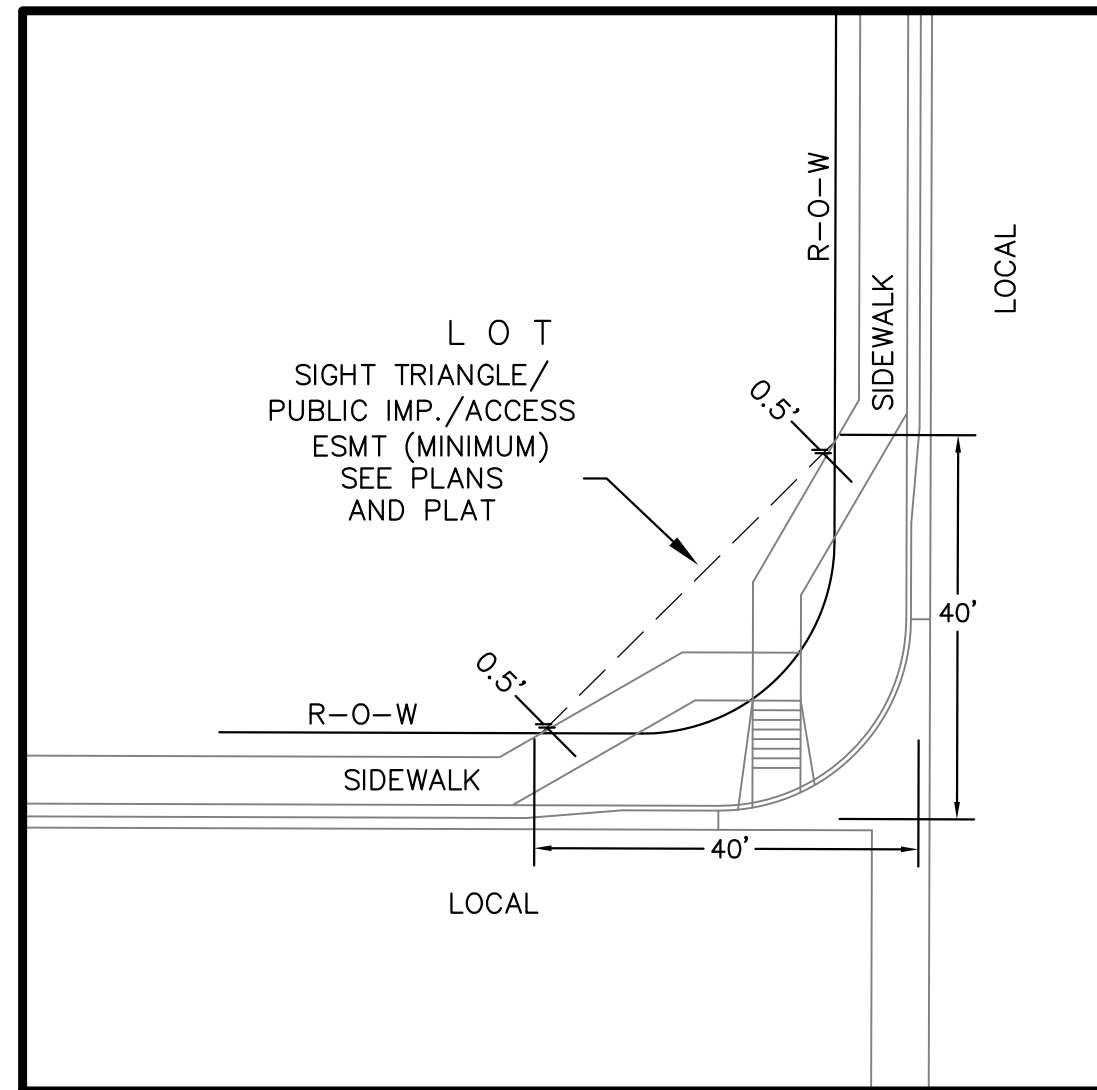
**THE HILLS AT LORSON RANCH**  
**SANITARY SEWER/WATERMAIN**  
**NOTES**

DATE:  
JUNE 1, 2020

PROJECT NO.  
100.061

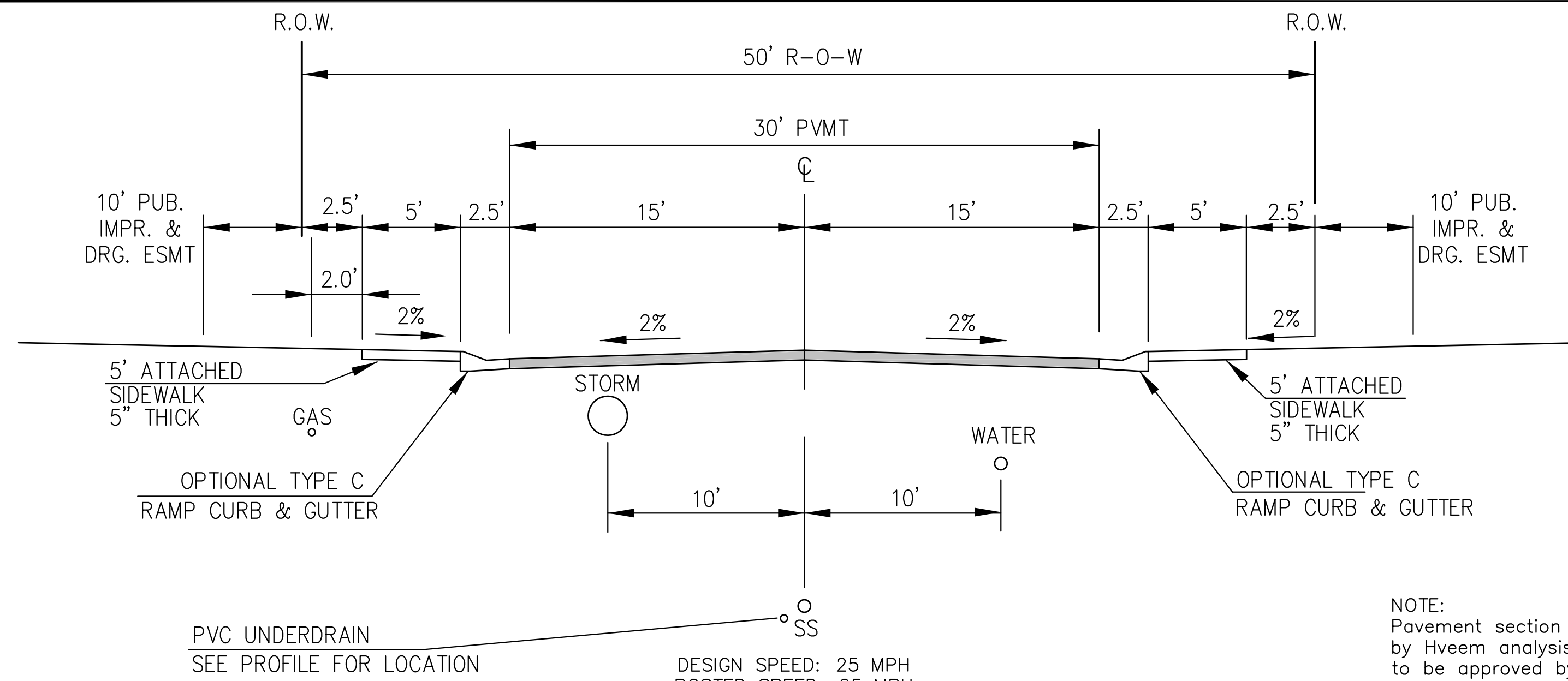
SHEET NUMBER  
C1.2b

TOTAL SHEETS: 58



**LOCAL ROADWAY SIGHT TRIANGLE  
PUBLIC IMPROVEMENT ESMT.**  
NOT TO SCALE

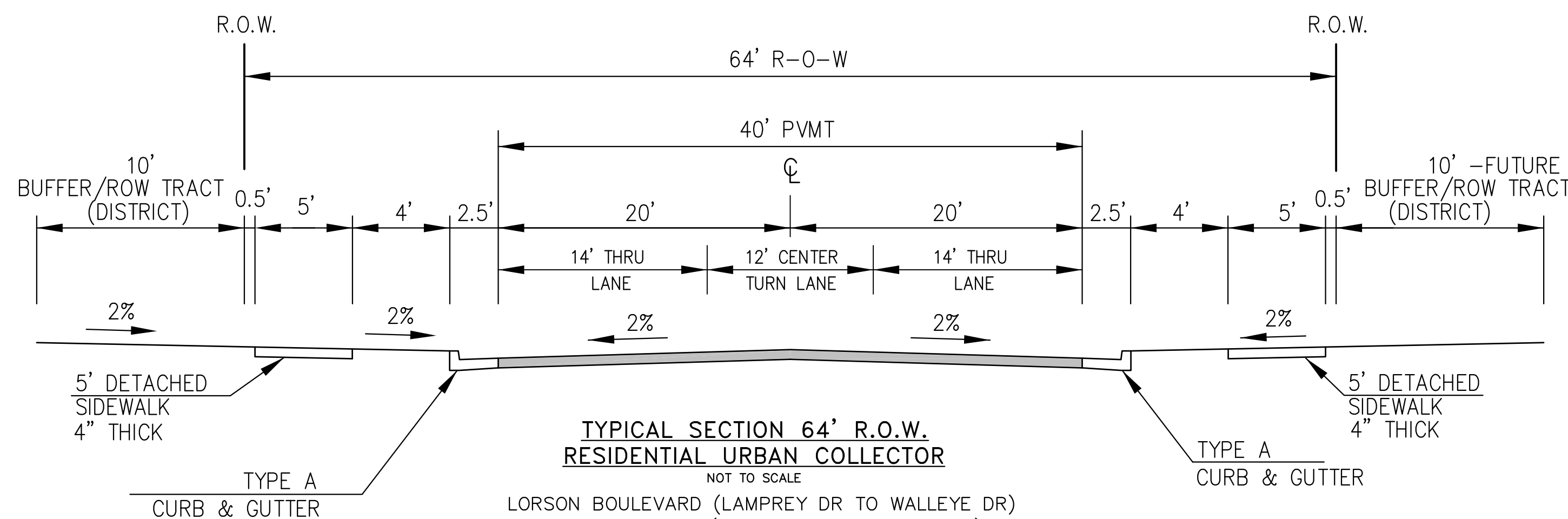
NOTE:  
ADDITIONAL PUBLIC IMPROVEMENT EASEMENTS ARE REQUIRED WHERE  
SIDEWALK ENCLOSES INTO THE PRIVATE LOTS. SEE CONSTRUCTION DRAWINGS  
AND THE FINAL PLAT. SEE CONSTRUCTION DRAWINGS AND PLAT FOR SIGHT TRIANGLES



**TYPICAL SECTION 50' R.O.W.  
RESIDENTIAL URBAN LOCAL**  
NOT TO SCALE

BROOKTROUT TR, SPLAKE ST, LAKE TROUT DR,  
SANDERLING ST, SCRUB JAY TR, YELLOWTHROAT TER, MURRELET DR

NOTE:  
Pavement section to be determined  
by Hveem analysis and design. Design  
to be approved by El Paso County PCD Engineering

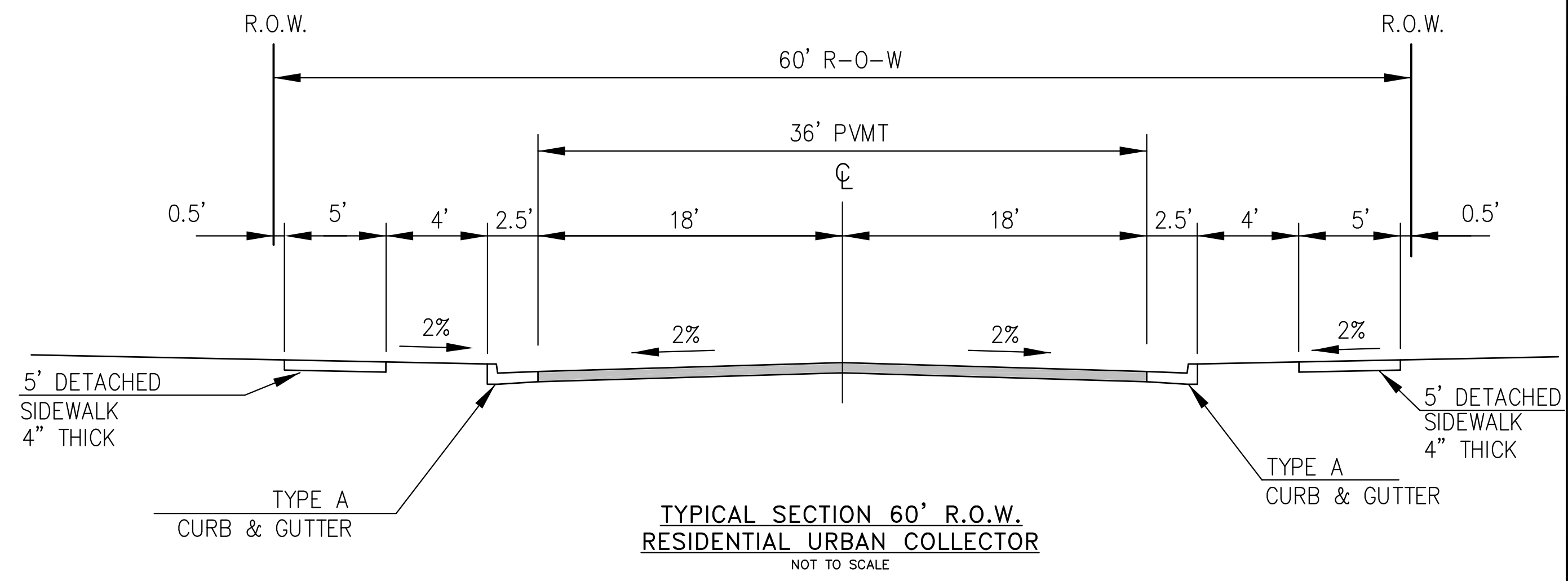


**TYPICAL SECTION 64' R.O.W.  
RESIDENTIAL URBAN COLLECTOR**  
NOT TO SCALE

LORSON BOULEVARD (LAMPREY DR TO WALLEYE DR)  
WALLEYE DRIVE (SOUTH OF FONTAINE BLVD)

DESIGN SPEED: 40 MPH  
POSTED SPEED: 35 MPH

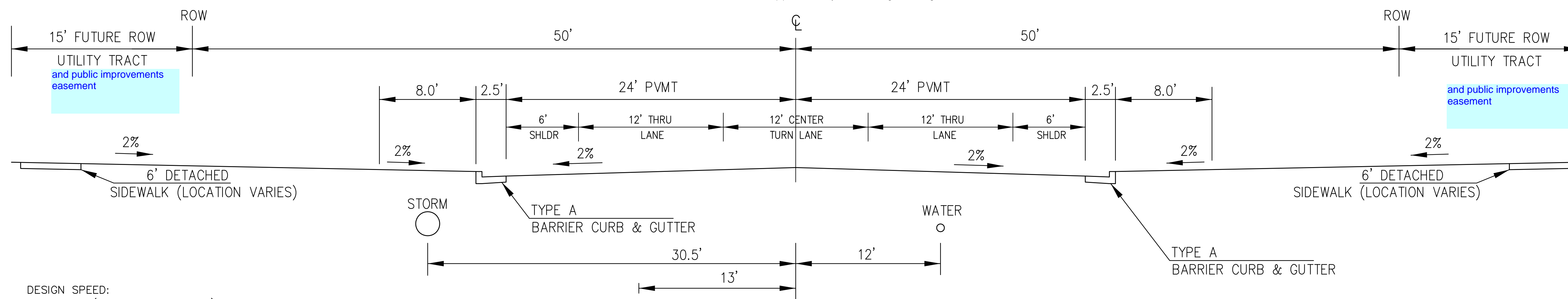
NOTE:  
Pavement section to be determined  
by Hveem analysis and design. Design  
to be approved by PCD Engineering



**TYPICAL SECTION 60' R.O.W.  
RESIDENTIAL URBAN COLLECTOR**  
NOT TO SCALE

WALLEYE DRIVE (NORTH OF FONTAINE)  
GRAYLING DRIVE  
LAMPREY DRIVE

DESIGN SPEED: 40 MPH  
POSTED SPEED: 35 MPH



**TYPICAL SECTION 100' R.O.W.  
FONTAINE BLVD**  
NOT TO SCALE

DESIGN SPEED:  
1. 50MPH (PRINCIPAL ARTERIAL)  
2. 40MPH FOR TAPERS (WESTBOUND) (NON-RES COLLECTOR)

NOTE:  
Pavement section to be determined  
by Hveem analysis and design. Design  
to be approved by El Paso County PCD and Engineering

**CORE  
ENGINEERING GROUP**  
15004 1ST AVENUE S.  
BURNSVILLE, MN 55306  
PH: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@cegi.com

DATE: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_  
NO. \_\_\_\_\_

PREPARED FOR:  
**LORSON, LLC**  
212 N. WASHBACH AVE., SUITE 301  
COLORADO SPRINGS, CO 80903  
CONTACT: JEFF MARK

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

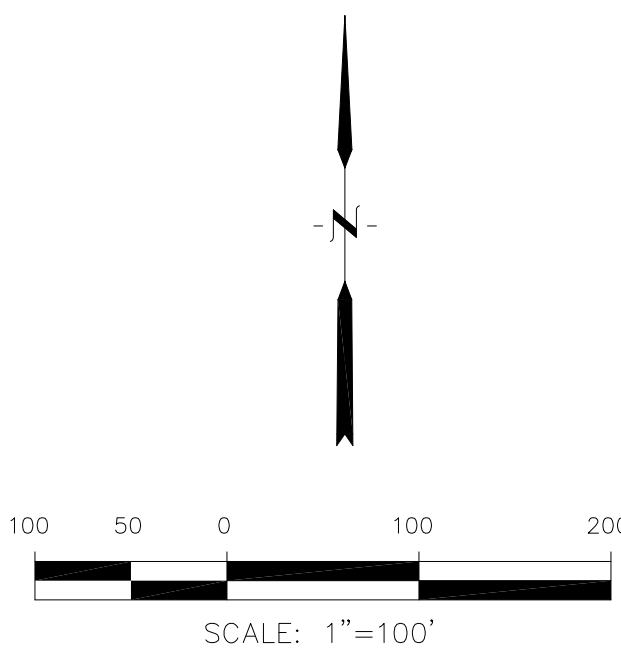
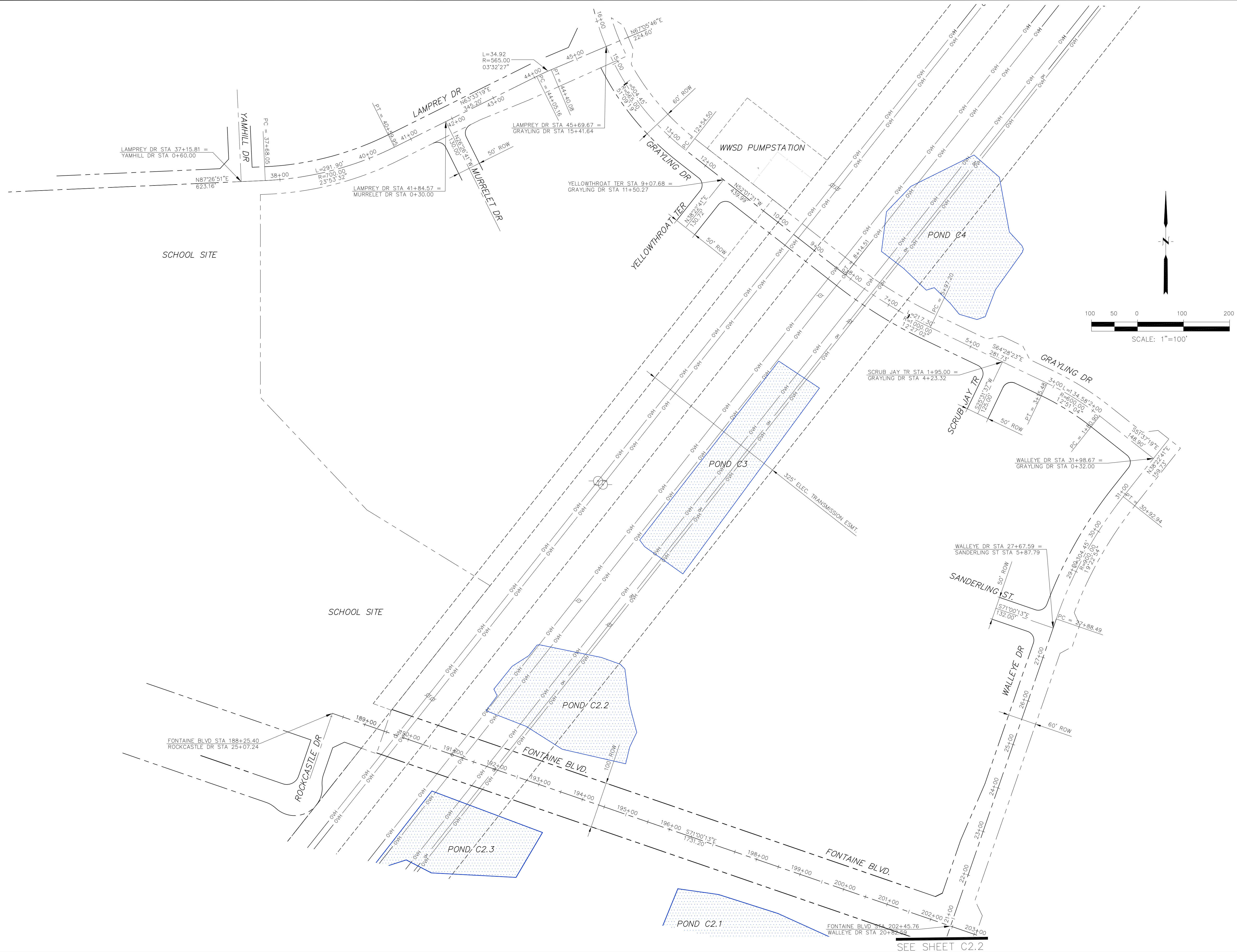
PROJECT NO.  
**100.061**  
SHEET NUMBER  
**C1.3**  
TOTAL SHEETS: 58

DATE:  
JUNE 1, 2020

DATE:  
JUNE 1, 2020

DATE:  
JUNE 1, 2020

TYPICAL SECTIONS



**CORE**  
**ENGINEERING GROUP**  
 15004 1ST AVENUE S.  
 FLORENCE, CO 81226  
 PH: 719.570.1100  
 CONTACT: RICHARD L. SCHINDLER, P.E.  
 EMAIL: Rich@cegi.com

DATE: \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_  
 NO: \_\_\_\_\_

PREPARED FOR:  
**LORSON, LLC**  
 212 N. WAHSATCH AVE, SUITE 301  
 COLORADO SPRINGS, COLORADO 80903  
 CONTACT: JEFF MARK

PROJECT:  
**THE HILLS COLLECTOR STREET CONSTRUCTION**  
 FONTAINE BLVD - GRAYLING DR  
 LORSON BLVD - WALLEYE DR - LAMPREY DR  
 COLORADO SPRINGS, COLORADO

DRAWN: RLS  
 DESIGNED: RLS  
 CHECKED: RLS

**HORIZONTAL CONTROL PLAN**

DATE:  
 JUNE 1, 2020

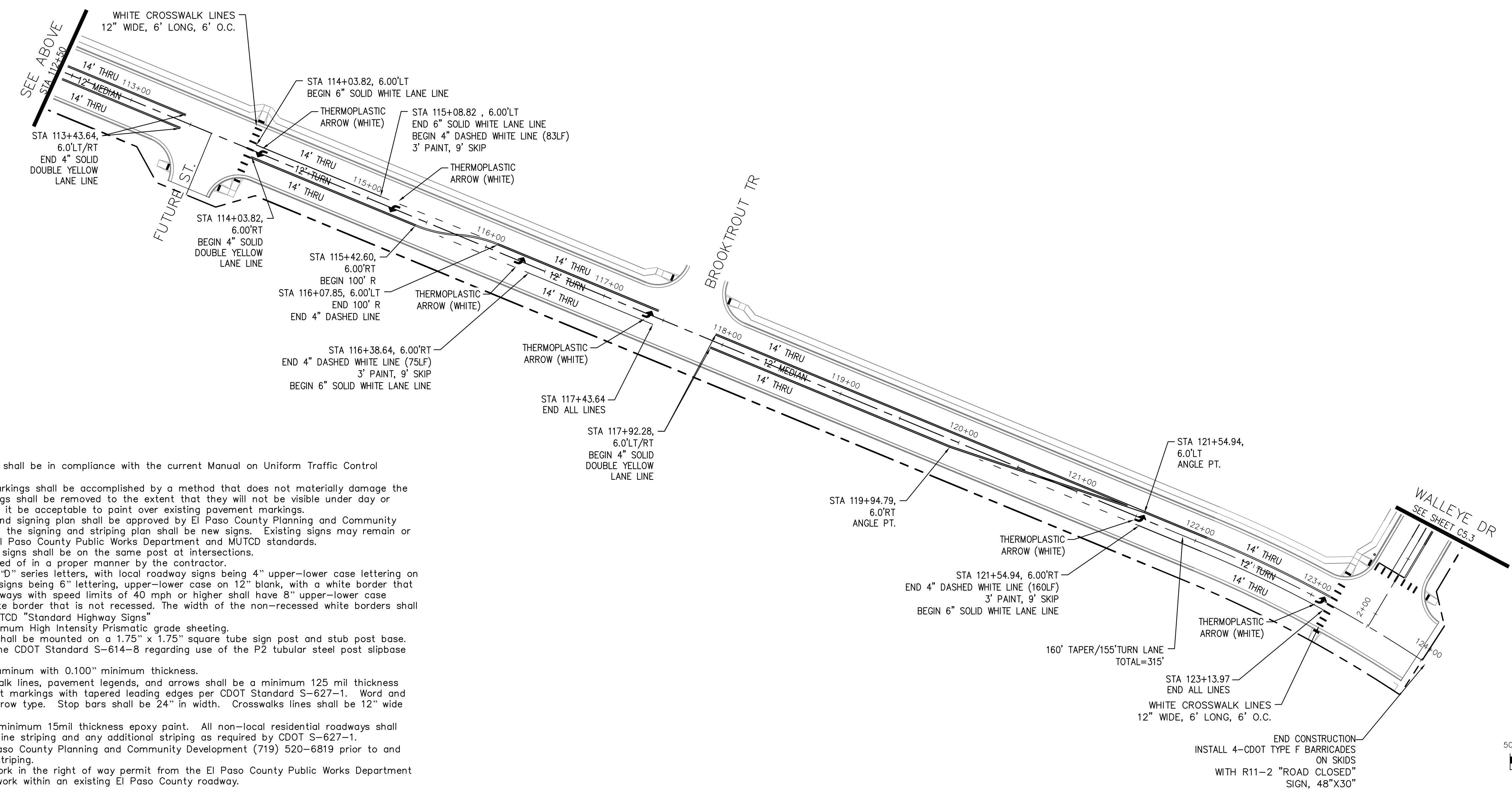
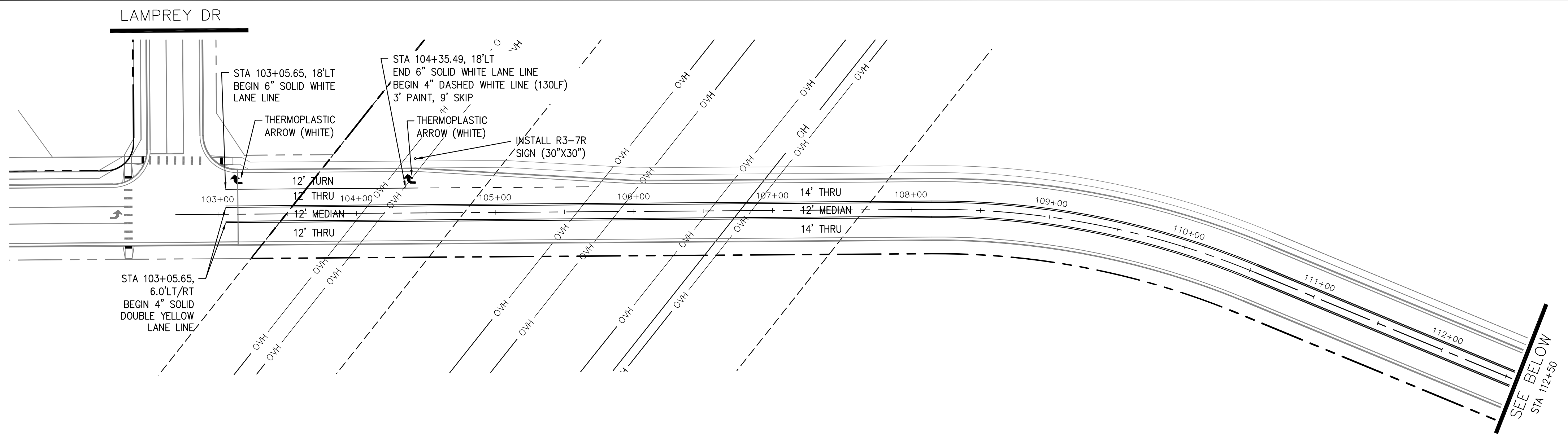
PROJECT NO.  
 100.061

SHEET NUMBER  
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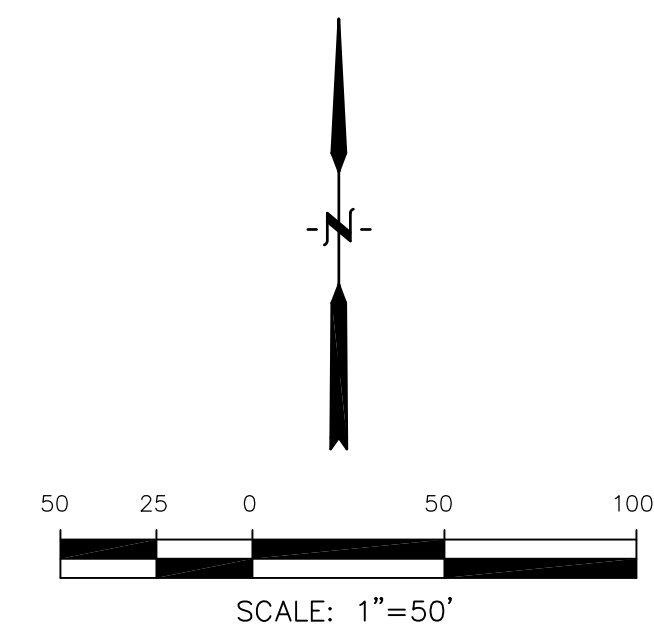
TOTAL SHEETS: 58

SEE SHEET C2.2





- Signing and Striping Notes:**
- All signs and pavement markings shall be in compliance with the current Manual on Uniform Traffic Control Devices (MUTCD).
  - Removal of existing pavement markings shall be accomplished by a method that does not materially damage the pavement. The pavement markings shall be removed to the extent that they will not be visible under day or night conditions. At no time will it be acceptable to paint over existing pavement markings.
  - Any deviation from the striping and signing plan shall be approved by El Paso County Planning and Community Development. All signs shown on the signing and striping plan shall be new signs. Existing signs may remain or be reused if they meet current El Paso County Public Works Department and MUTCD standards.
  - Street name and regulatory stop signs shall be on the same post at intersections.
  - All removed signs shall be disposed of in a proper manner by the contractor.
  - All street name signs shall have "D" series letters, with local roadway signs being 4" upper-lower case lettering on 8" blank and non-local roadway signs being 6" lettering, upper-lower case on 12" blank, with a white border that is not recessed. Multi-lane roadways with speed limits of 40 mph or higher shall have 8" upper-lower case lettering on 18" blank with a white border that is not recessed. The width of the non-recessed white borders shall match page 255 of the 2012 MUTCD "Standard Highway Signs".
  - All traffic signs shall have a minimum High Intensity Prismatic grade sheeting.
  - All local residential street signs shall be mounted on a 1.75" x 1.75" square tube sign post and stub post base. For other applications, refer to the CDOT Standard S-614-8 regarding use of the P2 tubular steel post slipbase design.
  - All signs shall be single sheet aluminum with 0.100" minimum thickness.
  - All limit lines/stop lines, crosswalk lines, pavement legends, and arrows shall be a minimum 125 mil thickness preformed thermoplastic pavement markings with tapered leading edges per CDOT Standard S-627-1. Word and symbol markings shall be the narrow type. Stop bars shall be 24" in width. Crosswalks lines shall be 12" wide and 8' long per CDOT S-627-1.
  - All longitudinal lines shall be a minimum 15mil thickness epoxy paint. All non-local residential roadways shall include both right and left edge line striping and any additional striping as required by CDOT S-627-1.
  - The contractor shall notify El Paso County Planning and Community Development (719) 520-6819 prior to and upon completion of signing and striping.
  - The contractor shall obtain a work in the right of way permit from the El Paso County Public Works Department prior to any signage or striping work within an existing El Paso County roadway.



**CORE**  
**ENGINEERING GROUP**  
 15004 1ST AVENUE S.  
 BLDG 79 S701100  
 COLORADO SPRINGS, COLORADO 80903  
 CONTACT: RICHARD L. SCHINDLER, P.E.  
 EMAIL: Rich@cegi.com

DATE: \_\_\_\_\_  
 NO. \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_  
 PREPARED FOR:  
**LORSON, LLC**  
 212 N. WAHSATCH AVE., SUITE 301  
 COLORADO SPRINGS, COLORADO 80903  
 PROJECT:  
**THE HILLS COLLECTOR**  
**STREET CONSTRUCTION**  
 FONTAINE BLVD - GRAYLING DR  
 LORSON BLVD - WALLEYE DR - LAMPREY DR  
 COLORADO SPRINGS, COLORADO  
 CONTACT: JEFF MARK

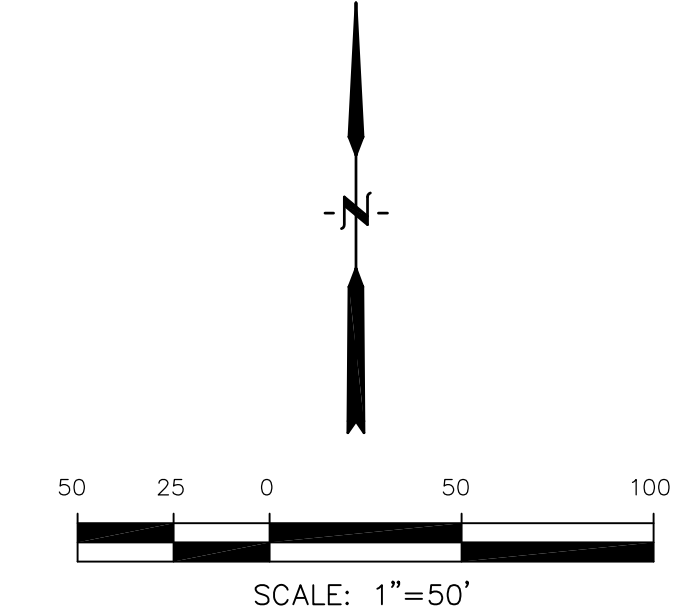
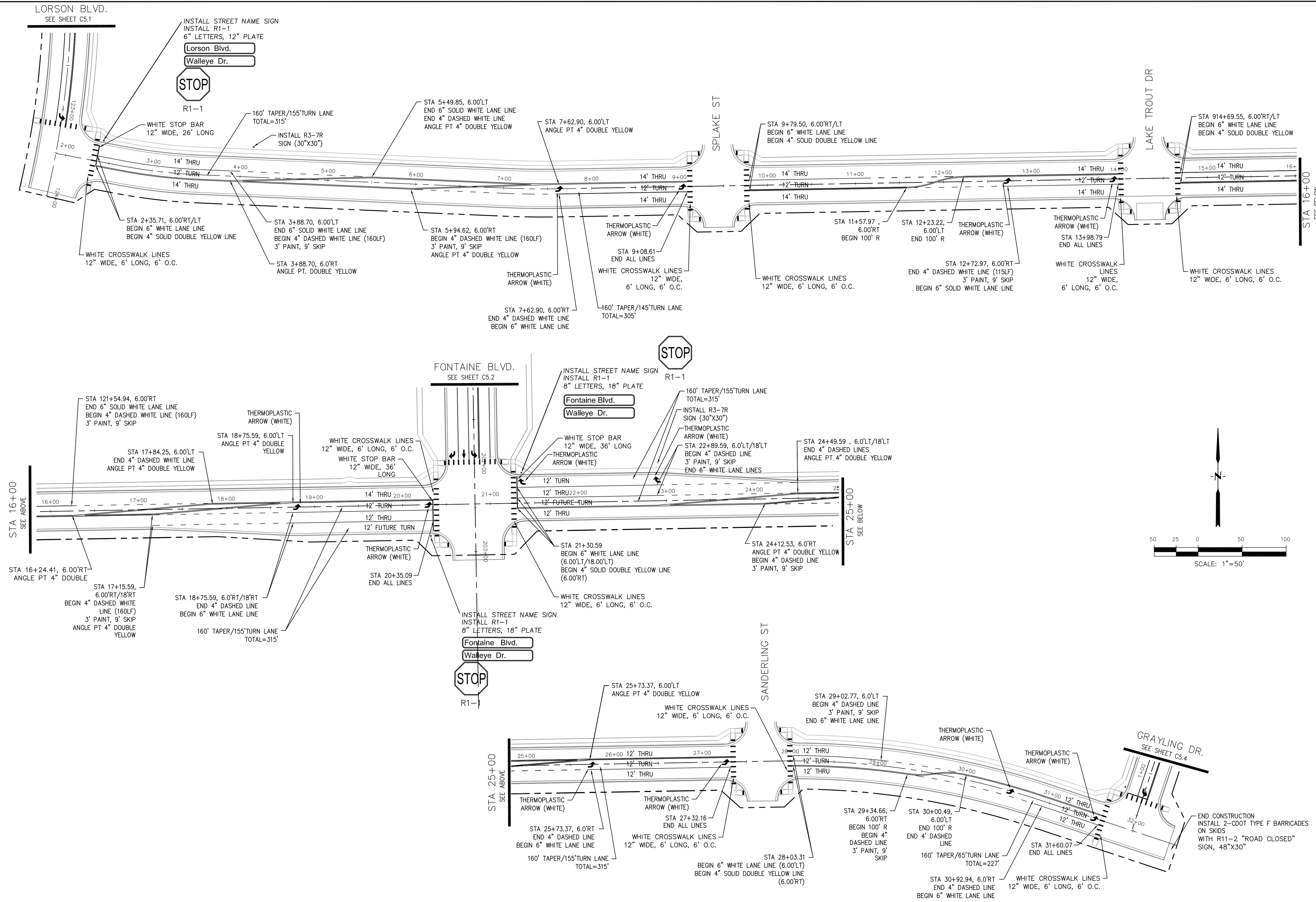
DRAWN: RLS  
 DESIGNED: RLS  
 CHECKED: RLS

**LORSON BLVD**  
**SIGNING & STRIPING PLAN**

DATE:  
**JUNE 1, 2020**  
 PROJECT NO.  
**100.061**  
 SHEET NUMBER  
**C5.1**  
 TOTAL SHEETS: 58

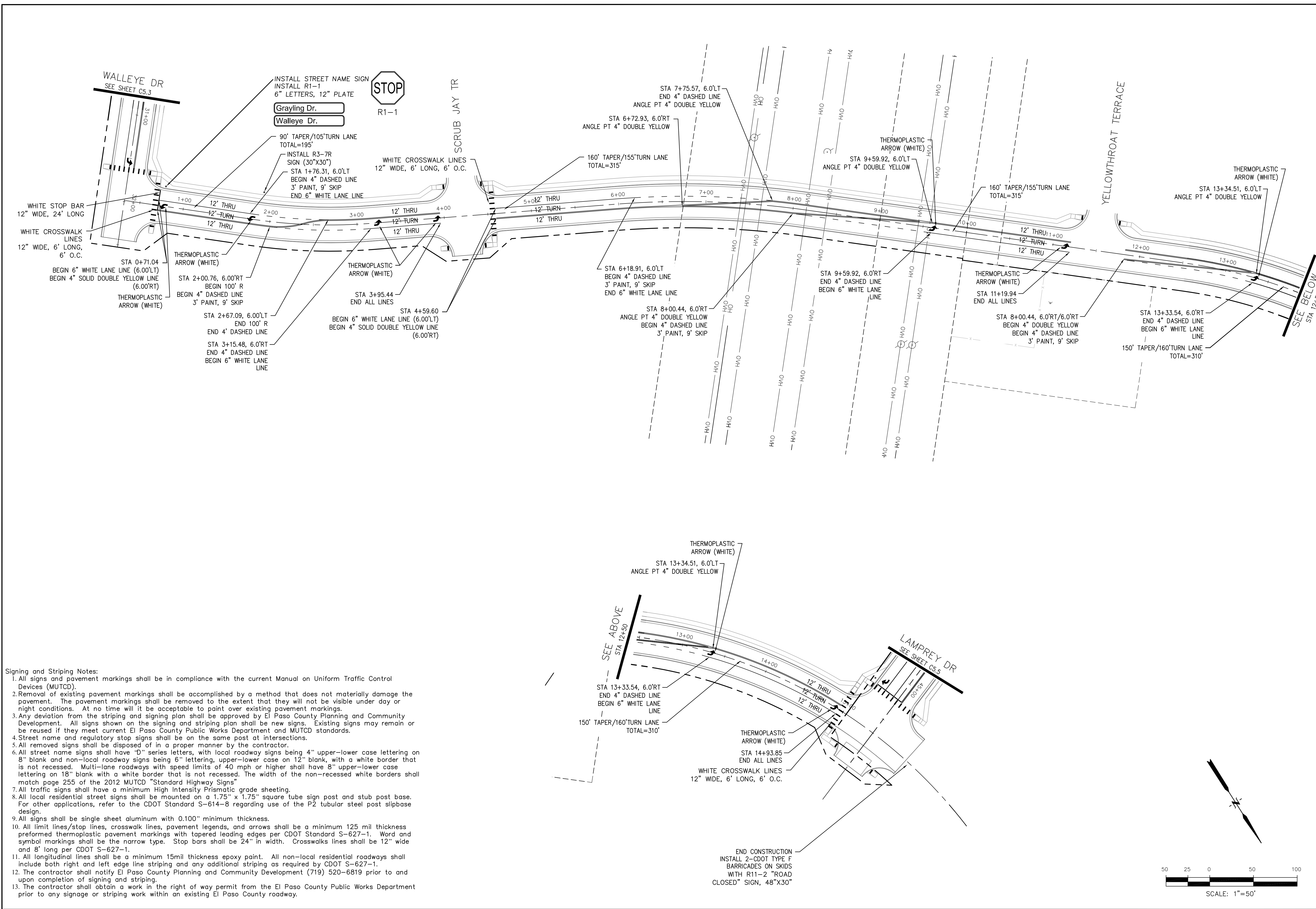




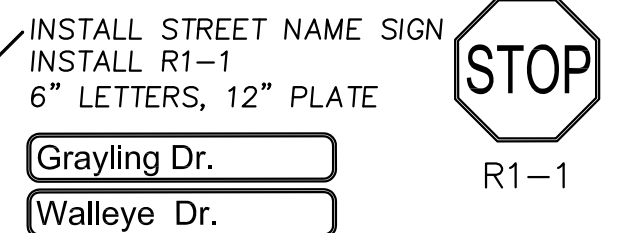


<b>CORE</b> ENGINEERING GROUP	NO.	1.
	DATE	4/20/2018
PREPARED FOR: <b>LORSON, LLC</b> 212 N. WAHSATCH AVE., SUITE 301 COLORADO SPRINGS, COLORADO 80903 CONTACT: RICHARD L. SCHINDLER, P.E. EMAIL: Rich@eg1.com	DESCRIPTION	ADD WARNING SIGNS PER COUNTY COMMENTS
	PROJECT:	THE HILLS COLLECTOR STREET CONSTRUCTION FONTAINE BLVD - GRAYLING DR LORSON BLVD - WALLEYE DR - LAMPREY DR COLORADO SPRINGS, COLORADO
CONTACT: JEFF MARK	DRAWN:	RLS
	DESIGNED:	RLS
	CHECKED:	RLS

<b>WALLEYE DR</b> <b>SIGNING &amp; STRIPING PLAN</b>	DATE:	JUNE 1, 2020
	PROJECT NO.	100.061
	SHEET NUMBER	C5.3
	TOTAL SHEETS:	58



- Signing and Striping Notes:**
- All signs and pavement markings shall be in compliance with the current Manual on Uniform Traffic Control Devices (MUTCD).
  - Removal of existing pavement markings shall be accomplished by a method that does not materially damage the pavement. The pavement markings shall be removed to the extent that they will not be visible under day or night conditions. At no time will it be acceptable to paint over existing pavement markings.
  - Any deviation from the striping and signing plan shall be approved by El Paso County Planning and Community Development. All signs shown on the signing and striping plan shall be new signs. Existing signs may remain or be reused if they meet current El Paso County Public Works Department and MUTCD standards.
  - Street name and regulatory stop signs shall be on the same post at intersections.
  - All removed signs shall be disposed of in a proper manner by the contractor.
  - All street name signs shall have "D" series letters, with local roadway signs being 4" upper-lower case lettering on 8" blank and non-local roadway signs being 6" lettering, upper-lower case on 12" blank, with a white border that is not recessed. Multi-lane roadways with speed limits of 40 mph or higher shall have 8" upper-lower case lettering on 18" blank with a white border that is not recessed. The width of the non-recessed white borders shall match page 255 of the 2012 MUTCD "Standard Highway Signs".
  - All traffic signs shall have a minimum High Intensity Prismatic grade sheeting.
  - All local residential street signs shall be mounted on a 1.75" x 1.75" square tube sign post and stub post base. For other applications, refer to the CDOT Standard S-614-8 regarding use of the P2 tubular steel post slipbase design.
  - All signs shall be single sheet aluminum with 0.100" minimum thickness.
  - All limit lines/stop lines, crosswalk lines, pavement legends, and arrows shall be a minimum 125 mil thickness preformed thermoplastic pavement markings with tapered leading edges per CDOT Standard S-627-1. Word and symbol markings shall be the narrow type. Stop bars shall be 24" in width. Crosswalks lines shall be 12" wide and 8' long per CDOT S-627-1.
  - All longitudinal lines shall be a minimum 15mil thickness epoxy paint. All non-local residential roadways shall include both right and left edge line striping and any additional striping as required by CDOT S-627-1.
  - The contractor shall notify El Paso County Planning and Community Development (719) 520-6819 prior to and upon completion of signing and striping.
  - The contractor shall obtain a work in the right of way permit from the El Paso County Public Works Department prior to any signage or striping work within an existing El Paso County roadway.



**CORE ENGINEERING GROUP**  
 15004 1ST AVENUE S.  
 BLDG 790 STB 1100  
 COLORADO SPRINGS, CO 80903  
 CONTACT: RICHARD L. SCHINDLER, P.E.  
 EMAIL: Rich@cegi.com

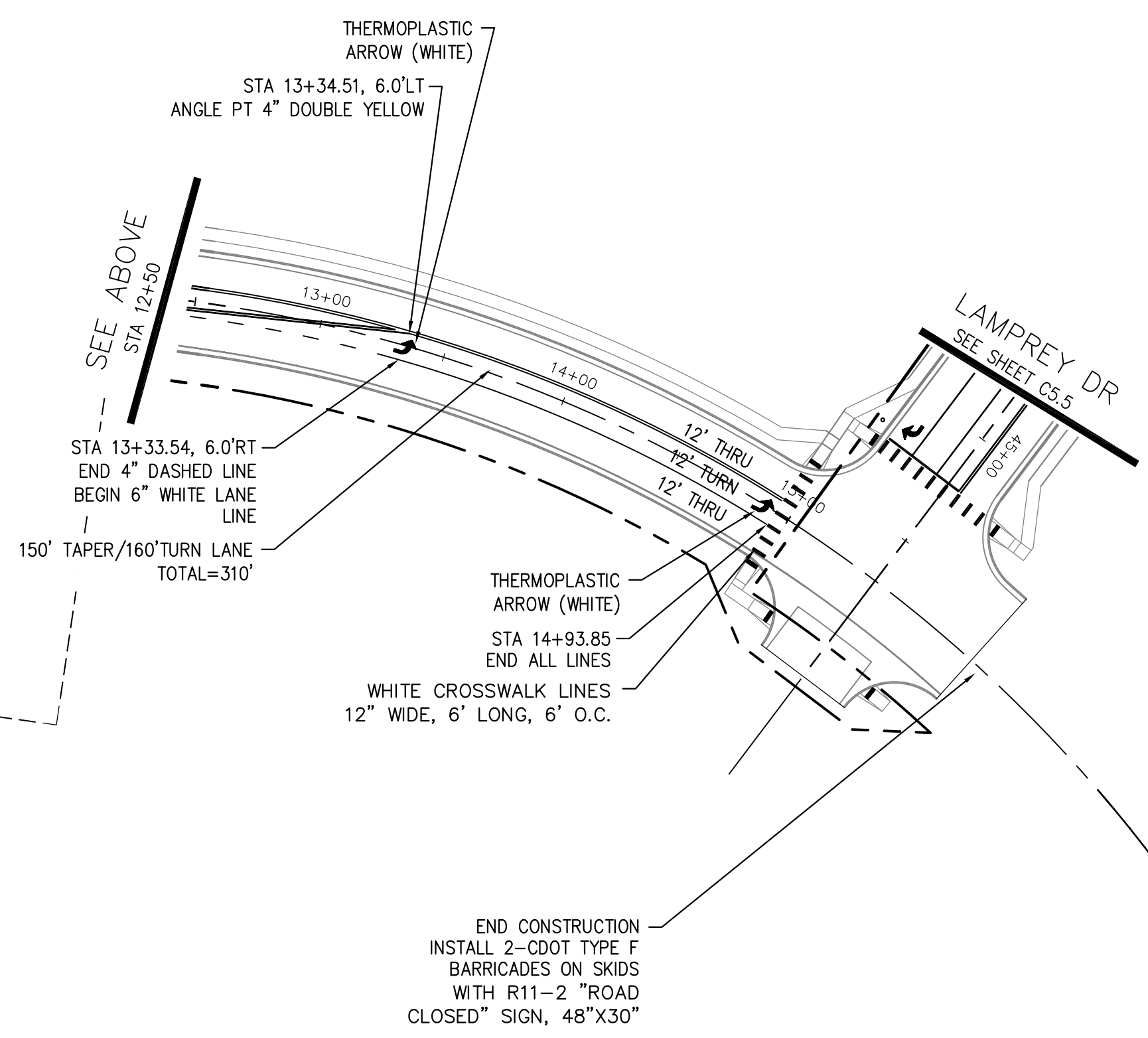
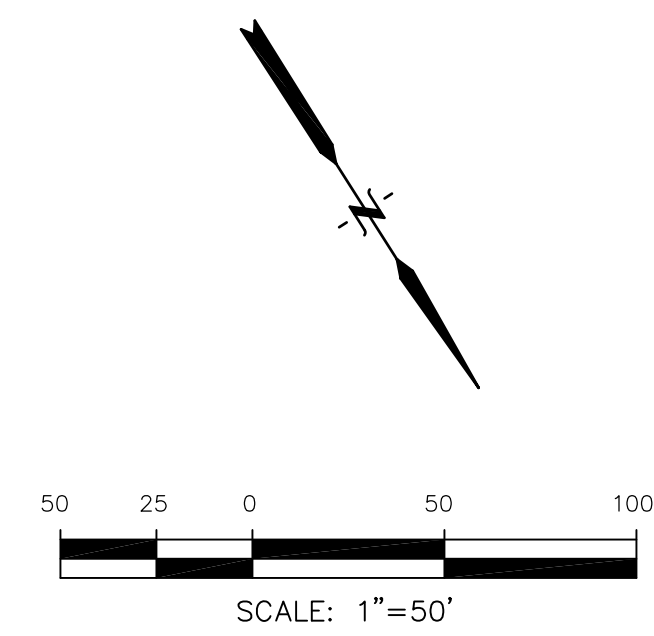
DATE: \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_  
 NO: \_\_\_\_\_  
 DRAWN: RLS  
 DESIGNED: RLS  
 CHECKED: RLS

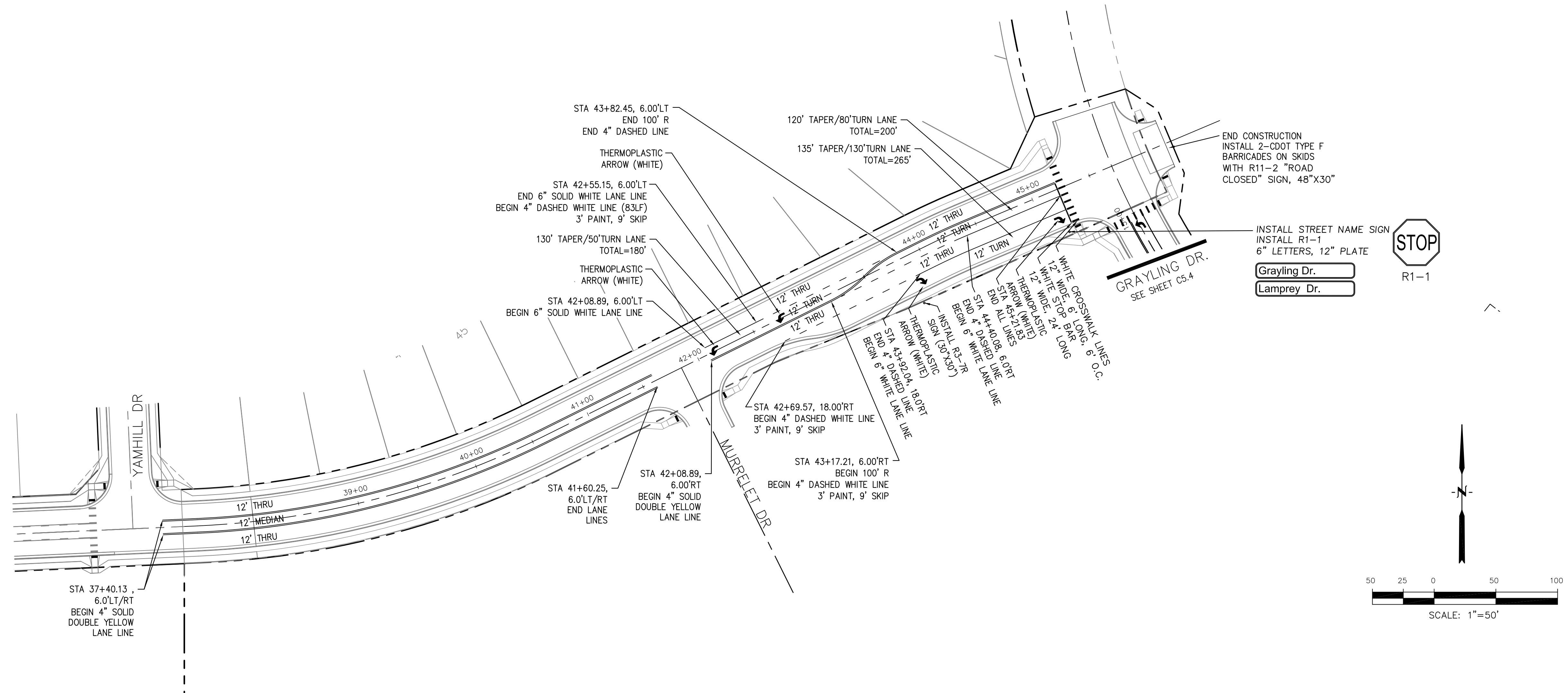
PROJECT: THE HILLS COLLECTOR STREET CONSTRUCTION  
 212 N. WAHSATCH AVE., SUITE 301  
 COLORADO SPRINGS, COLORADO 80903  
 LORSON BLVD - WALLEYE DR - LAMPREY DR  
 COLORADO SPRINGS, COLORADO  
 CONTACT: JEFF MARK

PREPARED FOR: LORSON, LLC  
 212 N. WAHSATCH AVE., SUITE 301  
 COLORADO SPRINGS, COLORADO 80903  
 CONTACT: RICHARD L. SCHINDLER, P.E.  
 EMAIL: Rich@cegi.com

**GRAYLING DRIVE  
 SIGNING & STRIPING PLAN**

DATE: JUNE 1, 2020  
 PROJECT NO. 100.061  
 SHEET NUMBER C5.4  
 TOTAL SHEETS: 58





**CORE**  
**ENGINEERING GROUP**  
 15004 1ST AVENUE S.  
 BIRCHMOUNT, CO 80106  
 PH: 719.570.1100  
 CONTACT: RICHARD L. SCHINDLER, P.E.  
 EMAIL: Rich@cegi.com

DATE: 4/20/2018  
 DESCRIPTION: ADD WARNING SIGNS PER COUNTY COMMENTS

NO. 1  
 PROJECT: THE HILLS COLLECTOR STREET CONSTRUCTION  
 212 N. WAHSATCH AVE., SUITE 301  
 COLORADO SPRINGS, COLORADO 80903  
 LORSON BLVD - WALLEYE DR - LAMPREY DR  
 COLORADO SPRINGS, COLORADO  
 PREPARED FOR: LORSON, LLC  
 212 N. WAHSATCH AVE., SUITE 301  
 COLORADO SPRINGS, COLORADO 80903  
 CONTACT: JEFF MARK

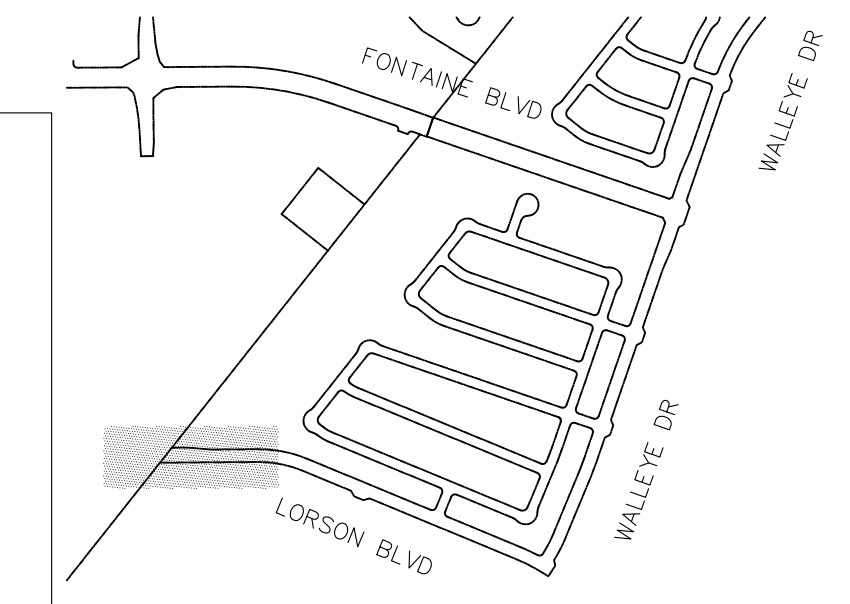
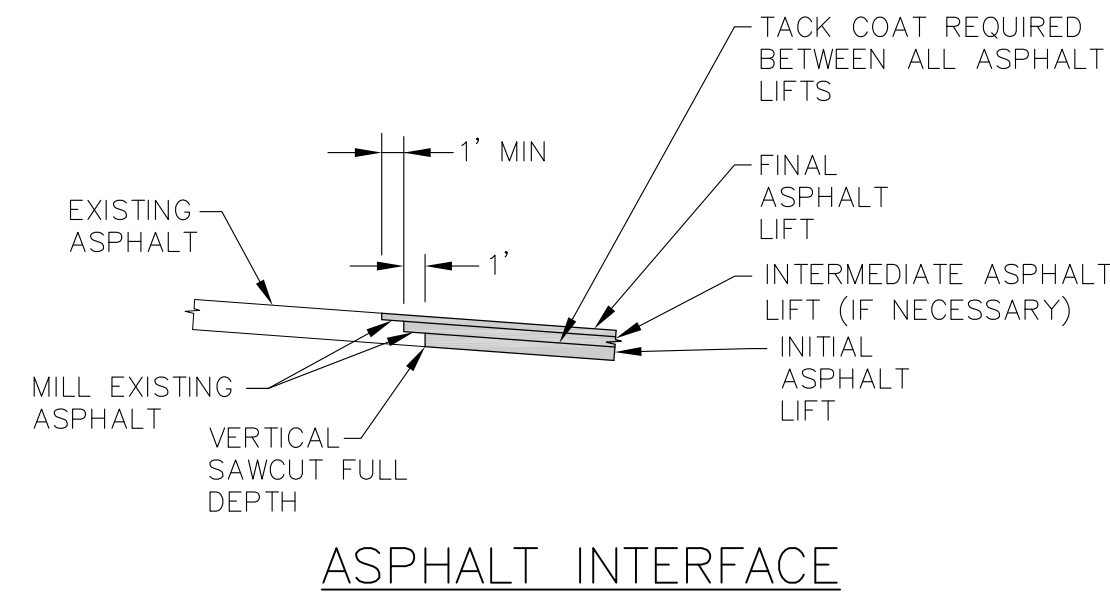
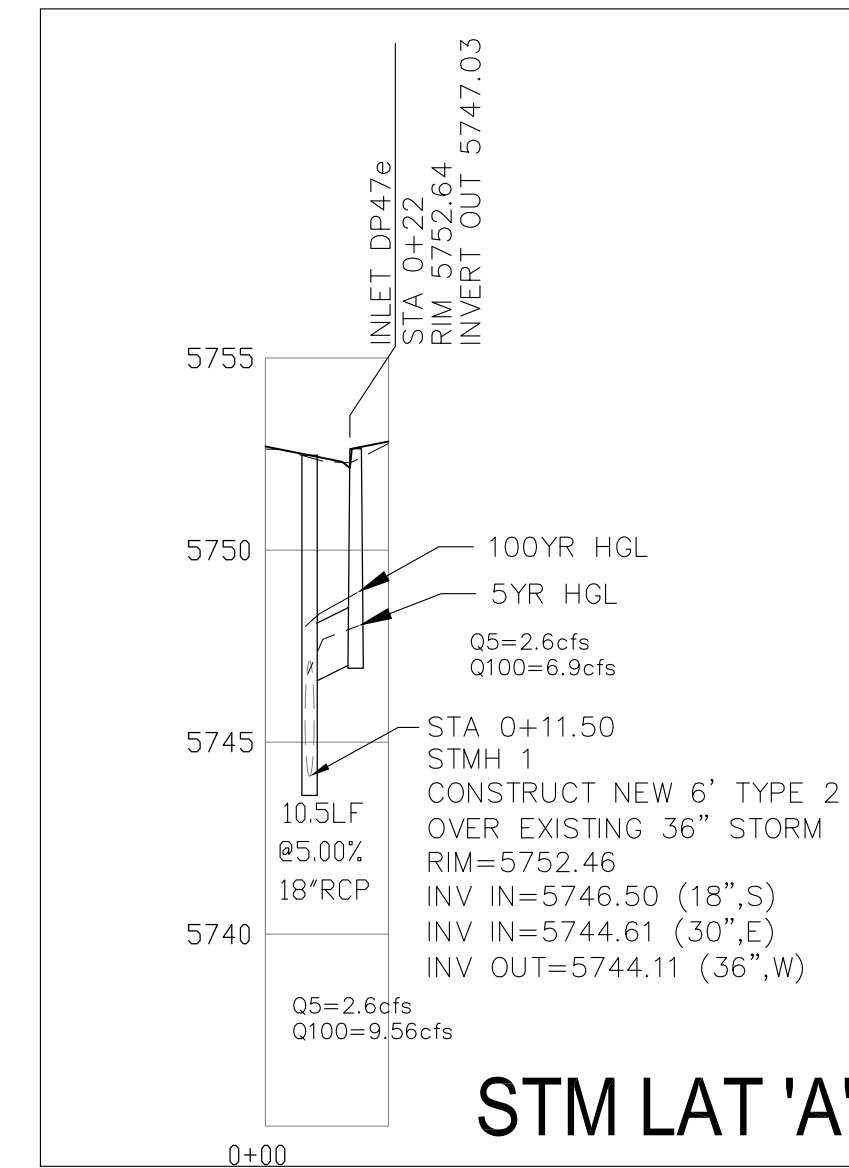
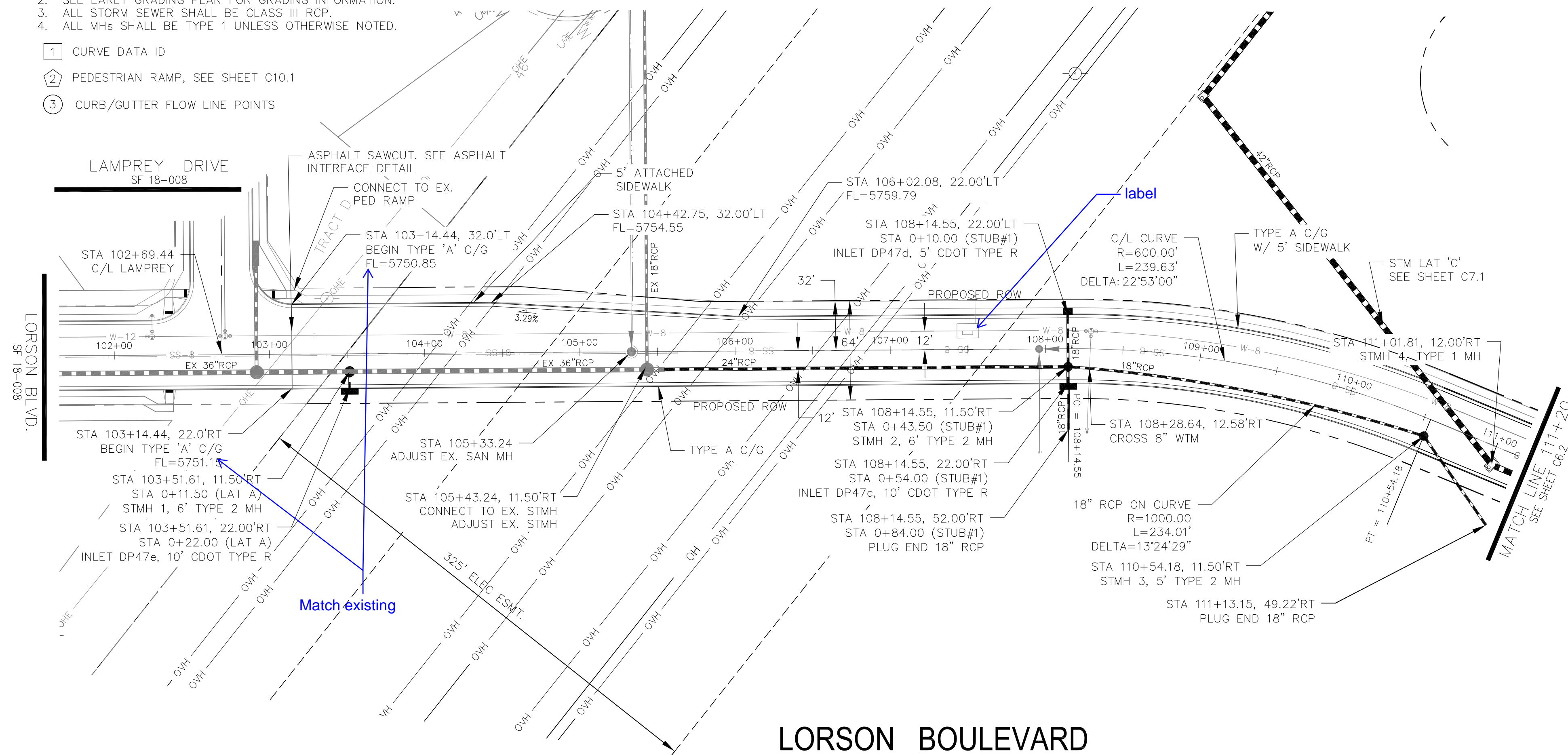
DRAWN: RLS  
 DESIGNED: RLS  
 CHECKED: RLS

LAMPREY DR  
 SIGNING & STRIPING PLAN

DATE: JUNE 1, 2020  
 PROJECT NO. 100.061  
 SHEET NUMBER C5.5  
 TOTAL SHEETS: 58

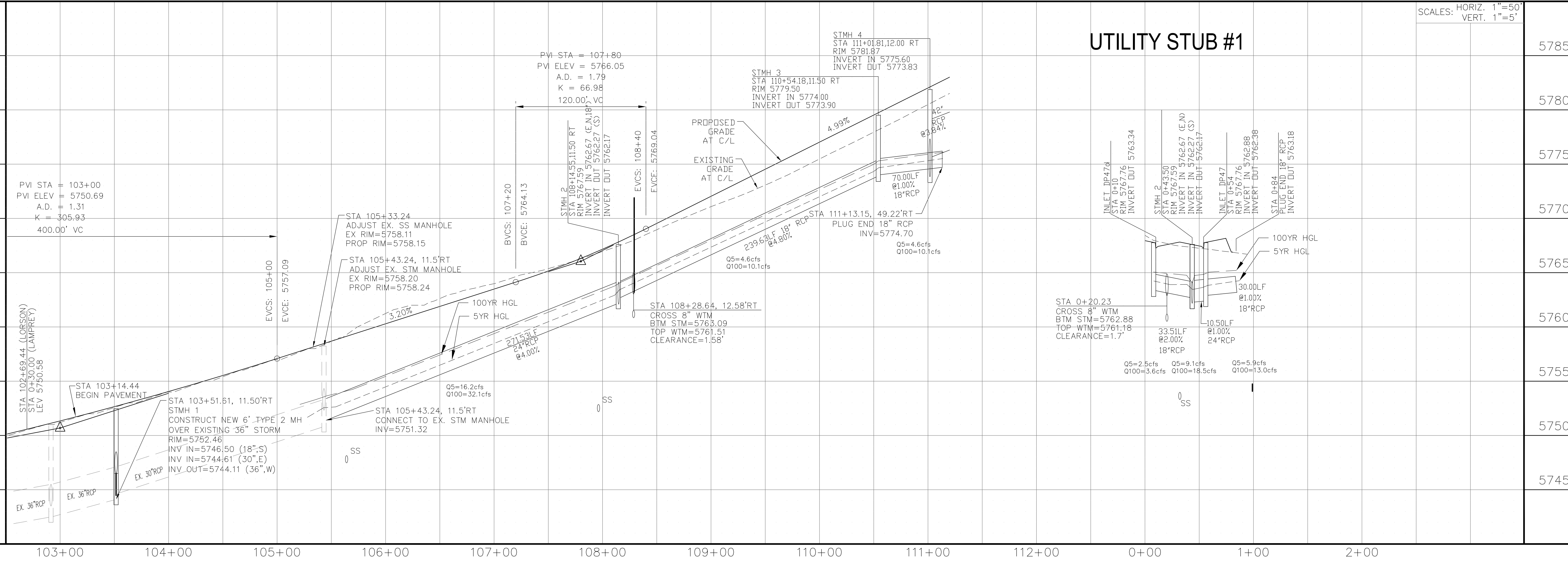
- NOTES
1. ALL SPOT ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE NOTED.
  2. SEE EARLY GRADING PLAN FOR GRADING INFORMATION.
  3. ALL STORM SEWER SHALL BE CLASS III RCP.
  4. ALL MHS SHALL BE TYPE 1 UNLESS OTHERWISE NOTED.

- ① CURVE DATA ID
- ② PEDESTRIAN RAMP, SEE SHEET C10.1
- ③ CURB/GUTTER FLOW LINE POINTS



LORSON BOULEVARD

UTILITY STUB #1



**CORE ENGINEERING GROUP**

15004 151<sup>ST</sup> AVENUE, SUITE 35006  
PH: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@ceg1.com

DATE

DESCRIPTION

NO.

PROJECT FOR: **LORSON, LLC**  
212 N. WAHSATCH AVE, SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
CONTACT: JEFF MARK

PROJECT: **THE HILLS COLLECTOR STREET CONSTRUCTION**  
FONTAINE BLVD - GRAYLING DR  
LORSON BLVD - WALLEVE DR - LAMPREY DR  
COLORADO SPRINGS, COLORADO

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

**STREET & STORM SEWER PLAN/PROFILE**

**LORSON BOULEVARD**

**STA 103+00 TO STA 111+20**

DATE: JUNE 1, 2020

PROJECT NO. 100.061

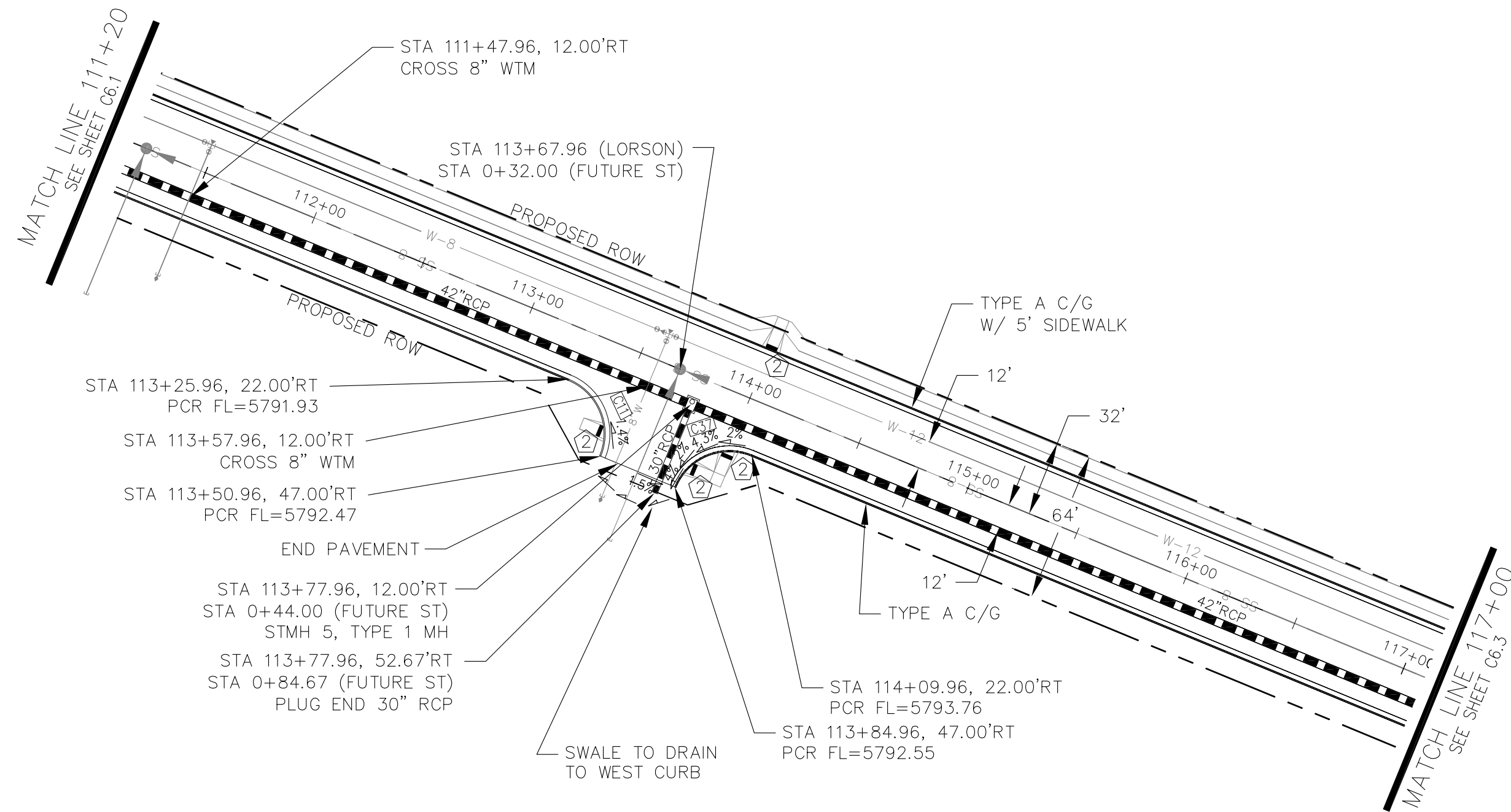
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TOTAL SHEETS: 58

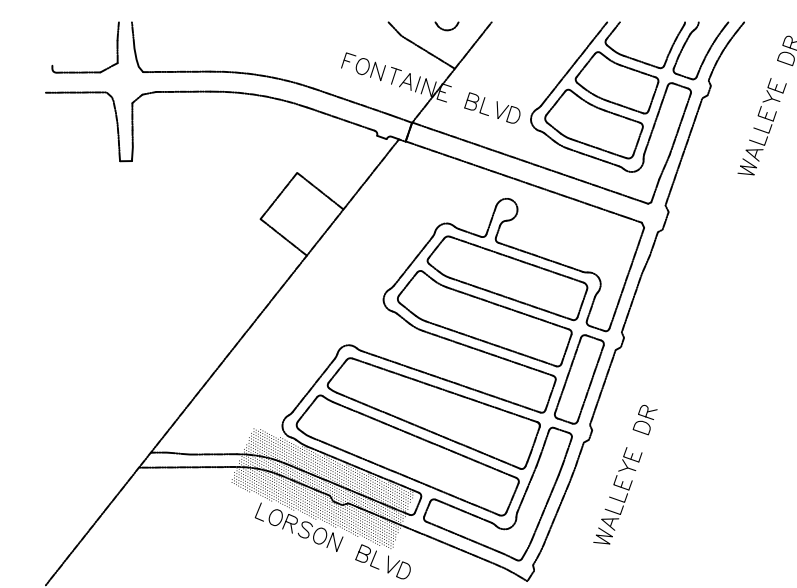
- NOTES
1. ALL SPOT ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE NOTED.
  2. SEE EARLY GRADING PLAN FOR GRADING INFORMATION.
  3. ALL STORM SEWER SHALL BE CLASS III RCP.
  4. ALL MHS SHALL BE TYPE 1 UNLESS OTHERWISE NOTED.

- ① CURVE DATA ID
- ② PEDESTRIAN RAMP, SEE SHEET C10.1
- ③ CURB/GUTTER FLOW LINE POINTS

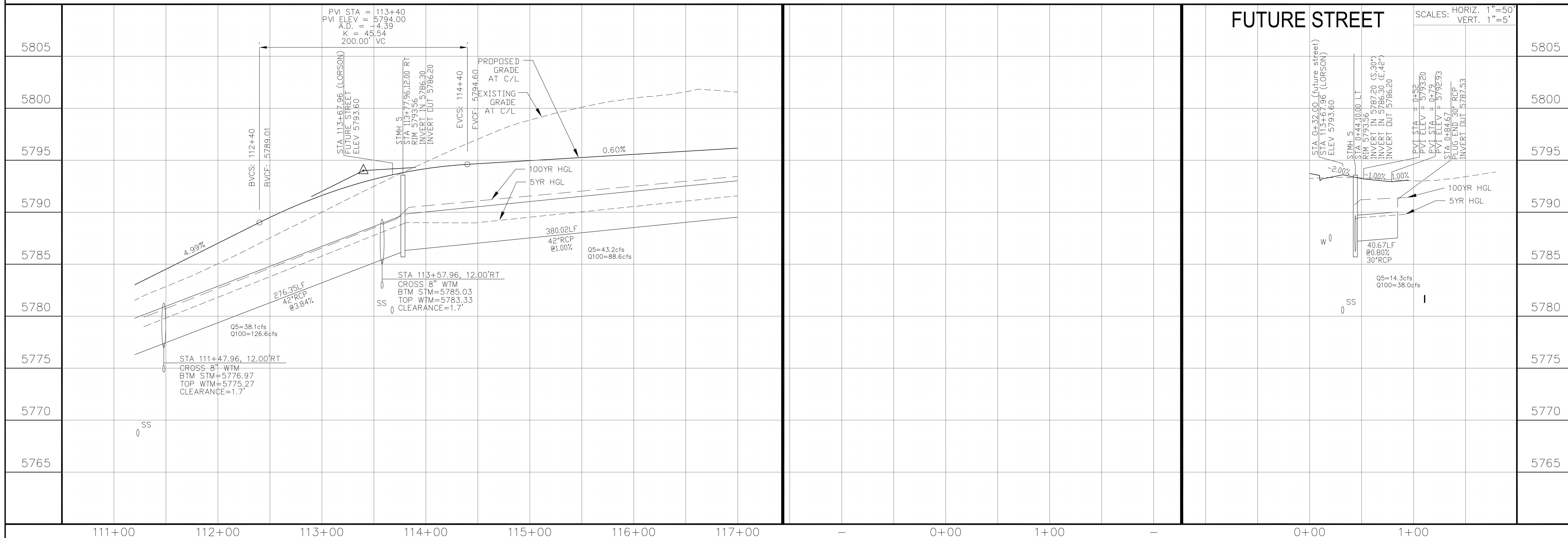
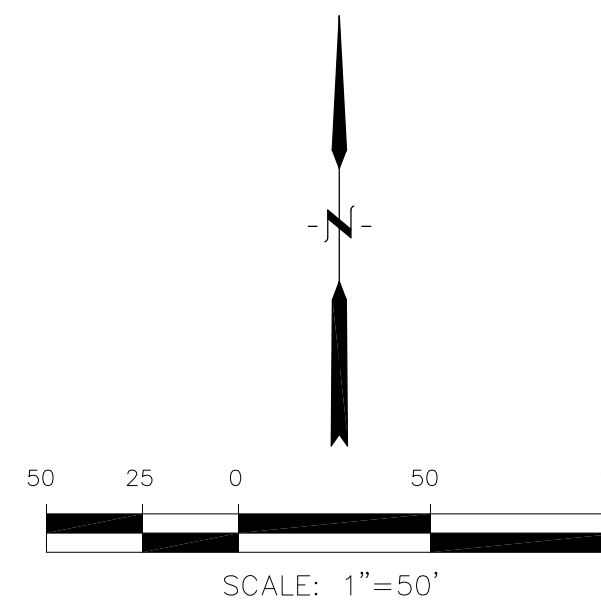
CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C11	39.27'	25.00	90°00'00"
C37	39.27'	25.00	90°00'00"



LORSON BOULEVARD



KEY MAP



**CORE ENGINEERING GROUP**  
 15004 151<sup>ST</sup> AVENUE, SUITE 300  
 COLORADO SPRINGS, CO 80903  
 PHONE: 719.570.1100  
 CONTACT: RICHARD L. SCHINDLER, P.E.  
 EMAIL: Rich@ceg1.com

DATE: \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_  
 NO: \_\_\_\_\_  
 DRAWN: RLS  
 DESIGNED: RLS  
 CHECKED: RLS

PREPARED FOR:  
**LORSON, LLC**  
 212 N. WAHSATCH AVE, SUITE 301  
 COLORADO SPRINGS, COLORADO 80903  
 (719) 635-3200  
 CONTACT: JEFF MARK

PROJECT:  
**THE HILLS COLLECTOR STREET CONSTRUCTION**  
 FONTAINE BLVD - GRAYLING DR  
 LORSON BLVD - WALLEYE DR - LAMPREY DR  
 COLORADO SPRINGS, COLORADO

DATE:  
 JUNE 1, 2020

PROJECT NO.  
 100.061

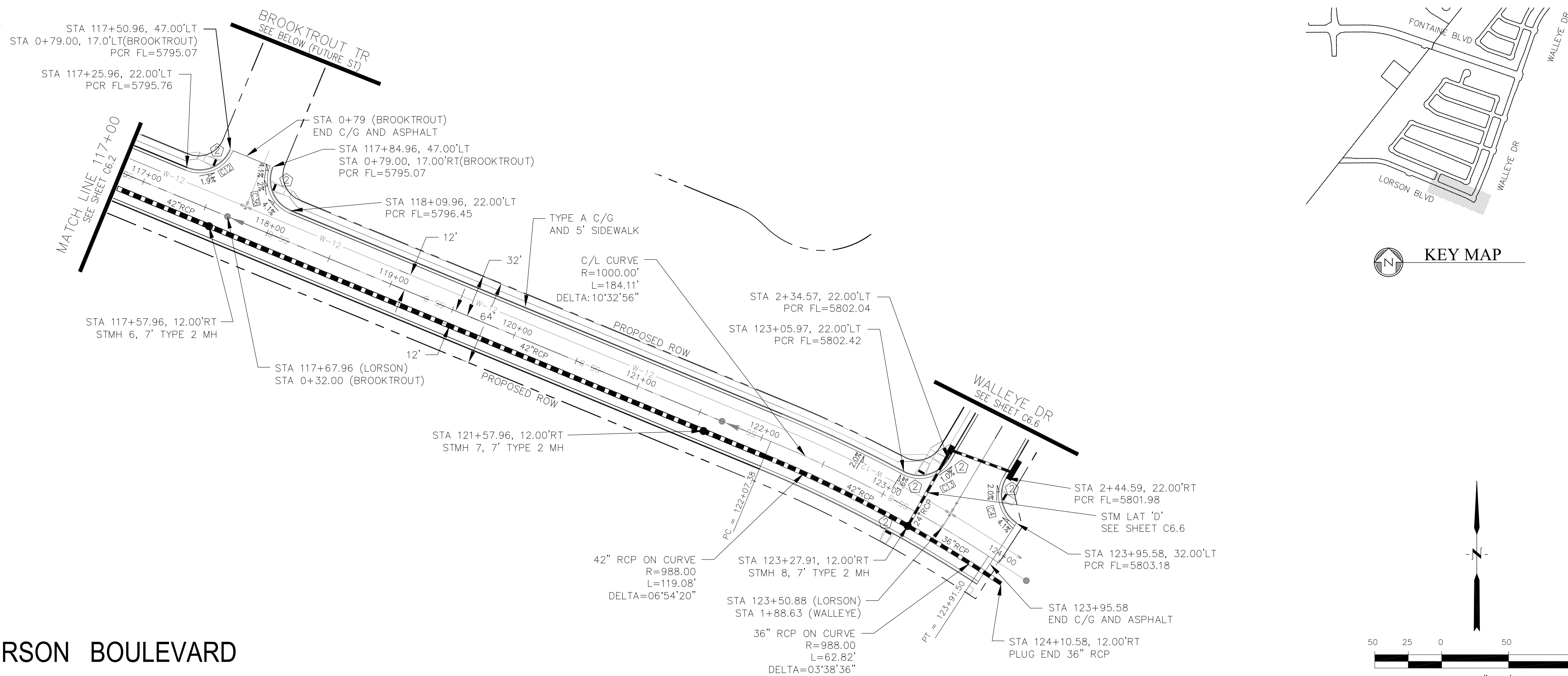
SHEET NUMBER  
**C6.2**

TOTAL SHEETS: 58

- NOTES
1. ALL SPOT ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE NOTED.
  2. SEE EARLY GRADING PLAN FOR GRADING INFORMATION.
  3. ALL STORM SEWER SHALL BE CLASS III RCP.
  4. ALL MHS SHALL BE TYPE 1 UNLESS OTHERWISE NOTED.

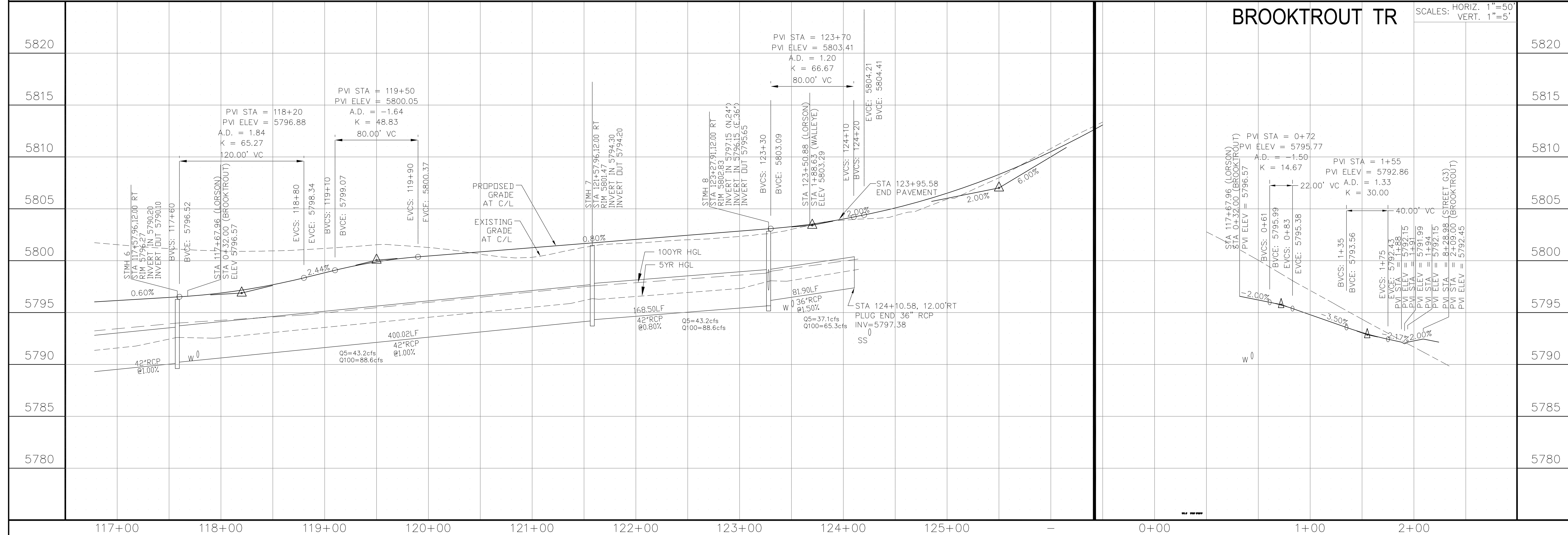
- ① CURVE DATA ID
- ② PEDESTRIAN RAMP, SEE SHEET C10.1
- ③ CURB/GUTTER FLOW LINE POINTS

CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C4	38.25'	25.00	87°40'22"
C12	39.27'	25.00	90°00'00"
C13	38.15'	25.00	87°25'38"
C36	39.27'	25.00	90°00'00"



**LORSON BOULEVARD**

**BROOKTROUT TR**



**CORE ENGINEERING GROUP**

15004 151<sup>ST</sup> AVENUE, SUITE 300  
DENVER, CO 80202  
PHONE: 303.750.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@cegi.com

DATE

DESCRIPTION

NO.

PROJECT FOR:  
**LORSON, LLC**  
212 N. WAHSATCH AVE, SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
CONTACT: JEFF MARK

PROJECT:  
**THE HILLS COLLECTOR STREET CONSTRUCTION**  
FONTAINE BLVD - GRAYLING DR  
LORSON BLVD - WALLEYE DR - LAMPREY DR  
COLORADO SPRINGS, COLORADO  
CONTACT: JEFF MARK

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

**STREET & STORM SEWER PLAN/PROFILE**

**LORSON BOULEVARD**

**STA 117+00 TO STA 124+25**

DATE:  
JUNE 1, 2020

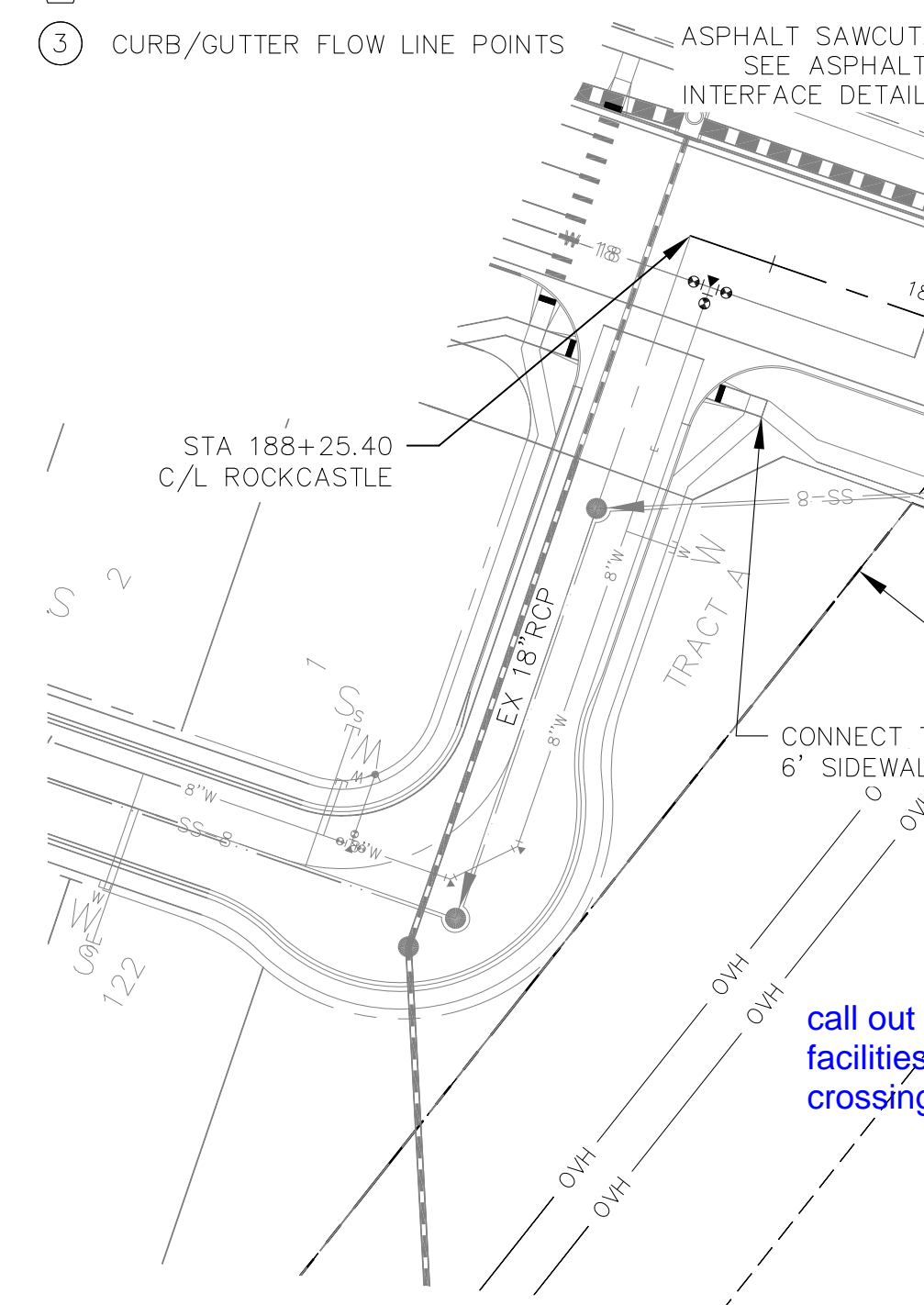
PROJECT NO.  
100.061

SHEET NUMBER  
**C6.3**

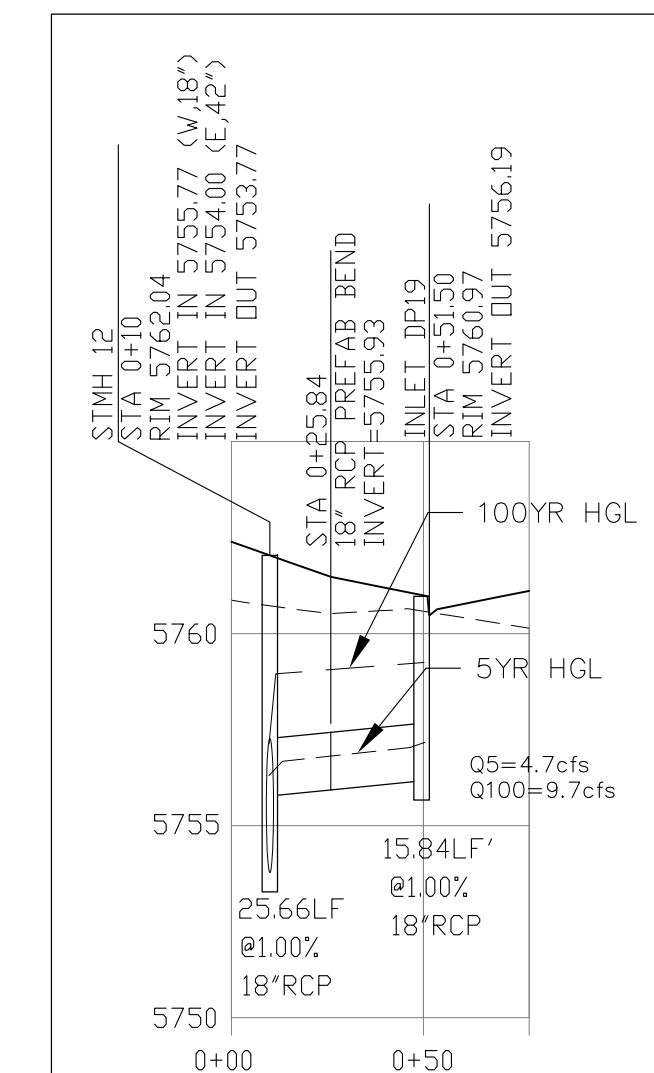
TOTAL SHEETS: 58

- NOTES**
1. ALL SPOT ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE NOTED.
  2. SEE EARLY GRADING PLAN FOR GRADING INFORMATION.
  3. ALL STORM SEWER SHALL BE CLASS III RCP.
  4. ALL MHS SHALL BE TYPE 1 UNLESS OTHERWISE NOTED.

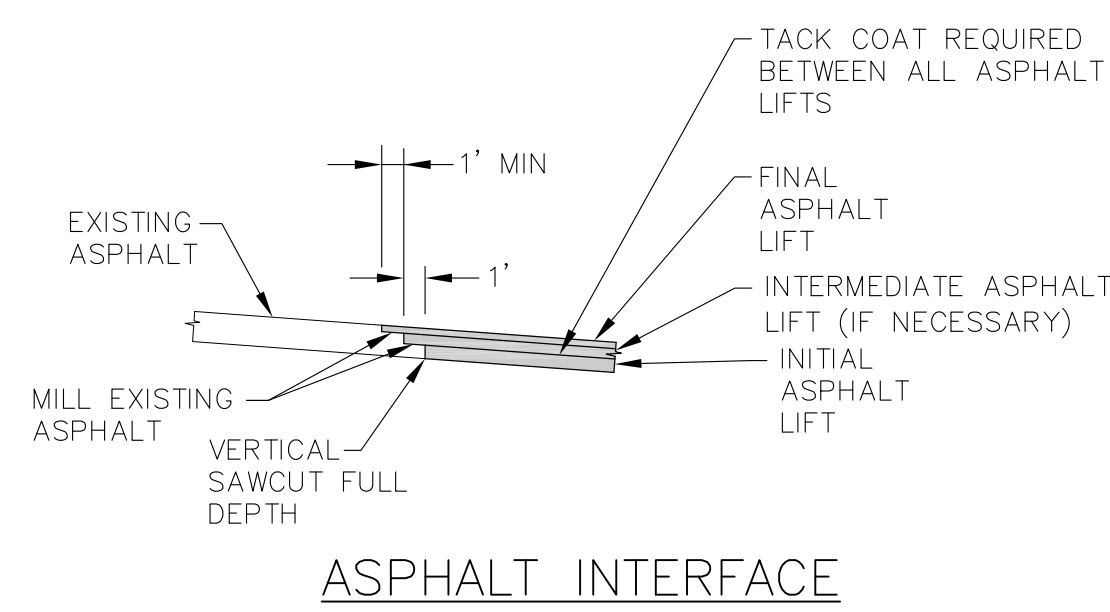
- 1 CURVE DATA ID
- 2 PEDESTRIAN RAMP, SEE SHEET C10.1
- 3 CURB/GUTTER FLOW LINE POINTS



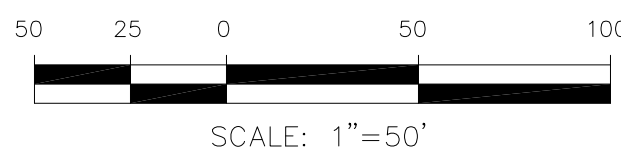
call out pedestrian facilities for trail crossing



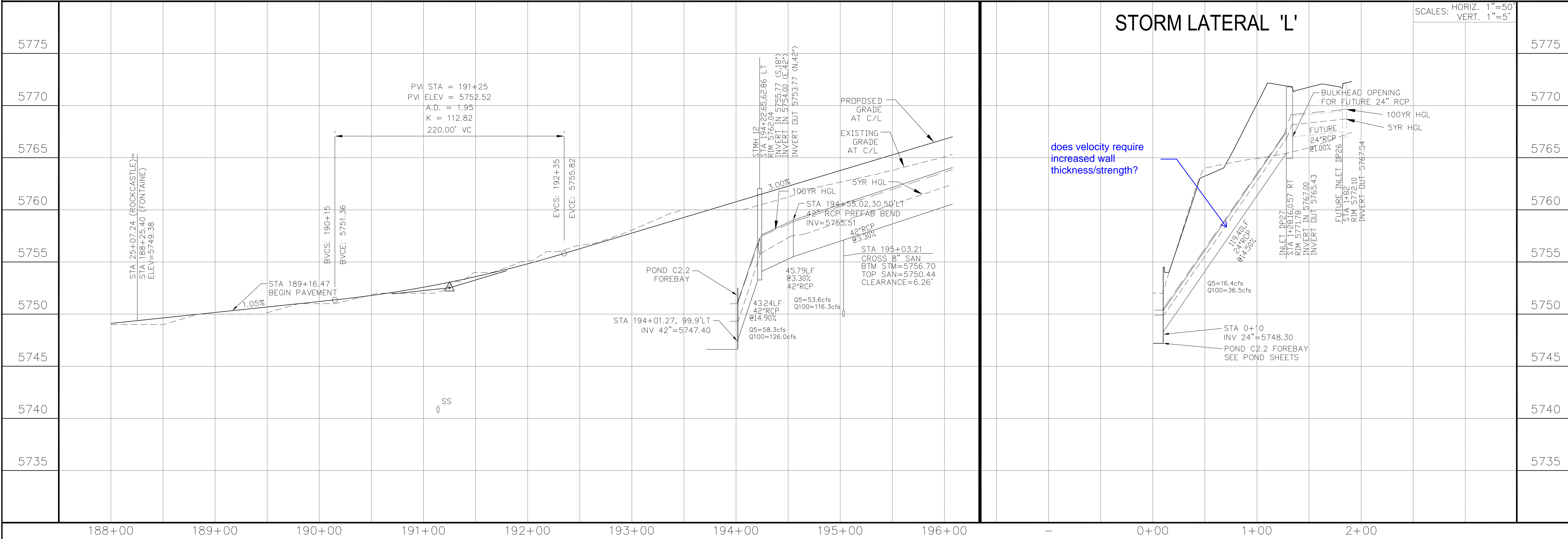
STORM LATERAL 'F'



ASPHALT INTERFACE

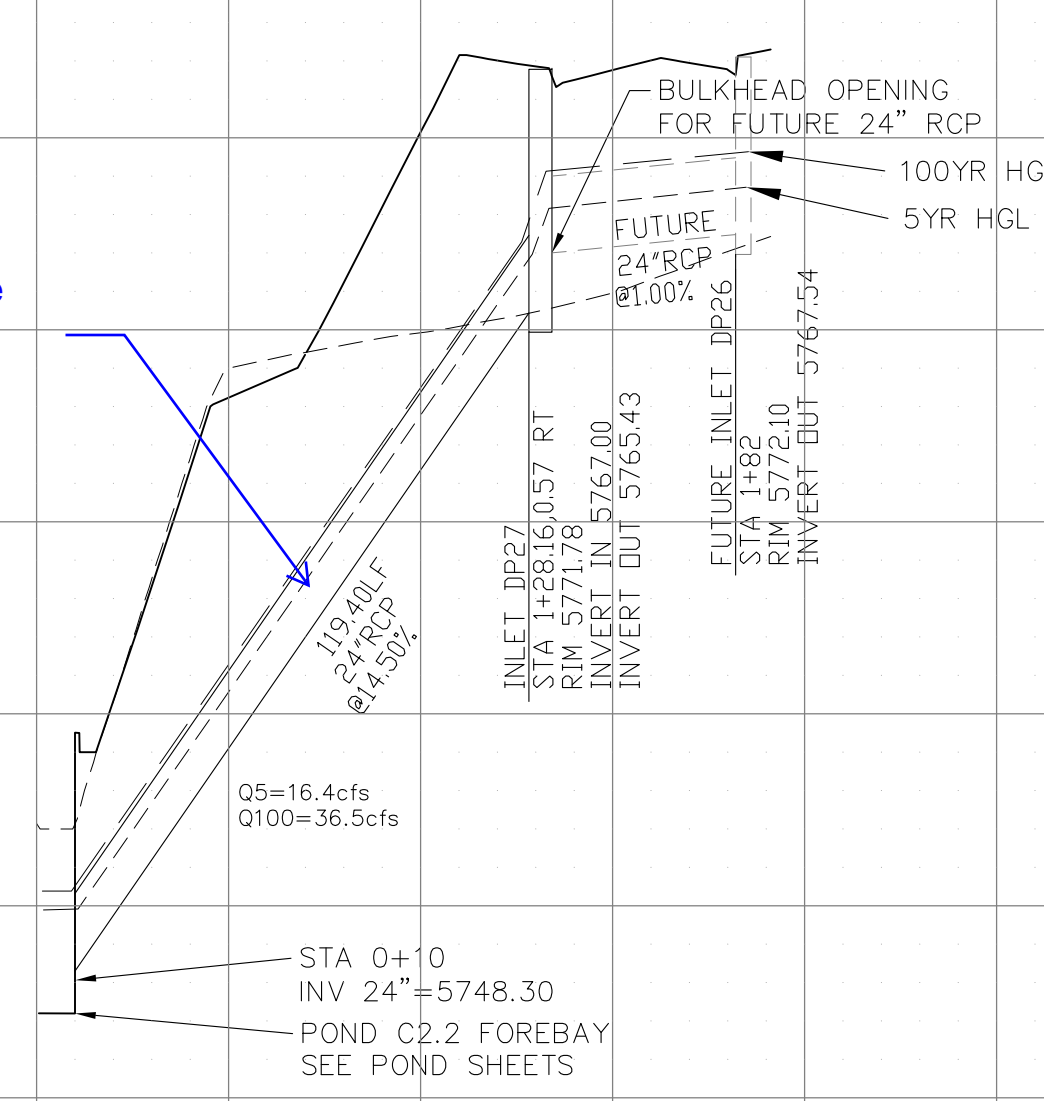


FONTAINE BOULEVARD



does velocity require increased wall thickness/strength?

STORM LATERAL 'L'



**CORE ENGINEERING GROUP**  
 15004 151<sup>st</sup> AVENUE S.E.  
 PHOENIX, AZ 85006  
 CONTACT: RICHARD L. SCHINDLER, P.E.  
 EMAIL: Rich@cegi.com

DATE: \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_  
 NO: \_\_\_\_\_  
 DRAWN: RLS  
 DESIGNED: RLS  
 CHECKED: RLS

PROJECT FOR:  
**THE HILLS COLLECTOR STREET CONSTRUCTION**  
 212 N. WAHSATCH AVE, SUITE 301  
 COLORADO SPRINGS, COLORADO 80903  
 (719) 635-3200  
 CONTACT: JEFF MARK

STREET & STORM SEWER PLAN/PROFILE  
 FONTAINE BOULEVARD  
 STA 189+16 TO STA 196+00

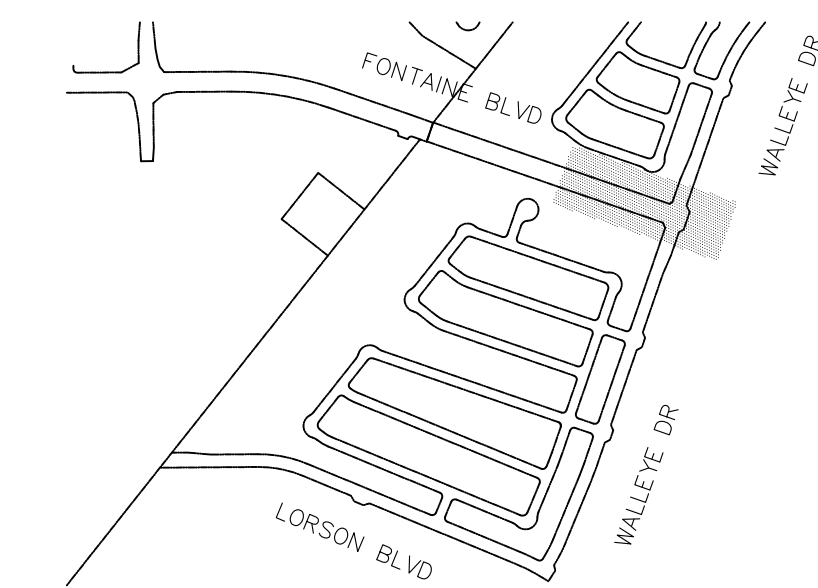
DATE:  
 JUNE 1, 2020

PROJECT NO.  
 100.061  
 SHEET NUMBER  
**C6.4**  
 TOTAL SHEETS: 58

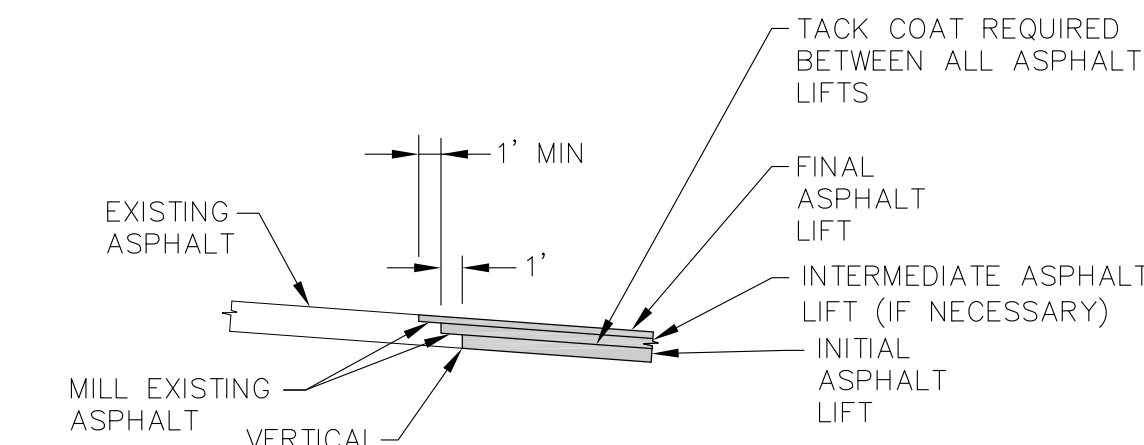
- NOTES**
1. ALL SPOT ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE NOTED.
  2. SEE EARLY GRADING PLAN FOR GRADING INFORMATION.
  3. ALL STORM SEWER SHALL BE CLASS III RCP.
  4. ALL MHS SHALL BE TYPE 1 UNLESS OTHERWISE NOTED.

- ① CURVE DATA ID
- ② PEDESTRIAN RAMP, SEE SHEET C10.1
- ③ CURB/GUTTER FLOW LINE POINTS

CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C24	39.27'	25.00'	90°00'00"
C38	39.27'	25.00'	90°00'00"
C39	39.27'	25.00'	90°00'00"
C40	39.27'	25.00'	90°00'00"

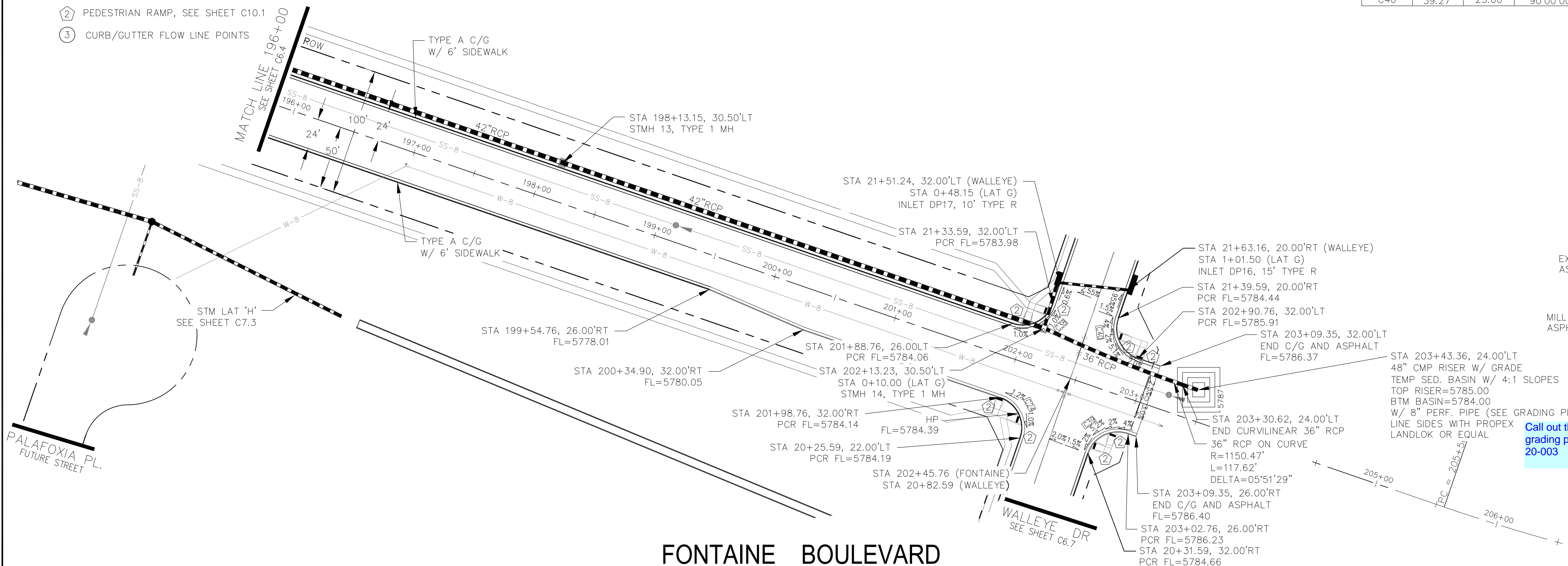


**KEY MAP**



**ASPHALT INTERFACE**

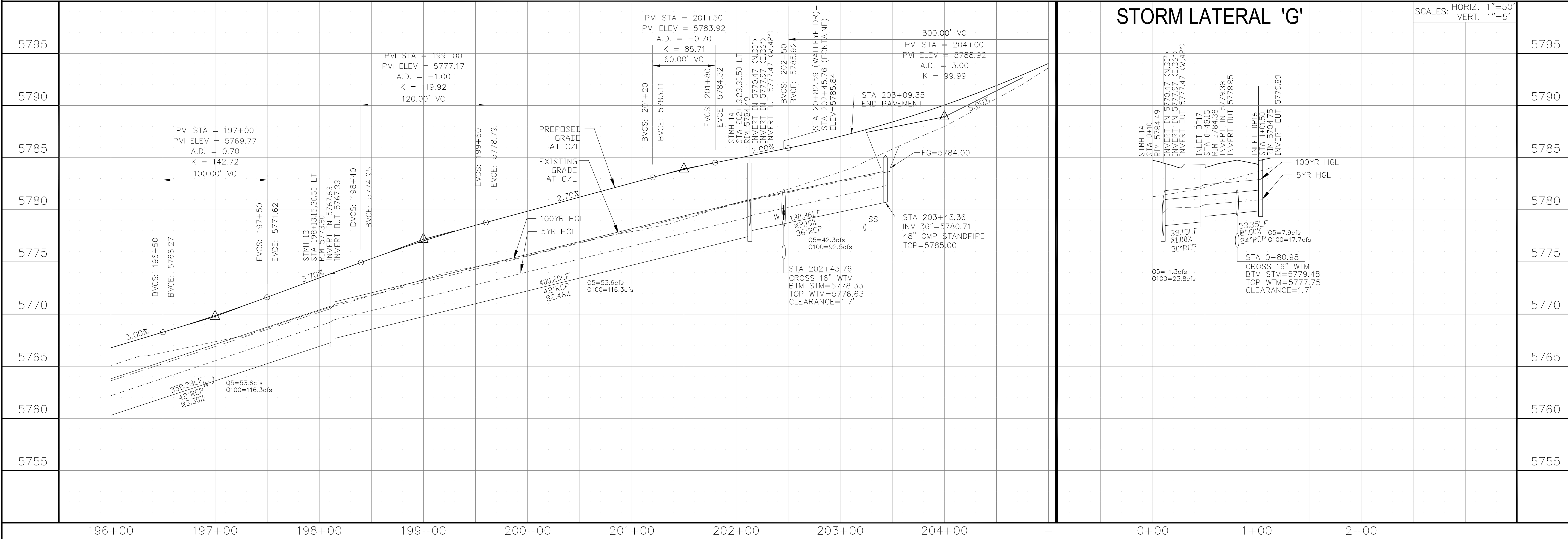
Call out the project for the grading plans PUDSP 20-003



**FONTAINE BOULEVARD**

**STORM LATERAL 'G'**

SCALES: HORIZ. 1"=50'  
VERT. 1"=5'



**CORE ENGINEERING GROUP**  
15004 151<sup>st</sup> AVENUE, S.  
DENVER, CO 80232  
PHONE: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@cegi.com

DATE: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_  
NO: \_\_\_\_\_  
DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

PREPARED FOR:  
**LORSON, LLC**  
212 N. WAHSATCH AVE, SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
(719) 635-3200  
CONTACT: JEFF MARK

PROJECT:  
**THE HILLS COLLECTOR STREET CONSTRUCTION**  
FONTAINE BLVD - GRAYLING DR  
LORSON BLVD - WALLEYE DR - LAMPREY DR  
COLORADO SPRINGS, COLORADO

**STREET & STORM SEWER PLAN/PROFILE**  
**FONTAINE BOULEVARD**  
**STA 196+00 TO STA 203+25**

DATE:  
JUNE 1, 2020

PROJECT NO.  
100.061

SHEET NUMBER  
**C6.5**

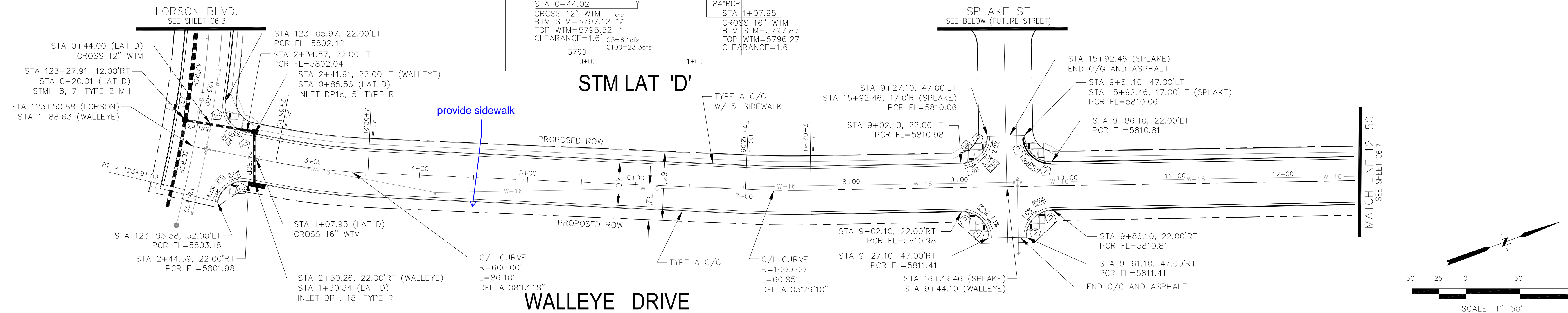
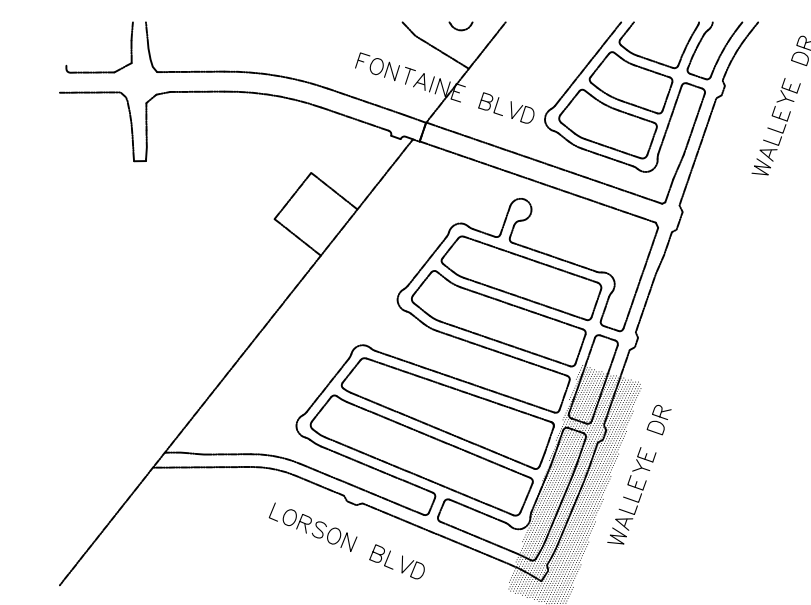
TOTAL SHEETS: 58



- NOTES
1. ALL SPOT ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE NOTED.
  2. SEE EARLY GRADING PLAN FOR GRADING INFORMATION.
  3. ALL STORM SEWER SHALL BE CLASS III RCP.
  4. ALL MHS SHALL BE TYPE 1 UNLESS OTHERWISE NOTED.

- ① CURVE DATA ID
- ② PEDESTRIAN RAMP, SEE SHEET C10.1
- ③ CURB/GUTTER FLOW LINE POINTS

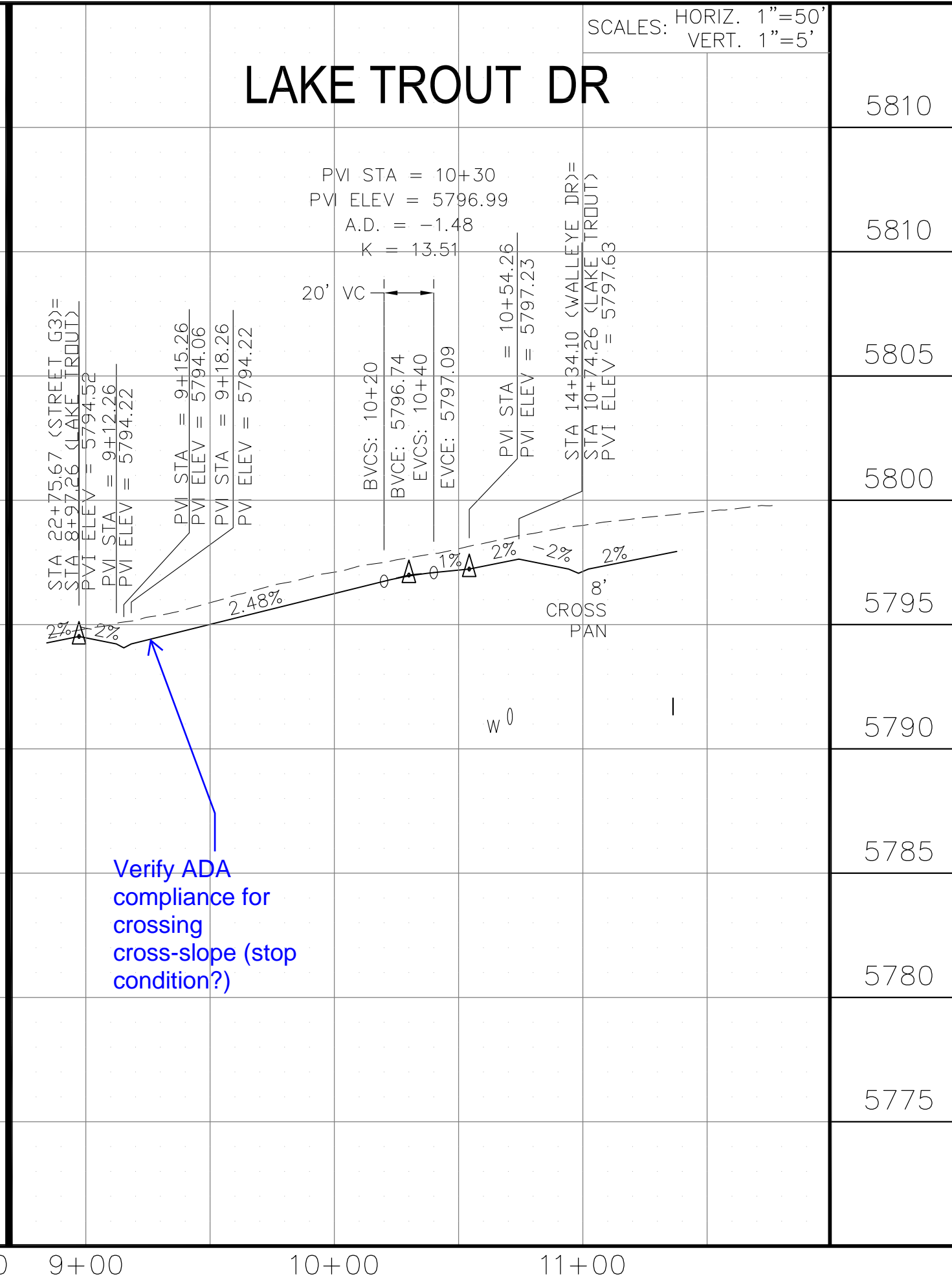
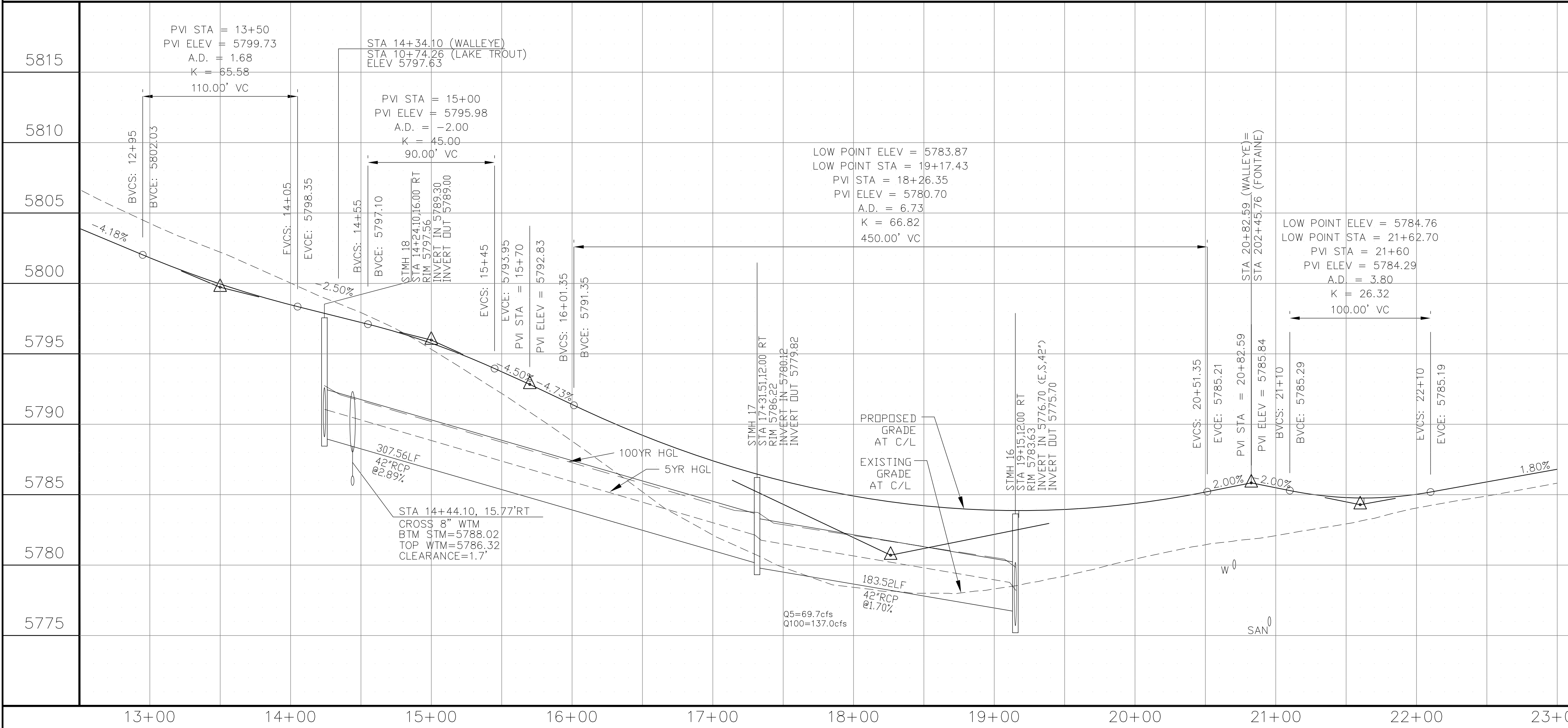
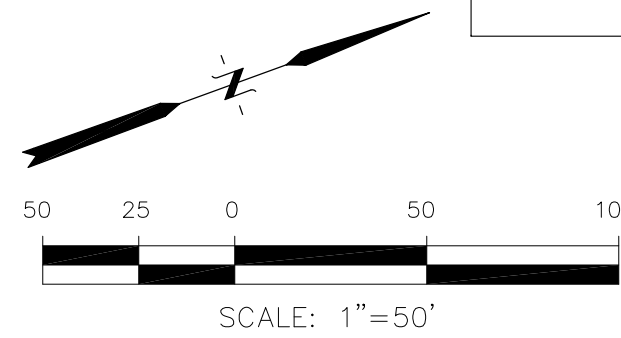
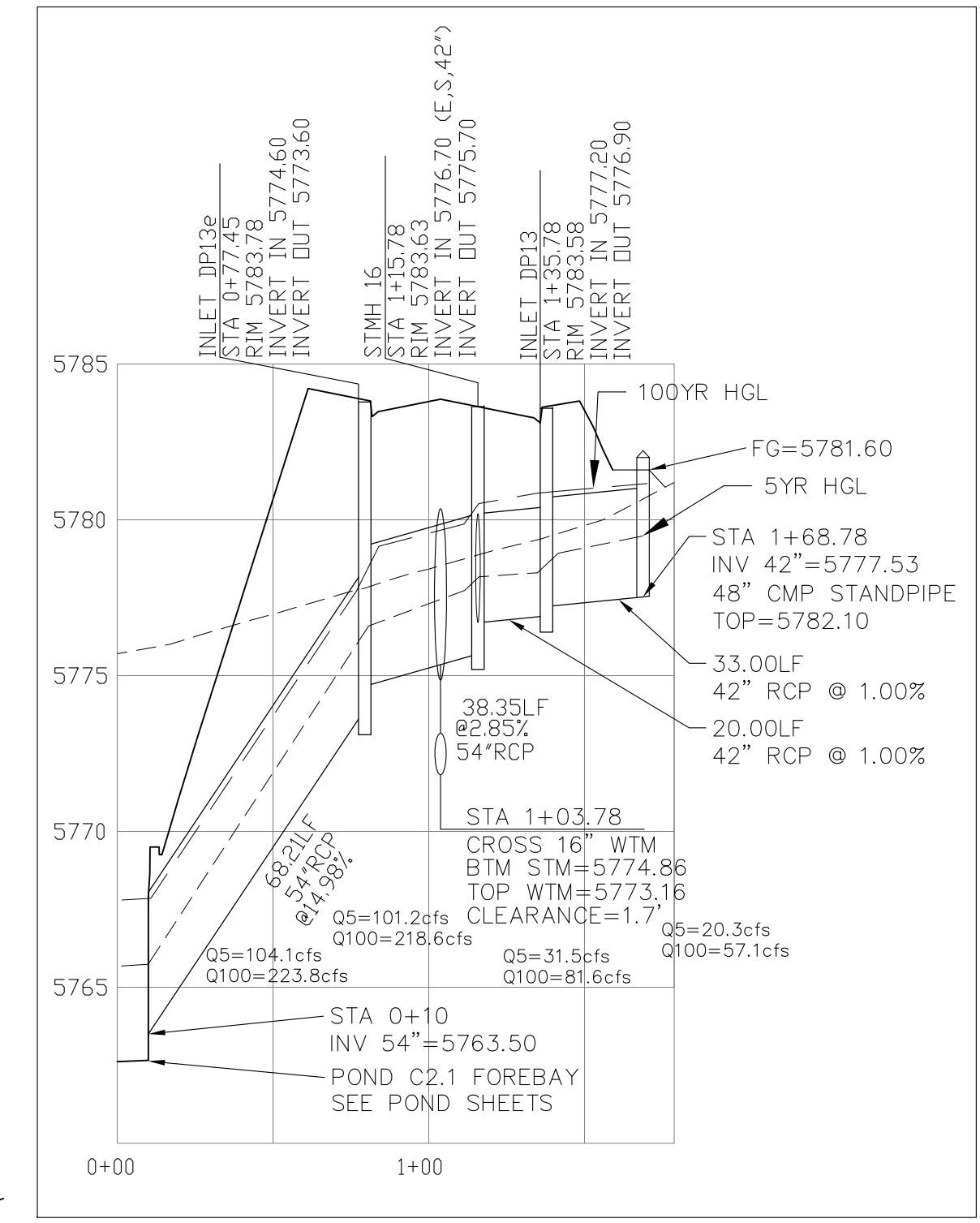
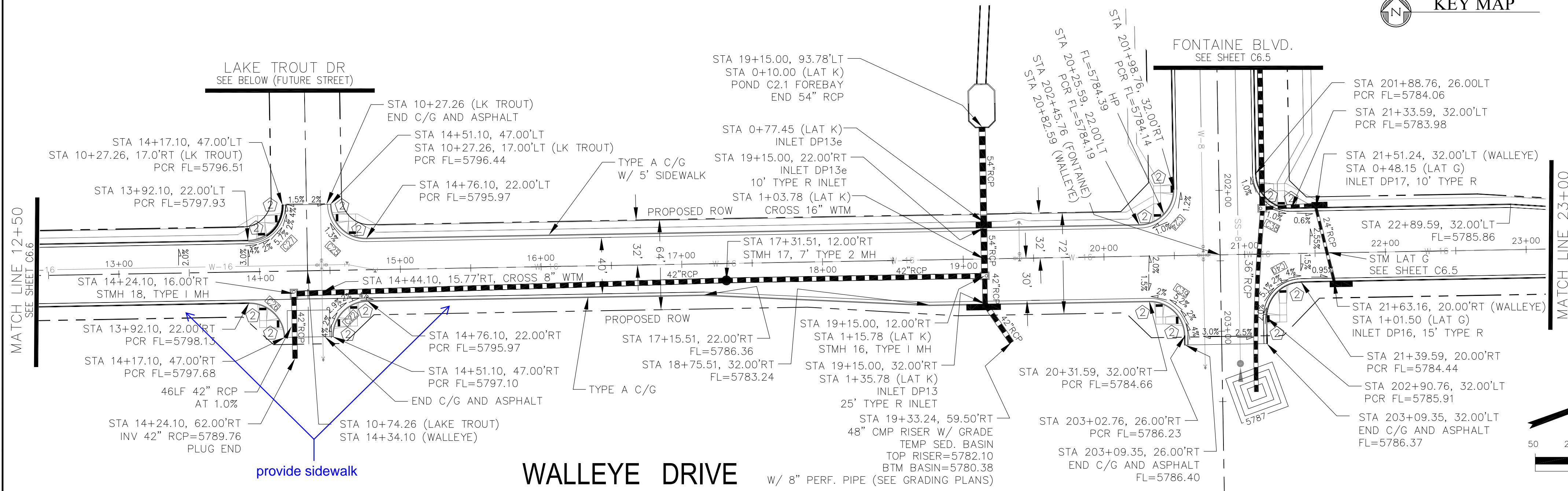
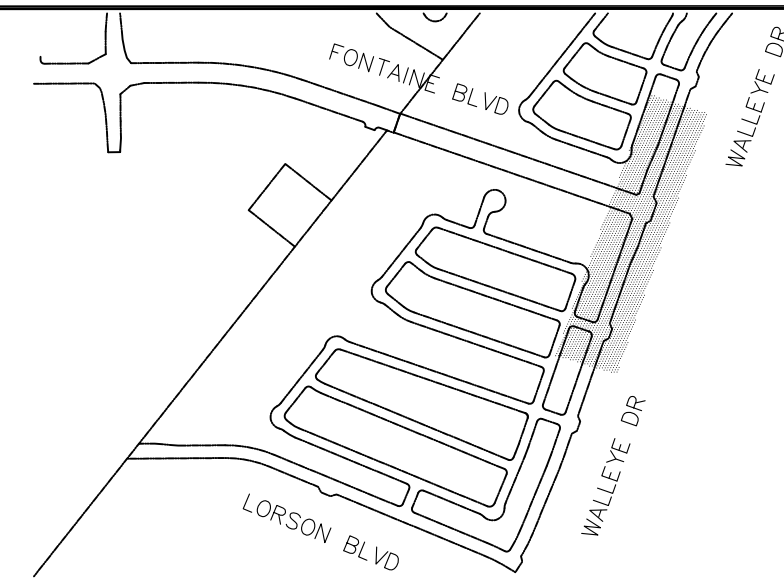
CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C4	38.25'	25.00	87°40'22"
C13	38.15'	25.00	87°25'38"
C28	39.27'	25.00	90°00'00"
C29	39.27'	25.00	90°00'00"
C30	39.27'	25.00	90°00'00"
C31	39.27'	25.00	90°00'00"



- NOTES
1. ALL SPOT ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE NOTED.
  2. SEE EARLY GRADING PLAN FOR GRADING INFORMATION.
  3. ALL STORM SEWER SHALL BE CLASS III RCP.
  4. ALL MHS SHALL BE TYPE 1 UNLESS OTHERWISE NOTED.

- 1 CURVE DATA ID
- 2 PEDESTRIAN RAMP, SEE SHEET C10.1
- 3 CURB/GUTTER FLOW LINE POINTS

CURVE	LENGTH	RADIUS	DELTA
C22	39.27'	25.00	90°00'00"
C24	39.27'	25.00	90°00'00"
C25	39.27'	25.00	90°00'00"
C26	39.27'	25.00	90°00'00"
C27	39.27'	25.00	90°00'00"
C38	39.27'	25.00	90°00'00"
C39	39.27'	25.00	90°00'00"
C40	39.27'	25.00	90°00'00"



**CORE ENGINEERING GROUP**  
 15004 151st Avenue S.E.  
 P.O. Box 719 5701100  
 CONTACT: RICHARD L. SCHINDLER, P.E.  
 EMAIL: Rich@ceg1.com

DATE: \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_  
 NO: \_\_\_\_\_

PREPARED FOR: **LORSON, LLC**  
 212 N. WAHATCH AVE, SUITE 301  
 COLORADO SPRINGS, COLORADO 80903  
 CONTACT: JEFF MARK

PROJECT: **THE HILLS COLLECTOR STREET CONSTRUCTION**  
 FONTAINE BLVD - GRAYLING DR  
 LORSON BLVD - WALLEYE DR - LAMPREY DR  
 COLORADO SPRINGS, COLORADO

DRAWN: RLS  
 DESIGNED: RLS  
 CHECKED: RLS

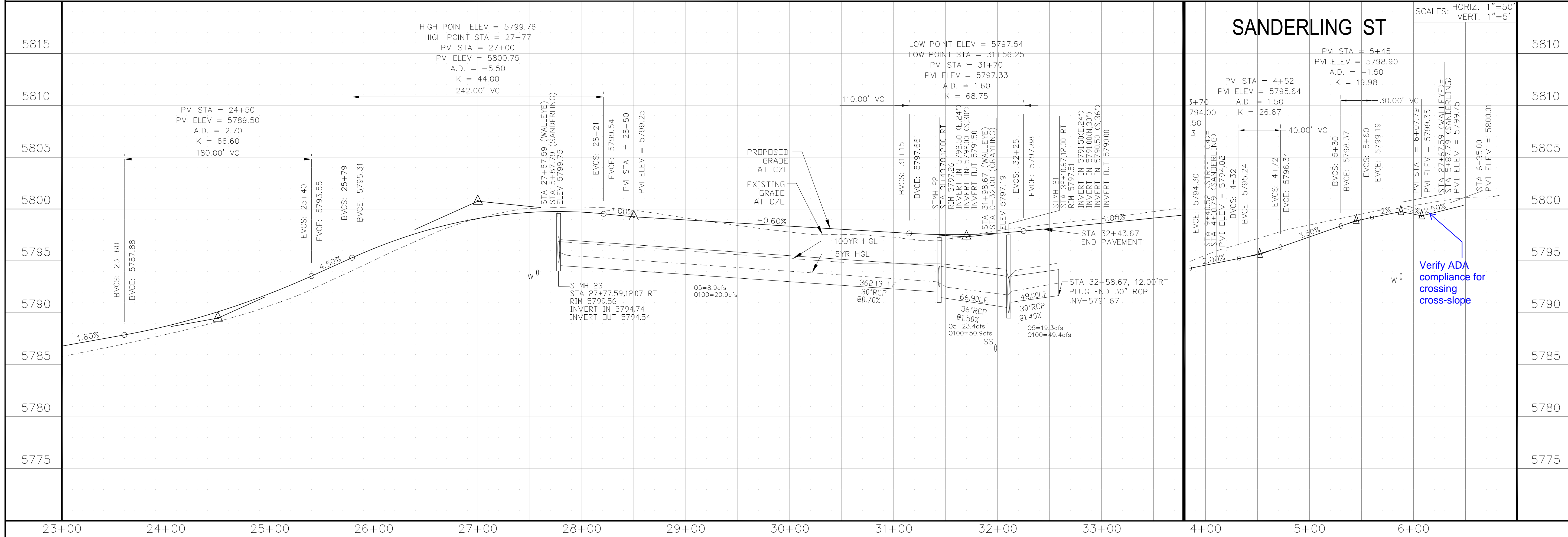
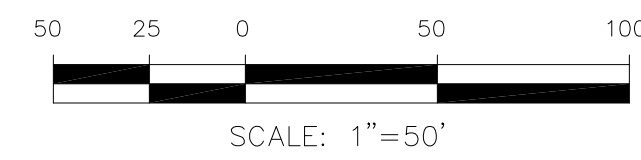
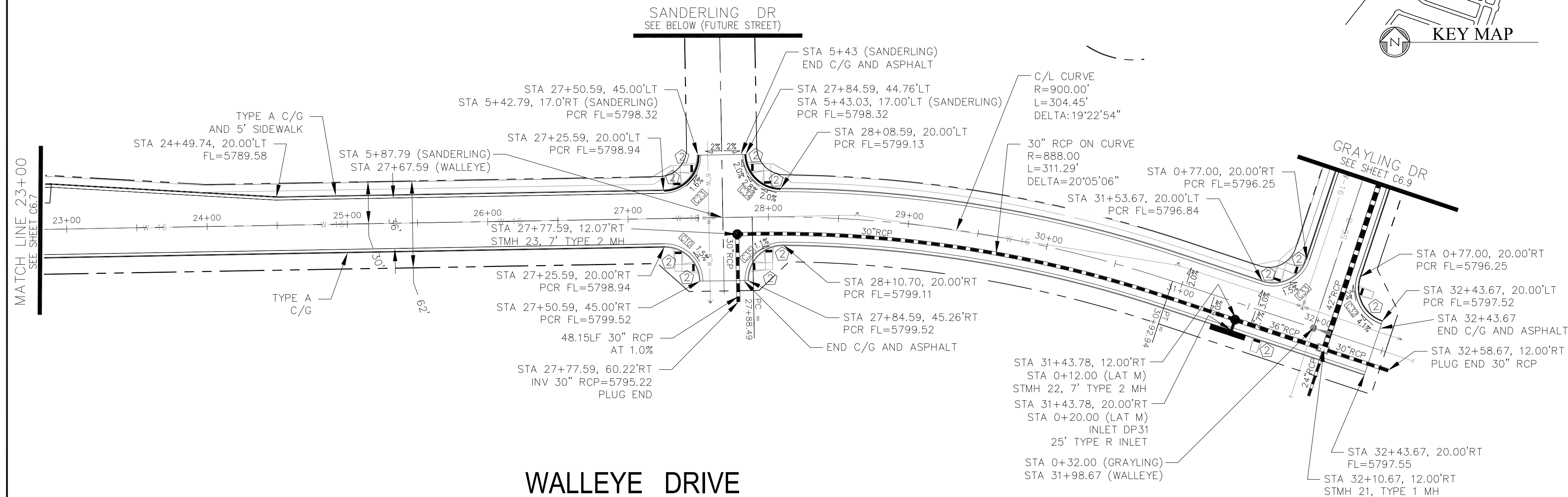
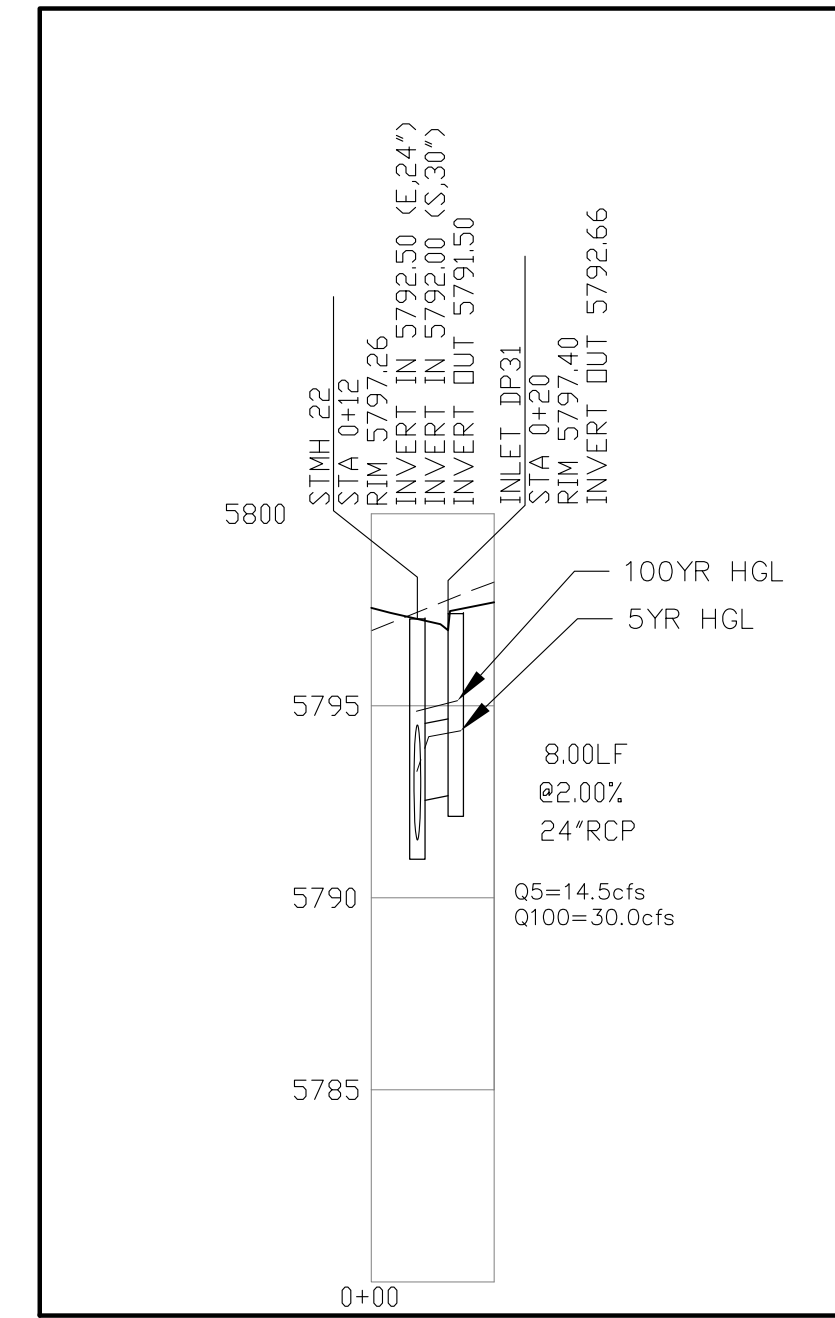
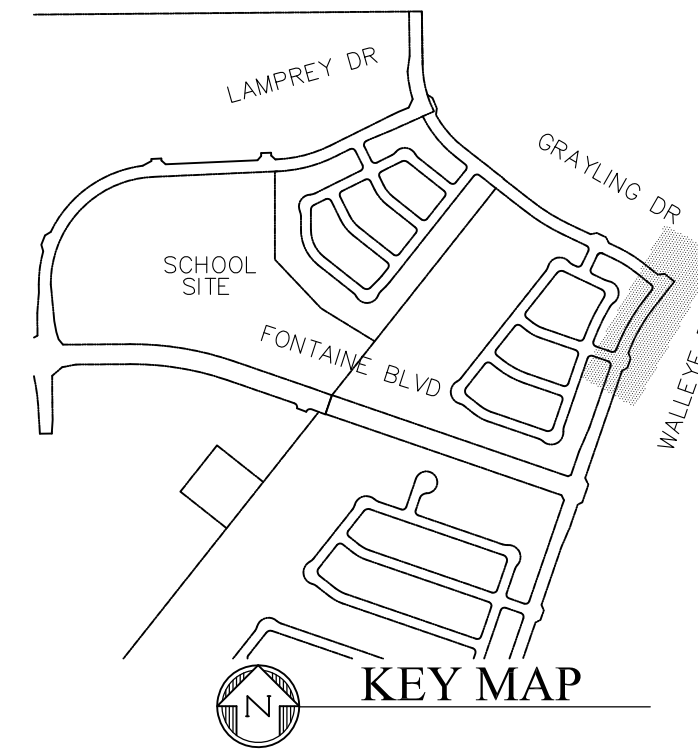
**STREET & STORM SEWER PLAN/PROFILE**  
**WALLEYE DR & LAKE TROUT DR**  
**STA 12+50 TO STA 23+00**

DATE: JUNE 1, 2020  
 PROJECT NO. 100.061  
 SHEET NUMBER **C6.7**  
 TOTAL SHEETS: 58

- NOTES
1. ALL SPOT ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE NOTED.
  2. SEE EARLY GRADING PLAN FOR GRADING INFORMATION.
  3. ALL STORM SEWER SHALL BE CLASS III RCP.
  4. ALL MHS SHALL BE TYPE 1 UNLESS OTHERWISE NOTED.

- ① CURVE DATA ID
- ② PEDESTRIAN RAMP, SEE SHEET C10.1
- ③ CURB/GUTTER FLOW LINE POINTS

CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C10	39.27'	25.00	90°00'00"
C23	39.27'	25.00	90°00'00"
C32	39.27'	25.00	90°00'00"
C33	39.27'	25.00	90°00'00"
C34	38.71'	25.00	88°43'15"
C35	39.89'	25.00	91°24'50"



**CORE ENGINEERING GROUP**  
 15004 1ST AVENUE, SUITE 300  
 COLORADO SPRINGS, CO 80903  
 PHONE: 719.570.1100  
 CONTACT: RICHARD L. SCHINDLER, P.E.  
 EMAIL: Rich@cegi.com

DATE: \_\_\_\_\_  
 NO. \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_  
 PREPARED FOR: **LORSON, LLC**  
 212 N. WAHSATCH AVE, SUITE 301  
 COLORADO SPRINGS, COLORADO 80903  
 PROJECT: **THE HILLS COLLECTOR STREET CONSTRUCTION**  
 FONTAINE BLVD - GRAYLING DR  
 LORSON BLVD - WALLEYE DR - LAMPREY DR  
 COLORADO SPRINGS, COLORADO  
 CONTACT: JEFF MARK

DRAWN: RLS  
 DESIGNED: RLS  
 CHECKED: RLS

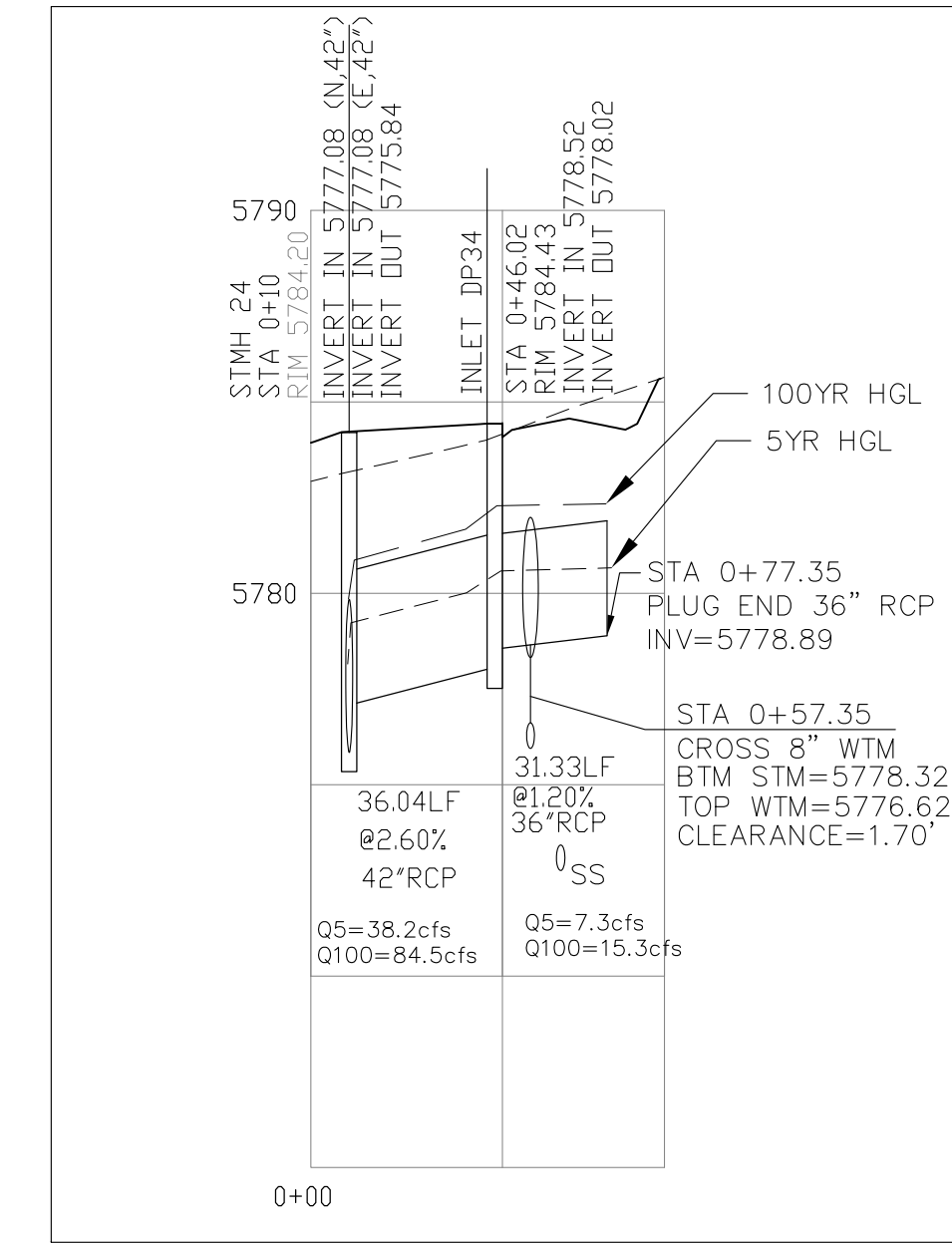
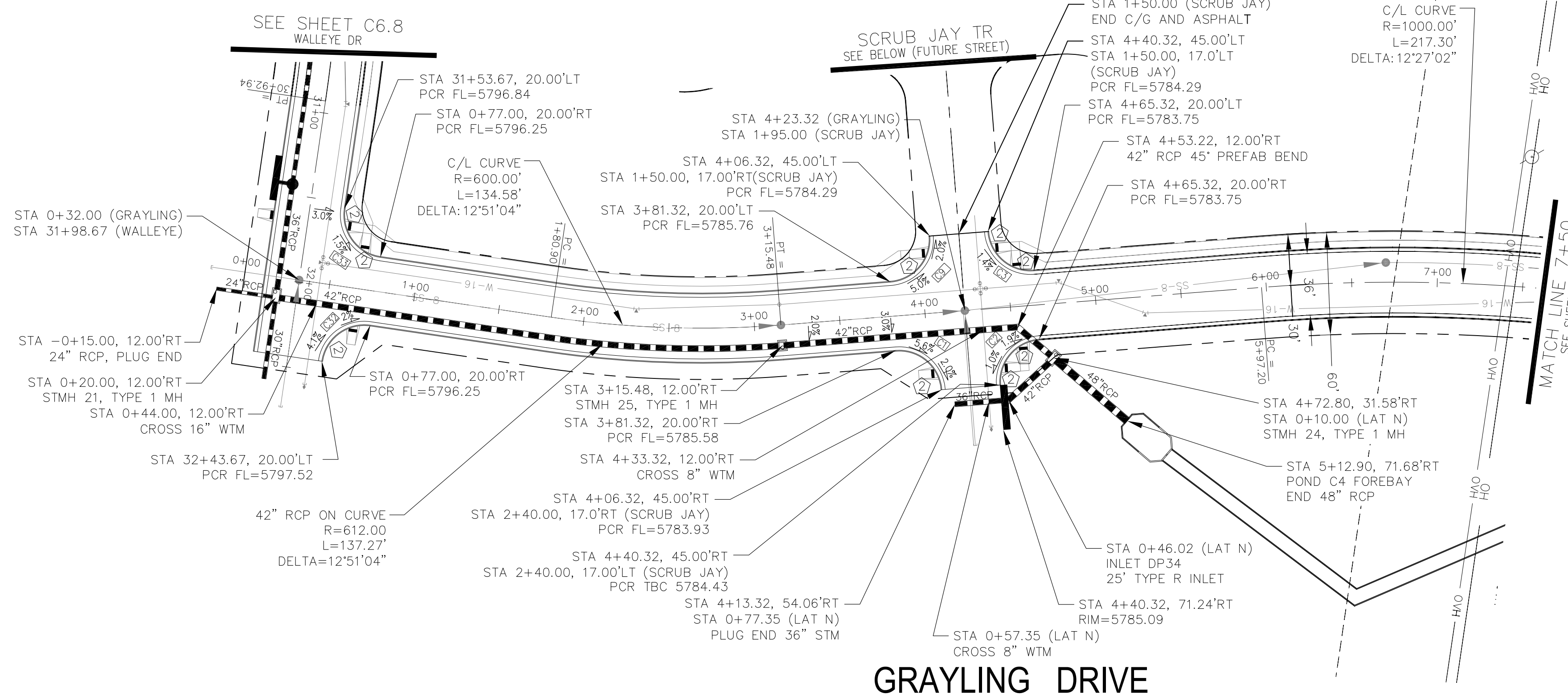
**STREET & STORM SEWER PLAN/PROFILE**  
**WALLEYE DR & SANDERLING ST**  
**STA 23+00 TO STA 32+75**

DATE: JUNE 1, 2020  
 PROJECT NO. 100.061  
 SHEET NUMBER **C6.8**  
 TOTAL SHEETS: 58

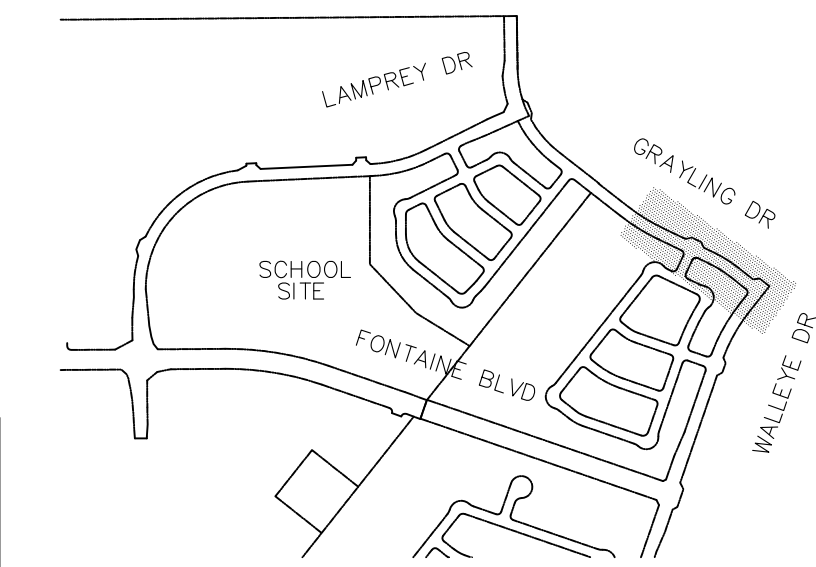
- NOTES
1. ALL SPOT ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE NOTED.
  2. SEE EARLY GRADING PLAN FOR GRADING INFORMATION.
  3. ALL STORM SEWER SHALL BE CLASS III RCP.
  4. ALL MHS SHALL BE TYPE 1 UNLESS OTHERWISE NOTED.

- 1 CURVE DATA ID
- 2 PEDESTRIAN RAMP, SEE SHEET C10.1
- 3 CURB/GUTTER FLOW LINE POINTS

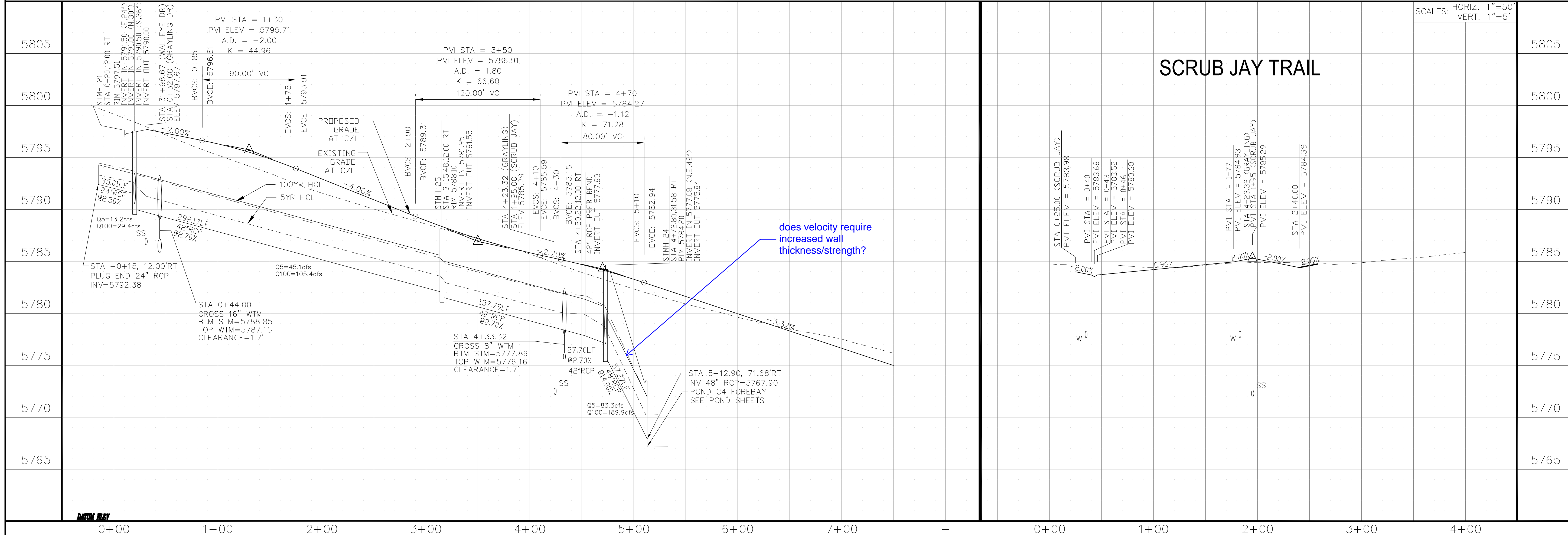
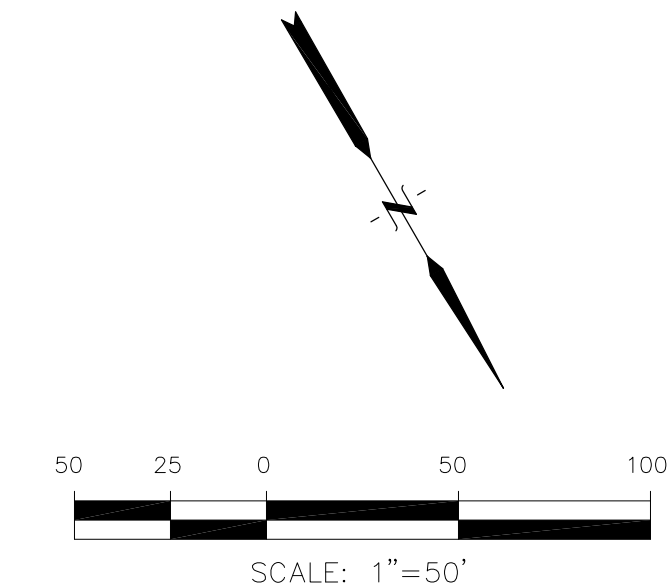
CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C1	39.27'	25.00'	90°00'00"
C2	39.27'	25.00'	90°00'00"
C3	39.27'	25.00'	90°00'00"
C9	39.27'	25.00'	90°00'00"
C32	39.27'	25.00'	90°00'00"
C33	39.27'	25.00'	90°00'00"



STM LAT 'N'



KEY MAP



SCRUB JAY TRAIL

SCALES: HORIZ. 1"=50'  
VERT. 1"=5'

**CORE ENGINEERING GROUP**  
15004 1ST AVENUE, SUITE 301  
DENVER, CO 80202  
PHONE: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@ceg1.com

DATE: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_  
NO: \_\_\_\_\_  
DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

PREPARED FOR:  
**LORSON, LLC**  
212 N. WAHSATCH AVE, SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
(719) 635-3200  
CONTACT: JEFF MARK

PROJECT:  
**THE HILLS COLLECTOR STREET CONSTRUCTION**  
FONTAINE BLVD - GRAYLING DR  
LORSON BLVD - WALLEYE DR - LAMPREY DR  
COLORADO SPRINGS, COLORADO

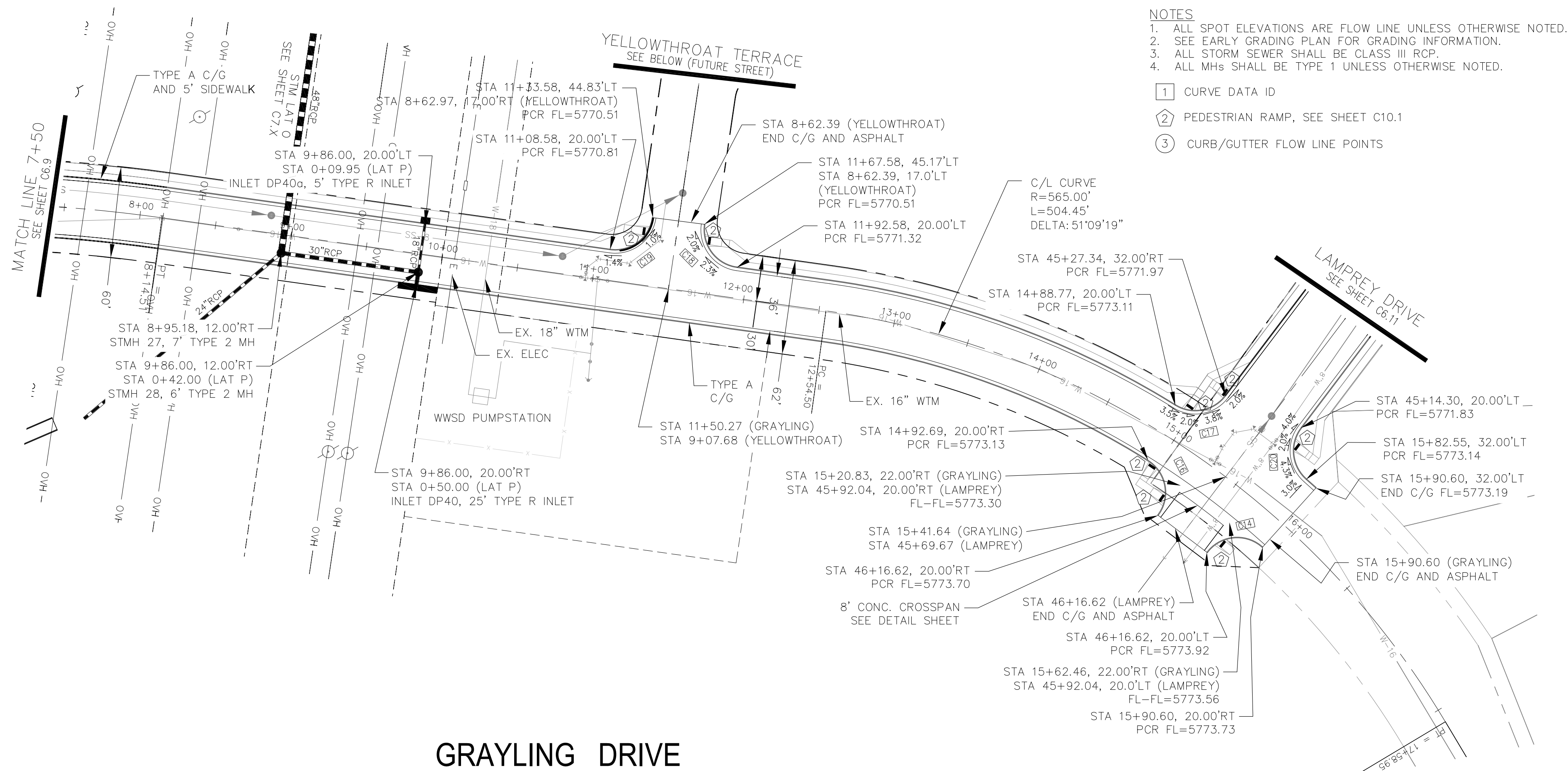
**STREET & STORM SEWER PLAN/PROFILE**  
**GRAYLING DR & SCRUB JAY TR**  
**STA 0+00 TO STA 7+50**

DATE:  
JUNE 1, 2020

PROJECT NO.  
100.061

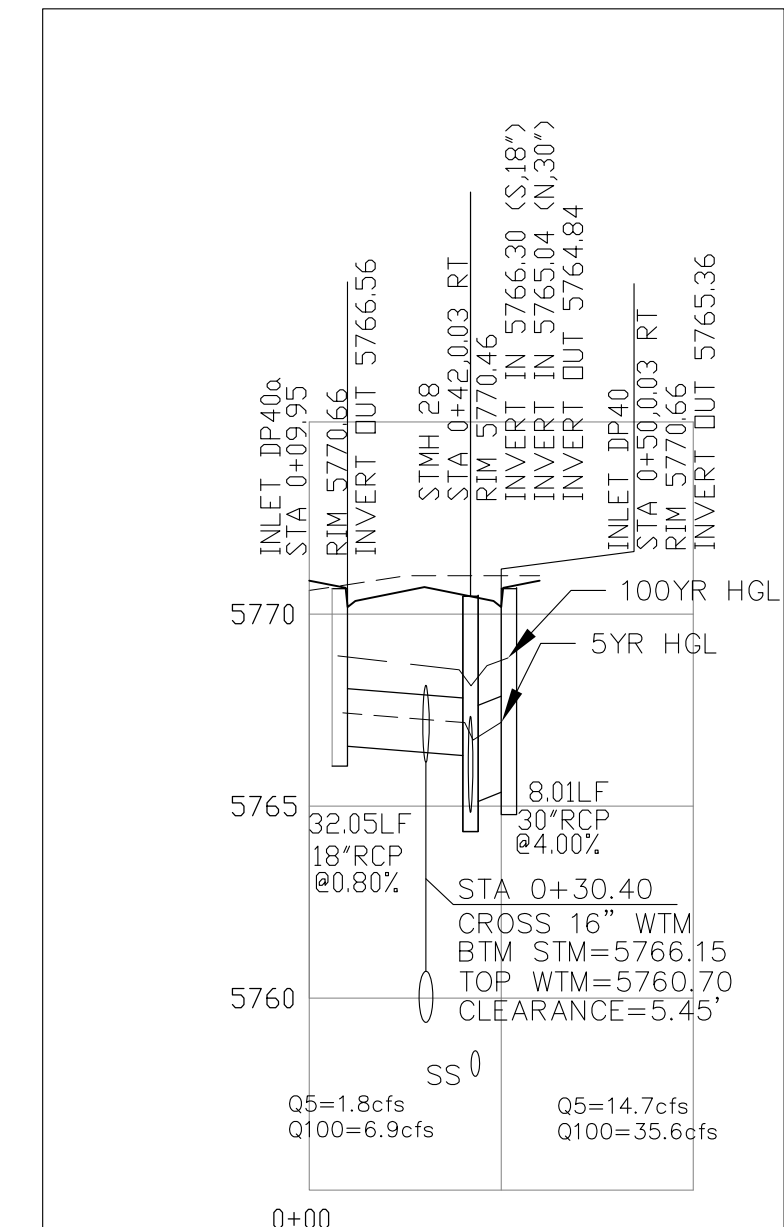
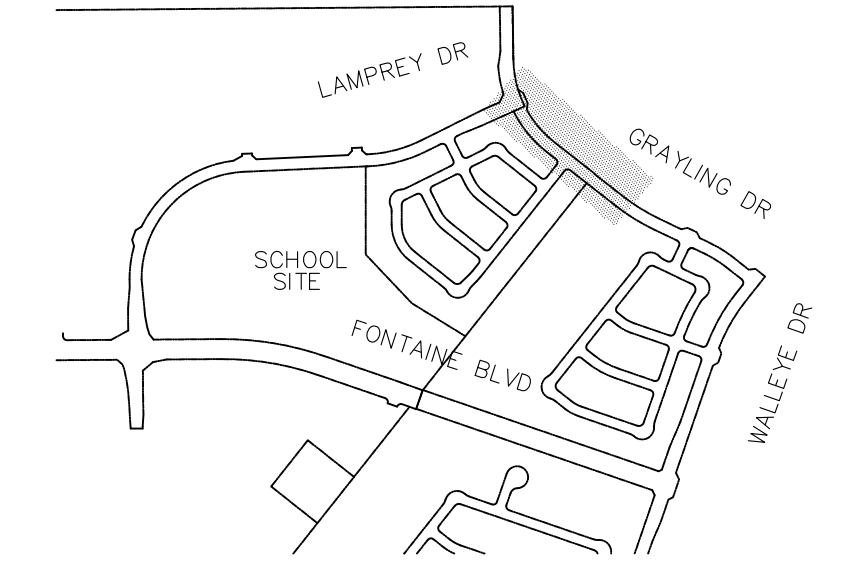
SHEET NUMBER  
**C6.9**

TOTAL SHEETS: 58



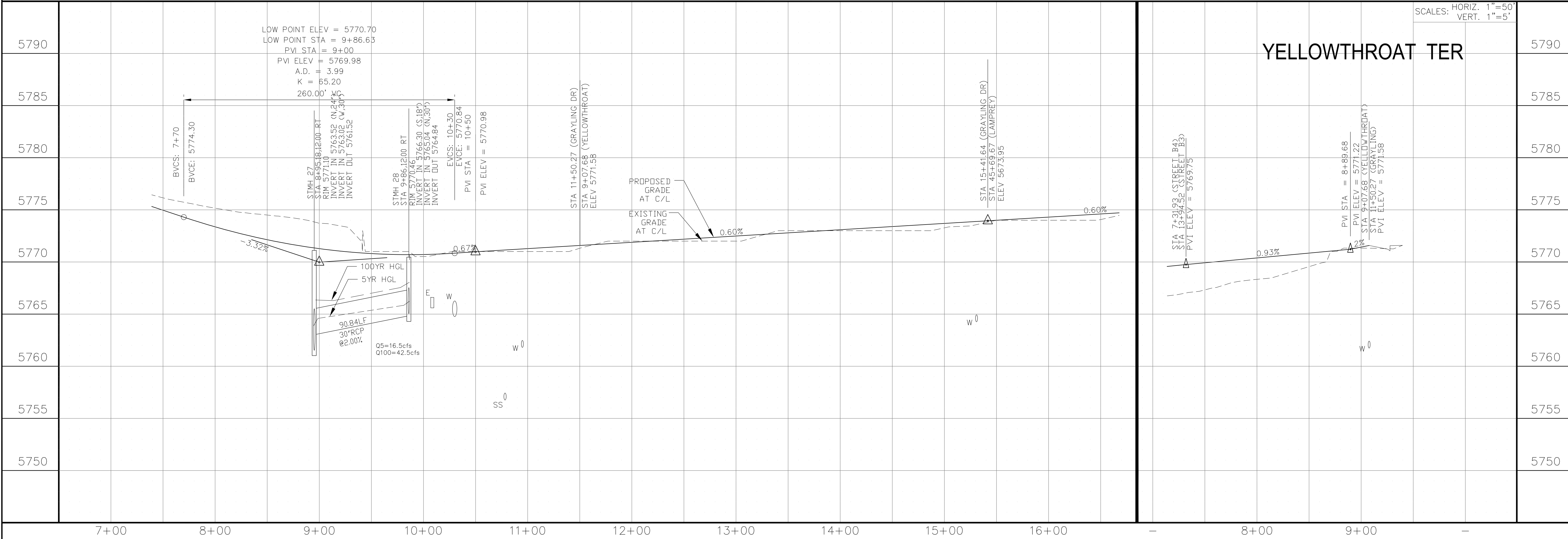
- NOTES**
1. ALL SPOT ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE NOTED.
  2. SEE EARLY GRADING PLAN FOR GRADING INFORMATION.
  3. ALL STORM SEWER SHALL BE CLASS III RCP.
  4. ALL MHS SHALL BE TYPE 1 UNLESS OTHERWISE NOTED.
- ① CURVE DATA ID
  - ② PEDESTRIAN RAMP, SEE SHEET C10.1
  - ③ CURB/GUTTER FLOW LINE POINTS

CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C14	41.44'	25.00	94°57'52"
C16	41.44'	25.00	94°57'52"
C17	36.93'	25.00	84°38'18"
C18	39.44'	25.00	90°24'02"
C19	39.10'	25.00	89°35'58"
C20	37.46'	25.00	85°51'04"



**GRAYLING DRIVE**

**STM LAT 'P'**



**CORE ENGINEERING GROUP**  
 15004 1ST AVENUE, S.  
 P.O. BOX 719, FORT COLLINS, CO 80506  
 CONTACT: RICHARD L. SCHINDLER, P.E.  
 EMAIL: Rich@ceg.com

DATE: \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_  
 NO: \_\_\_\_\_

PREPARED FOR:  
**LORSON, LLC**  
 212 N. WAHSATCH AVE, SUITE 301  
 COLORADO SPRINGS, COLORADO 80903  
 CONTACT: JEFF MARK

PROJECT:  
**THE HILLS COLLECTOR STREET CONSTRUCTION**  
 FONTAINE BLVD - GRAYLING DR  
 LORSON BLVD - WALLEYE DR - LAMPREY DR  
 COLORADO SPRINGS, COLORADO

DRAWN: RLS  
 DESIGNED: RLS  
 CHECKED: RLS

**STREET & STORM SEWER PLAN/PROFILE**  
**GRAYLING DR & YELLOWTHROAT TER.**  
**STA 7+50 TO STA 16+00**

DATE:  
 JUNE 1, 2020

PROJECT NO.  
 100.061

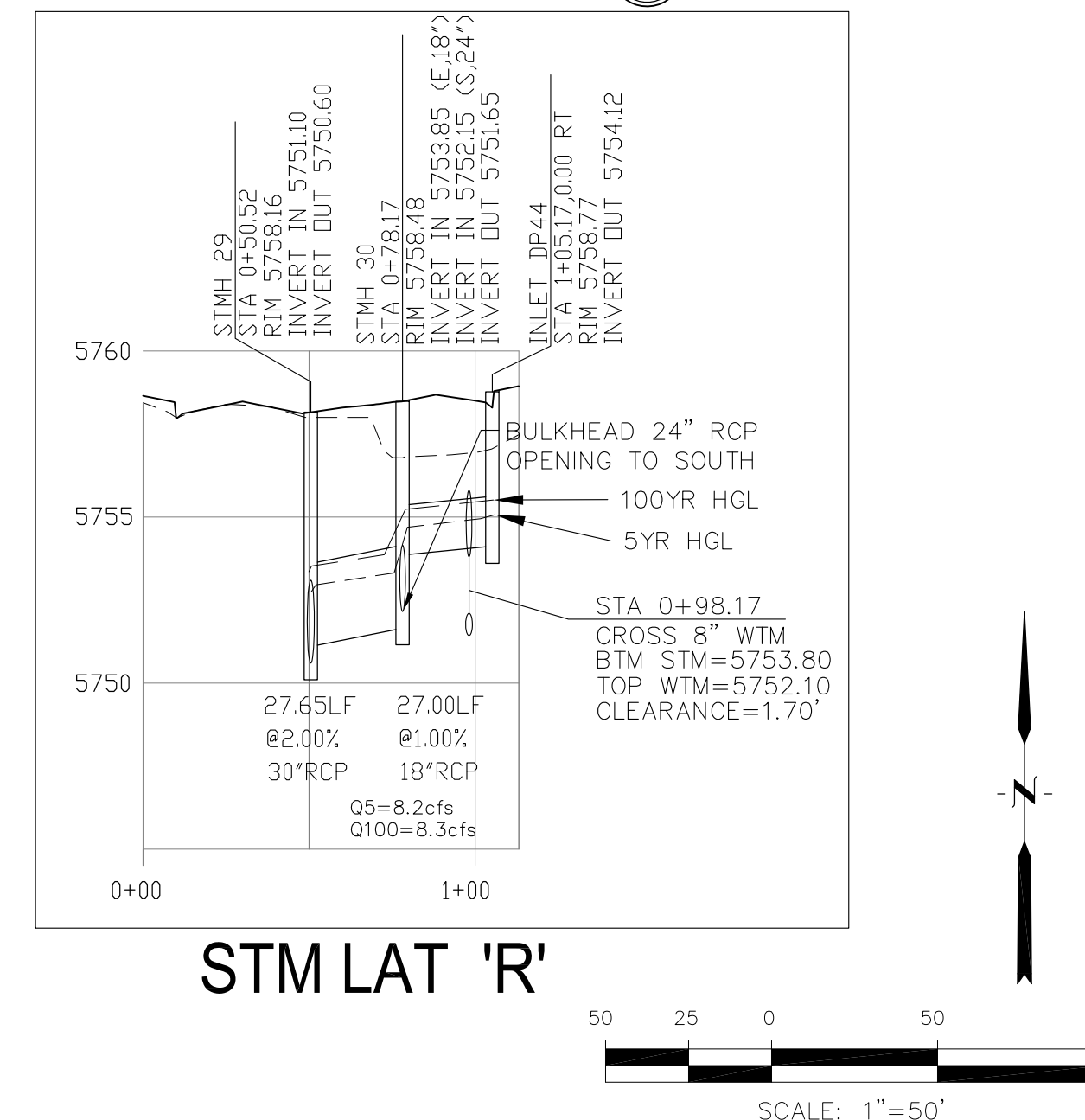
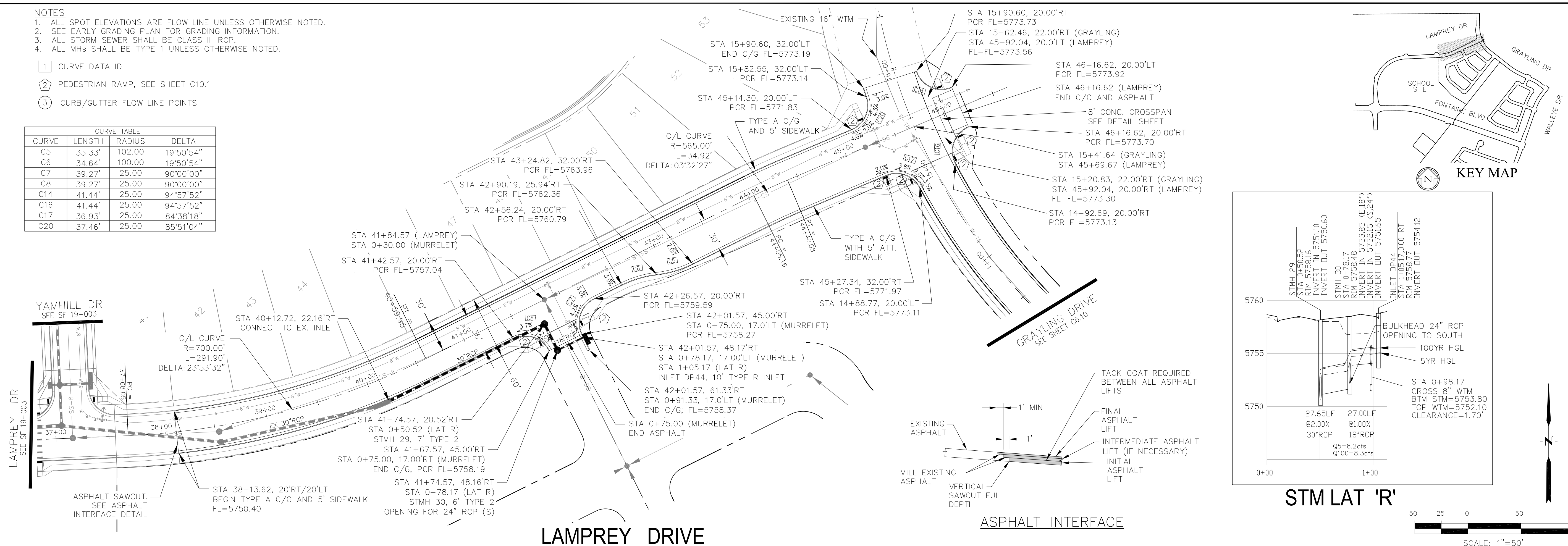
SHEET NUMBER  
**C6.10**

TOTAL SHEETS: 58

- NOTES**
1. ALL SPOT ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE NOTED.
  2. SEE EARLY GRADING PLAN FOR GRADING INFORMATION.
  3. ALL STORM SEWER SHALL BE CLASS III RCP.
  4. ALL MHS SHALL BE TYPE 1 UNLESS OTHERWISE NOTED.

- 1 CURVE DATA ID
- 2 PEDESTRIAN RAMP, SEE SHEET C10.1
- 3 CURB/GUTTER FLOW LINE POINTS

CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C5	35.33'	102.00	19°50'54"
C6	34.64'	100.00	19°50'54"
C7	39.27'	25.00	90°00'00"
C8	39.27'	25.00	90°00'00"
C14	41.44'	25.00	94°57'52"
C16	41.44'	25.00	94°57'52"
C17	36.93'	25.00	84°38'18"
C20	37.46'	25.00	85°51'04"



**CORE ENGINEERING GROUP**  
 15004 1ST AVENUE, SUITE 300  
 PLYMOUTH, CO 80455  
 CONTACT: RICHARD L. SCHINDLER, P.E.  
 EMAIL: Rich@ceg1.com

DATE: \_\_\_\_\_

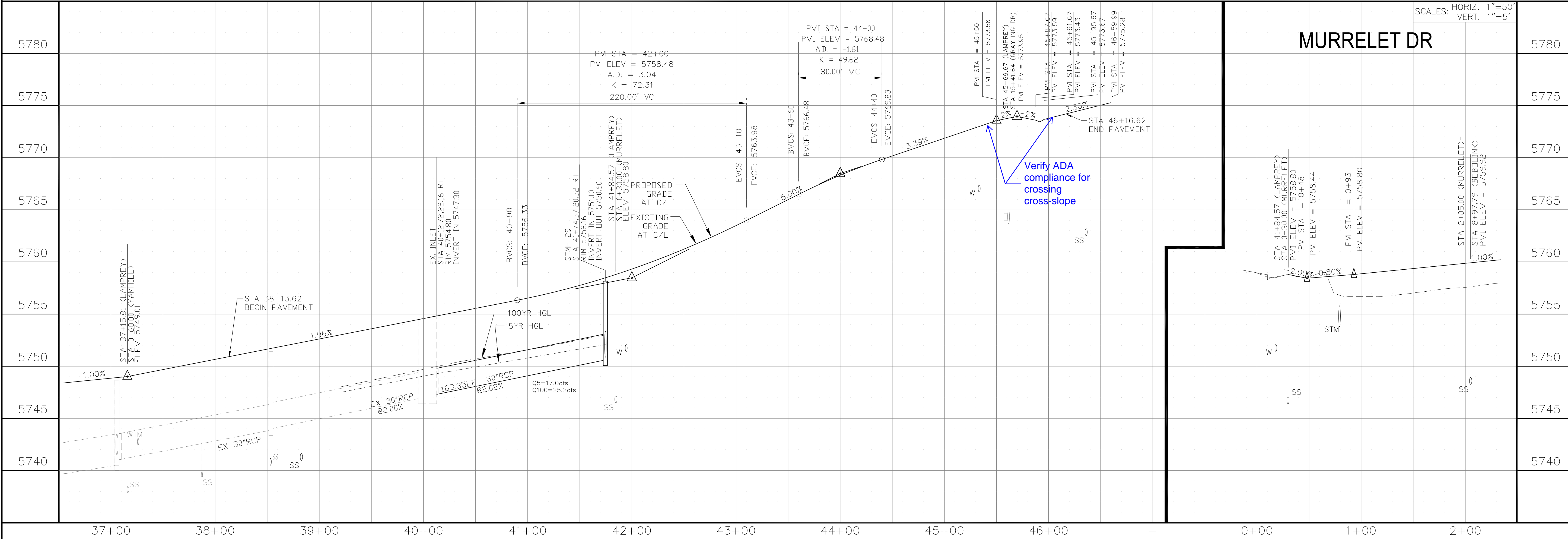
DESCRIPTION: \_\_\_\_\_

NO: \_\_\_\_\_

PREPARED FOR: **LORSON, LLC**  
 212 N. WAHATCH AVE, SUITE 301  
 COLORADO SPRINGS, COLORADO 80903  
 (719) 635-3200  
 CONTACT: JEFF MARK

PROJECT: **THE HILLS COLLECTOR STREET CONSTRUCTION**  
 FONTAINE BLVD - GRAYLING DR  
 LORSON BLVD - WALLEYE DR - LAMPREY DR  
 COLORADO SPRINGS, COLORADO

DRAWN: RLS  
 DESIGNED: RLS  
 CHECKED: RLS



**STREET & STORM SEWER PLAN/PROFILE**  
**LAMPREY DR AND MURRELET DR**  
**STA 37+15 TO STA 46+00**

DATE: JUNE 1, 2020

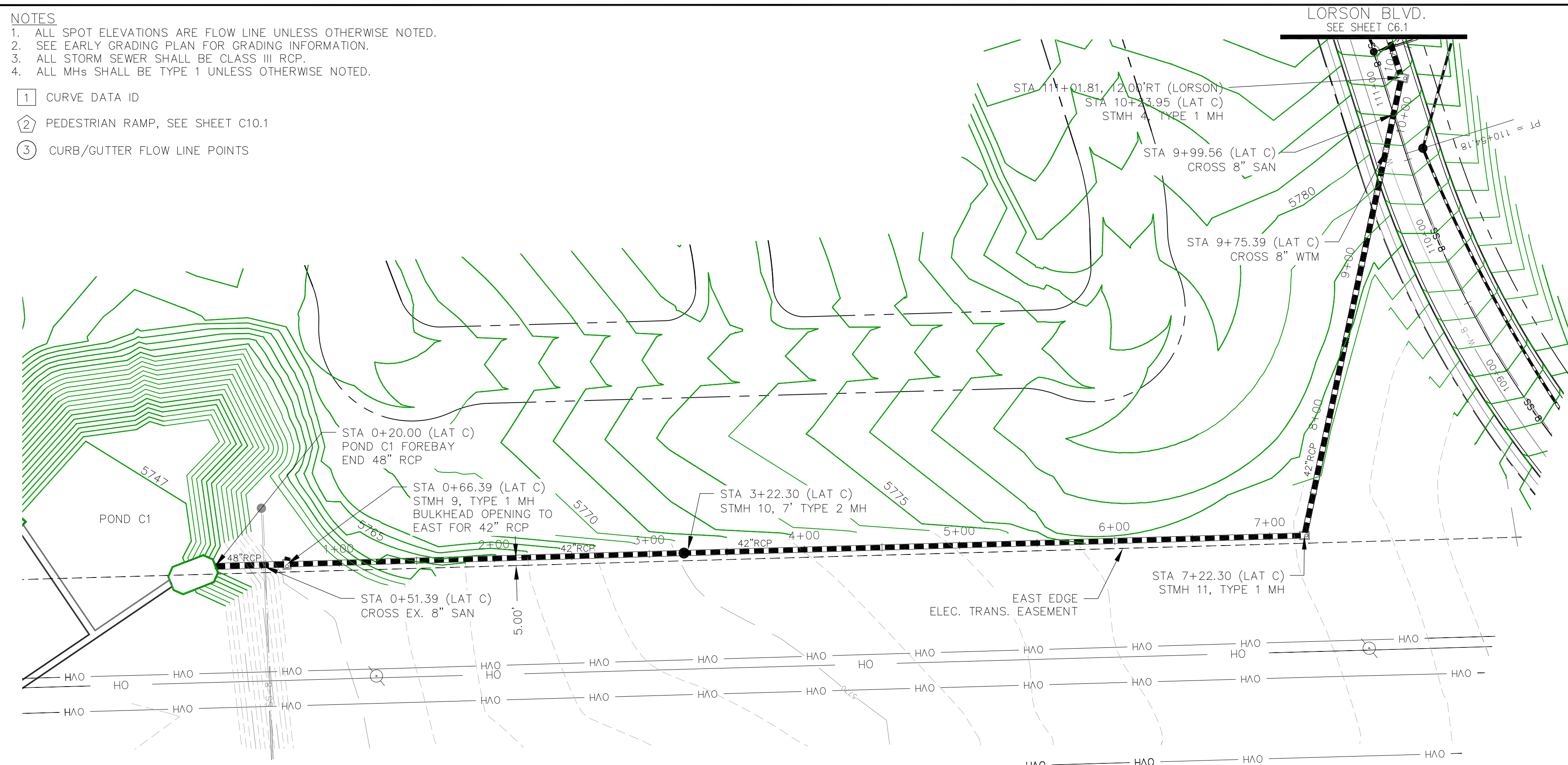
PROJECT NO. 100.061

SHEET NUMBER **C6.11**

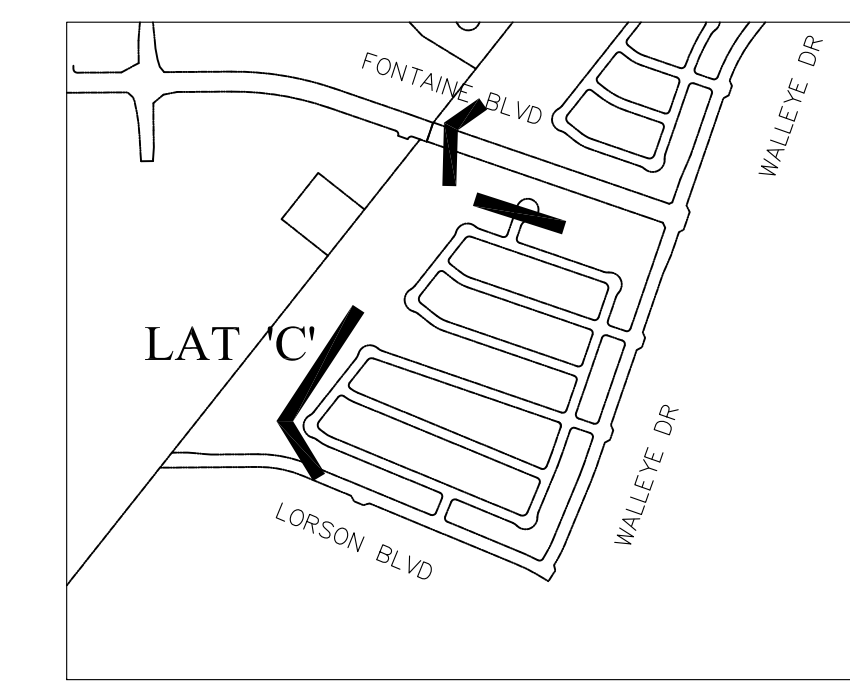
TOTAL SHEETS: 58

- NOTES
1. ALL SPOT ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE NOTED.
  2. SEE EARLY GRADING PLAN FOR GRADING INFORMATION.
  3. ALL STORM SEWER SHALL BE CLASS III RCP.
  4. ALL MHS SHALL BE TYPE 1 UNLESS OTHERWISE NOTED.

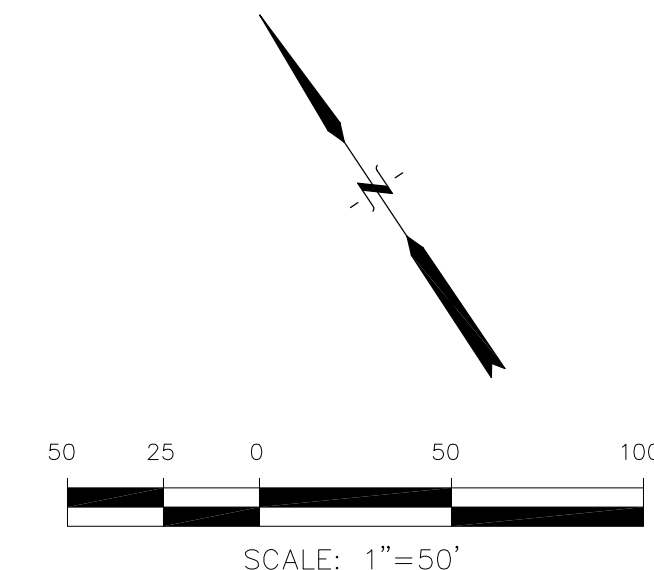
- ① CURVE DATA ID
- ② PEDESTRIAN RAMP, SEE SHEET C10.1
- ③ CURB/GUTTER FLOW LINE POINTS



STORM LATERAL 'C'



KEY MAP



**CORE**  
**ENGINEERING GROUP**  
 15004 151<sup>ST</sup> AVENUE, SUITE 300  
 COLORADO SPRINGS, COLORADO 80903  
 CONTACT: RICHARD L. SCHINDLER, P.E.  
 EMAIL: Rich@eg1.com

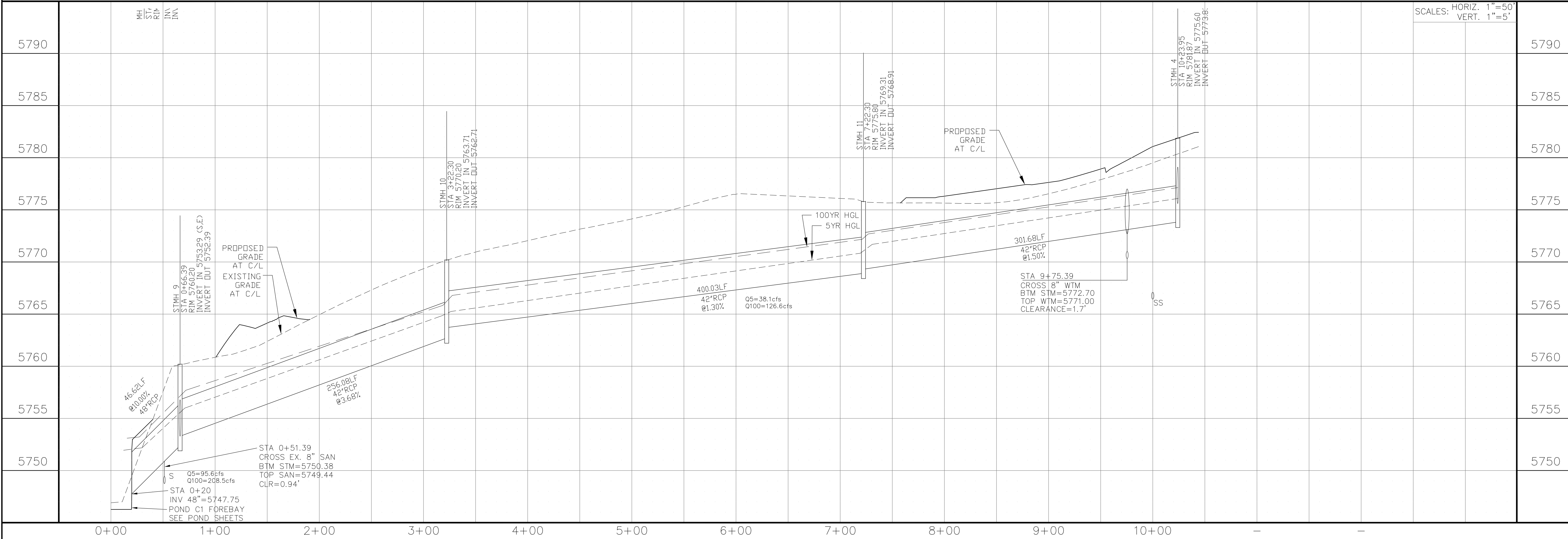
DATE: \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_  
 NO: \_\_\_\_\_

PREPARED FOR:  
**LORSON, LLC**  
 212 N. WAHSATCH AVE, SUITE 301  
 COLORADO SPRINGS, COLORADO 80903  
 CONTACT: JEFF MARK

PROJECT:  
**THE HILLS COLLECTOR**  
**STREET CONSTRUCTION**  
 FONTAINE BLVD - GRAYLING DR  
 LORSON BLVD - WALLEYE DR - LAMPREY DR  
 COLORADO SPRINGS, COLORADO

DRAWN: RLS  
 DESIGNED: RLS  
 CHECKED: RLS

STREET & STORM SEWER PLAN/PROFILE  
 STORM LATERAL 'C'



SCALES: HORIZ. 1"=50'  
 VERT. 1"=5'

DATE:  
 JUNE 1, 2020

PROJECT NO.  
 100.061

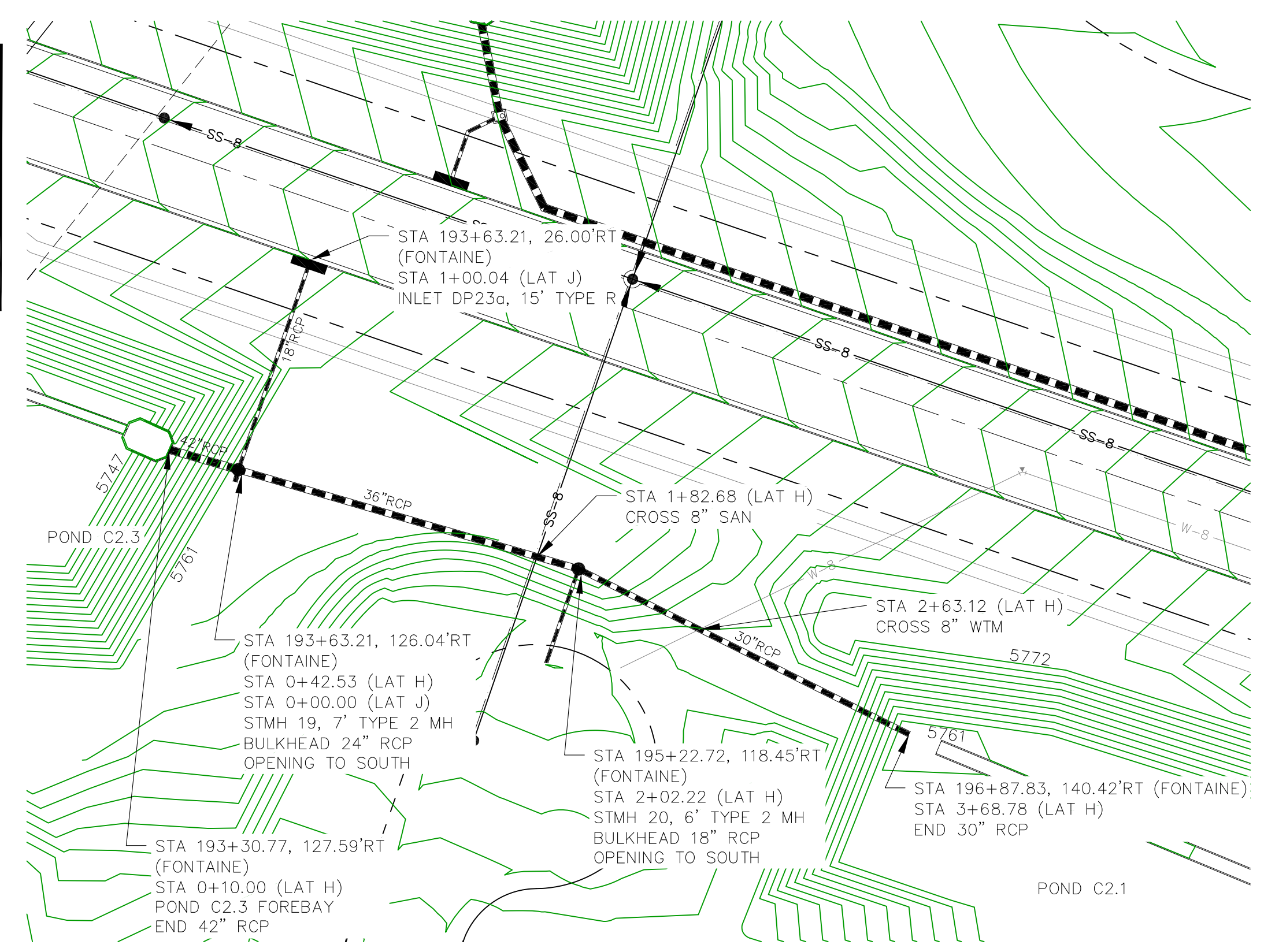
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TOTAL SHEETS: 58



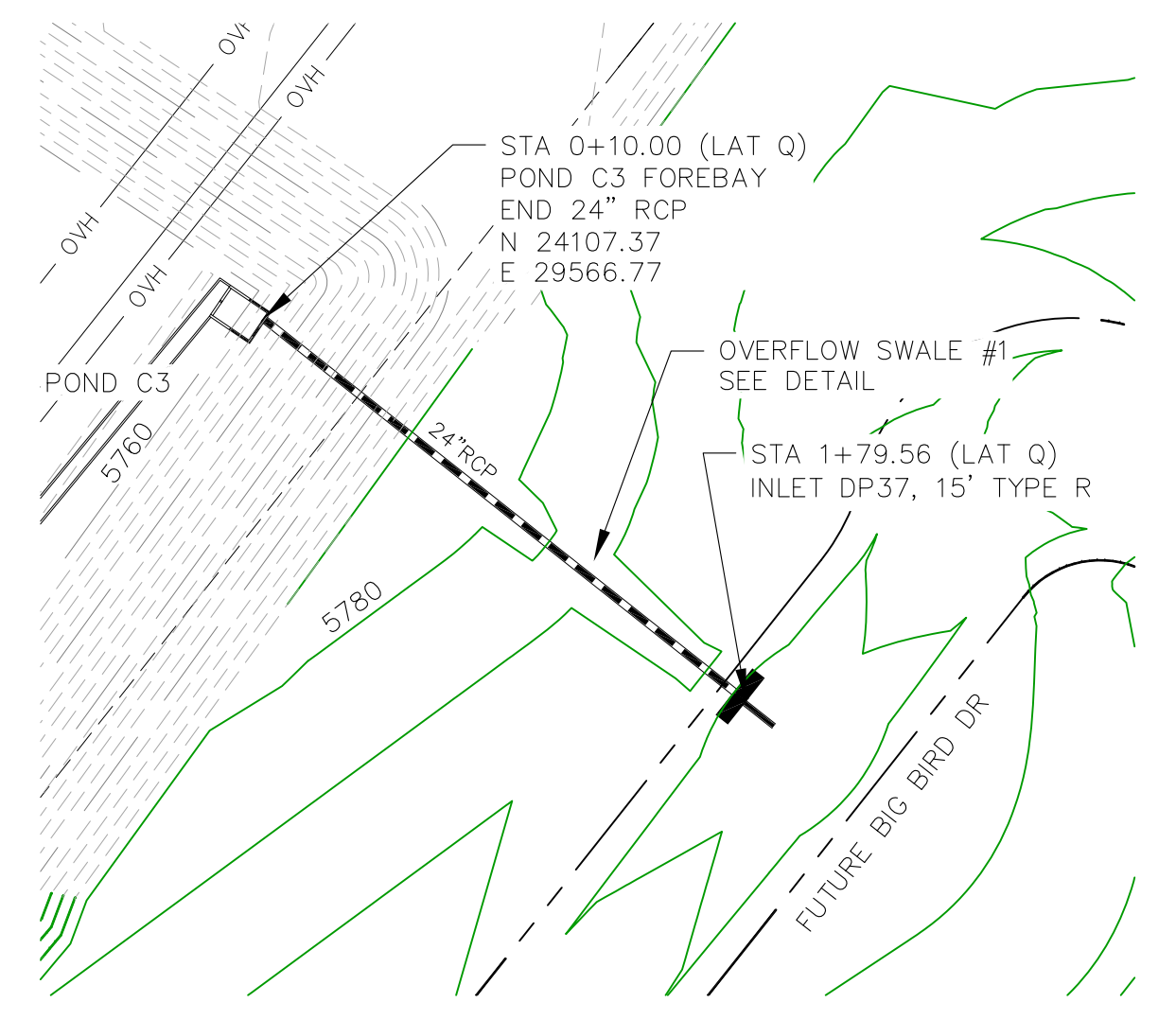
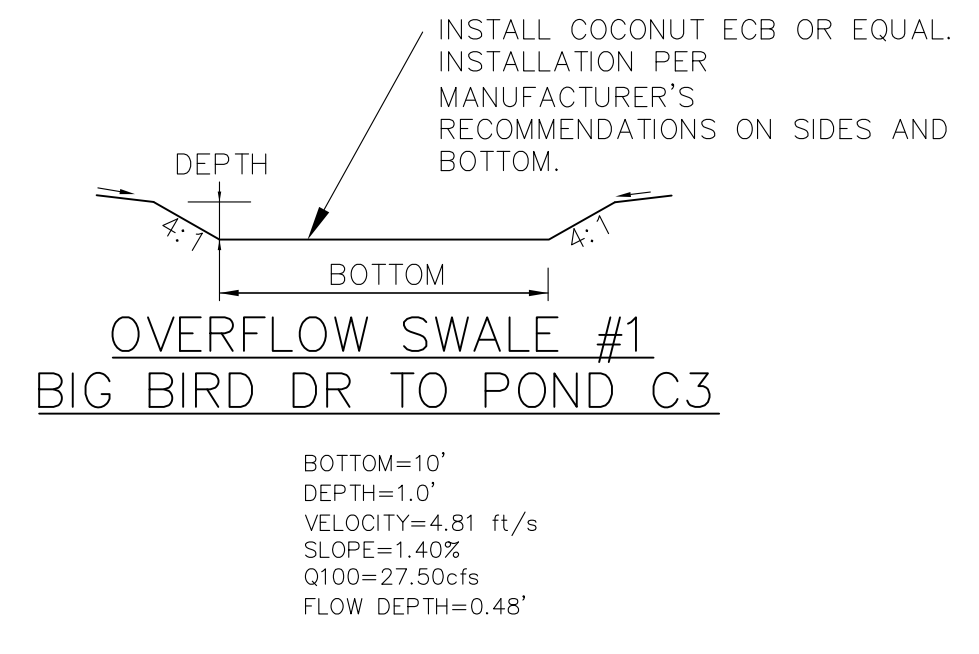


FONTAINE BLVD.  
SEE SHEET C6.4

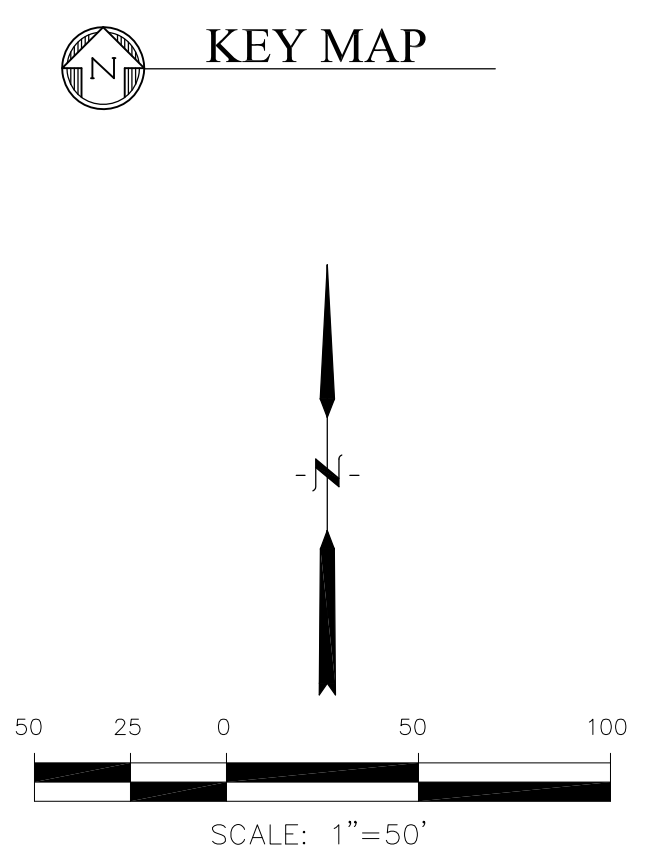
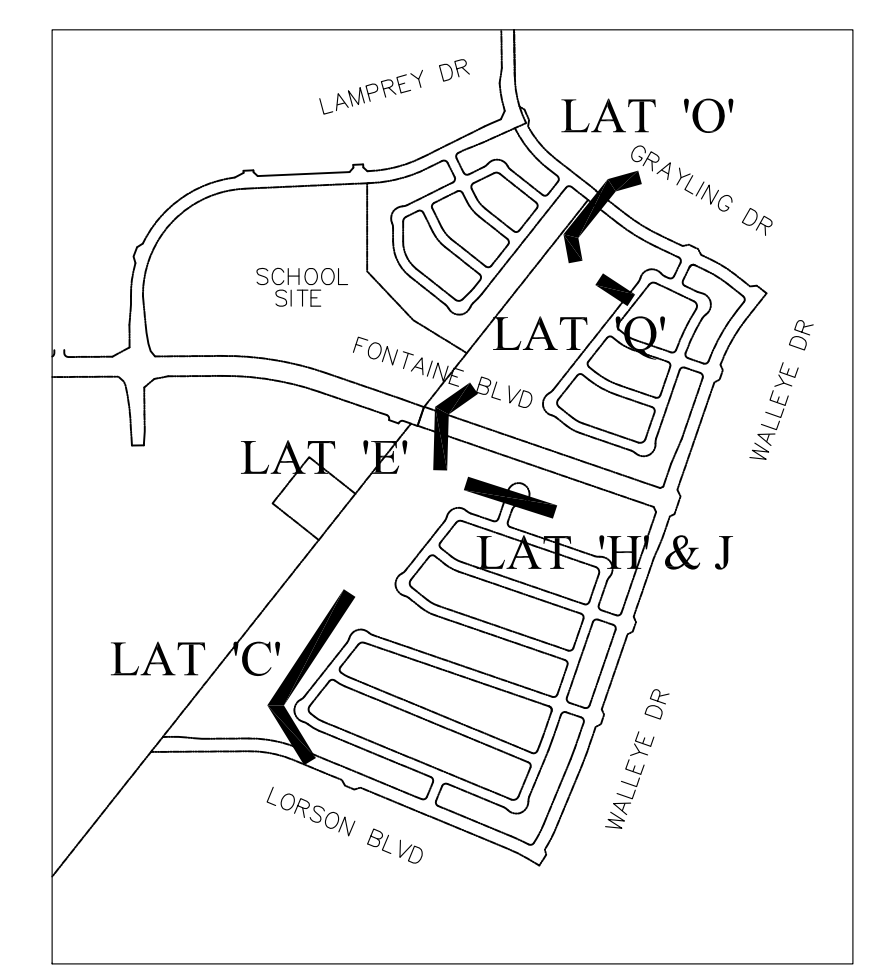


**STORM LATERAL 'H'**

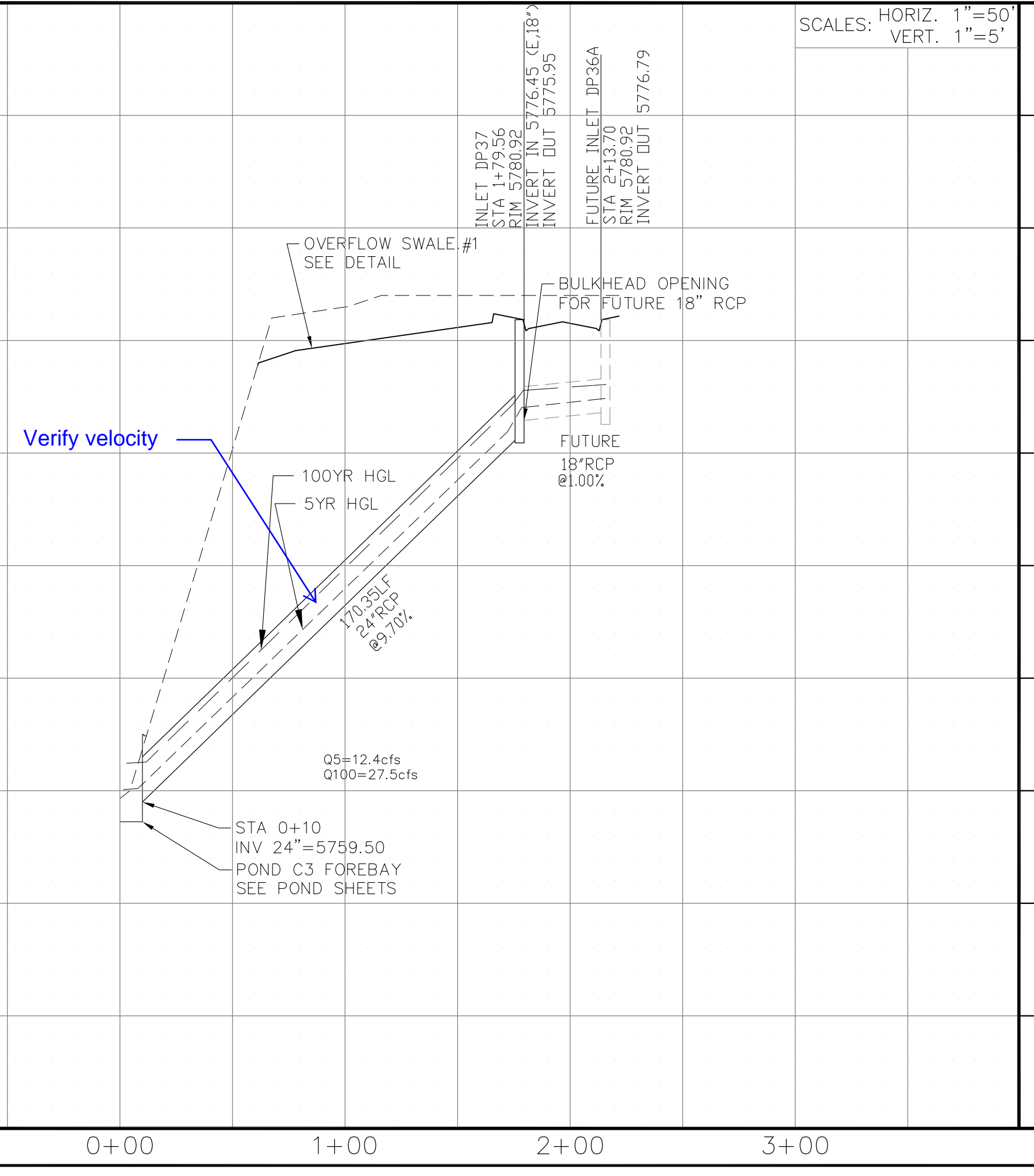
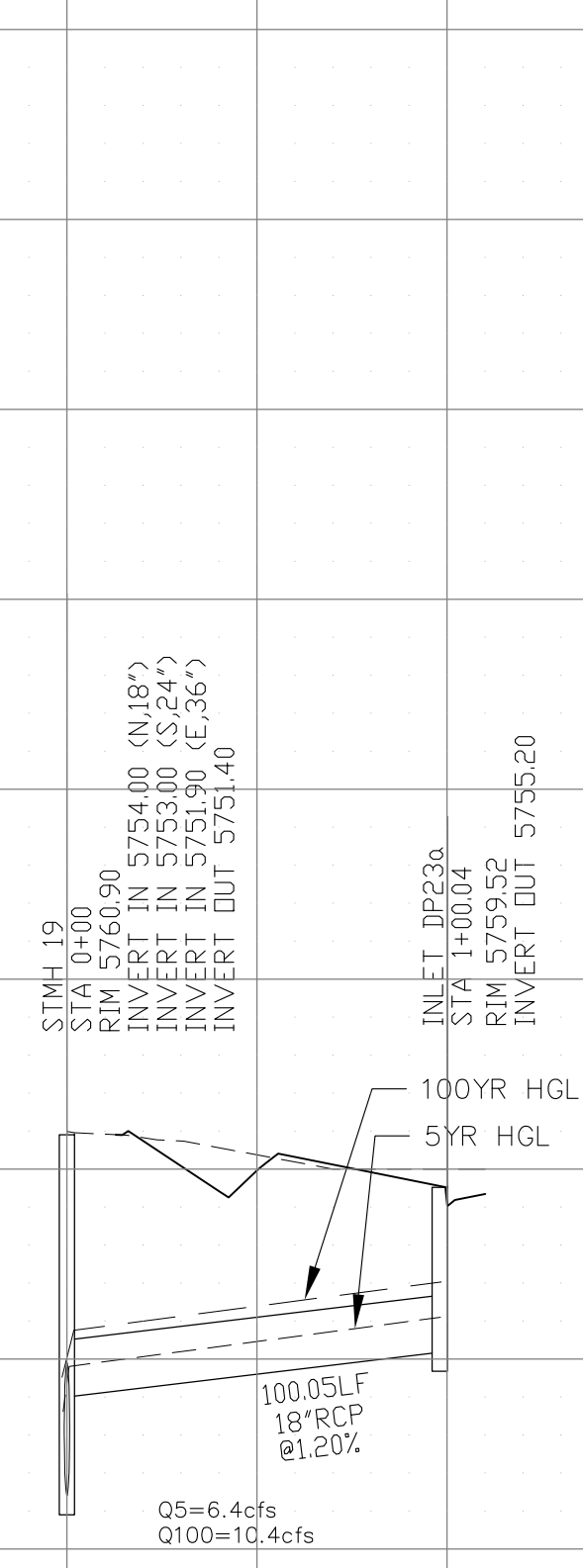
- NOTES**
1. ALL SPOT ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE NOTED.
  2. SEE EARLY GRADING PLAN FOR GRADING INFORMATION.
  3. ALL STORM SEWER SHALL BE CLASS III RCP.
  4. ALL MHS SHALL BE TYPE 1 UNLESS OTHERWISE NOTED.
- ① CURVE DATA ID
  - ② PEDESTRIAN RAMP, SEE SHEET C10.1
  - ③ CURB/GUTTER FLOW LINE POINTS



**STORM LATERAL 'Q'**



**STORM LATERAL 'J'**



STATION	ELEVATION	DESCRIPTION
0+00	5750.00	STA 0+10 INV 42"=5746.60 POND C2.3 FOREBAY SEE POND SHEETS
0+10	5755.00	STA 0+42.53 (FONTAINE) STA 0+00.00 (LAT J) STMH 19, 7' TYPE 2 MH BULKHEAD 24" RCP OPENING TO SOUTH
1+00	5755.00	STA 1+82.68 CROSS 8" SAN BTM STM=5756.92 TOP SAN=5754.37 CLEARANCE=2.55'
2+00	5760.00	STA 2+102.22 STMH 20, 6' TYPE 2 MH BULKHEAD 18" RCP OPENING TO SOUTH
2+10	5760.00	STA 2+63.12 (LAT H) CROSS 8" WTM BTM STM=5758.85 TOP WTM=5757.15 CLEARANCE=1.70'
3+00	5760.00	STA 3+68.78 (LAT H) END 30" RCP
3+10	5760.00	STA 1+79.56 (LAT Q) INLET DP37, 15' TYPE R
3+20	5760.00	STA 1+79.56 (LAT Q) INLET DP37, 15' TYPE R
3+30	5760.00	STA 1+79.56 (LAT Q) INLET DP37, 15' TYPE R
3+40	5760.00	STA 1+79.56 (LAT Q) INLET DP37, 15' TYPE R

**CORE ENGINEERING GROUP**  
15004 151<sup>ST</sup> AVENUE, S.E.  
DENVER, CO 80232  
PH: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@cgl.com

DATE: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_  
NO: \_\_\_\_\_

PREPARED FOR:  
**LORSON, LLC**  
212 N. WAHSATCH AVE, SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
CONTACT: JEFF MARK

PROJECT:  
**THE HILLS COLLECTOR STREET CONSTRUCTION**  
FONTAINE BLVD - GRAYLING DR  
LORSON BLVD - WALLEYE DR - LAMPREY DR  
COLORADO SPRINGS, COLORADO

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

**STREET & STORM SEWER PLAN/PROFILE**  
**STORM LATERAL 'H' & 'J'**  
**STORM LATERAL 'Q'**

DATE:  
JUNE 1, 2020

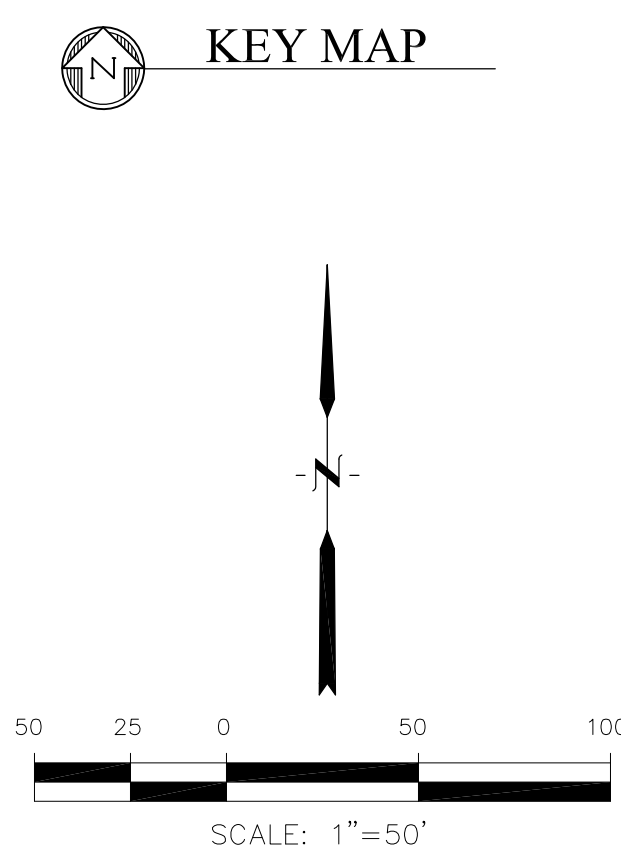
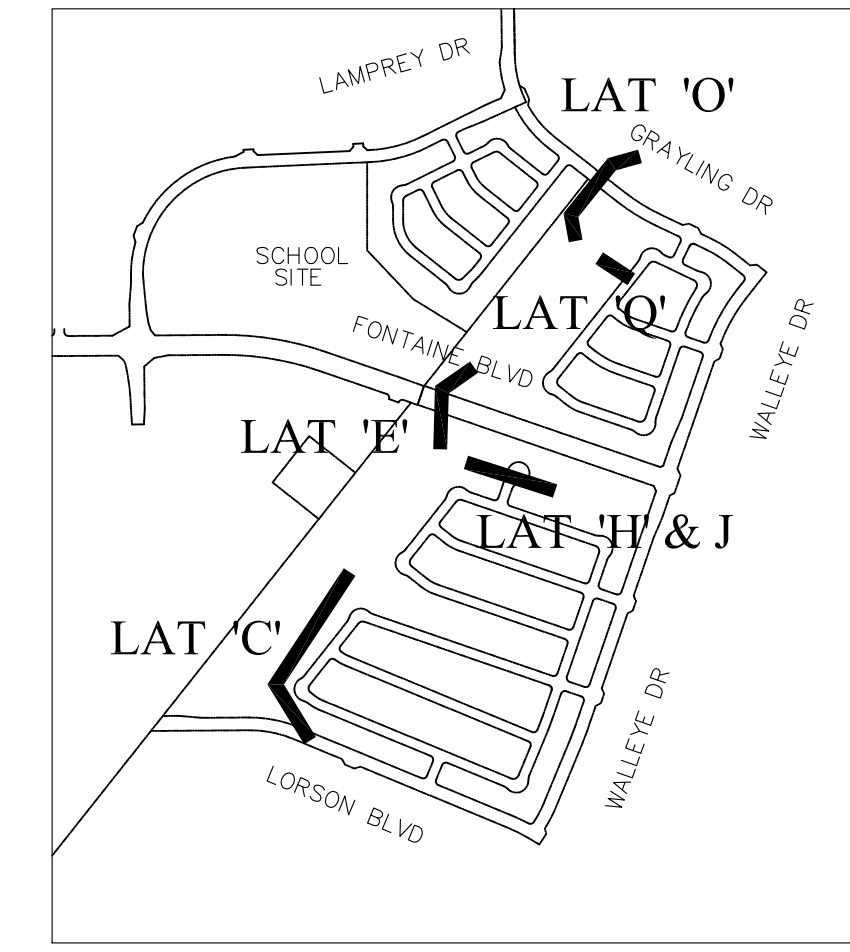
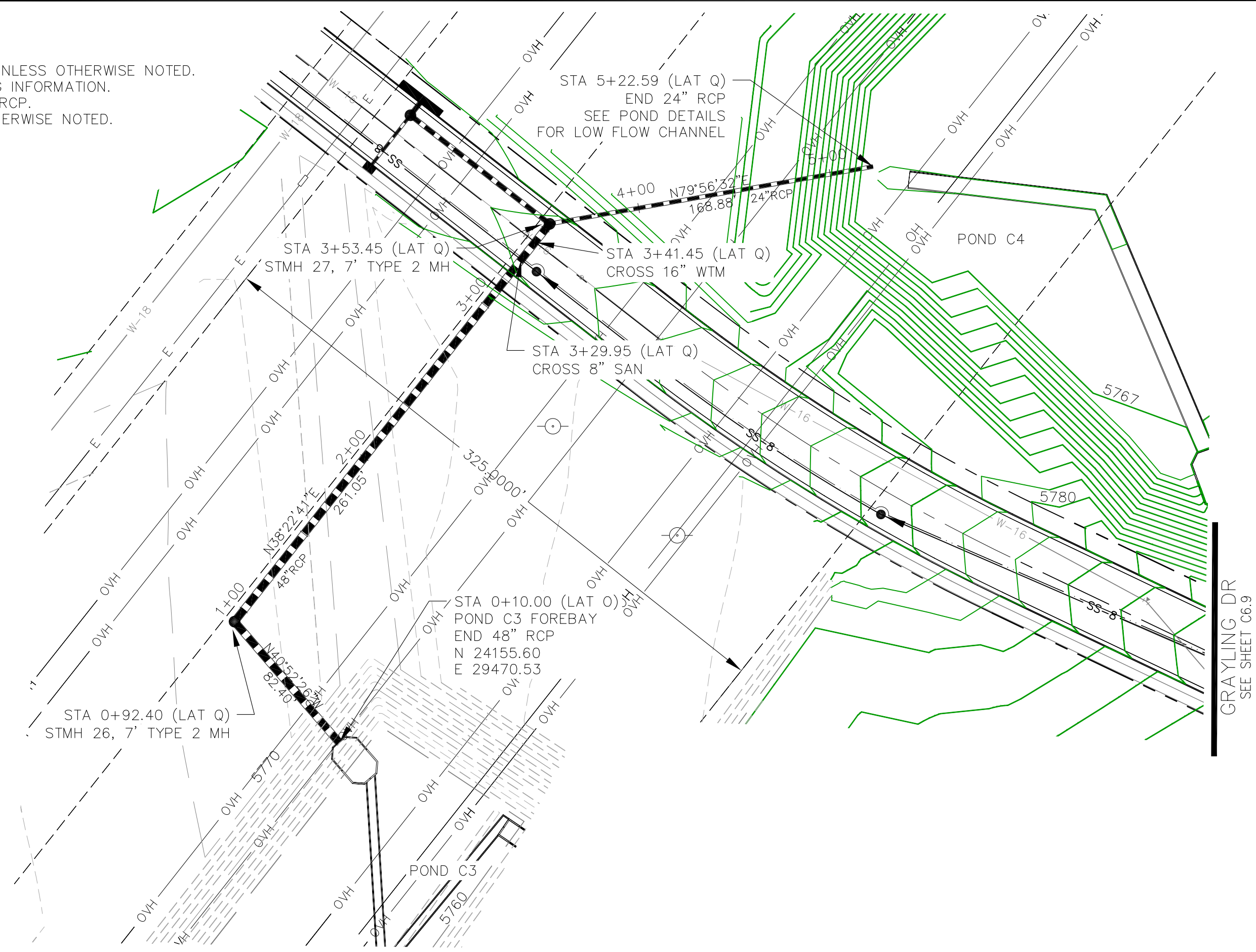
PROJECT NO.  
100.061

SHEET NUMBER  
C7.3

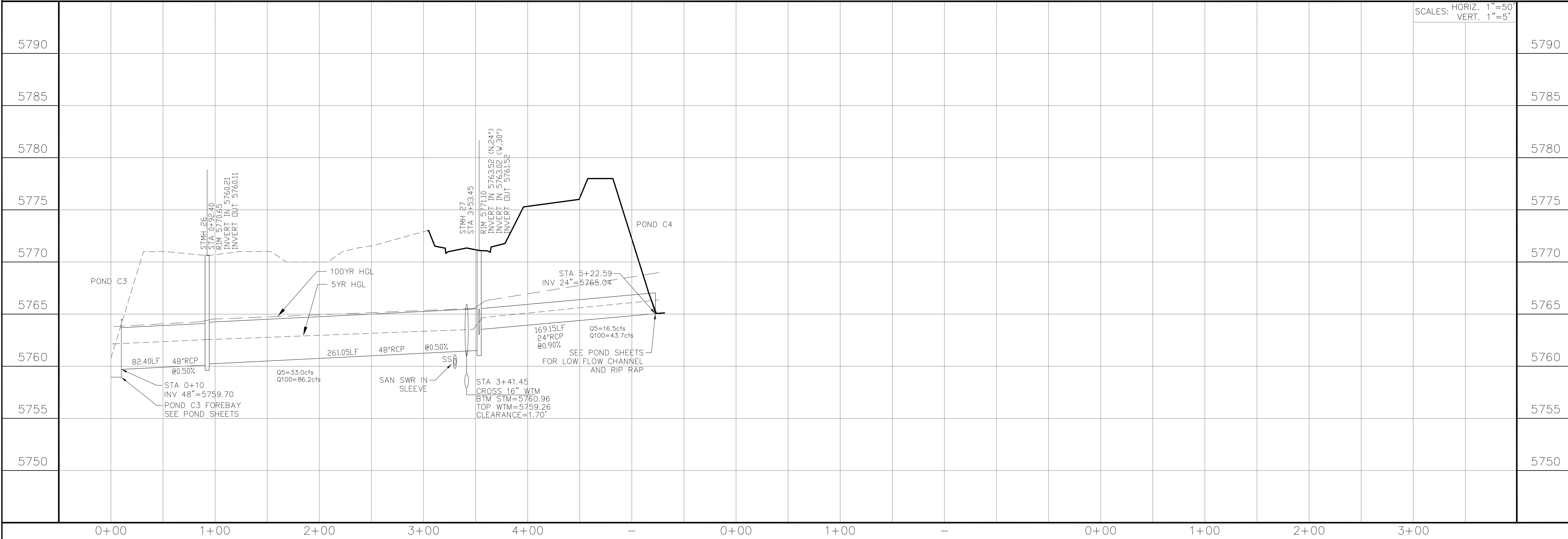
TOTAL SHEETS: 58

- NOTES
1. ALL SPOT ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE NOTED.
  2. SEE EARLY GRADING PLAN FOR GRADING INFORMATION.
  3. ALL STORM SEWER SHALL BE CLASS III RCP.
  4. ALL MHS SHALL BE TYPE 1 UNLESS OTHERWISE NOTED.

- ① CURVE DATA ID
- ② PEDESTRIAN RAMP, SEE SHEET C10.1
- ③ CURB/GUTTER FLOW LINE POINTS



**STORM LATERAL 'O'**



SCALES: HORIZ. 1"=50'  
VERT. 1"=5'

**CORE ENGINEERING GROUP**  
15004 151<sup>ST</sup> AVENUE, SUITE 300  
DENVER, CO 80202  
PHONE: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@cge1.com

PREPARED FOR:  
**LORSON, LLC**  
212 N. WAHSATCH AVE, SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
(719) 635-3200  
CONTACT: JEFF MARK

PROJECT:  
**THE HILLS COLLECTOR STREET CONSTRUCTION**  
FONTAINE BLVD - GRAYLING DR  
LORSON BLVD - WALLEYE DR - LAMPREY DR  
COLORADO SPRINGS, COLORADO

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

**STREET & STORM SEWER PLAN/PROFILE**  
**STORM LATERAL 'O'**

DATE:  
JUNE 1, 2020

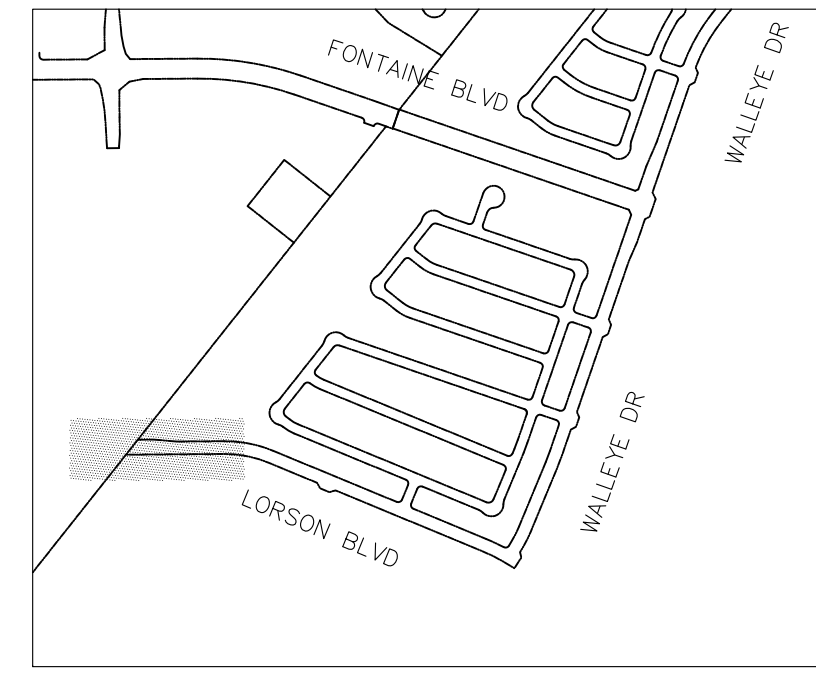
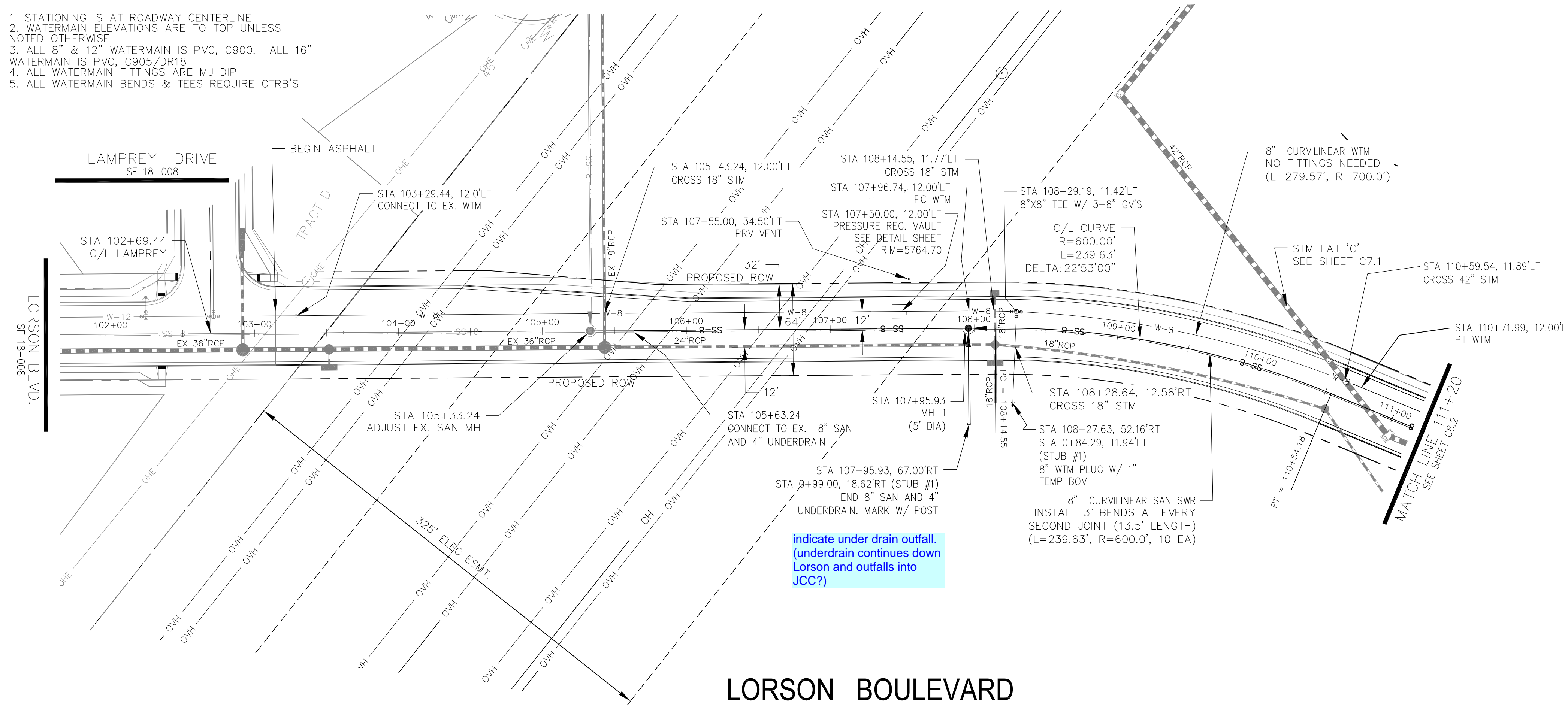
PROJECT NO.  
100.061

SHEET NUMBER  
**C7.4**

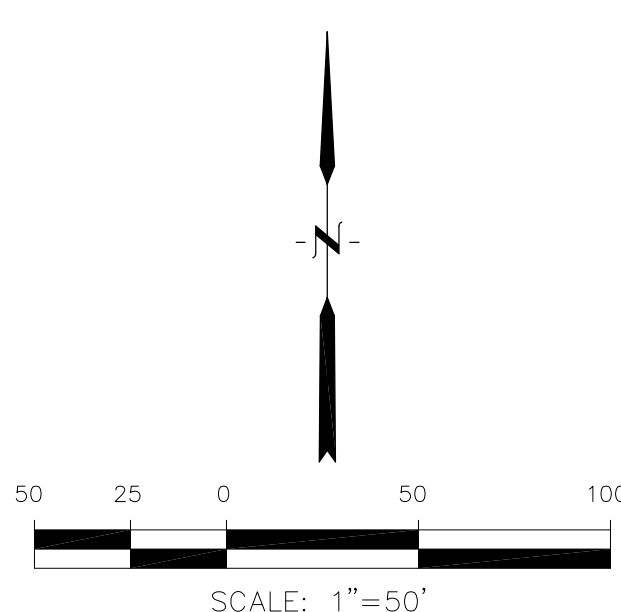
TOTAL SHEETS: 58

**NOTES**

1. STATIONING IS AT ROADWAY CENTERLINE.
2. WATERMAIN ELEVATIONS ARE TO TOP UNLESS NOTED OTHERWISE
3. ALL 8" & 12" WATERMAIN IS PVC, C900. ALL 16" WATERMAIN IS PVC, C905/DR18
4. ALL WATERMAIN FITTINGS ARE MJ DIP
5. ALL WATERMAIN BENDS & TEES REQUIRE CTRB'S



KEY MAP



**LORSON BOULEVARD**

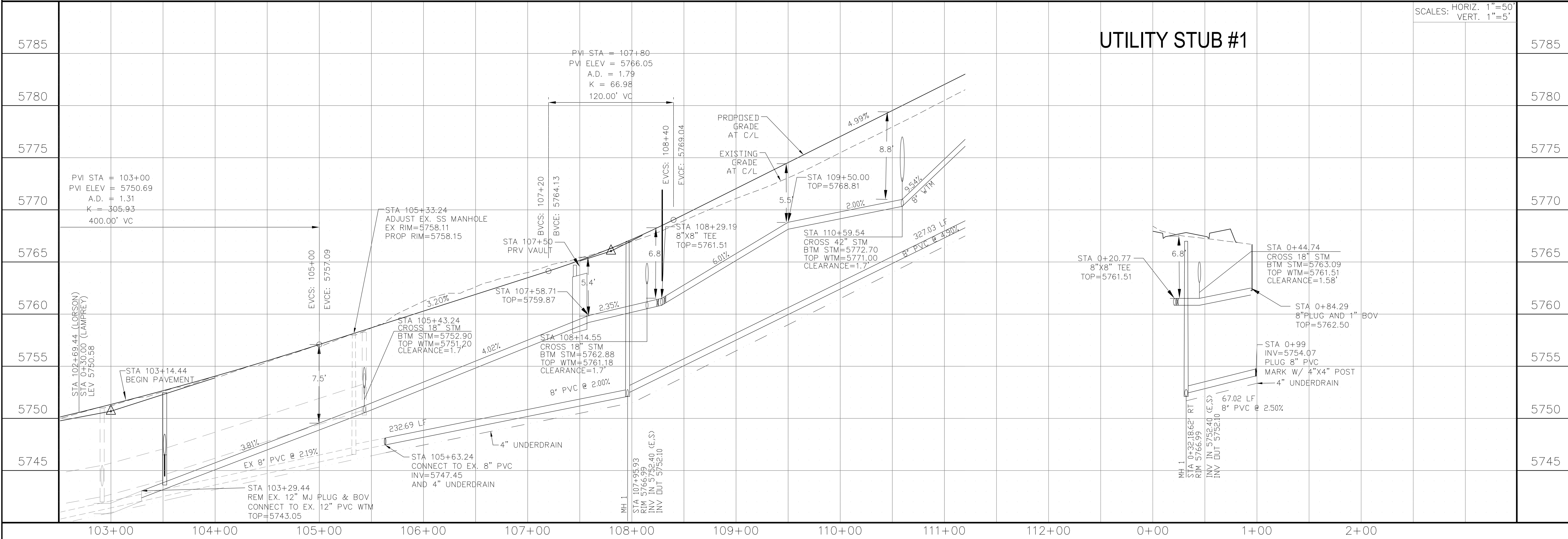
Indicate under drain outfall. (underdrain continues down Lorson and outfalls into JCC?)

**CORE ENGINEERING GROUP**  
 15004 151<sup>ST</sup> AVENUE, SUITE 300  
 PLYMOUTH, CO 80455  
 CONTACT: RICHARD L. SCHINDLER, P.E.  
 EMAIL: Rich@ceg1.com

DATE: \_\_\_\_\_  
 NO. \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_  
 PREPARED FOR: **LORSON, LLC**  
 212 N. WAHSATCH AVE, SUITE 301  
 COLORADO SPRINGS, COLORADO 80903  
 PROJECT: **THE HILLS COLLECTOR STREET CONSTRUCTION**  
 FONTAINE BLVD - GRAYLING DR  
 LORSON BLVD - WALLEYE DR - LAMPREY DR  
 COLORADO SPRINGS, COLORADO  
 CONTACT: JEFF MARK

DRAWN: RLS  
 DESIGNED: RLS  
 CHECKED: RLS

**WTM AND SANITARY PLAN/PROFILE**  
**LORSON BOULEVARD**  
**STA 103+00 TO STA 111+20**



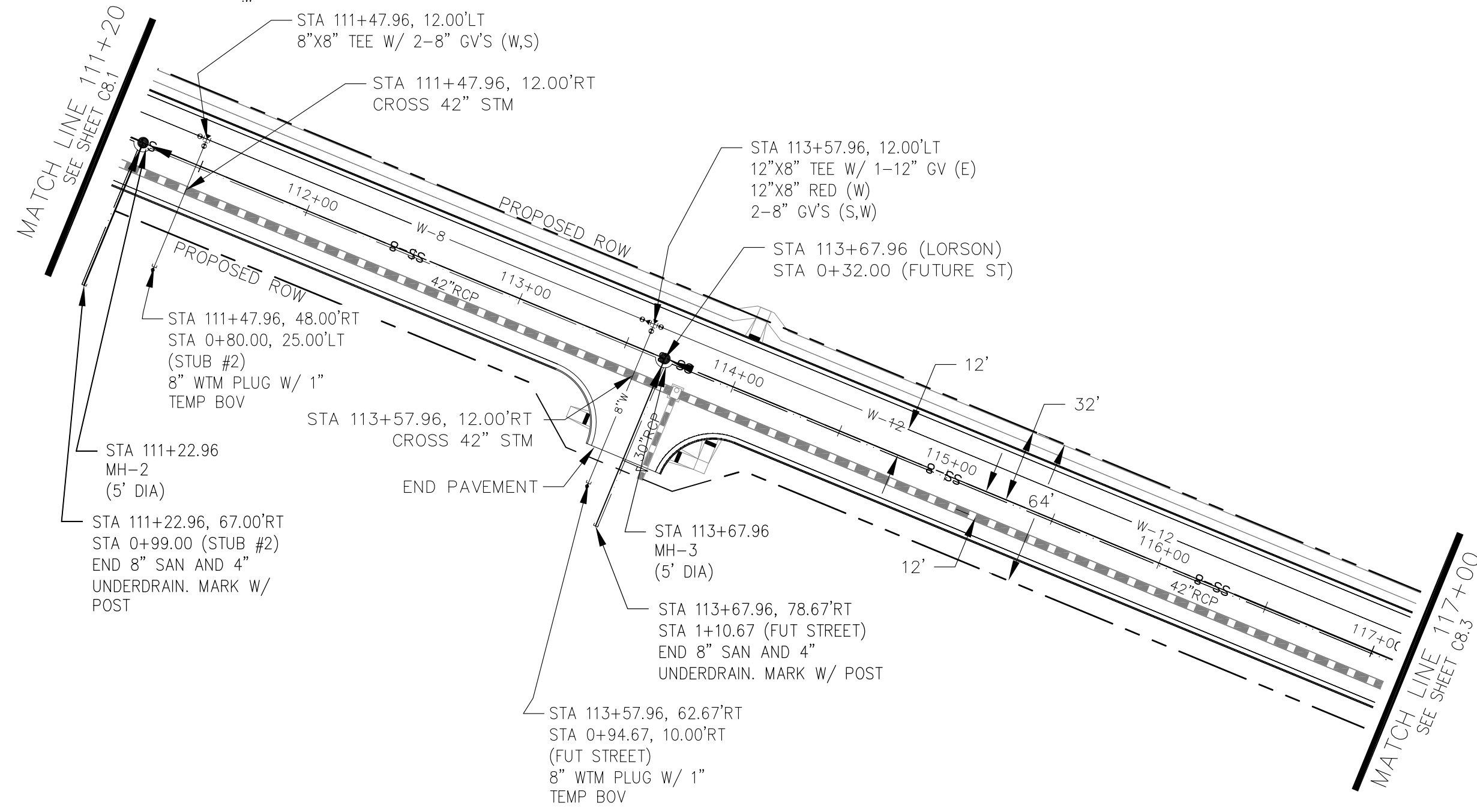
SCALES: HORIZ. 1"=50'  
 VERT. 1"=5'

**UTILITY STUB #1**

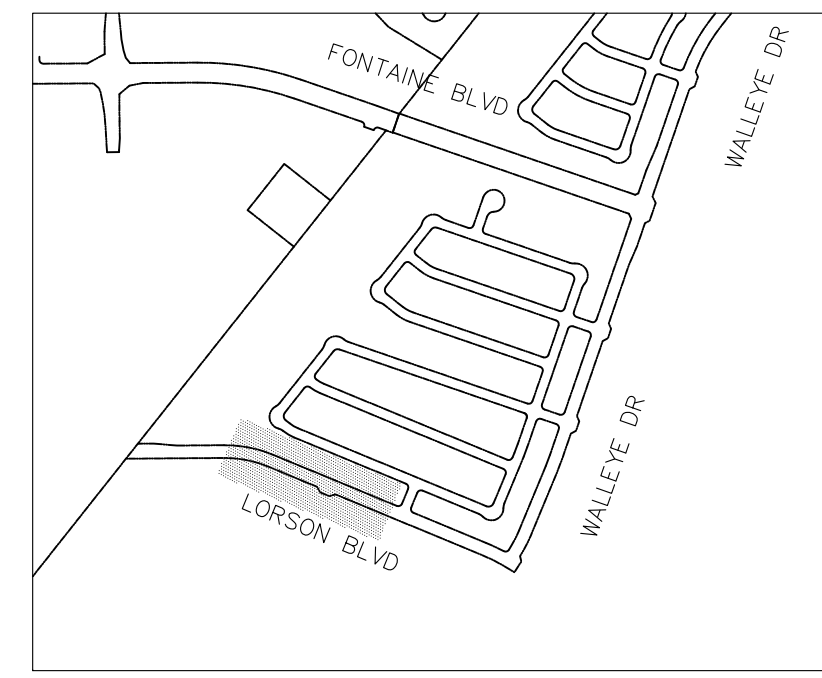
DATE: JUNE 1, 2020  
 PROJECT NO. 100.061  
 SHEET NUMBER C8.1  
 TOTAL SHEETS: 58

**NOTES**

1. STATIONING IS AT ROADWAY CENTERLINE.
2. WATERMAIN ELEVATIONS ARE TO TOP UNLESS NOTED OTHERWISE.
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4. ALL WATERMAIN FITTINGS ARE MJ DIP.
5. ALL WATERMAIN BENDS & TEES REQUIRE CTRB'S.



**LORSON BOULEVARD**

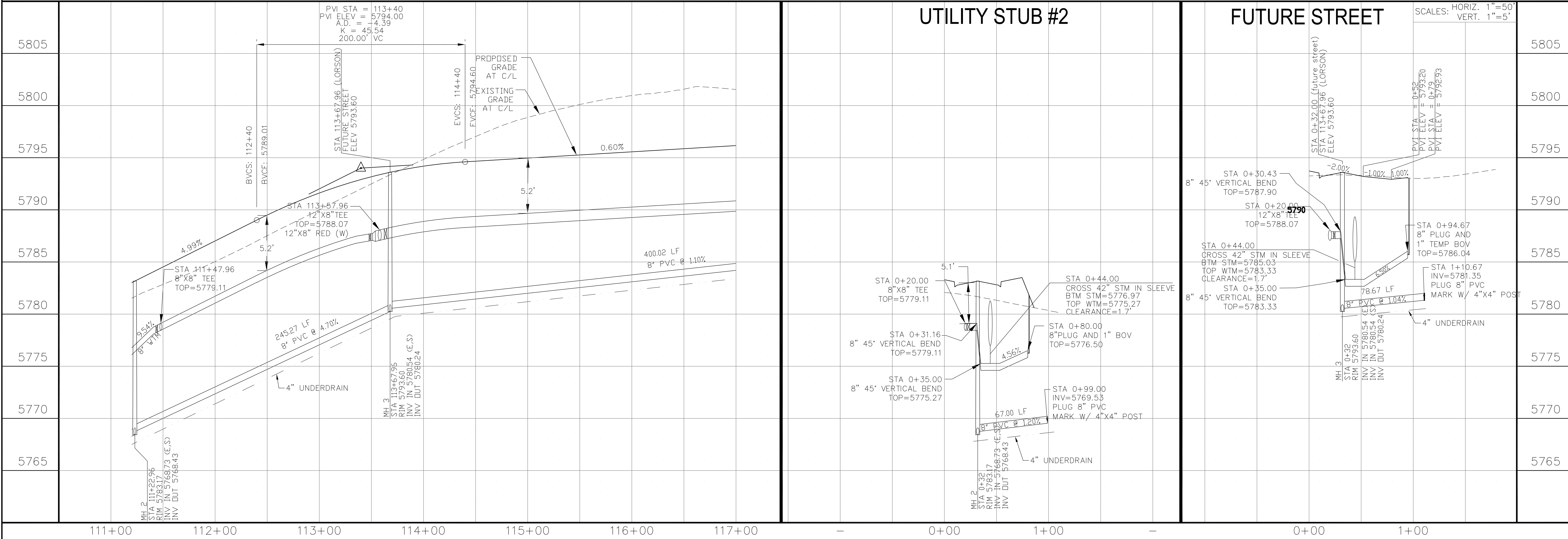


**CORE ENGINEERING GROUP**  
 15004 1ST AVENUE, SUITE 300  
 P.O. BOX 719, FORT COCKERMAN, CO 80903  
 CONTACT: RICHARD L. SCHINDLER, P.E.  
 EMAIL: Rich@ceg1.com

DATE: \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_  
 NO: \_\_\_\_\_  
 DRAWN: RLS  
 DESIGNED: RLS  
 CHECKED: RLS

PREPARED FOR:  
**LORSON, LLC**  
 212 N. WAHSATCH AVE, SUITE 301  
 COLORADO SPRINGS, COLORADO 80903  
 CONTACT: JEFF MARK

PROJECT:  
**THE HILLS COLLECTOR STREET CONSTRUCTION**  
 FONTAINE BLVD - GRAYLING DR  
 LORSON BLVD - WALLEYE DR - LAMPREY DR  
 COLORADO SPRINGS, COLORADO

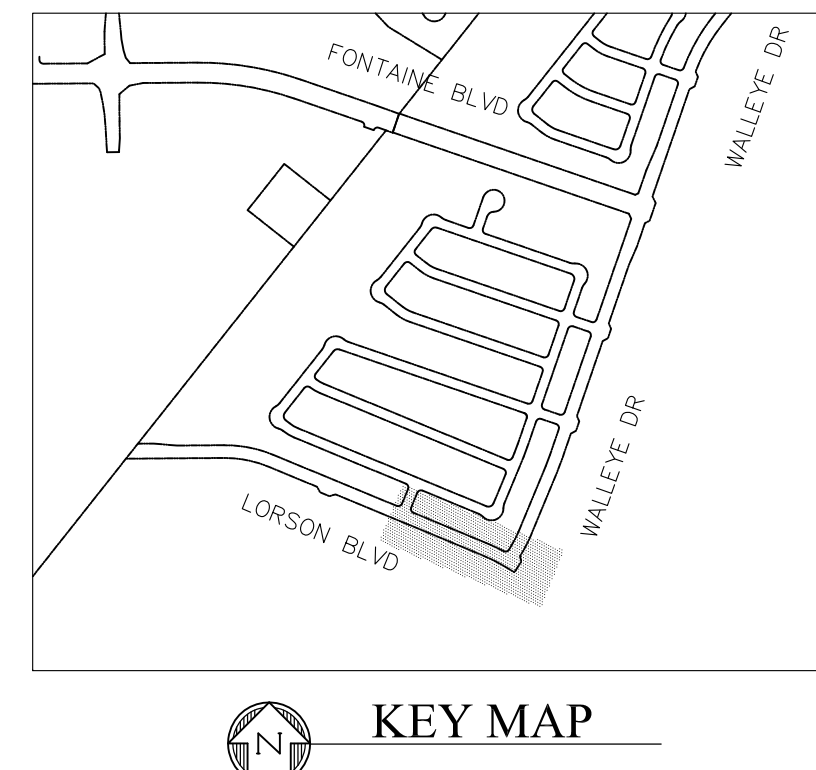
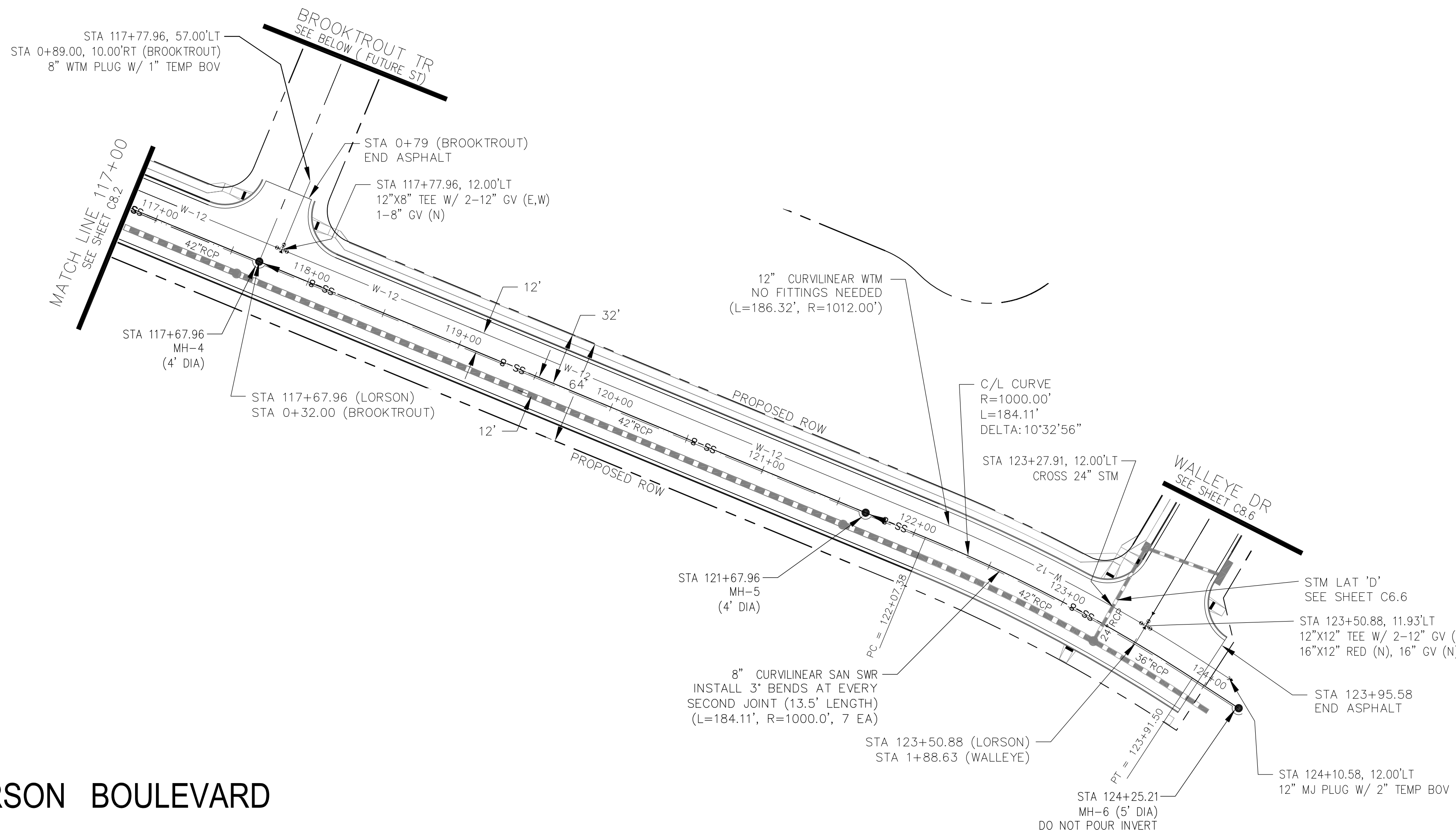


**WTM AND SANITARY PLAN/PROFILE**  
**LORSON BOULEVARD**  
**STA 111+20 TO STA 117+00**

DATE: JUNE 1, 2020  
 PROJECT NO: 100.061  
 SHEET NUMBER: C8.2  
 TOTAL SHEETS: 58

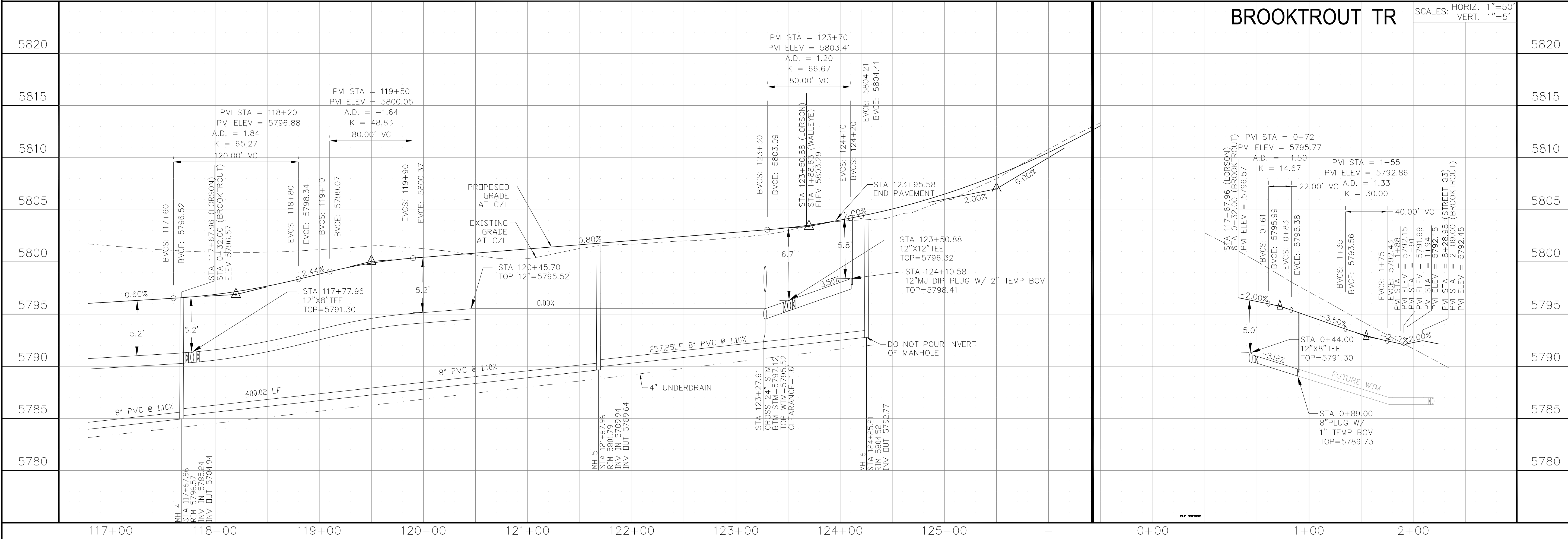
**NOTES**

1. STATIONING IS AT ROADWAY CENTERLINE.
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5. ALL WATERMAIN BENDS & TEES REQUIRE CTRB'S.



**LORSON BOULEVARD**

**BROOKTROUT TR**



**CORE ENGINEERING GROUP**  
 15004 151<sup>ST</sup> AVENUE, S.  
 P.O. BOX 719  
 FORT COLLINS, CO 80506  
 CONTACT: RICHARD L. SCHINDLER, P.E.  
 EMAIL: Rich@ceg1.com

DATE: \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_  
 NO: \_\_\_\_\_

PREPARED FOR:  
**LORSON, LLC**  
 212 N. WAHSATCH AVE, SUITE 301  
 COLORADO SPRINGS, COLORADO 80903  
 CONTACT: JEFF MARK

PROJECT:  
**THE HILLS COLLECTOR STREET CONSTRUCTION**  
 FONTAINE BLVD - GRAYLING DR  
 LORSON BLVD - WALLEYE DR - LAMPREY DR  
 COLORADO SPRINGS, COLORADO

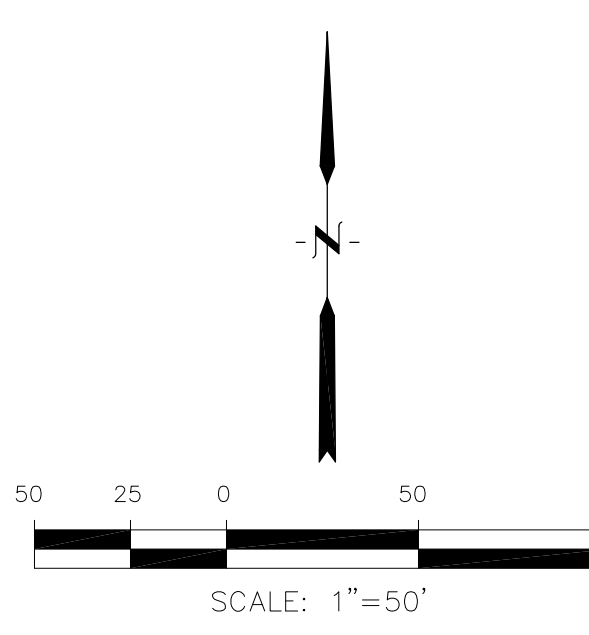
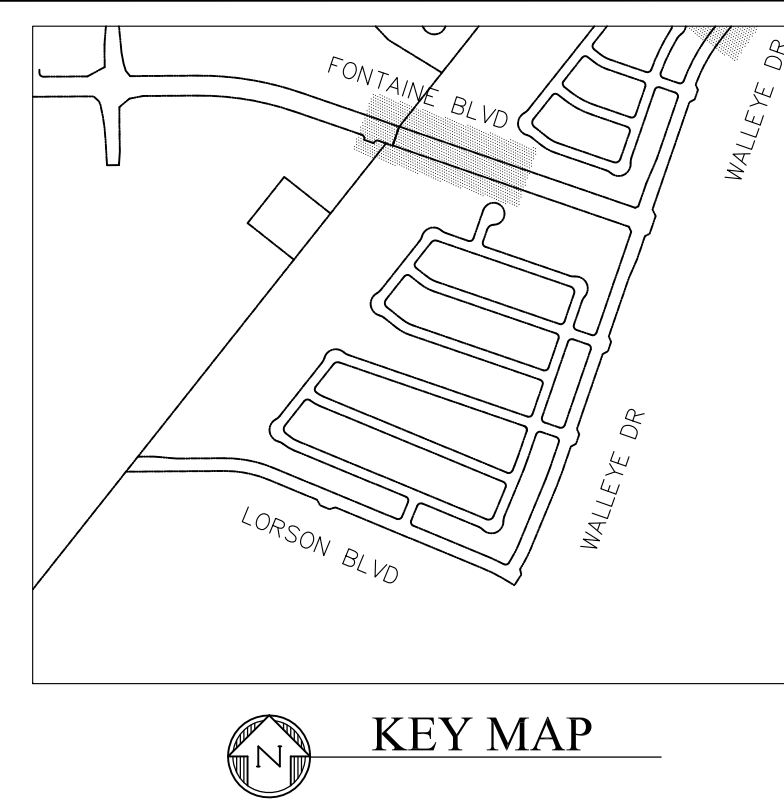
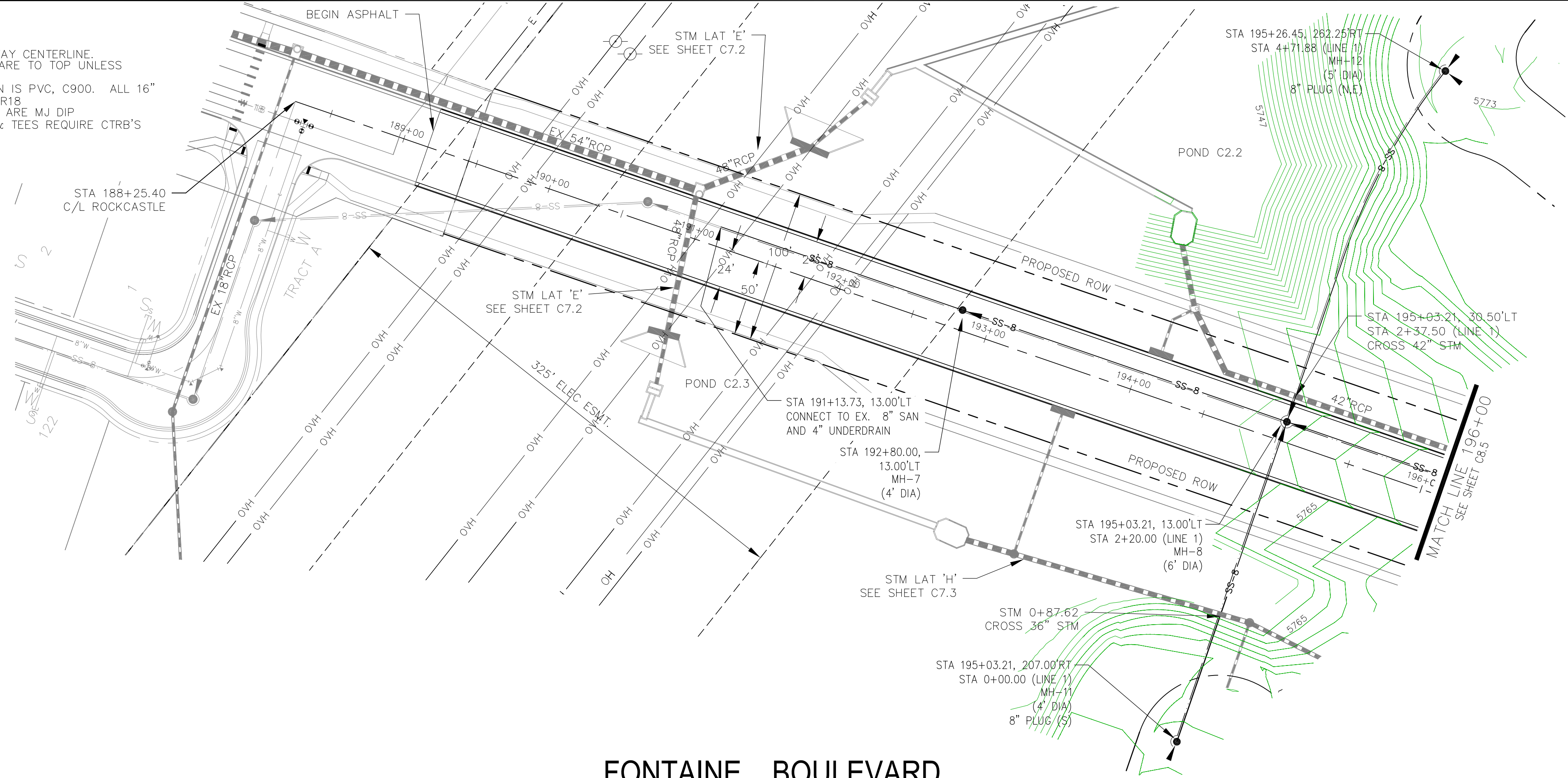
DRAWN: RLS  
 DESIGNED: RLS  
 CHECKED: RLS

**WTM AND SANITARY PLAN/PROFILE**  
**LORSON BOULEVARD**  
**STA 117+00 TO STA 124+25**

DATE: JUNE 1, 2020  
 PROJECT NO: 100.061  
 SHEET NUMBER: C8.3  
 TOTAL SHEETS: 58

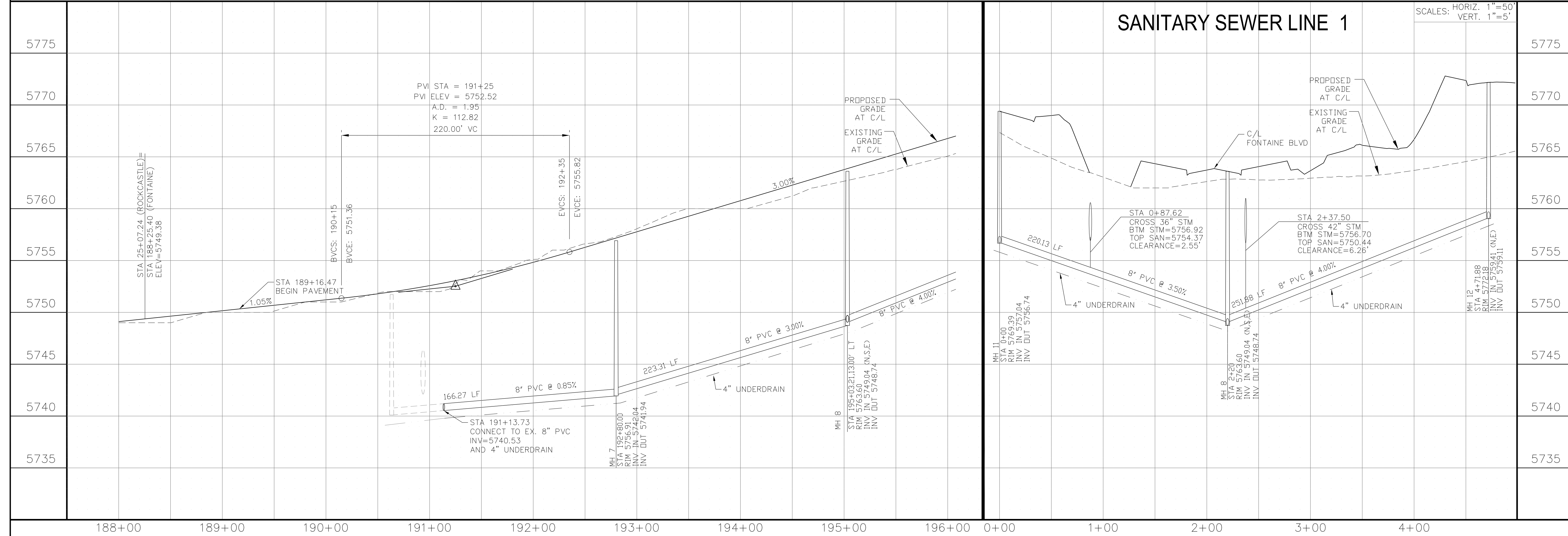
**NOTES**

1. STATIONING IS AT ROADWAY CENTERLINE.
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4. ALL WATERMAIN FITTINGS ARE MJ DIP
5. ALL WATERMAIN BENDS & TEES REQUIRE CTRB'S



**FONTAINE BOULEVARD**

**SANITARY SEWER LINE 1**



**CORE ENGINEERING GROUP**  
 15004 1ST AVENUE, SUITE 5506  
 PLYMOUTH, CO 80453  
 CONTACT: RICHARD L. SCHINDLER, P.E.  
 EMAIL: Rich@cegi.com

DATE: \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_  
 NO: \_\_\_\_\_

PREPARED FOR: **LORSON, LLC**  
 212 N. WAHSATCH AVE, SUITE 301  
 COLORADO SPRINGS, COLORADO 80903  
 CONTACT: JEFF MARK

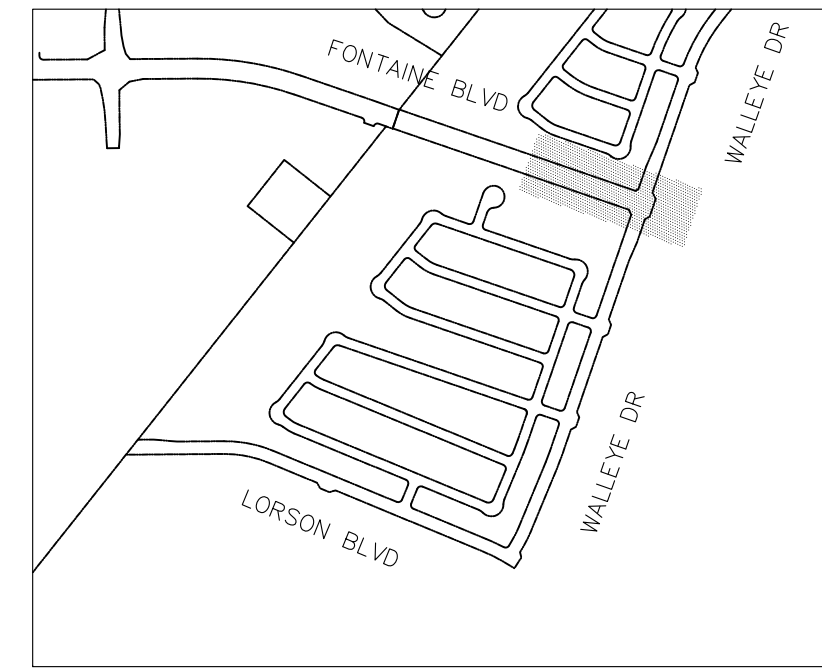
DRAWN: RLS  
 DESIGNED: RLS  
 CHECKED: RLS

**WTM & SANITARY PLAN/PROFILE**  
**FONTAINE BOULEVARD**  
**STA 189+16 TO STA 196+00**

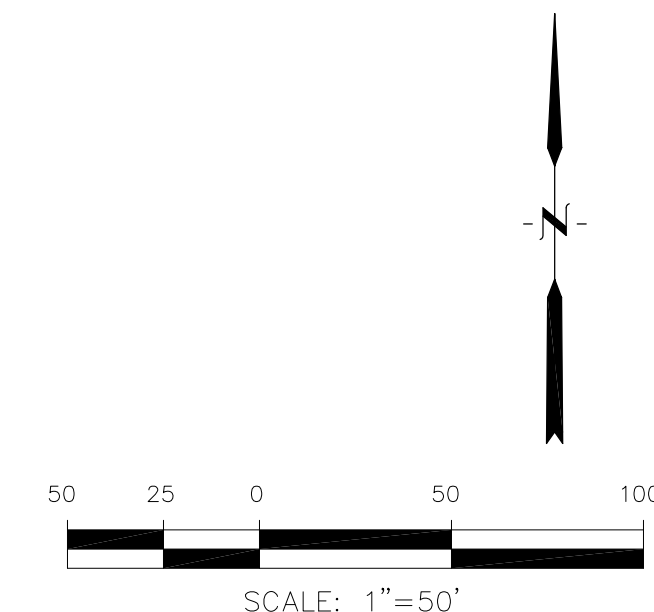
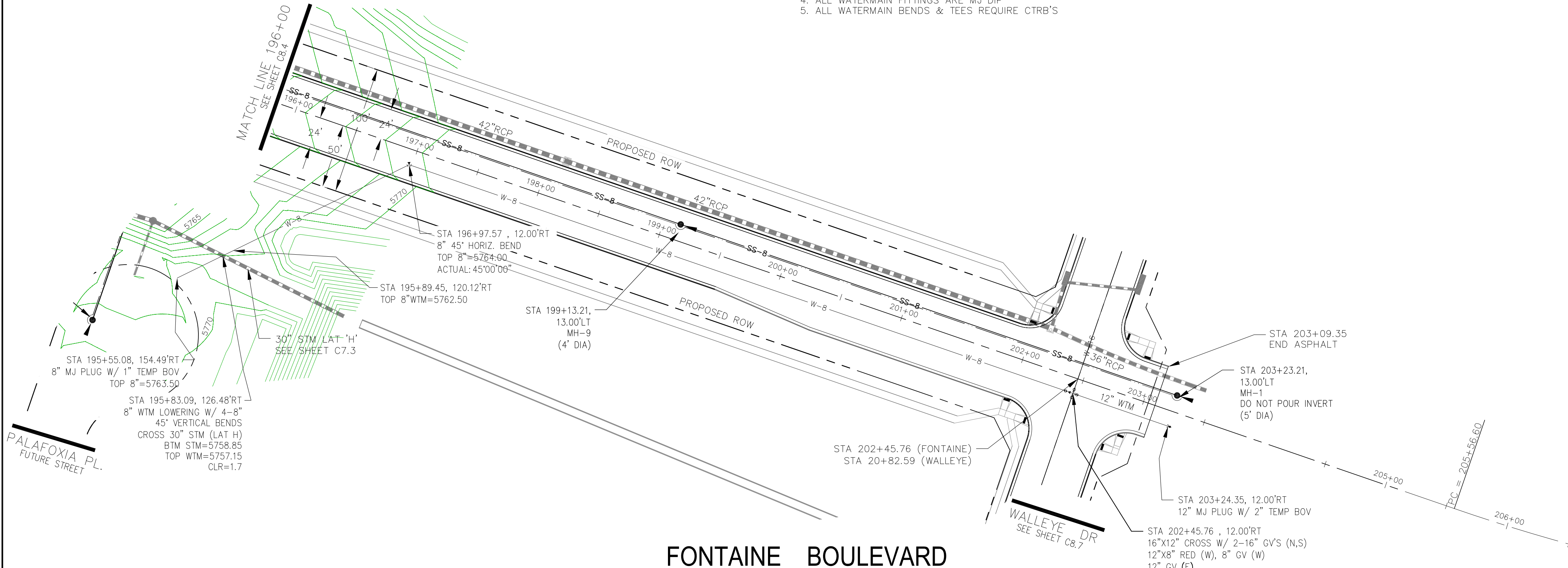
DATE: JUNE 1, 2020  
 PROJECT NO: 100.061  
 SHEET NUMBER: **C8.4**  
 TOTAL SHEETS: 58

**NOTES**

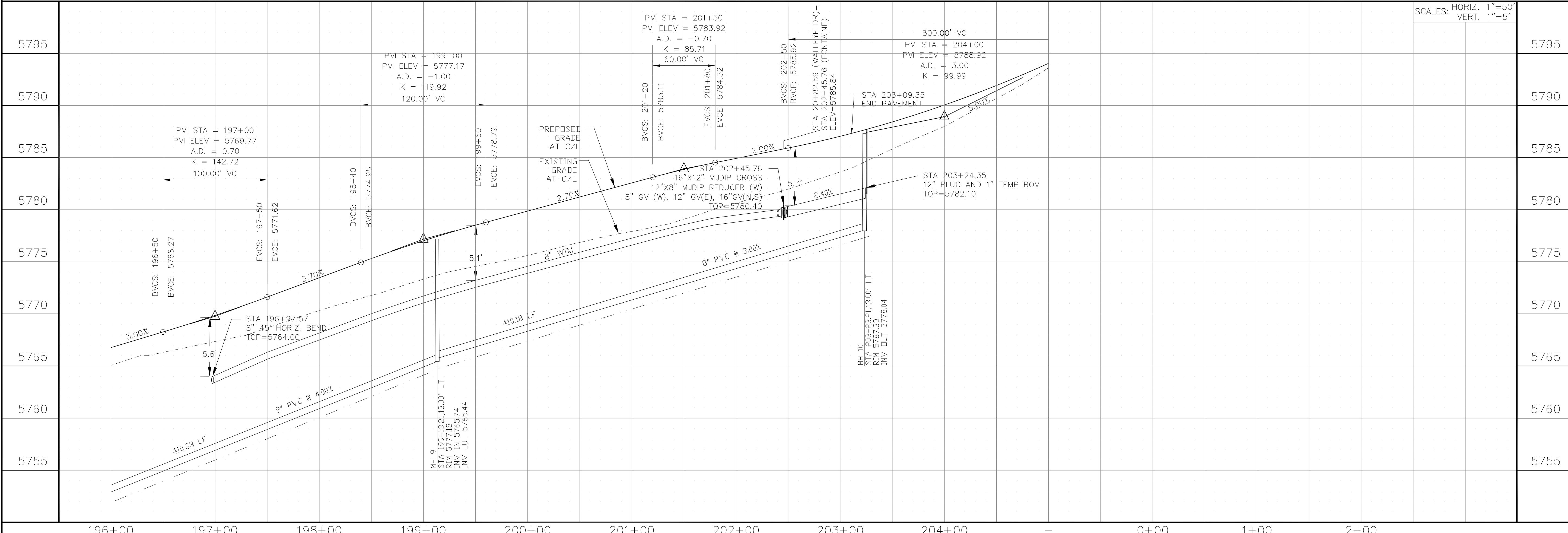
1. STATIONING IS AT ROADWAY CENTERLINE.
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4. ALL WATERMAIN FITTINGS ARE MJ DIP.
5. ALL WATERMAIN BENDS & TEES REQUIRE CTRB'S



KEY MAP



**FONTAINE BOULEVARD**



SCALES: HORIZ. 1"=50'  
VERT. 1"=5'

**CORE ENGINEERING GROUP**  
15004 151<sup>ST</sup> AVENUE, S.  
DENVER, CO 80232  
PH: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@cge1.com

PREPARED FOR:  
**LORSON, LLC**  
212 N. WAHSATCH AVE, SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
(719) 635-3200  
CONTACT: JEFF MARK

PROJECT:  
**THE HILLS COLLECTOR STREET CONSTRUCTION**  
FONTAINE BLVD - GRAYLING DR  
LORSON BLVD - WALLEYE DR - LAMPREY DR  
COLORADO SPRINGS, COLORADO

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

**WTM AND SANITARY PLAN/PROFILE**  
**FONTAINE BOULEVARD**  
**STA 196+00 TO STA 203+25**

DATE:  
JUNE 1, 2020

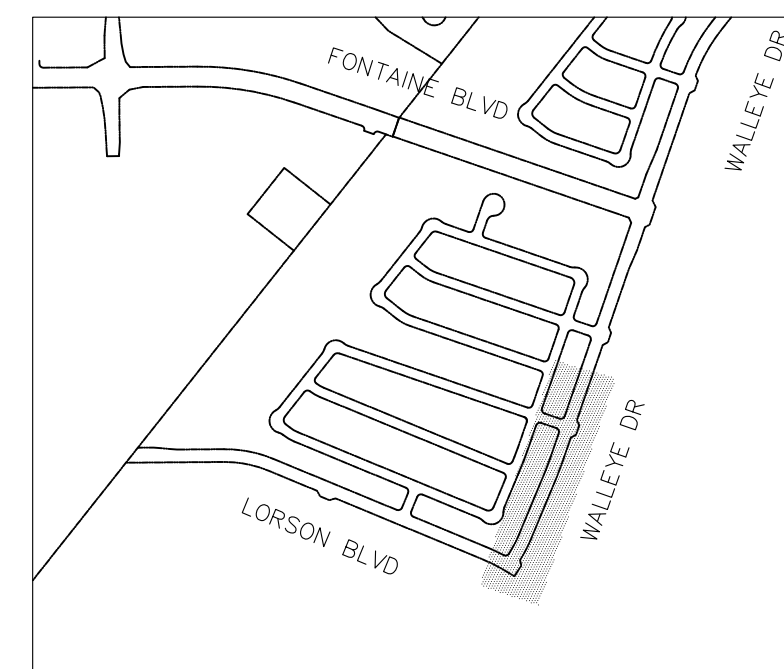
PROJECT NO.  
100.061

SHEET NUMBER  
**C8.5**

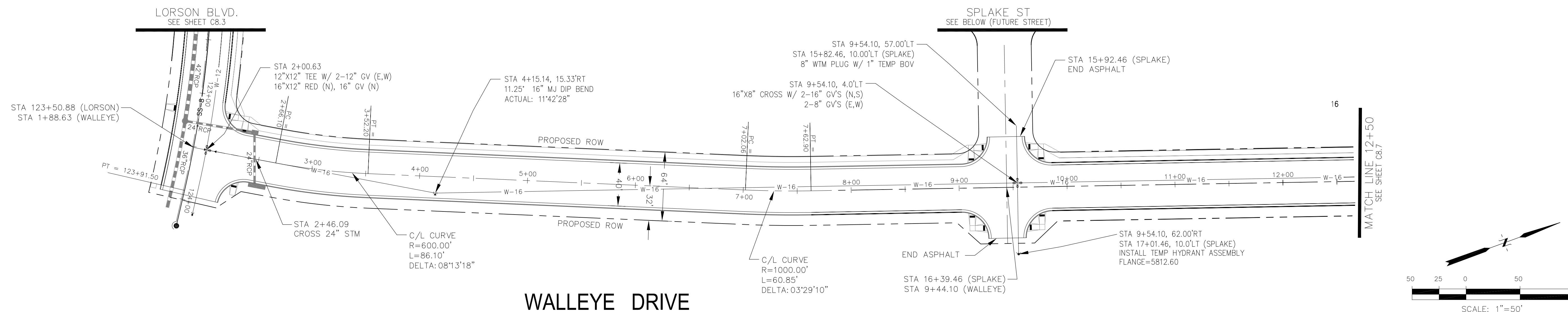
TOTAL SHEETS: 58

**NOTES**

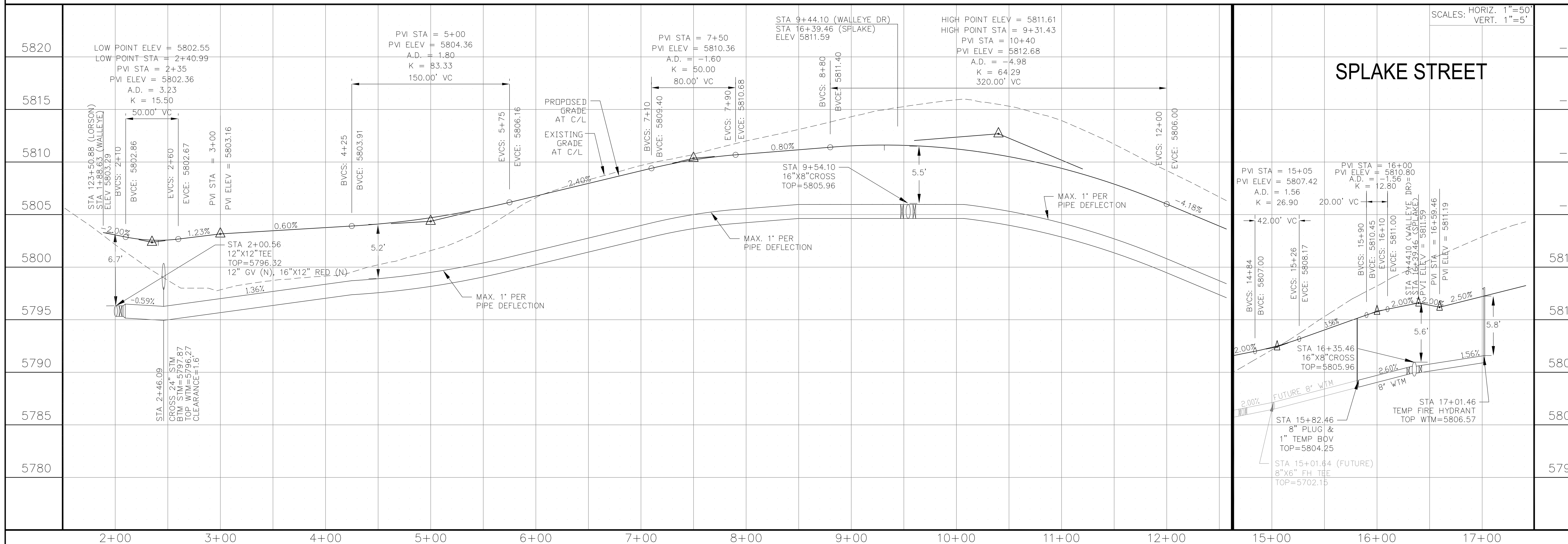
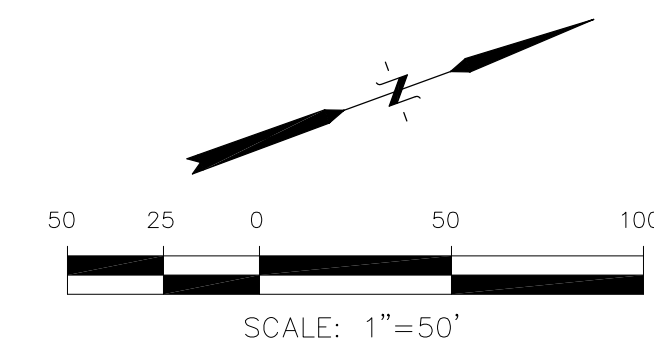
1. STATIONING IS AT ROADWAY CENTERLINE.
2. WATERMAIN ELEVATIONS ARE TO TOP UNLESS NOTED OTHERWISE
3. ALL 8" & 12" WATERMAIN IS PVC, C900. ALL 16" WATERMAIN IS PVC, C905/DR18
4. ALL WATERMAIN FITTINGS ARE MJ DIP
5. ALL WATERMAIN BENDS & TEES REQUIRE CTRB'S



KEY MAP



**WALLEYE DRIVE**



**SPLAKE STREET**

**WTM AND SANITARY PLAN/PROFILE  
WALLEYE DR & SPLAKE ST  
STA 2+00 TO STA 12+50**

DATE: JUNE 1, 2020  
PROJECT NO. 100.061  
SHEET NUMBER C8.6  
TOTAL SHEETS: 58

**CORE ENGINEERING GROUP**  
15004 151st Avenue S.  
P.O. Box 1100  
Plymouth, MN 55556  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@cegi.com

PREPARED FOR:  
**LORSON, LLC**  
212 N. WAHSATCH AVE, SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
(719) 635-3200  
CONTACT: JEFF MARK

PROJECT:  
**THE HILLS COLLECTOR STREET CONSTRUCTION**  
FONTAINE BLVD - GRAYLING DR  
LORSON BLVD - WALLEYE DR - LAMPREY DR  
COLORADO SPRINGS, COLORADO

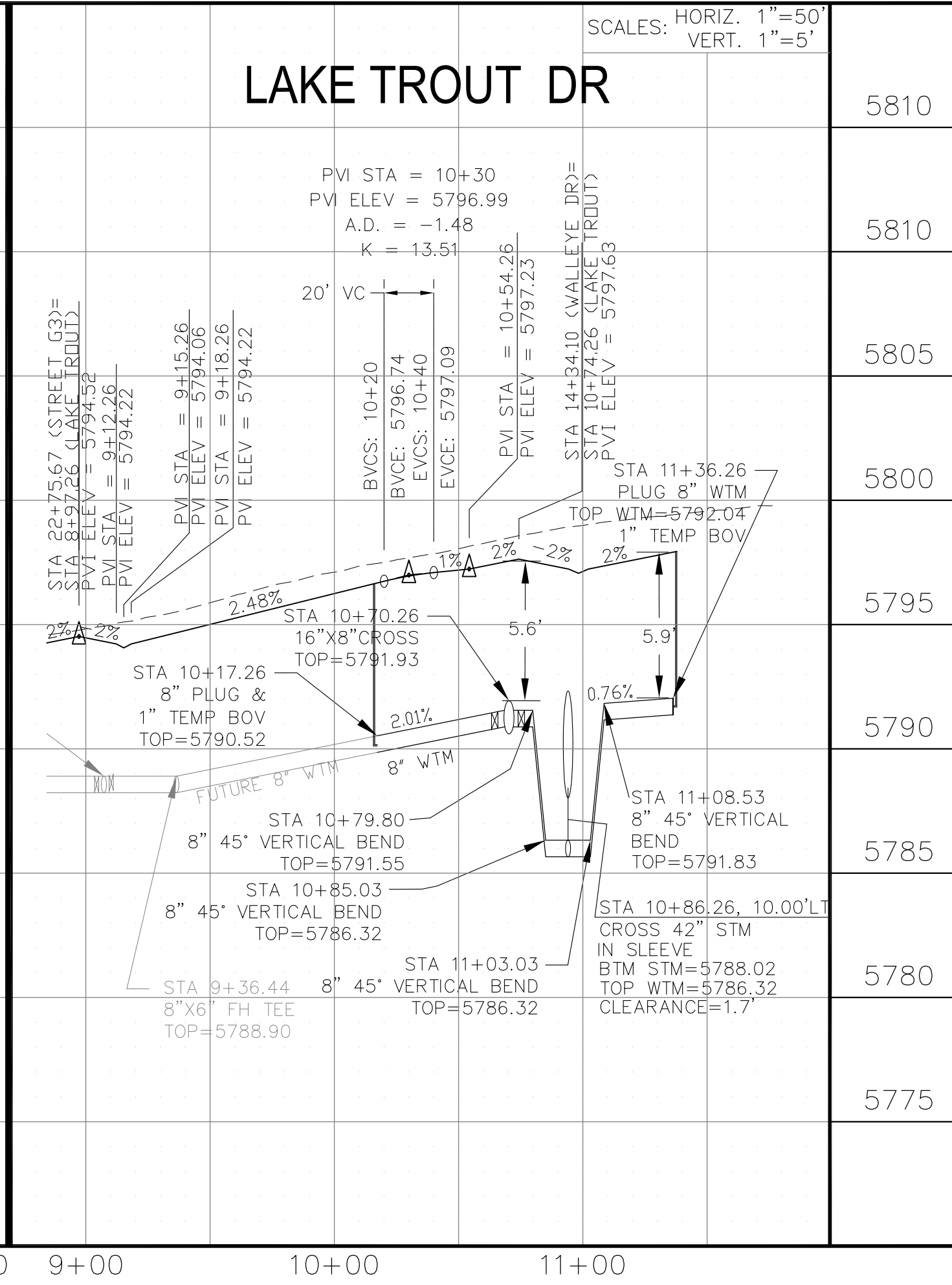
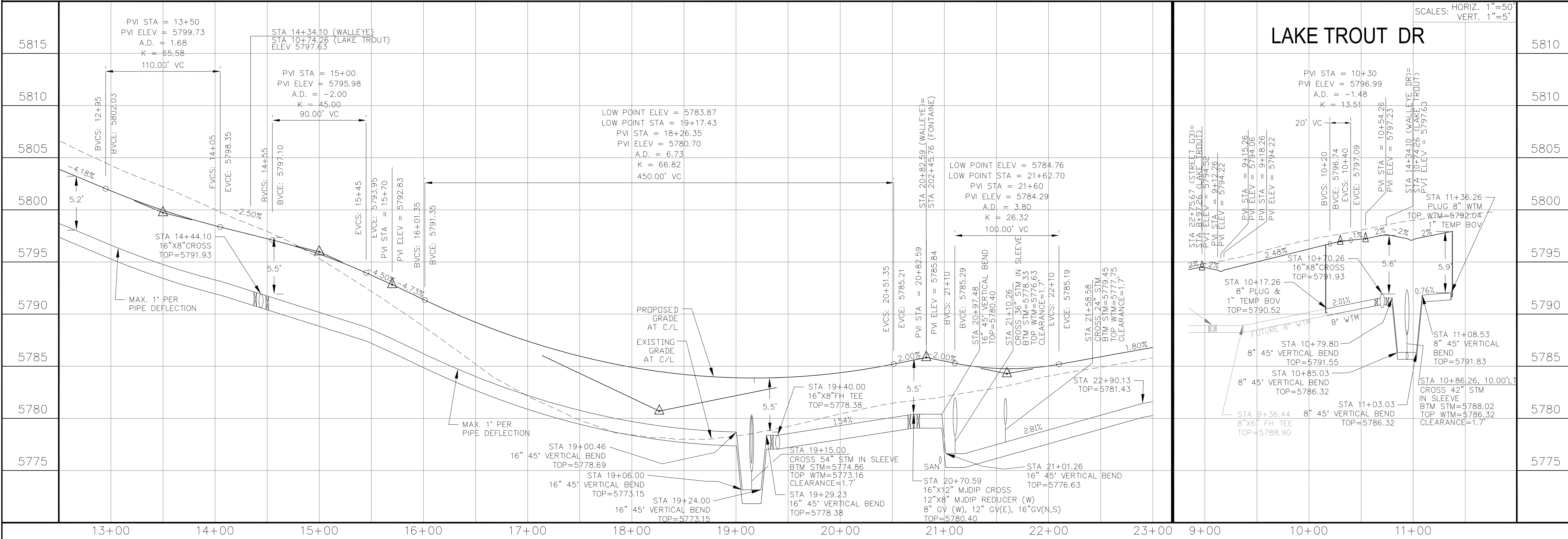
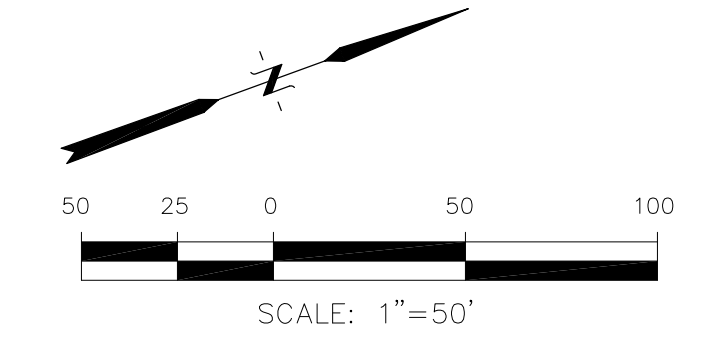
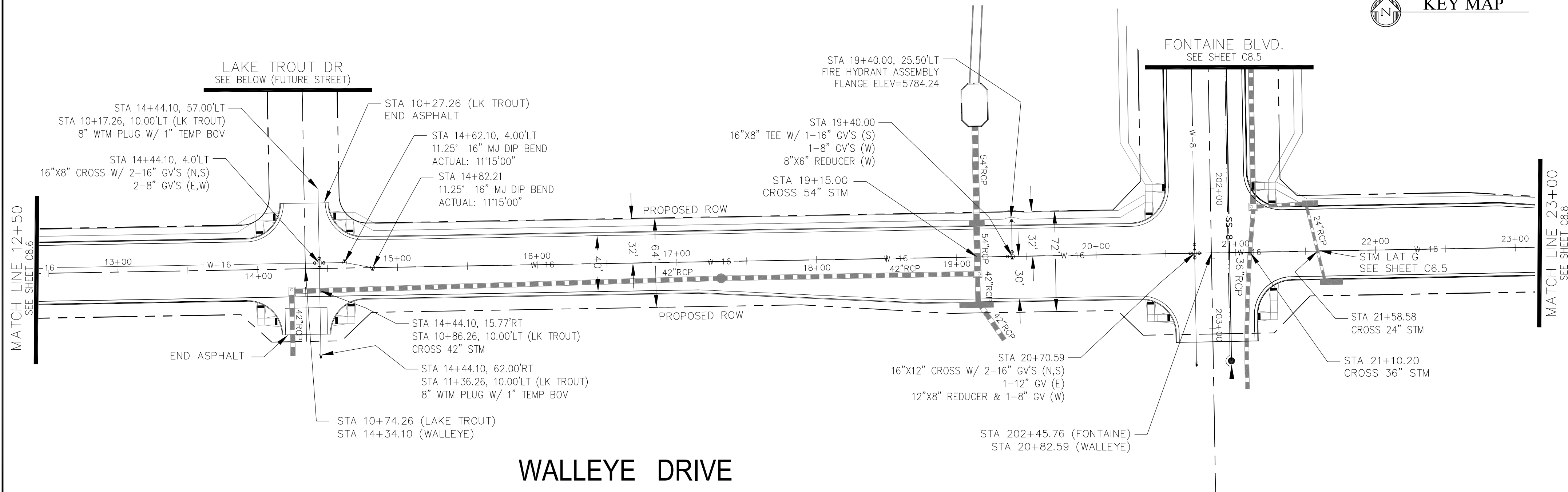
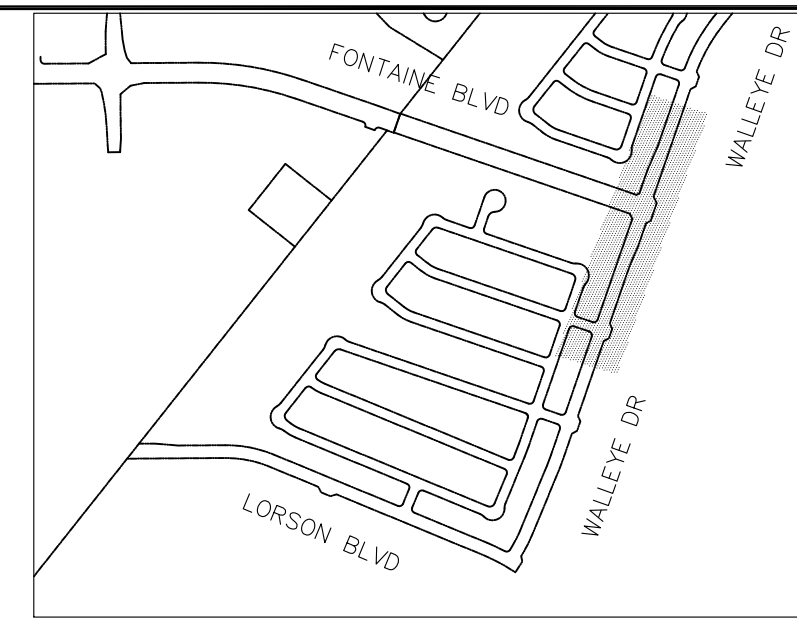
NO. \_\_\_\_\_ DATE \_\_\_\_\_ DESCRIPTION \_\_\_\_\_

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS



**NOTES**

1. STATIONING IS AT ROADWAY CENTERLINE.
2. WATERMAIN ELEVATIONS ARE TO TOP UNLESS NOTED OTHERWISE.
3. ALL 8" & 12" WATERMAIN IS PVC, C900. ALL 16" WATERMAIN IS PVC, C905/DR18
4. ALL WATERMAIN FITTINGS ARE MJ DIP
5. ALL WATERMAIN BENDS & TEES REQUIRE CTRB'S



**CORE ENGINEERING GROUP**  
 15004 151st AVENUE S.  
 BLDG 100, SUITE 100  
 BLDG 100, SUITE 100  
 PH: 719.570.1100  
 CONTACT: RICHARD L. SCHINDLER, P.E.  
 EMAIL: Rich@cegi.com

DATE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

NO: \_\_\_\_\_

PROJECT FOR: **LORSON, LLC**  
 212 N. WAHSATCH AVE, SUITE 301  
 COLORADO SPRINGS, COLORADO 80903  
 CONTACT: JEFF MARK

PROJECT: **THE HILLS COLLECTOR STREET CONSTRUCTION**  
 FONTAINE BLVD - GRAYLING DR  
 LORSON BLVD - WALLEYE DR - LAMPREY DR  
 COLORADO SPRINGS, COLORADO

DRAWN: RLS  
 DESIGNED: RLS  
 CHECKED: RLS

**WTM AND SANITARY PLAN/PROFILE**  
**WALLEYE DR & LAKE TROUT DR**  
**STA 12+50 TO STA 23+00**

DATE: JUNE 1, 2020

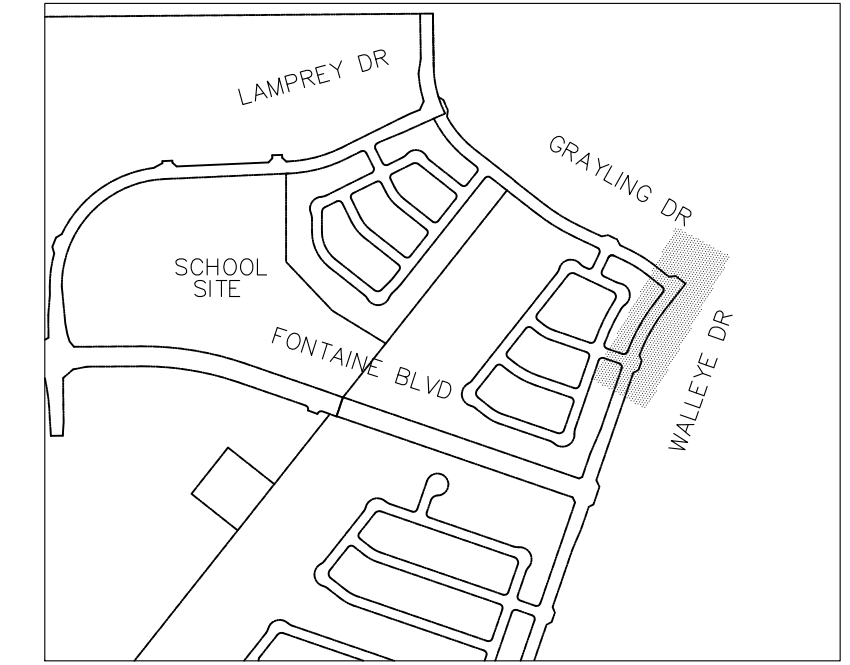
PROJECT NO. 100.061

SHEET NUMBER **C8.7**

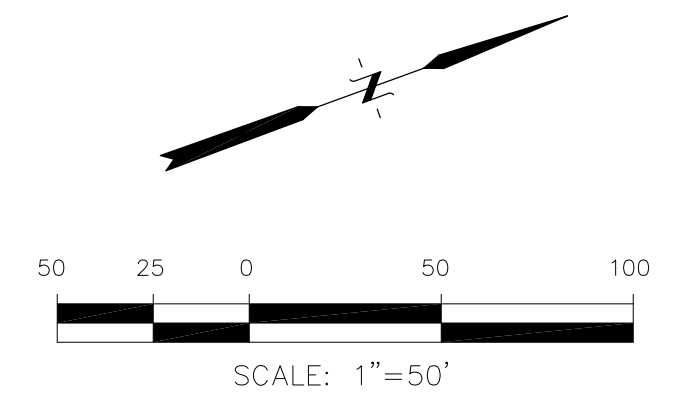
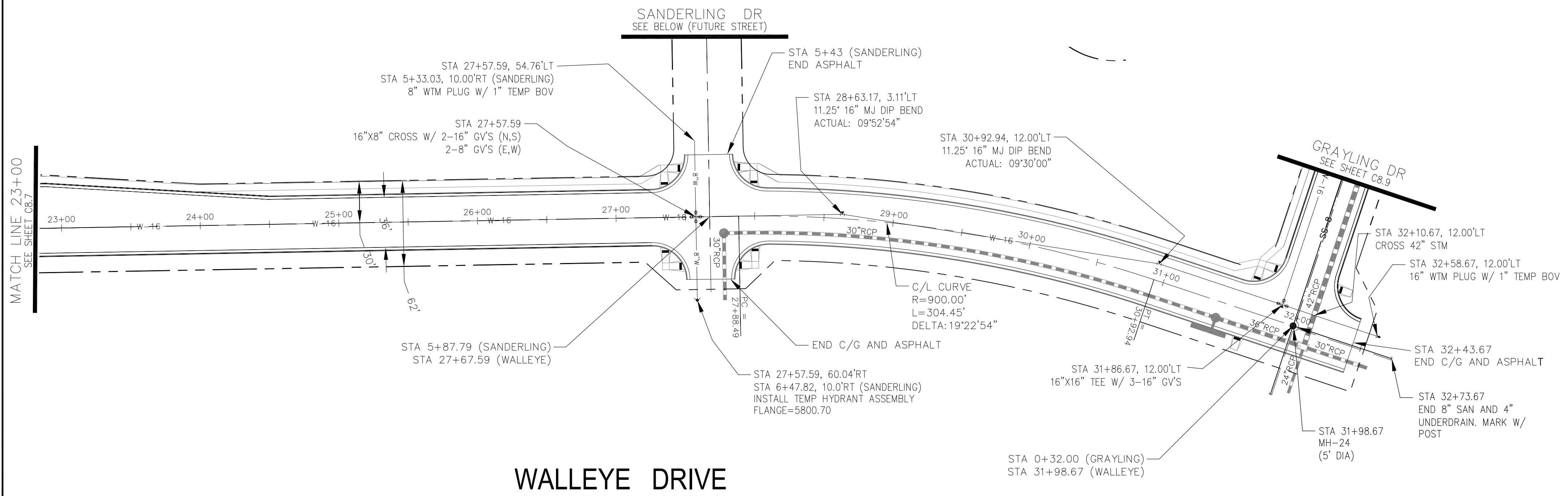
TOTAL SHEETS: 58

**NOTES**

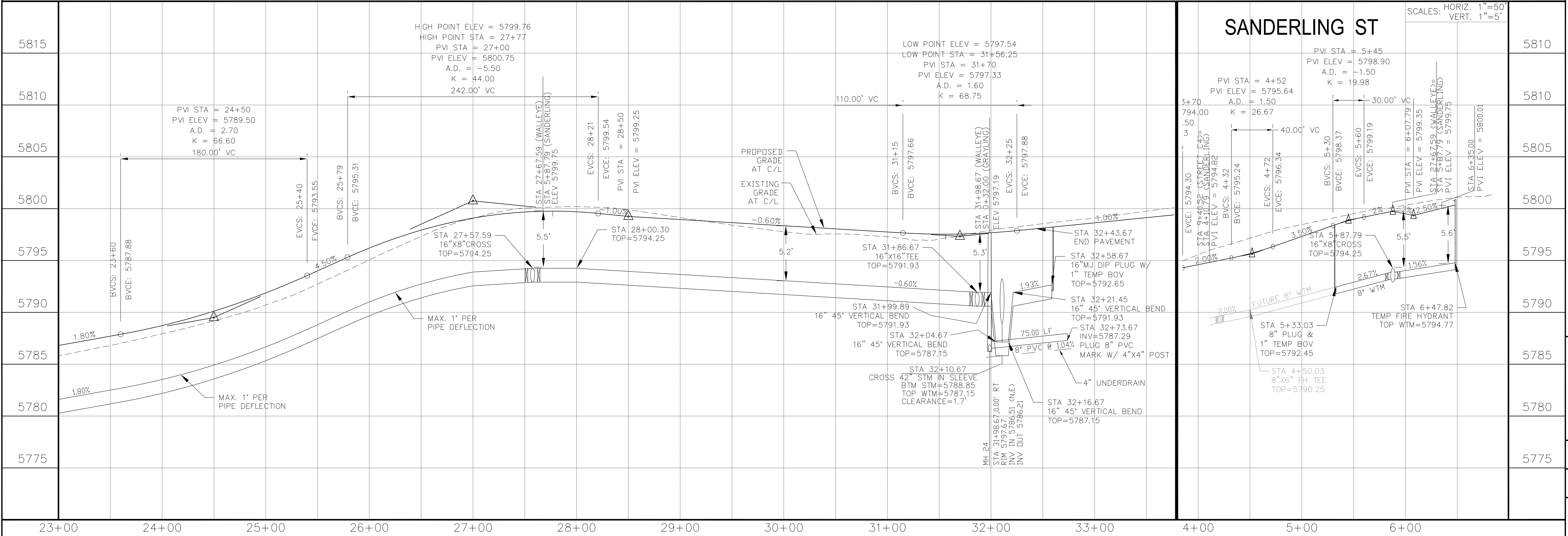
1. STATIONING IS AT ROADWAY CENTERLINE.
2. WATERMAIN ELEVATIONS ARE TO TOP UNLESS NOTED OTHERWISE
3. ALL 8" & 12" WATERMAIN IS PVC, C900. ALL 16" WATERMAIN IS PVC, C905/DR18
4. ALL WATERMAIN FITTINGS ARE MJ DIP
5. ALL WATERMAIN BENDS & TEES REQUIRE CTRB'S



**KEY MAP**



**WALLEYE DRIVE**



**SANDERLING ST**

SCALES: HORIZ. 1"=50'  
VERT. 1"=5'

**WTM AND SANITARY PLAN/PROFILE  
WALLEYE DR & SANDERLING ST  
STA 23+00 TO STA 32+75**

**CORE ENGINEERING GROUP**  
15004 151<sup>ST</sup> AVENUE S.  
DENVER, CO 80232  
PH: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@ceg1.com

DATE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

NO: \_\_\_\_\_

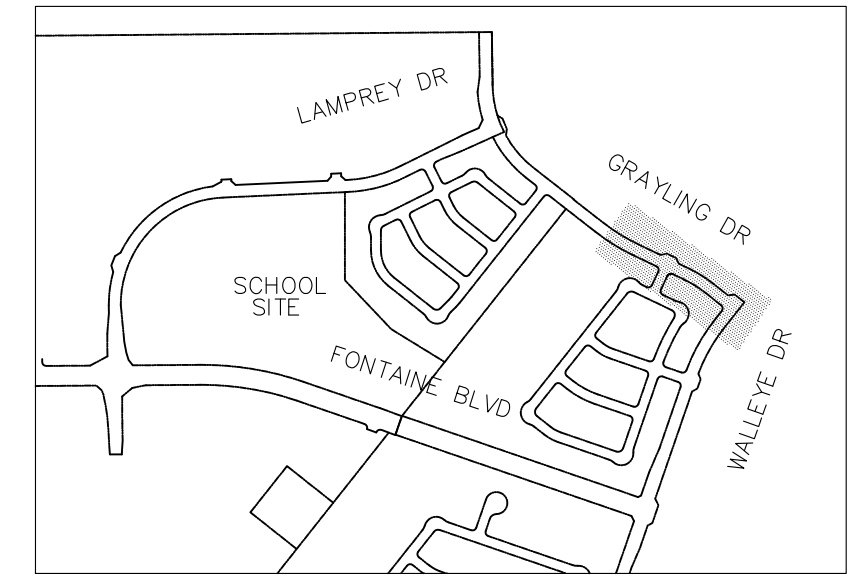
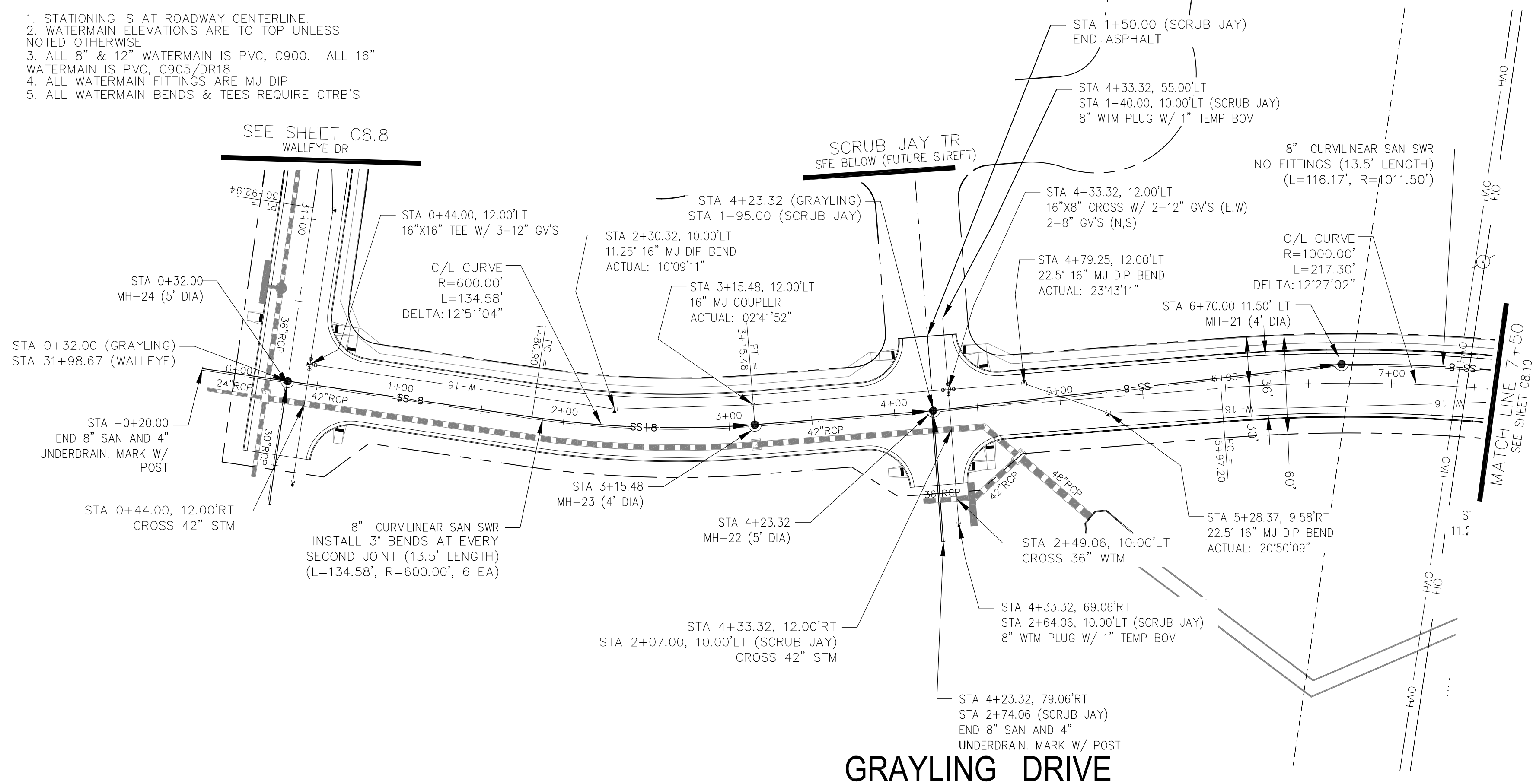
DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

PROJECT FOR:  
**THE HILLS COLLECTOR STREET CONSTRUCTION**  
212 N. WAHSATCH AVE, SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
LORSON BLVD - WALLEYE DR - LAMPREY DR  
COLORADO SPRINGS, COLORADO  
CONTACT: JEFF MARK

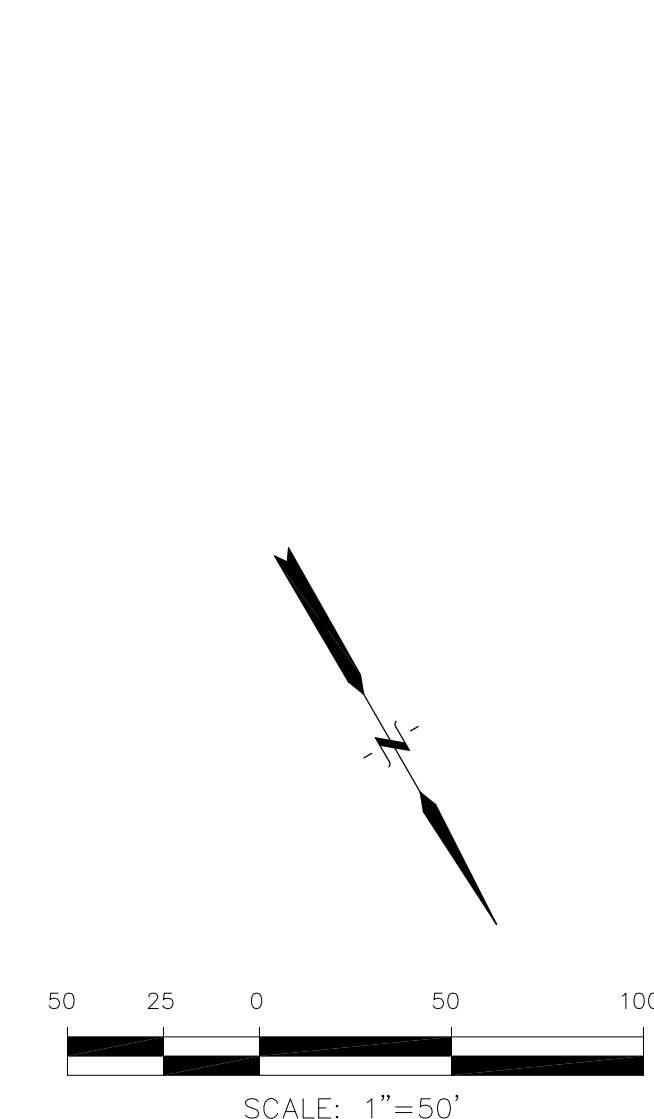
PREPARED FOR:  
**LORSON, LLC**  
212 N. WAHSATCH AVE, SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@ceg1.com

**NOTES**

1. STATIONING IS AT ROADWAY CENTERLINE.
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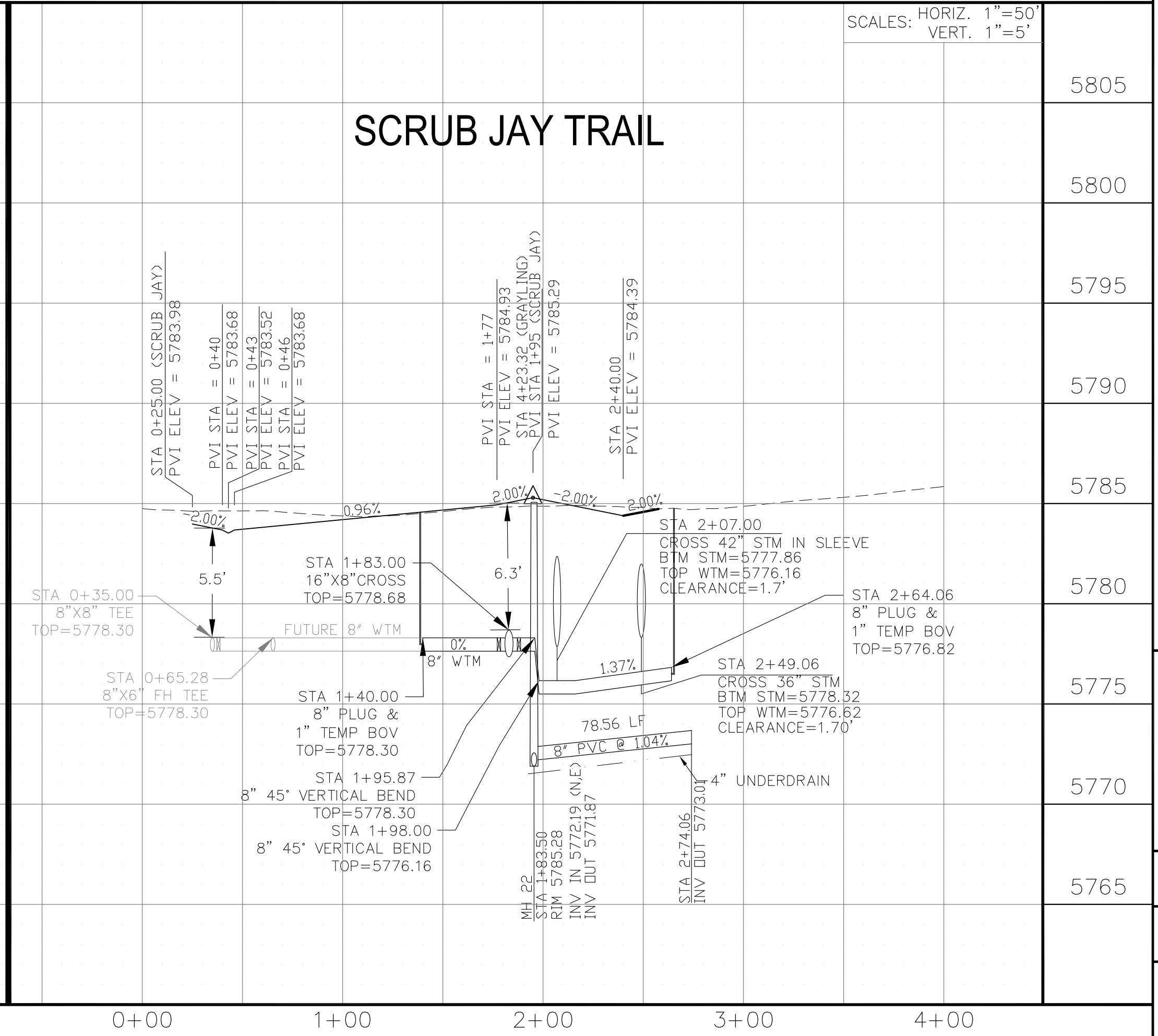
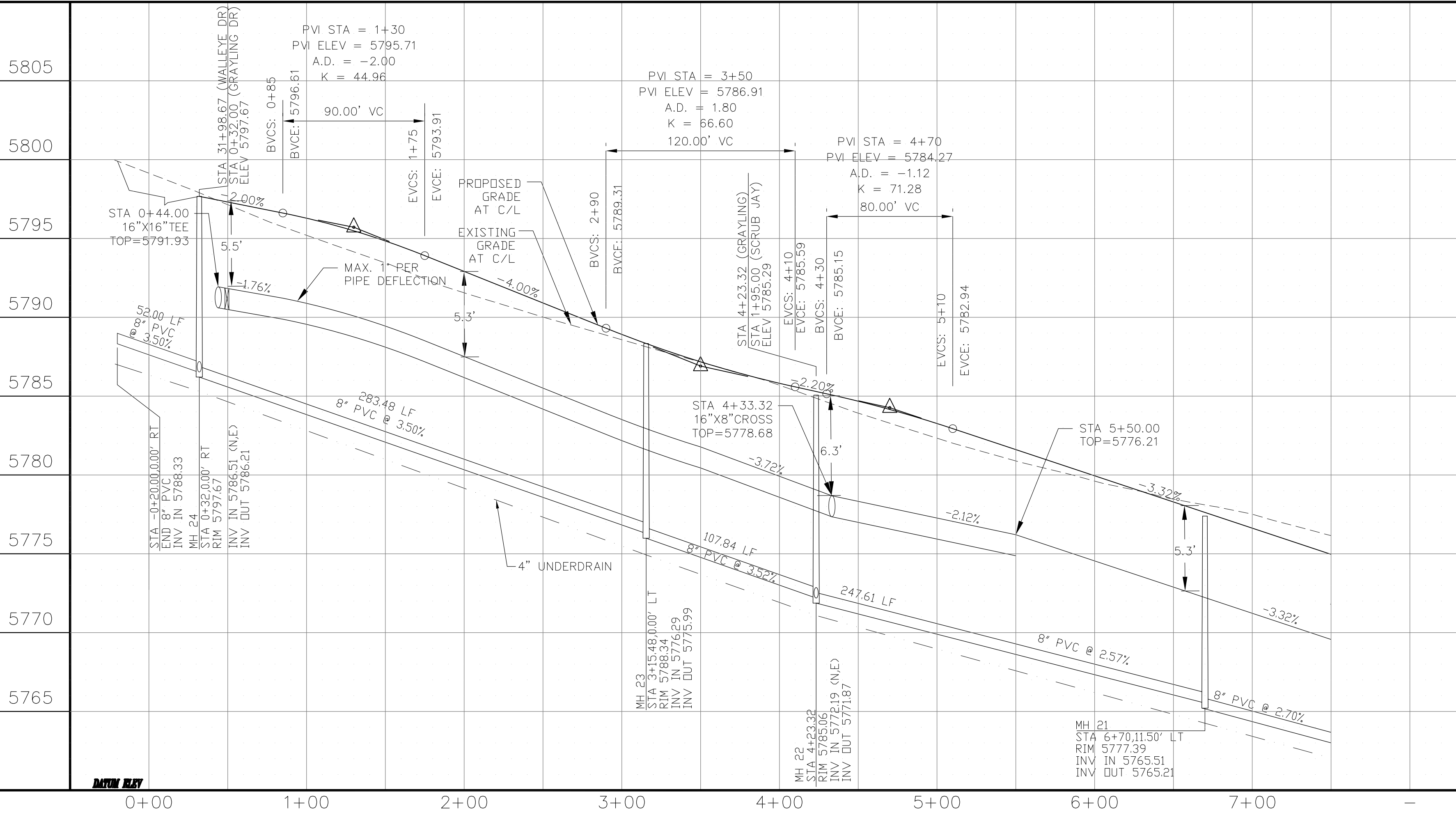
KEY MAP



**CORE ENGINEERING GROUP**  
 15004 151<sup>st</sup> AVENUE S.  
 PHOENIX, AZ 85006  
 CONTACT: RICHARD L. SCHINDLER, P.E.  
 EMAIL: Rich@ceg1.com

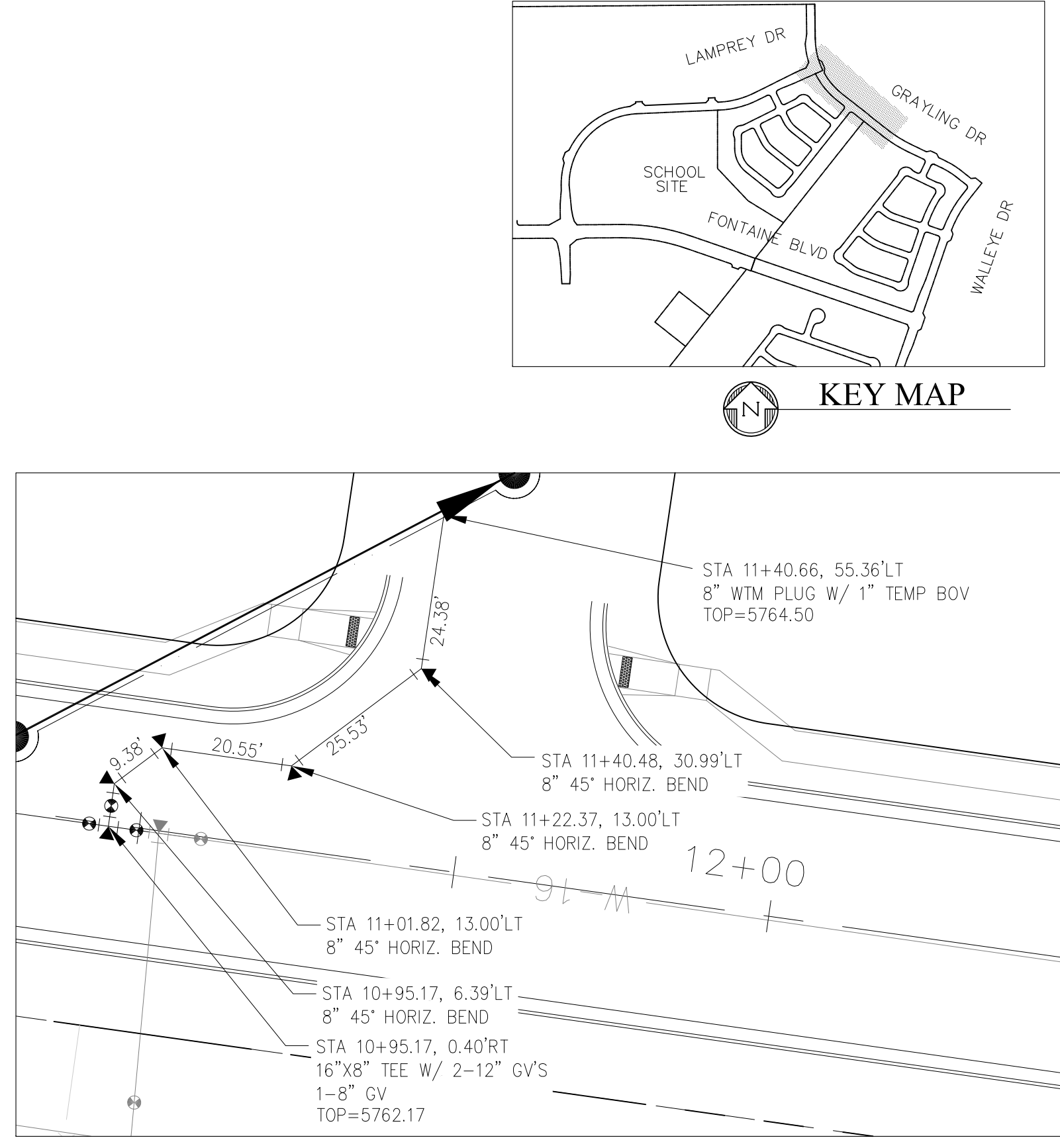
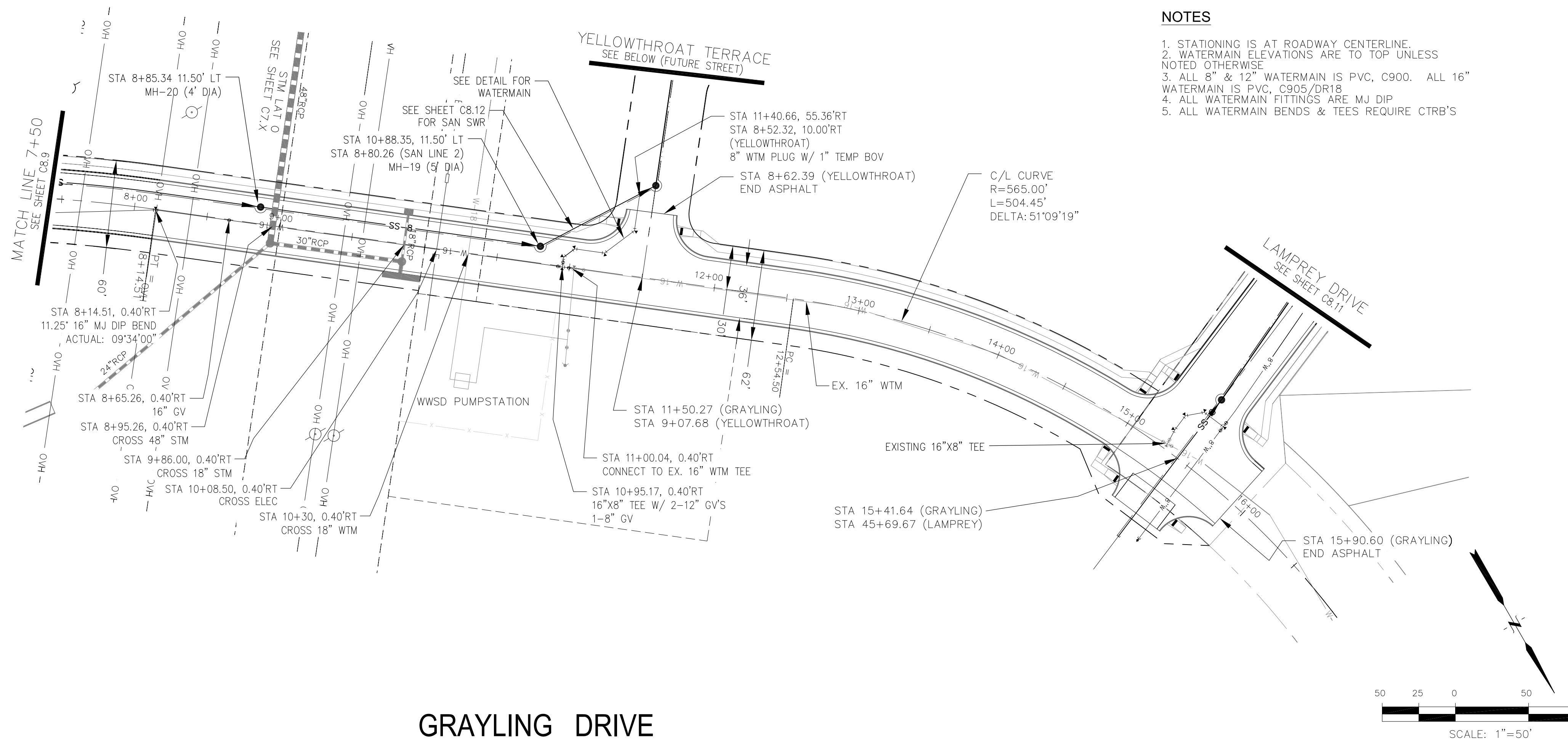
DATE: \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_  
 NO: \_\_\_\_\_  
 PREPARED FOR: **LORSON, LLC**  
 212 N. WAHSATCH AVE, SUITE 301  
 COLORADO SPRINGS, COLORADO 80903  
 PROJECT: **THE HILLS COLLECTOR STREET CONSTRUCTION**  
 FONTAINE BLVD - GRAYLING DR  
 LORSON BLVD - WALLEYE DR - LAMPREY DR  
 COLORADO SPRINGS, COLORADO  
 CONTACT: JEFF MARK

DRAWN: RLS  
 DESIGNED: RLS  
 CHECKED: RLS

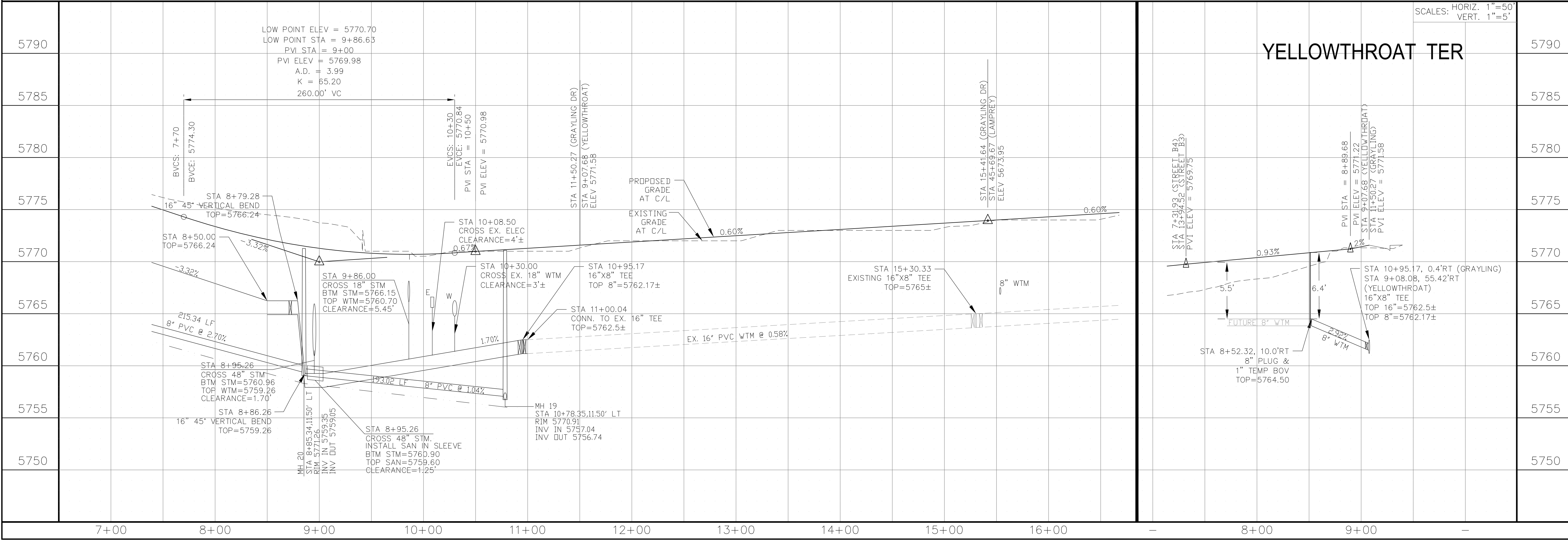
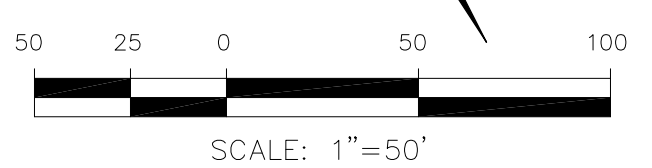
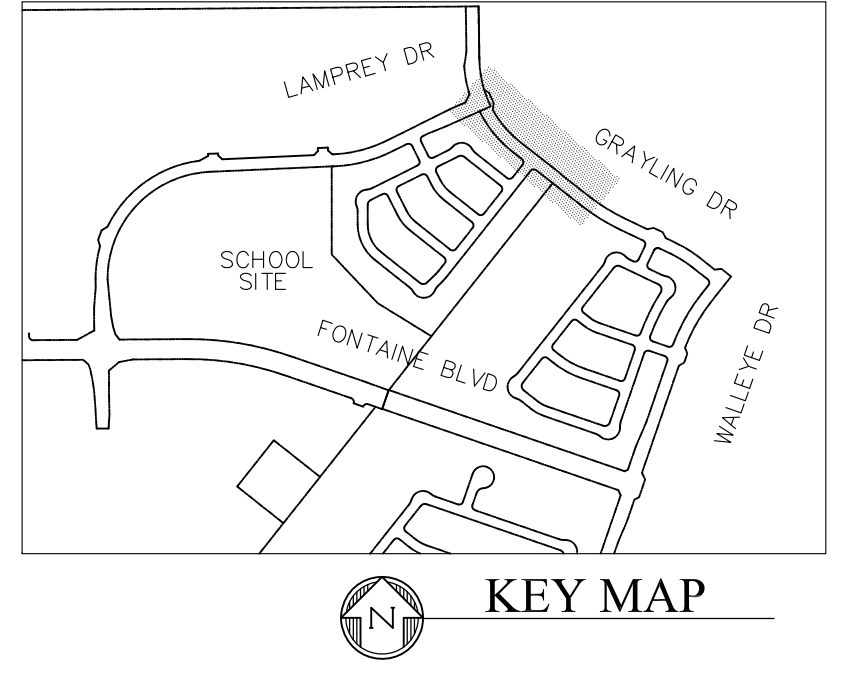


**WTM AND SANITARY PLAN/PROFILE**  
**GRAYLING DR & SCRUB JAY TR**  
**STA 0+00 TO STA 7+50**

DATE: JUNE 1, 2020  
 PROJECT NO: 100.061  
 SHEET NUMBER: C8.9  
 TOTAL SHEETS: 58



- NOTES**
1. STATIONING IS AT ROADWAY CENTERLINE.
  2. WATERMAIN ELEVATIONS ARE TO TOP UNLESS NOTED OTHERWISE.
  3. ALL 8" & 12" WATERMAIN IS PVC, C900. ALL 16" WATERMAIN IS PVC, C905/DR18.
  4. ALL WATERMAIN FITTINGS ARE MJ DIP.
  5. ALL WATERMAIN BENDS & TEES REQUIRE CTRB'S.



**CORE ENGINEERING GROUP**

15004 151st AVENUE, SUITE 300  
 PLYMOUTH, COLO 80666  
 PHONE: 719.570.1100  
 CONTACT: RICHARD L. SCHINDLER, P.E.  
 EMAIL: Rich@ceg1.com

DATE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

NO: \_\_\_\_\_

PROJECT FOR: **THE HILLS COLLECTOR STREET CONSTRUCTION**  
 212 N. WAHSATCH AVE, SUITE 301  
 COLORADO SPRINGS, COLORADO 80903  
 (719) 635-3200  
 CONTACT: JEFF MARK

DRAWN: RLS  
 DESIGNED: RLS  
 CHECKED: RLS

DATE: JUNE 1, 2020

PROJECT NO. 100.061

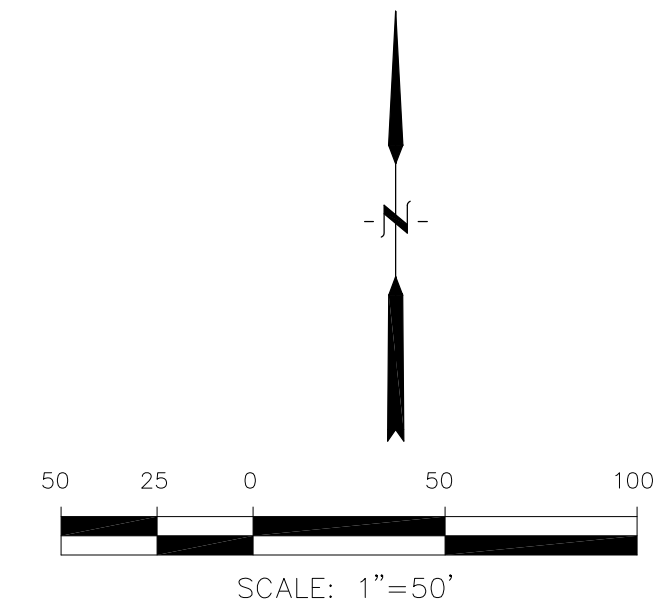
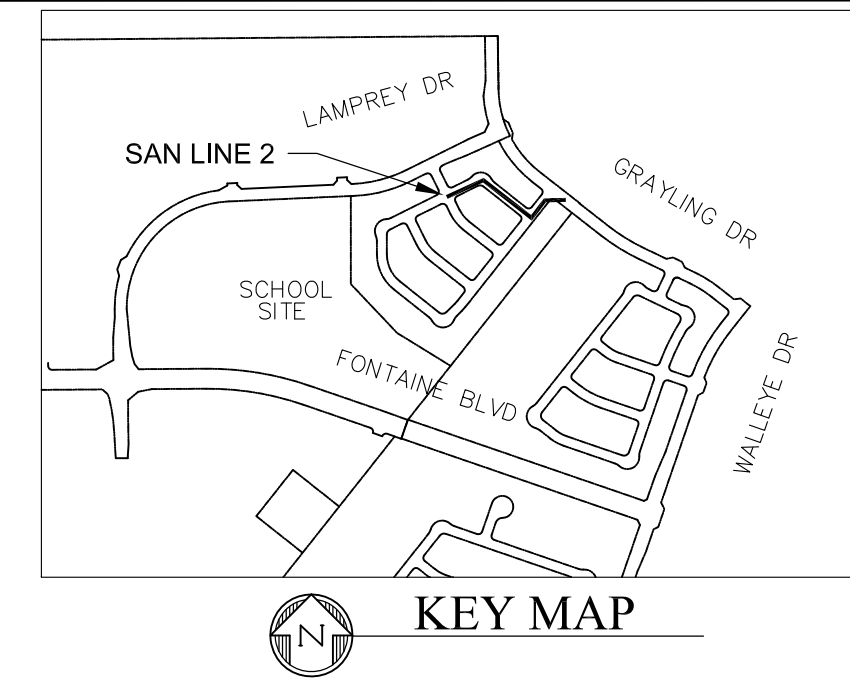
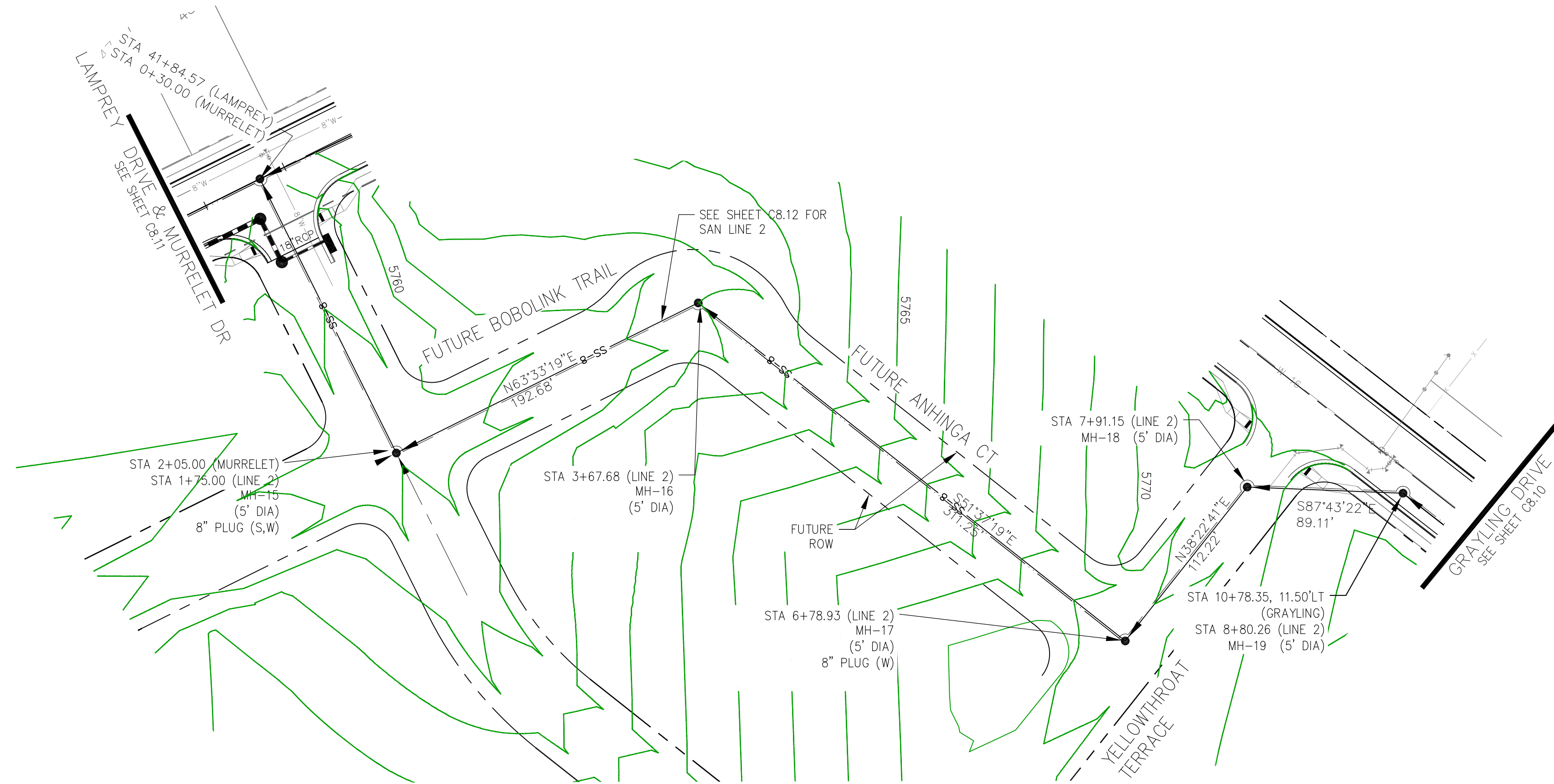
SHEET NUMBER C8.10

TOTAL SHEETS: 58

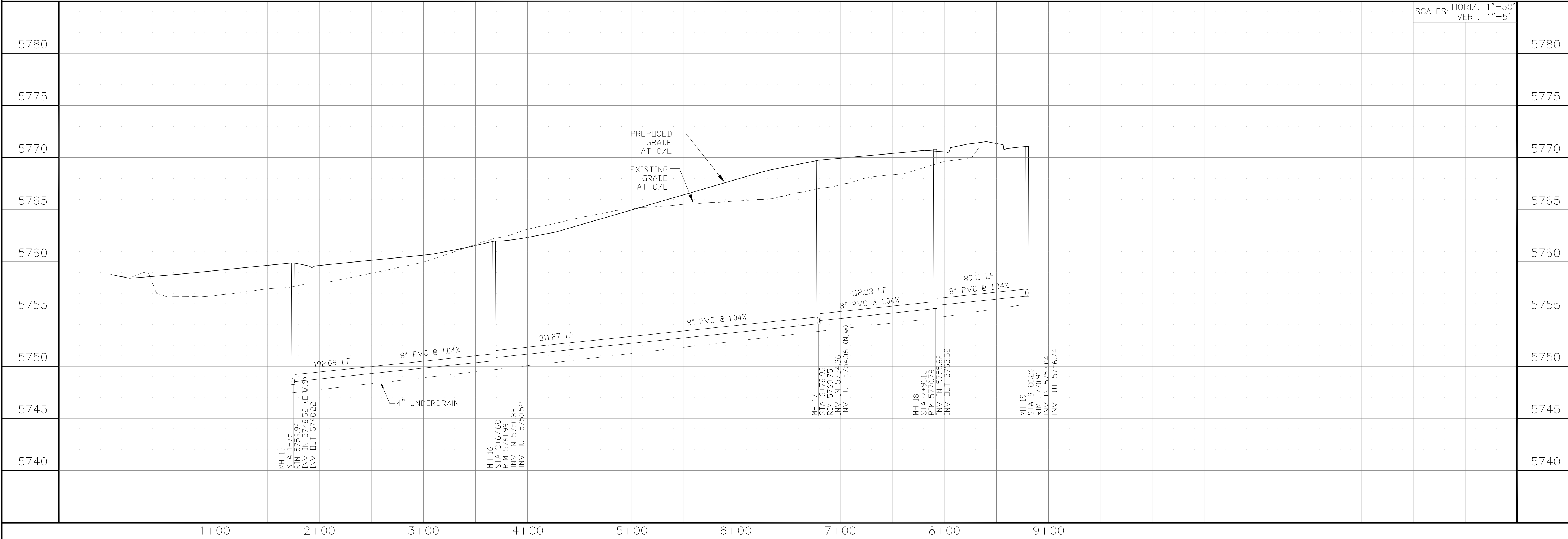


**NOTES**

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4. ALL WATERMAIN FITTINGS ARE MJ DIP
5. ALL WATERMAIN BENDS & TEES REQUIRE CTRB'S



**SAN SWR LINE 2**



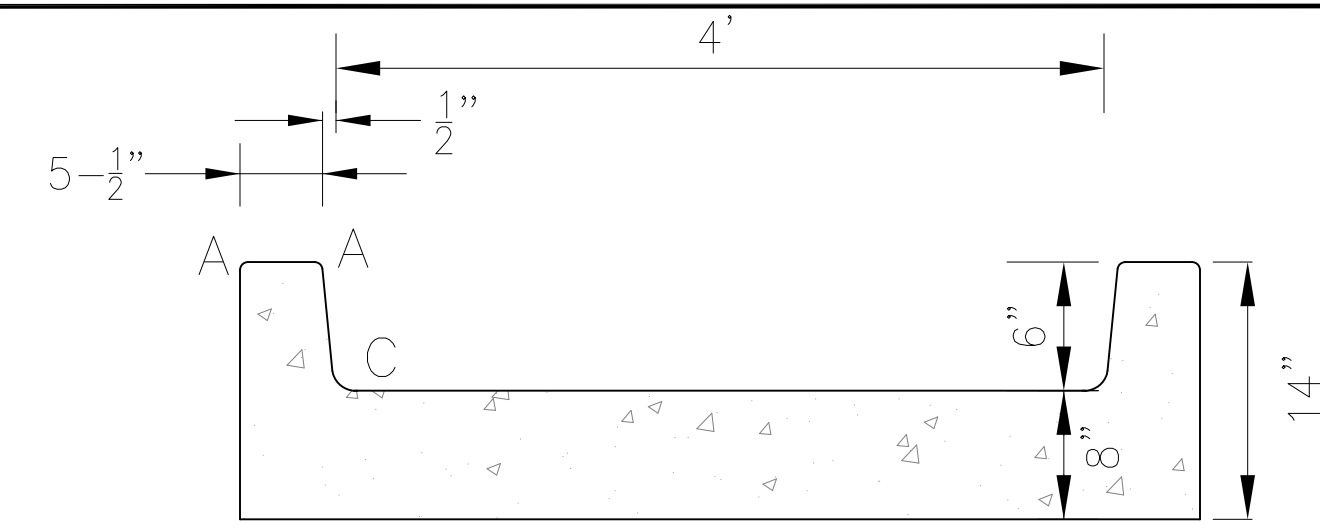
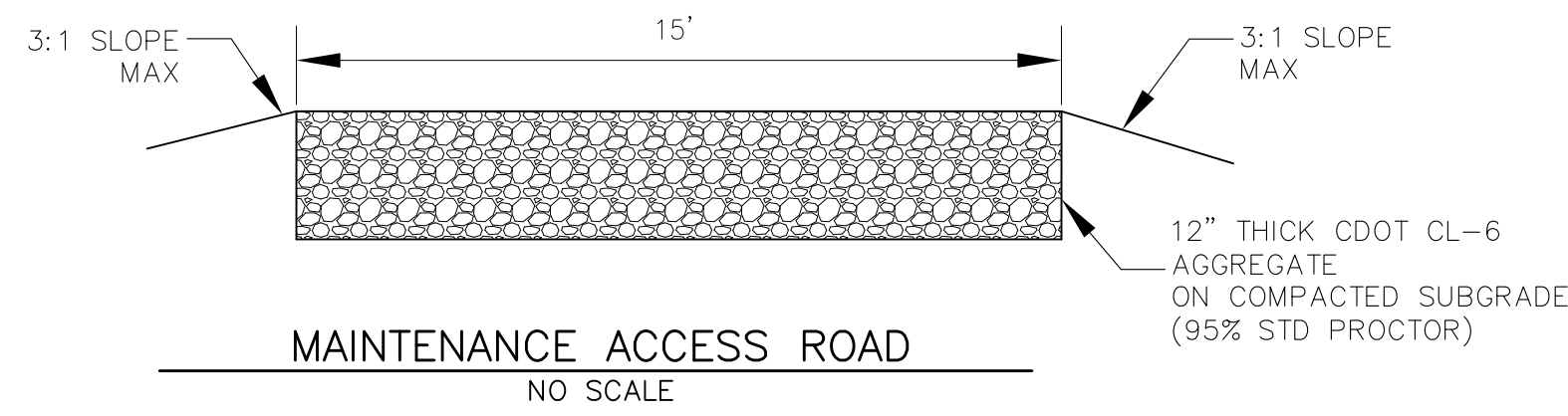
**CORE ENGINEERING GROUP**  
 15004 1ST AVENUE S.  
 PH: 719.570.5506  
 CONTACT: RICHARD L. SCHINDLER, P.E.  
 EMAIL: Rich@ceg.com

DATE: \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_  
 NO: \_\_\_\_\_  
 PREPARED FOR: **LORSON, LLC**  
 212 N. WAHSATCH AVE, SUITE 301  
 COLORADO SPRINGS, COLORADO 80903  
 CONTACT: JEFF MARK  
 PROJECT: **THE HILLS COLLECTOR STREET CONSTRUCTION**  
 FONTAINE BLVD - GRAYLING DR  
 LORSON BLVD - WALLEYE DR - LAMPREY DR  
 COLORADO SPRINGS, COLORADO

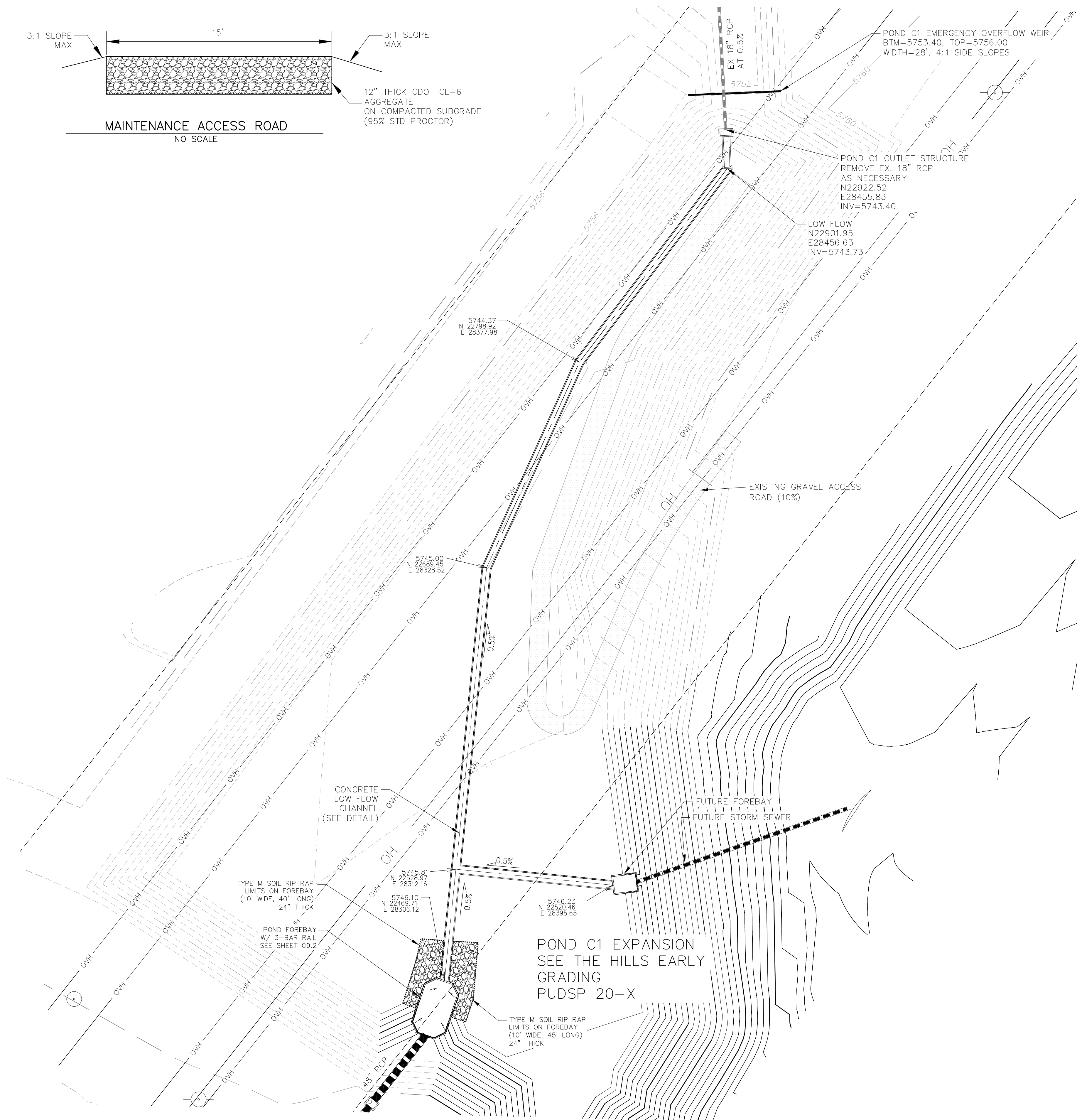
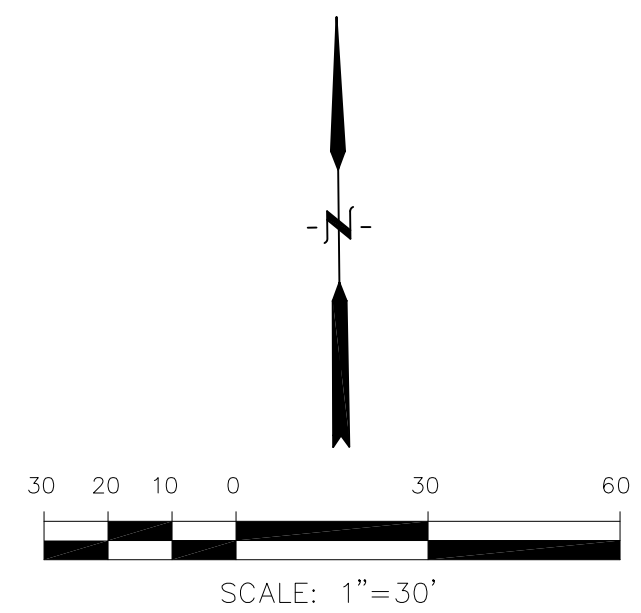
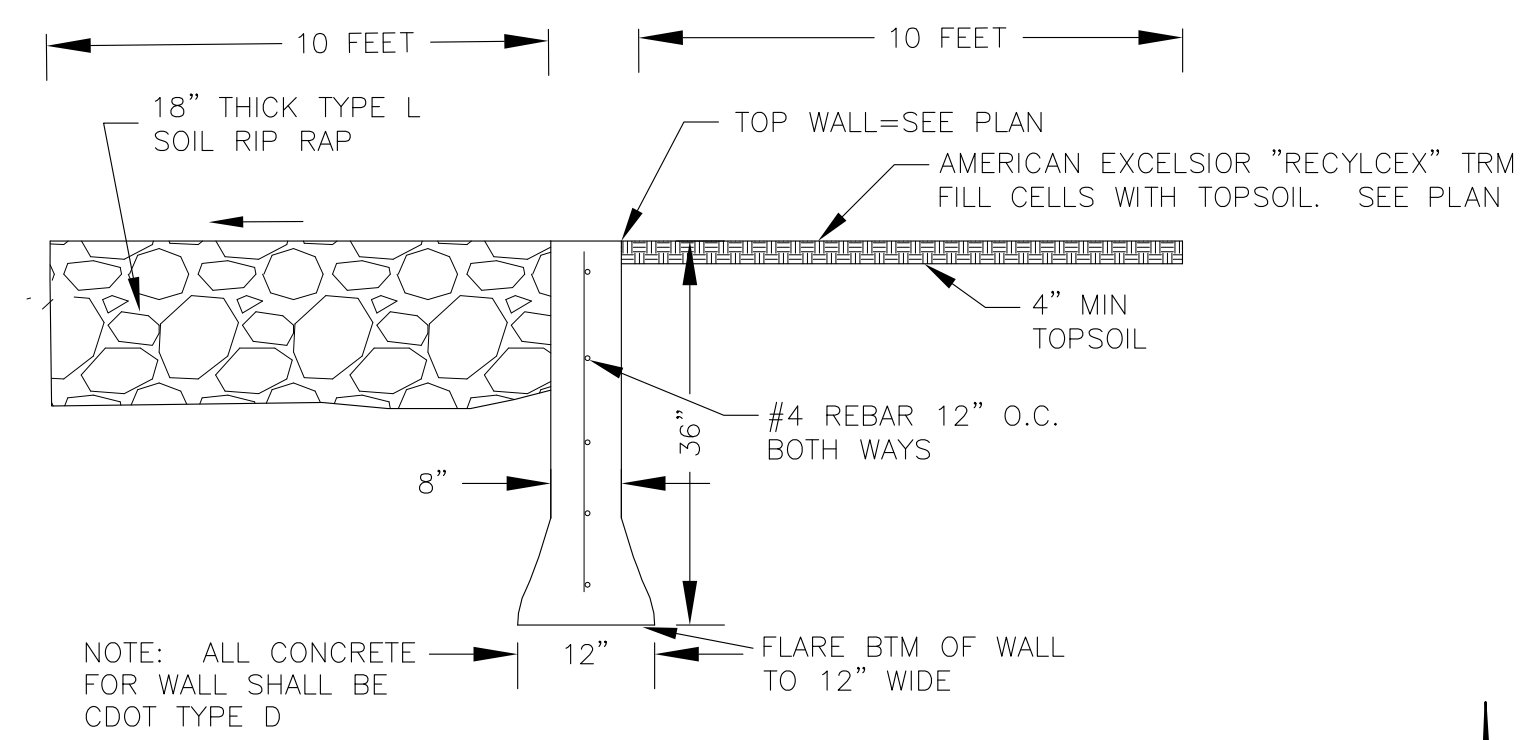
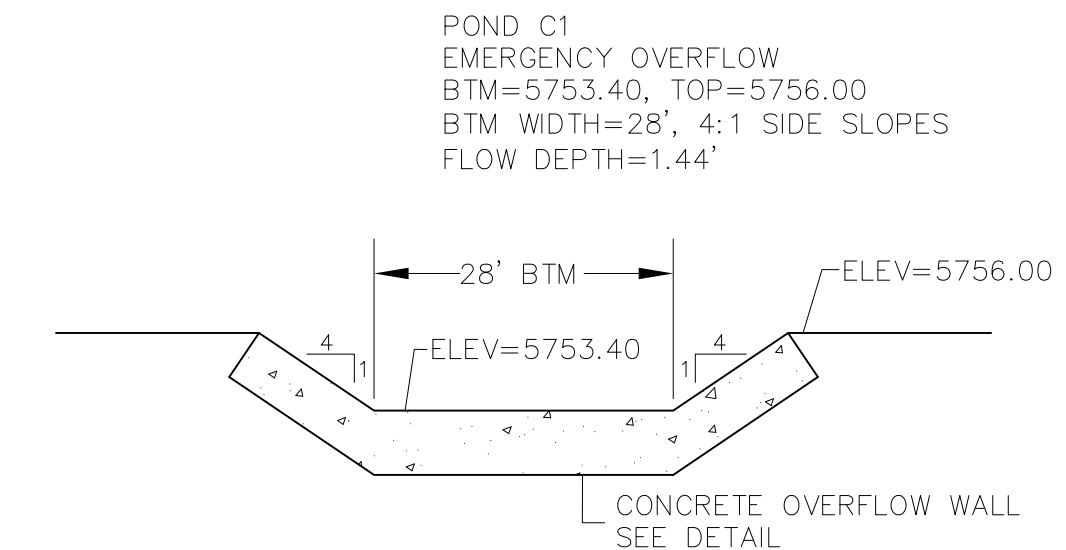
DRAWN: RLS  
 DESIGNED: RLS  
 CHECKED: RLS

**SANITARY SEWER PLAN/PROFILE**  
**LINE 2**  
**STA 1+75 TO STA 8+80**

DATE: JUNE 1, 2020  
 PROJECT NO. 100.061  
 SHEET NUMBER C8.12  
 TOTAL SHEETS: 58



LENGTH FOR RADII	
A	= 1/2"
C	= 1-1/2"



**CORE ENGINEERING GROUP**  
15004 1ST AVENUE S.  
DENVER, CO 80206  
PHONE: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@ceg1.com

DATE: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_  
NO: \_\_\_\_\_

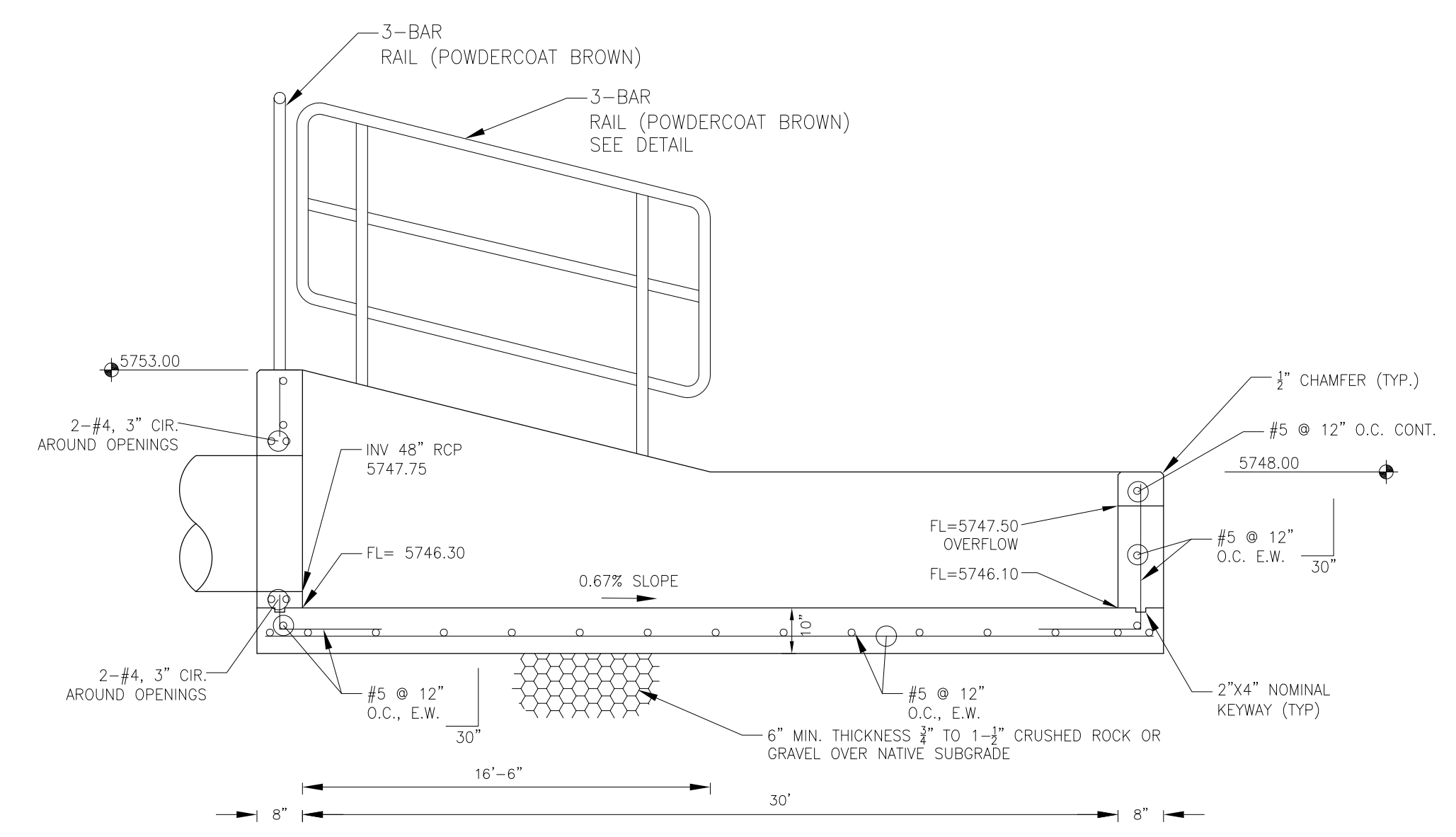
PREPARED FOR:  
**LORSON, LLC**  
212 N. WAHSATCH AVE, SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
(719) 635-3200  
CONTACT: JEFF MARK

PROJECT:  
**THE HILLS COLLECTOR STREET CONSTRUCTION**  
FONTAINE BLVD. - GRAYLING DR  
LORSON BLVD - WALLEYE DR - LAMPREY DR  
COLORADO SPRINGS, COLORADO

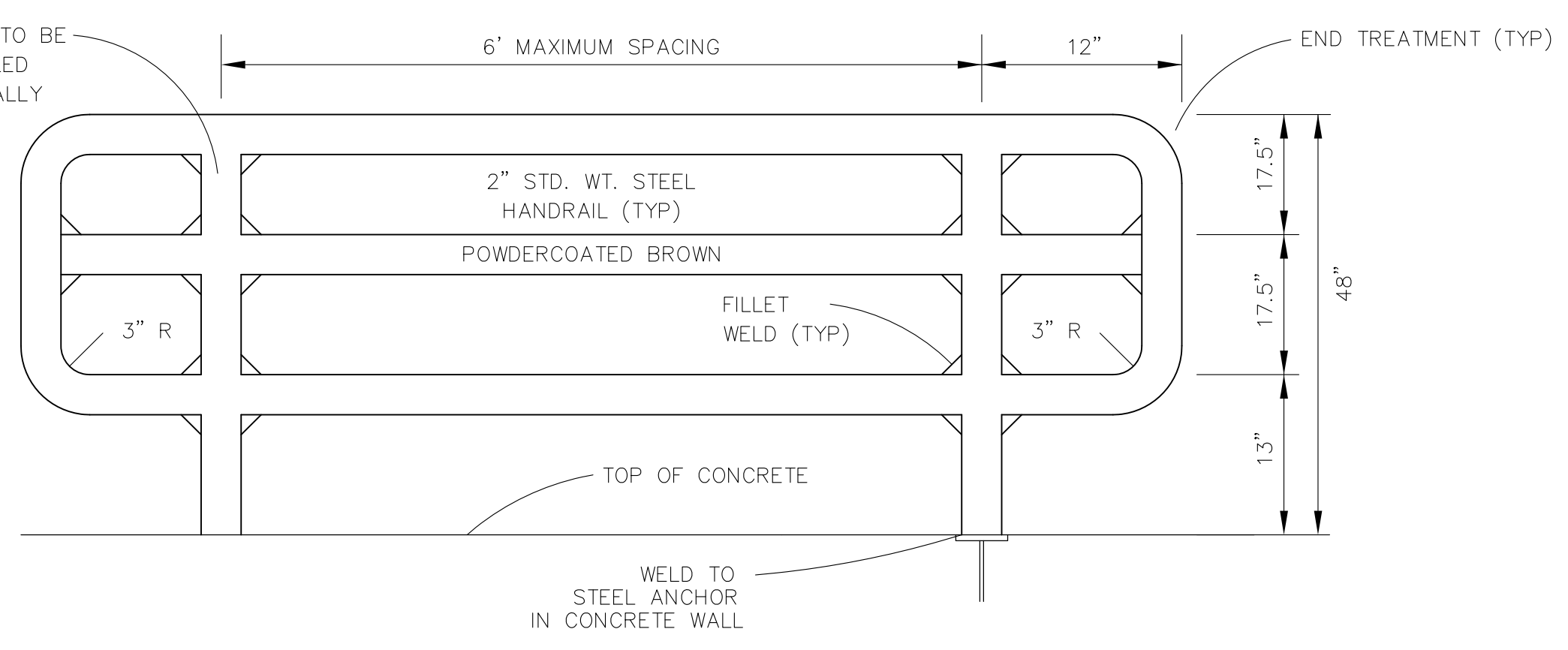
DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

**POND C1 FOREBAY, LOW FLOW CHANNEL AND OUTLET STRUCTURE LAYOUT**

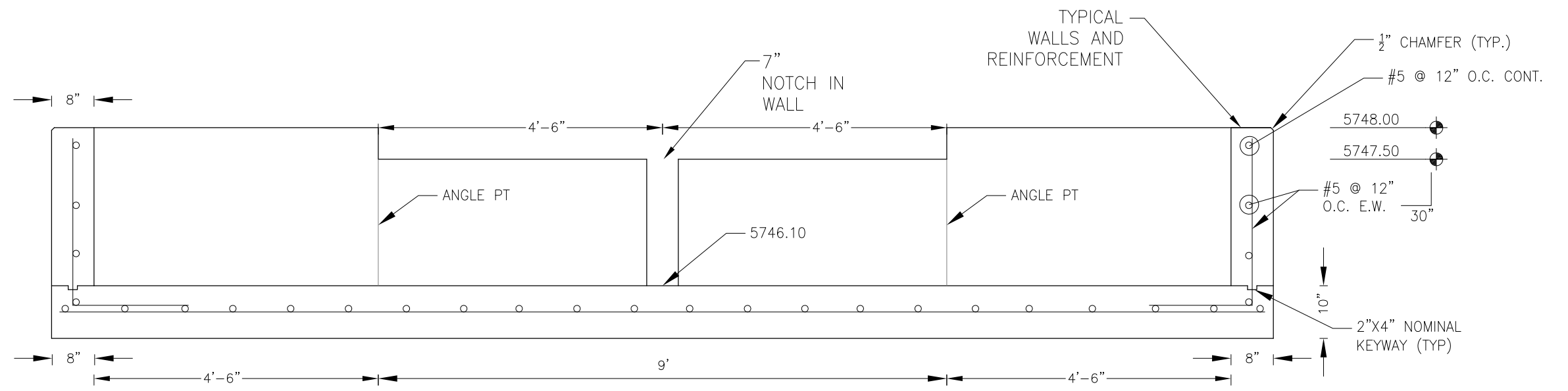
DATE: JUNE 1, 2020  
PROJECT NO. 100.061  
SHEET NUMBER C9.1  
TOTAL SHEETS: 58



**FOREBAY SECTION A-A**  
 NO SCALE

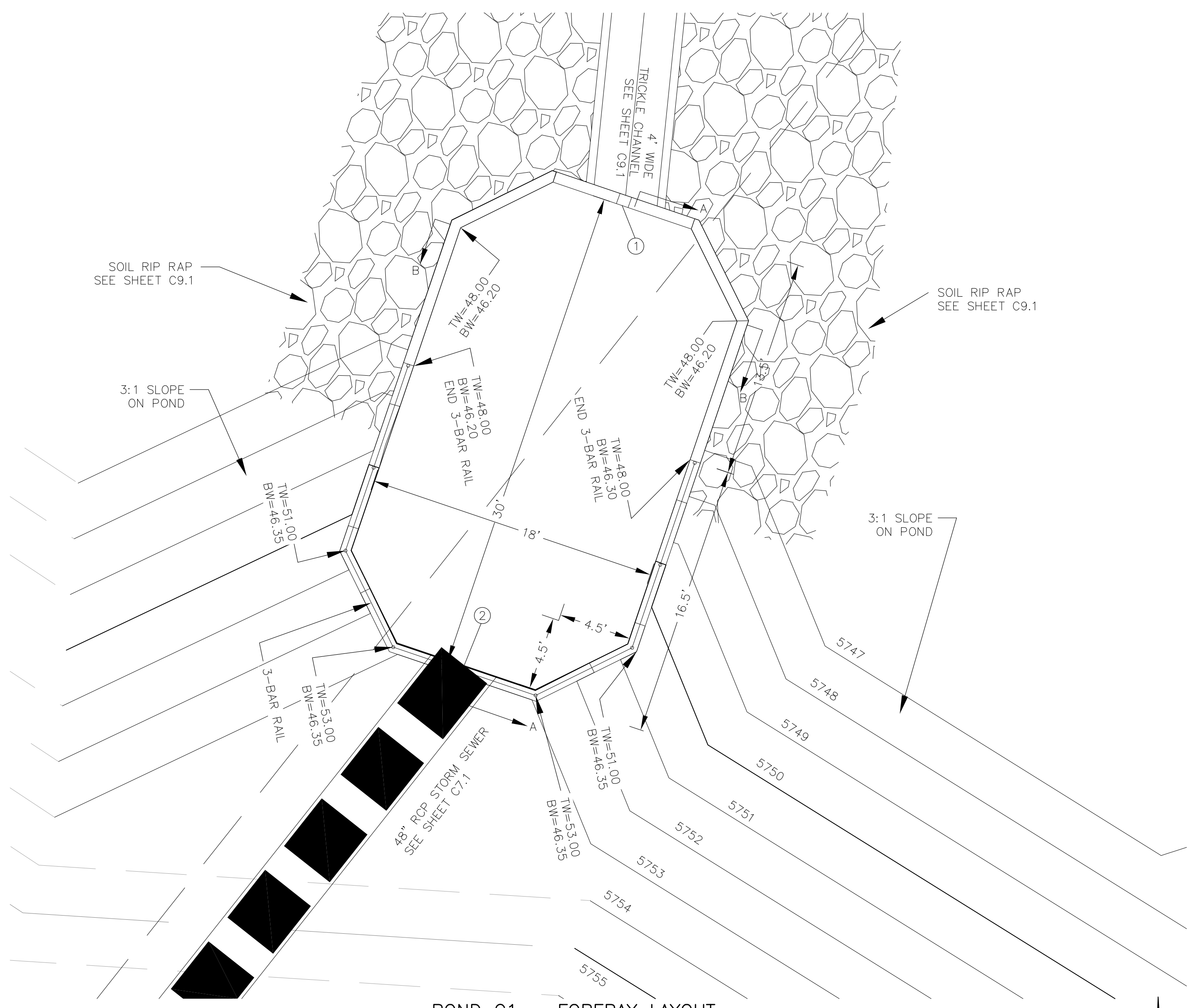


**3-BAR RAIL DETAIL**  
 NO SCALE



**FOREBAY SECTION B-B**  
 NO SCALE

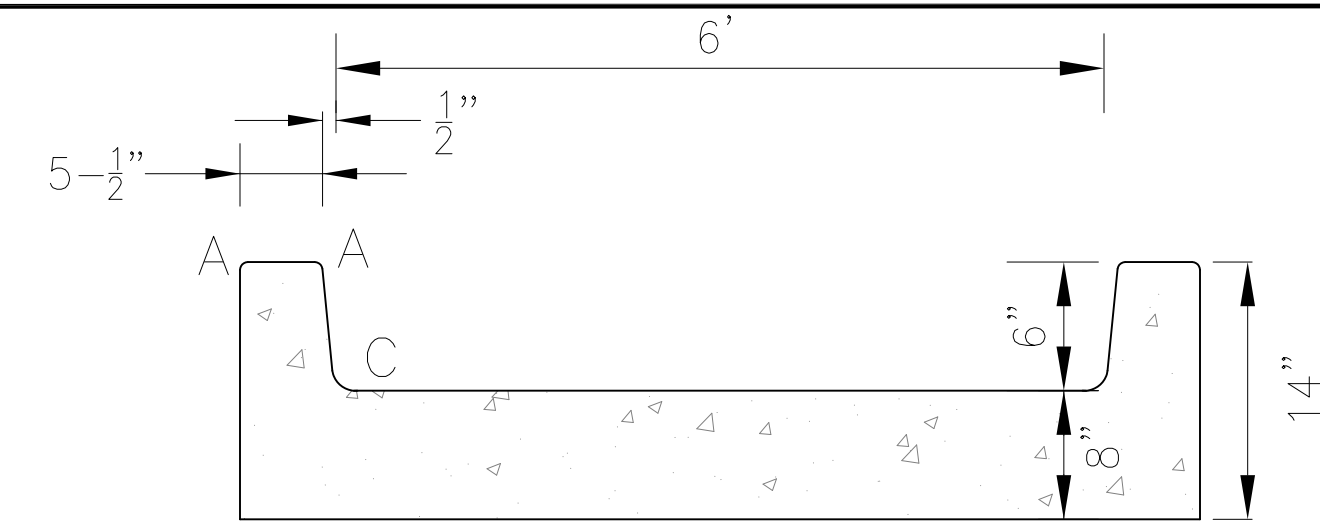
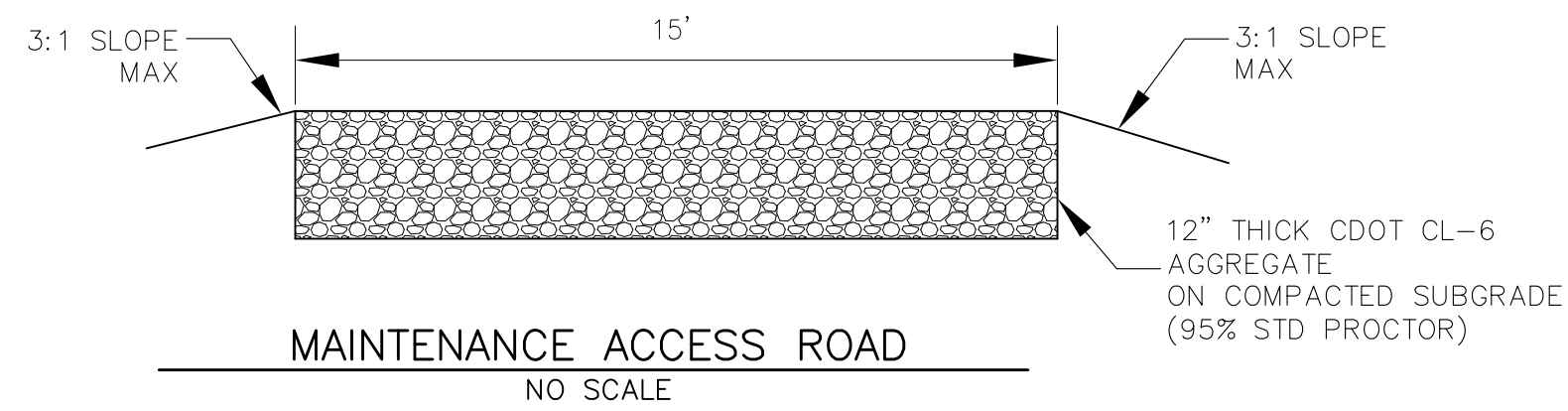
NOTE: ALL CONCRETE FOR FOREBAY SHALL BE CDOT TYPE D



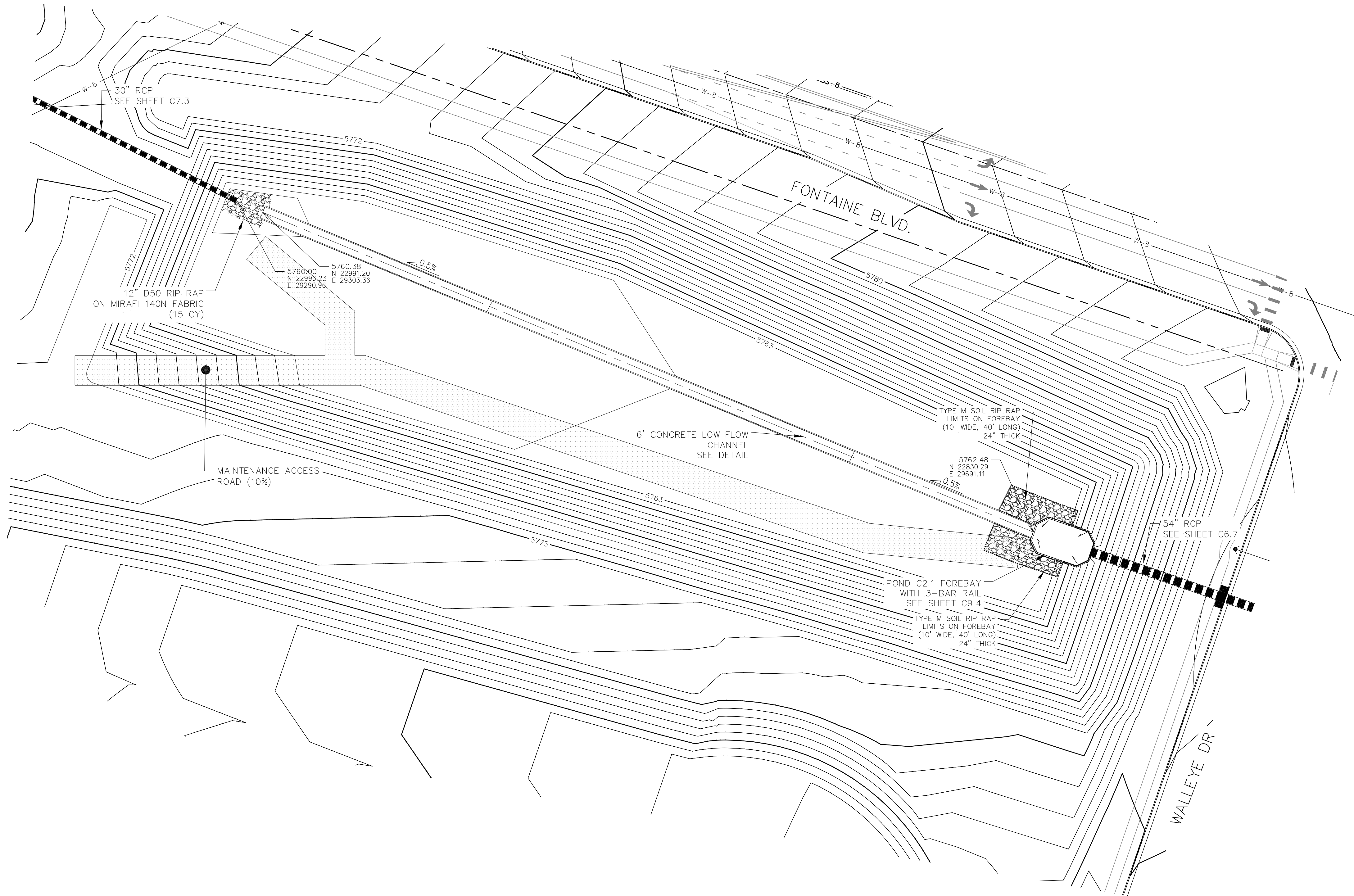
**POND C1 - FOREBAY LAYOUT**  
 SCALE: 1"=5'

POINT TABLE (FOREBAY)				
NUMBER	NORTHING	EASTING	ELEVATION	NOTES
1	22469.08	28305.90	5746.10	FOREBAY BOTTOM
2	22440.71	28296.15	5746.30	FOREBAY BOTTOM, INV 48"=5747.75





LENGTH FOR RADII	
A	= 1/2"
C	= 1-1/2"



**CORE ENGINEERING GROUP**  
15004 1ST AVENUE S.  
DENVER, CO 80202  
PH: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@ceg1.com

DATE: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_  
NO: \_\_\_\_\_

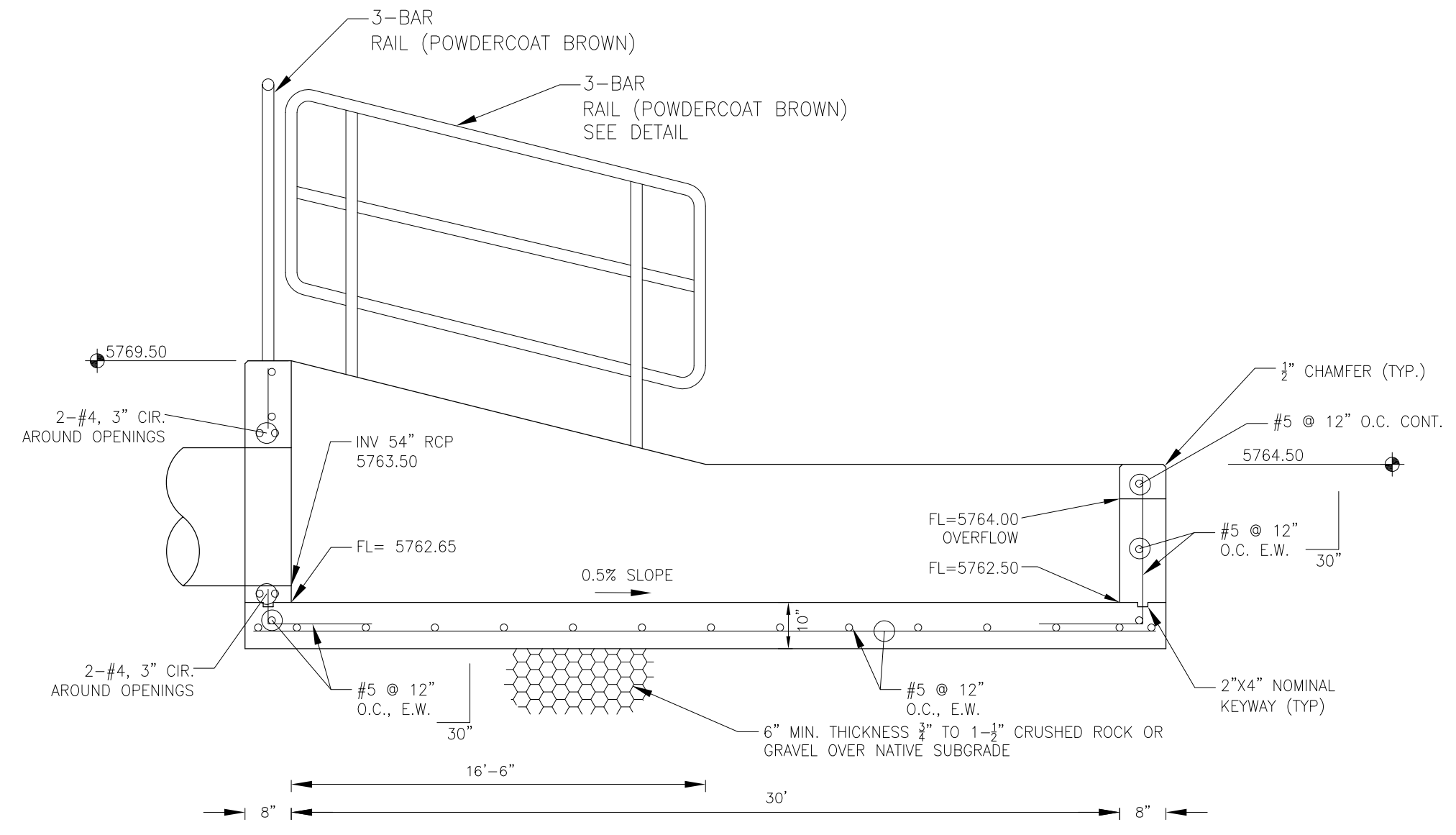
PREPARED FOR: **LORSON, LLC**  
212 N. WAHSATCH AVE, SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
(719) 635-3200  
CONTACT: JEFF MARK

PROJECT: **THE HILLS COLLECTOR STREET CONSTRUCTION**  
FONTAINE BLVD. - GRAYLING DR  
LORSON BLVD - WALLEYE DR - LAMPREY DR  
COLORADO SPRINGS, COLORADO

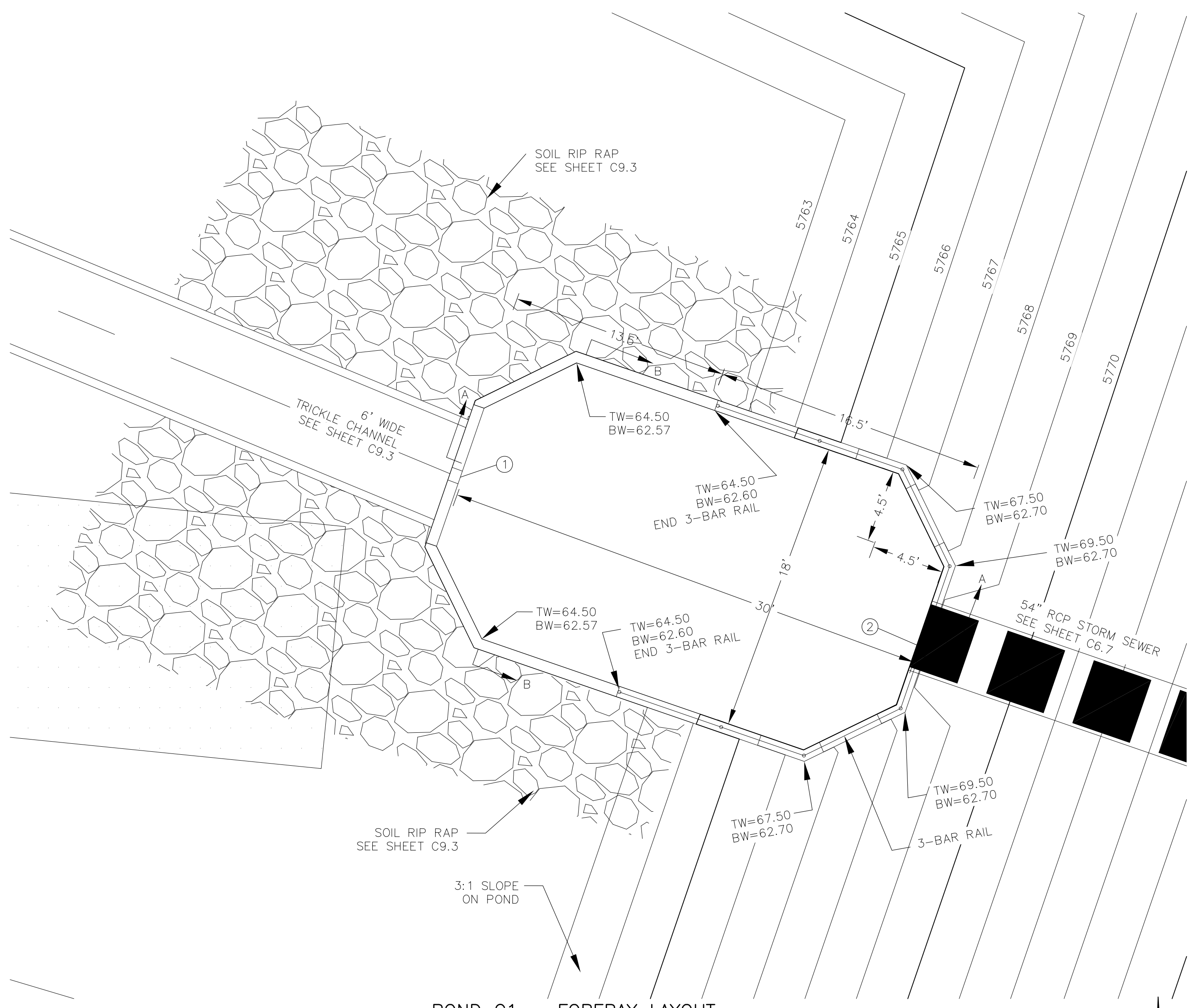
DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

**POND C2.1  
FOREBAY AND LOW FLOW CHANNEL  
LAYOUT**

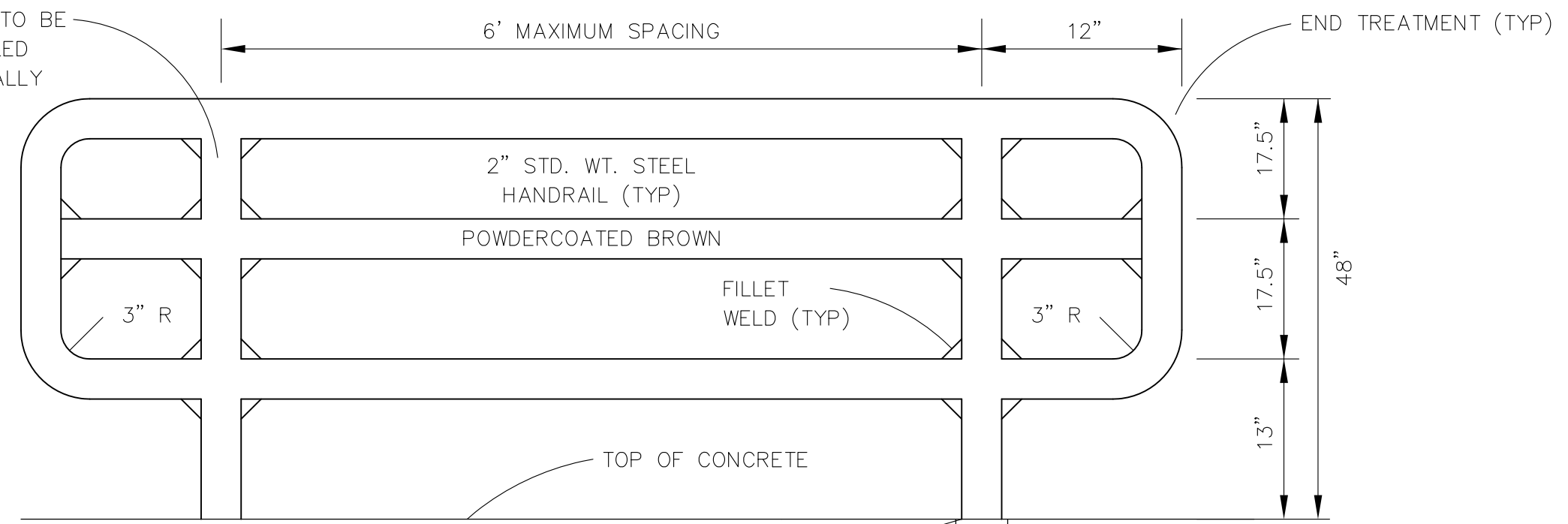
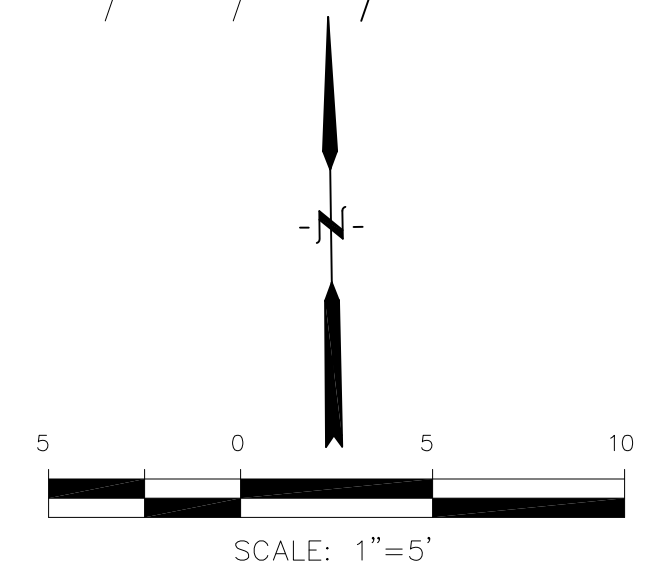
DATE: JUNE 1, 2020  
PROJECT NO. 100.061  
SHEET NUMBER C9.3  
TOTAL SHEETS: 58



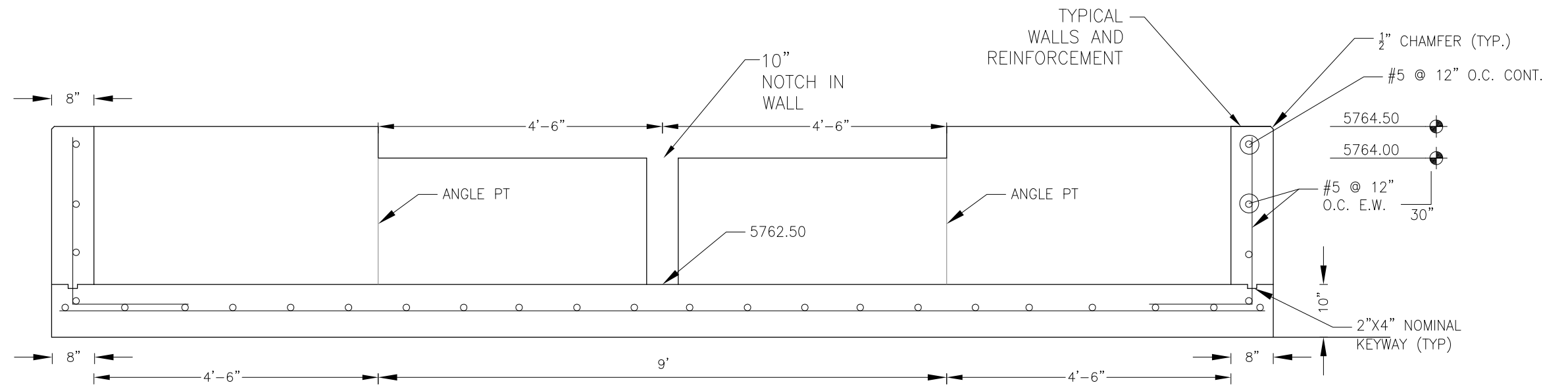
**FOREBAY SECTION A-A**  
 NO SCALE



**POND C1 - FOREBAY LAYOUT**  
 SCALE: 1"=5'



**3-BAR RAIL DETAIL**  
 NO SCALE

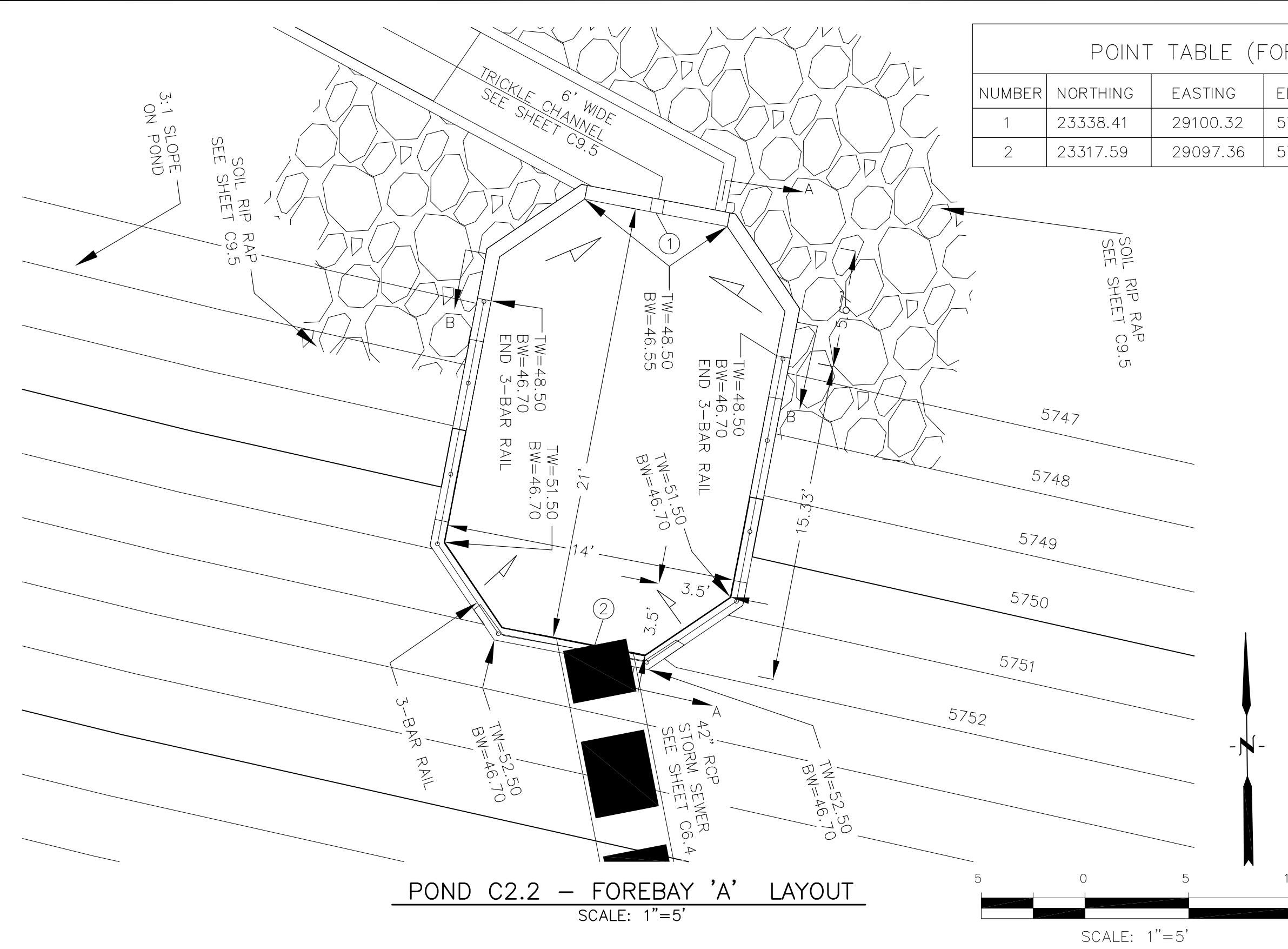


**FOREBAY SECTION B-B**  
 NO SCALE

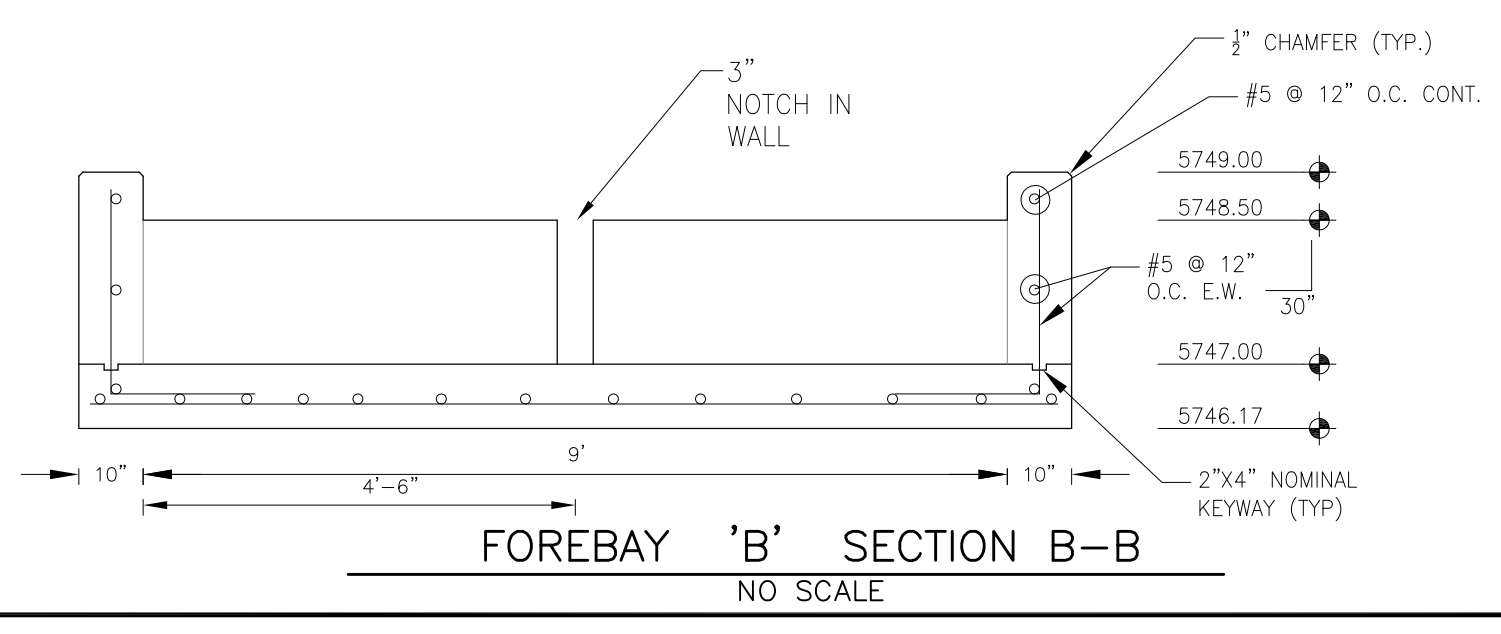
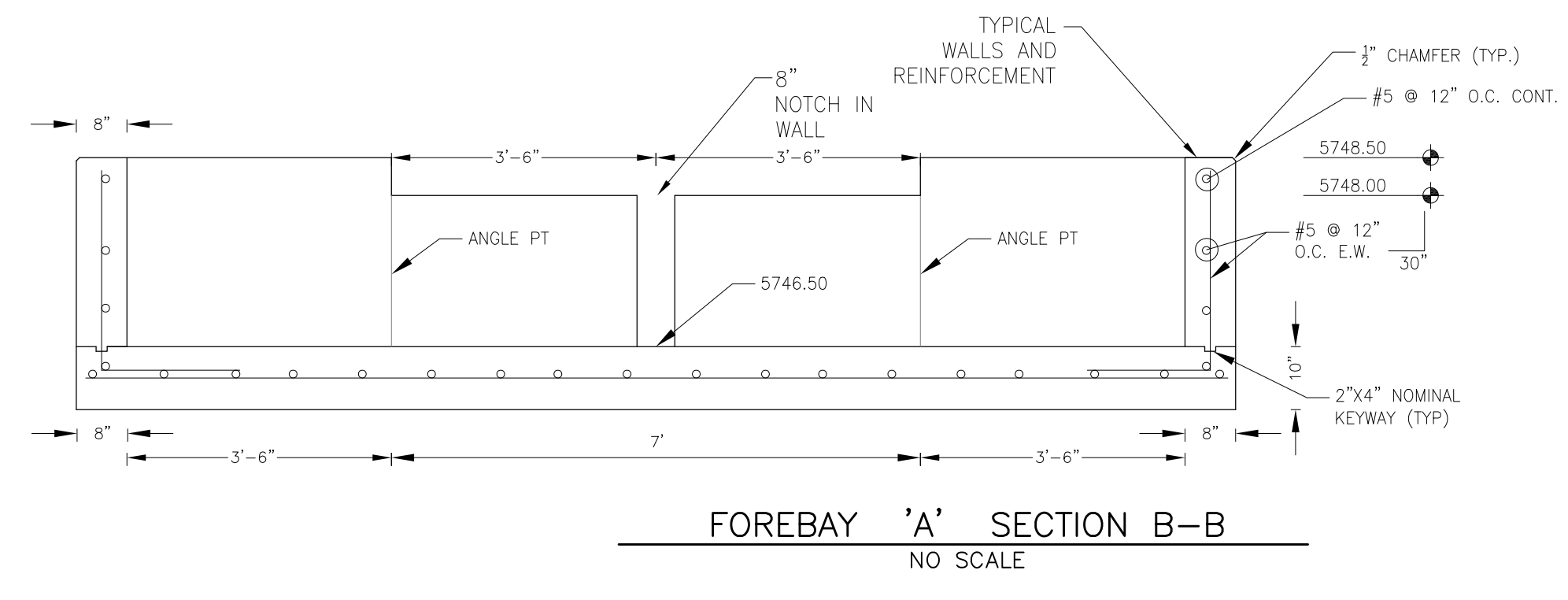
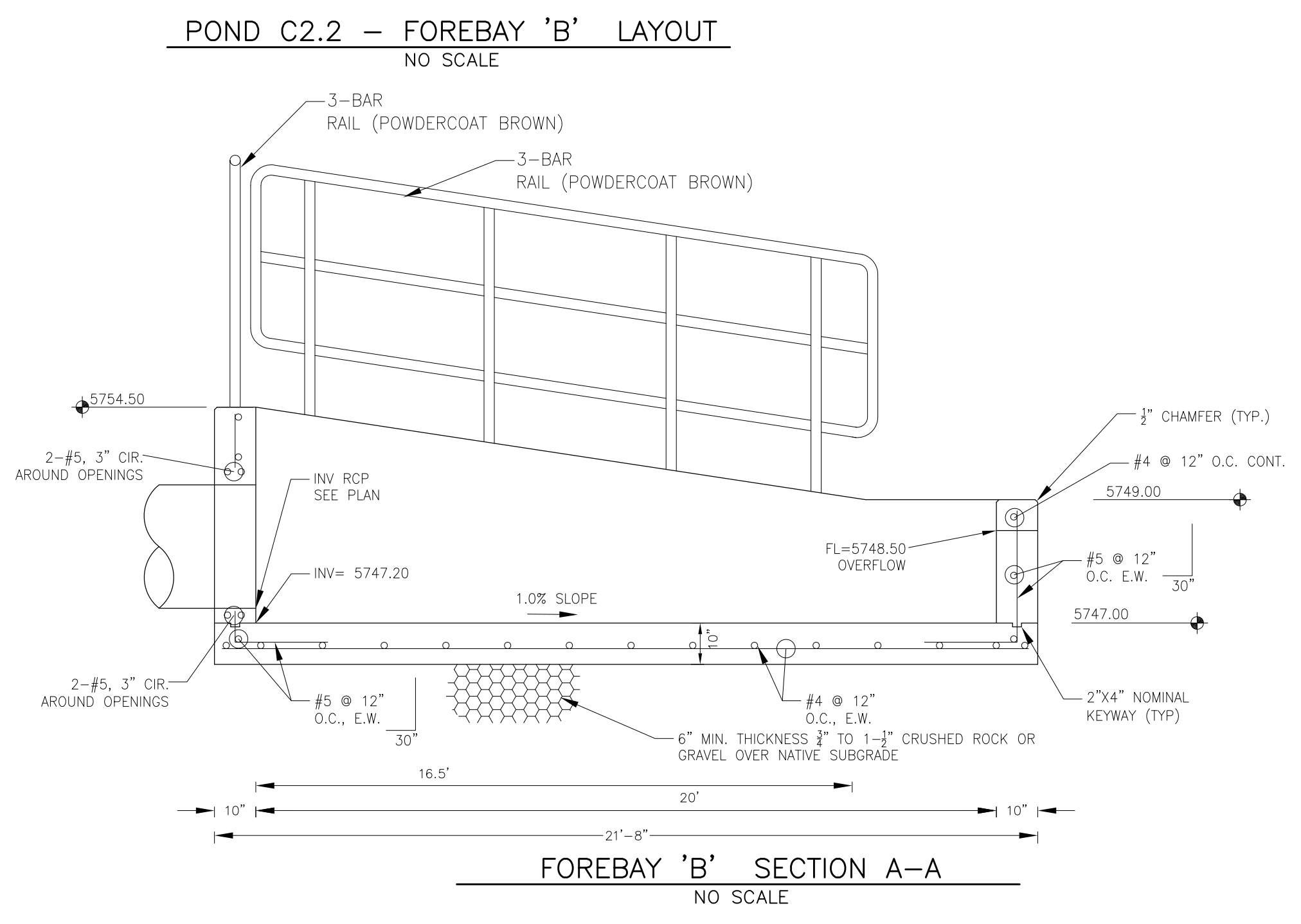
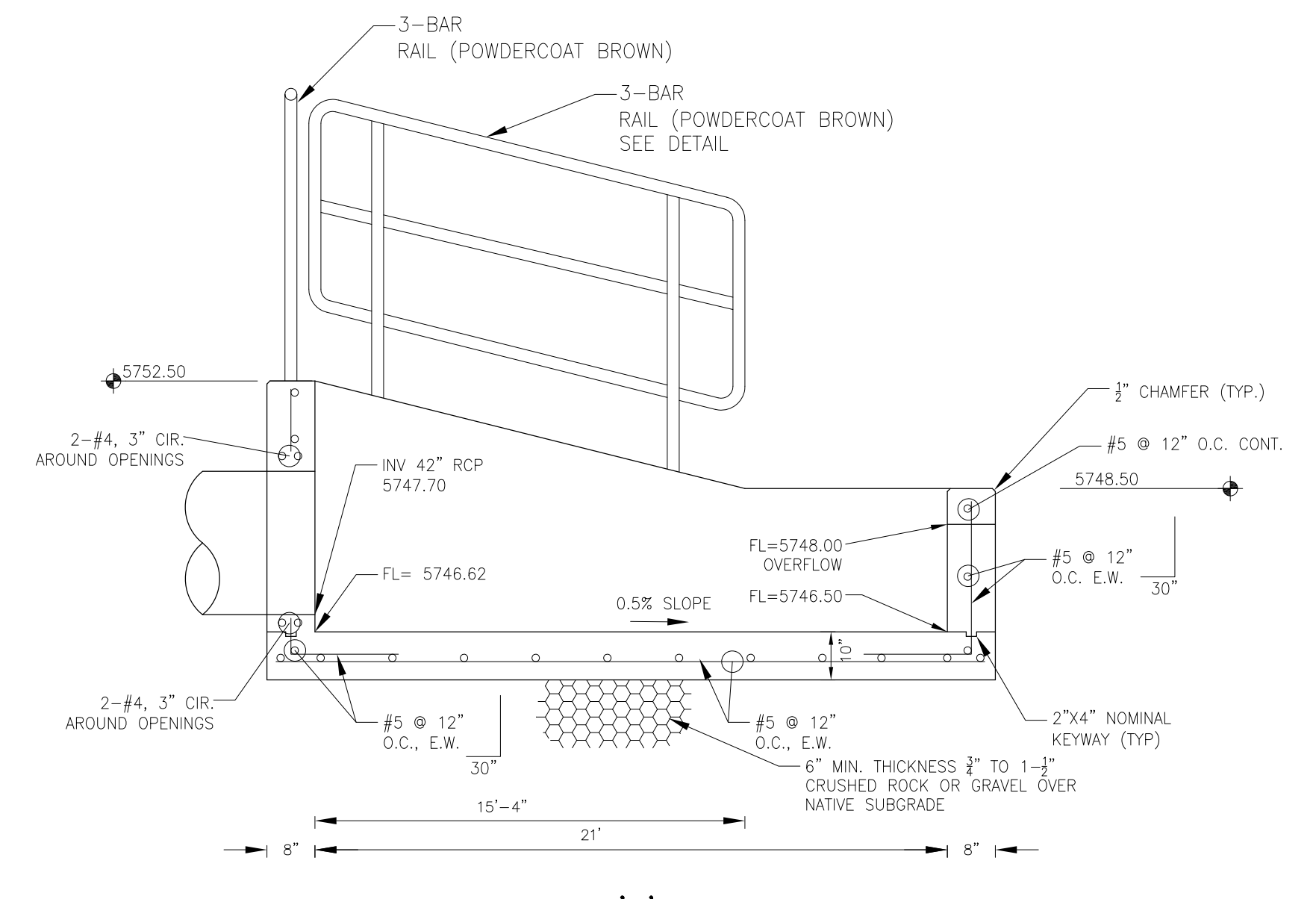
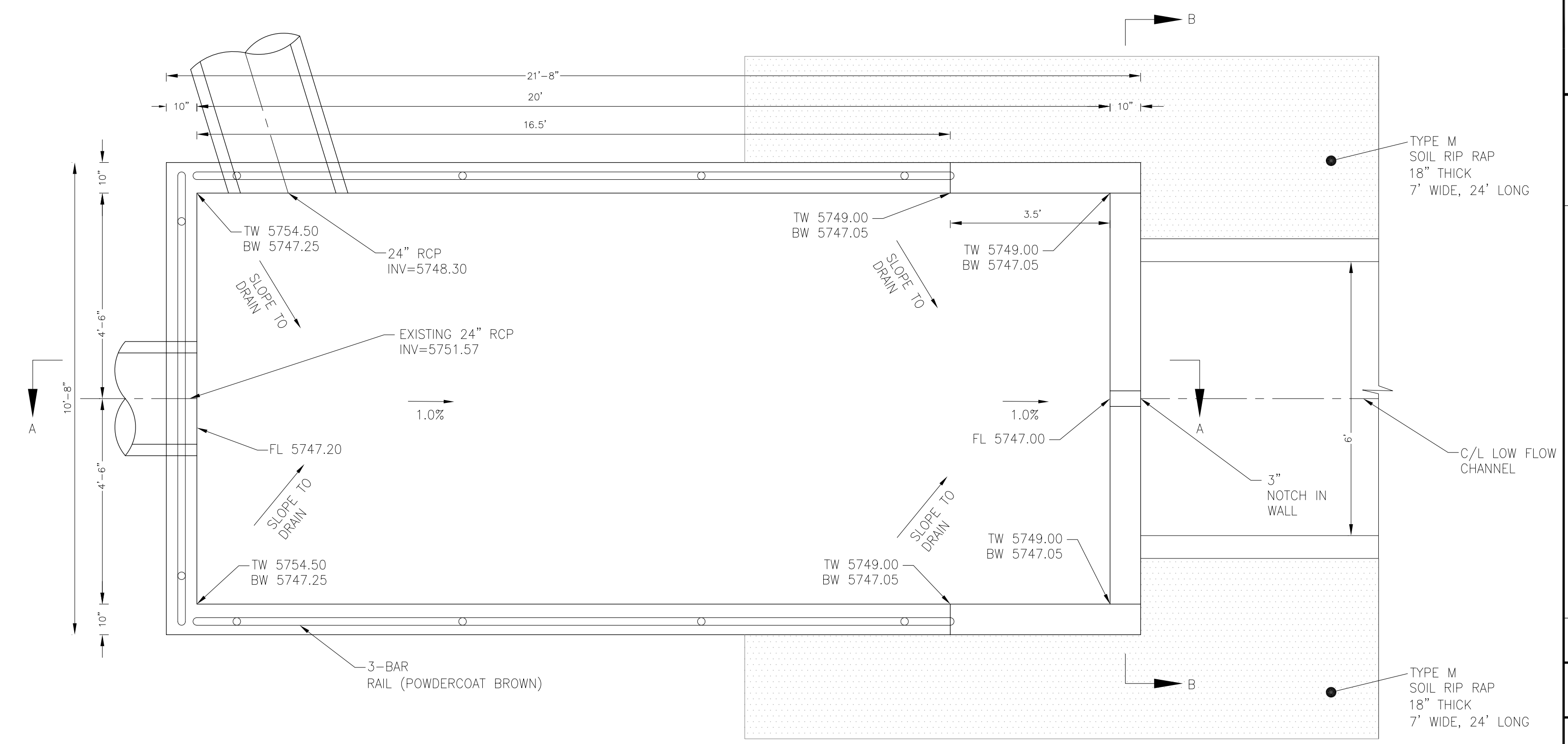
NOTE: ALL CONCRETE FOR FOREBAY SHALL BE CDOT TYPE D

POINT TABLE (FOREBAY)				
NUMBER	NORTHING	EASTING	ELEVATION	NOTES
1	22830.08	29691.75	5762.50	FOREBAY BOTTOM
2	22820.31	29720.11	5762.65	FOREBAY BOTTOM, INV 54"=5763.50





POINT TABLE (FOREBAY)				
NUMBER	NORTHING	EASTING	ELEVATION	NOTES
1	23338.41	29100.32	5746.50	FOREBAY BOTTOM
2	23317.59	29097.36	5746.62	FOREBAY BOTTOM, INV 42"=5747.70



NOTE: ALL CONCRETE FOR FOREBAY SHALL BE CDOT TYPE D

**CORE ENGINEERING GROUP**  
 15004 151<sup>ST</sup> AVENUE S.  
 P.O. BOX 5506  
 PHOENIX, AZ 85018  
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 EMAIL: Rich@cegi.com

PREPARED FOR:  
**LORSON, LLC**  
 212 N. WAHSATCH AVE, SUITE 301  
 COLORADO SPRINGS, COLORADO 80903  
 CONTACT: JEFF MARK

PROJECT:  
**THE HILLS COLLECTOR STREET CONSTRUCTION**  
 FONTAINE BLVD. - GRAYLING DR  
 LORSON BLVD - WALLEYE DR - LAMPREY DR  
 COLORADO SPRINGS, COLORADO

DATE: \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_  
 NO: \_\_\_\_\_

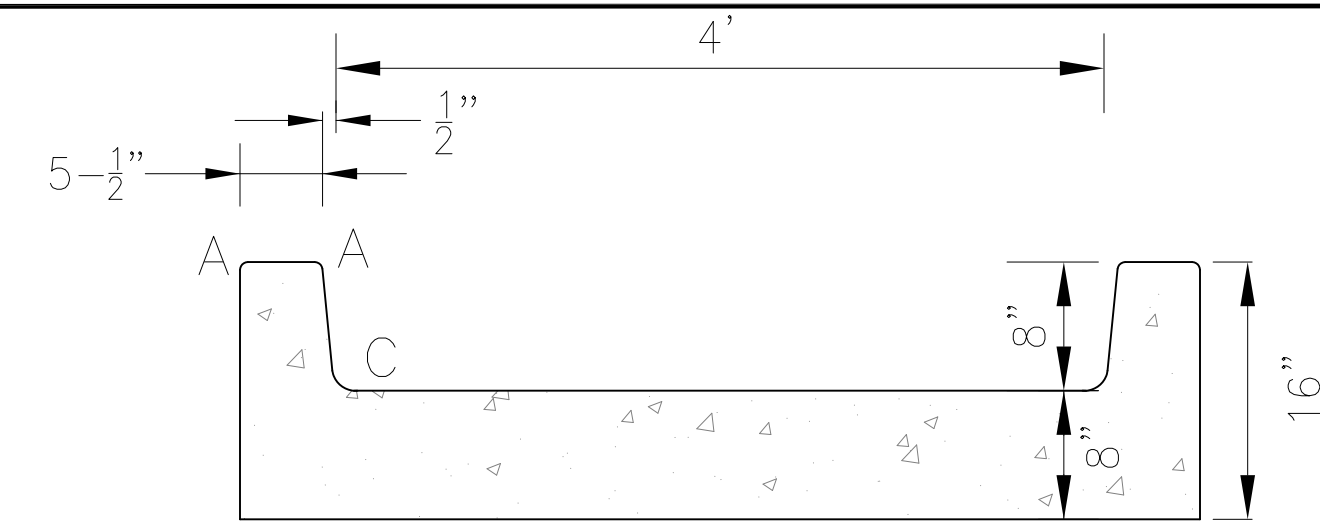
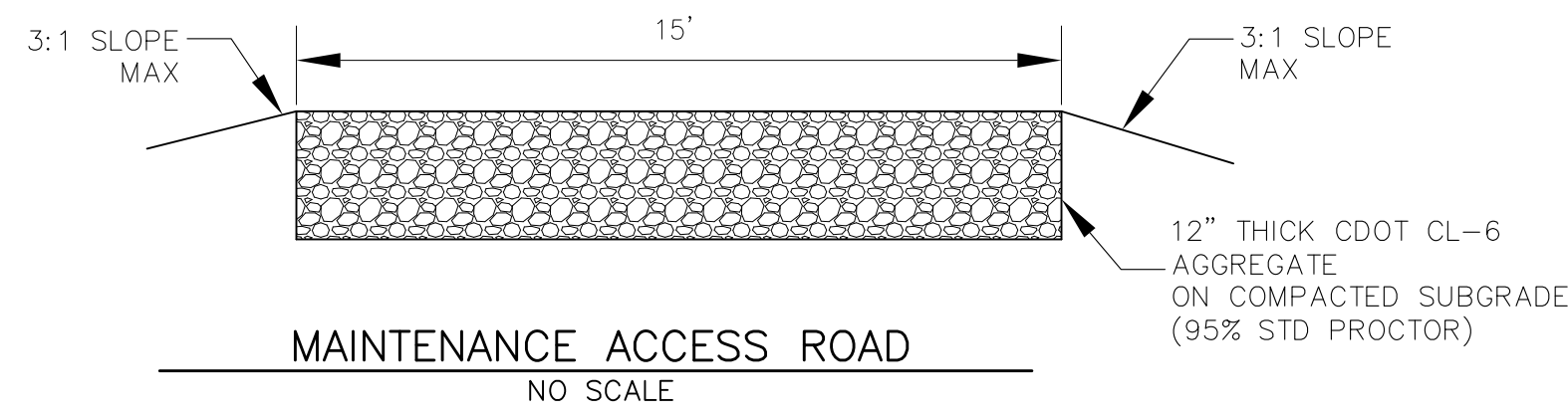
DRAWN: RLS  
 DESIGNED: RLS  
 CHECKED: RLS

**POND C2.2**

**FOREBAY DETAILS**

DATE: JUNE 1, 2020  
 PROJECT NO: 100.061  
 SHEET NUMBER: C9.6  
 TOTAL SHEETS: 58

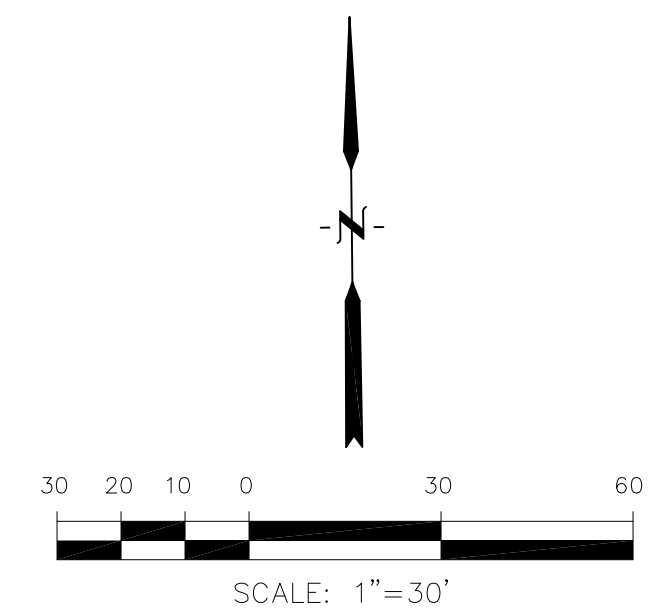
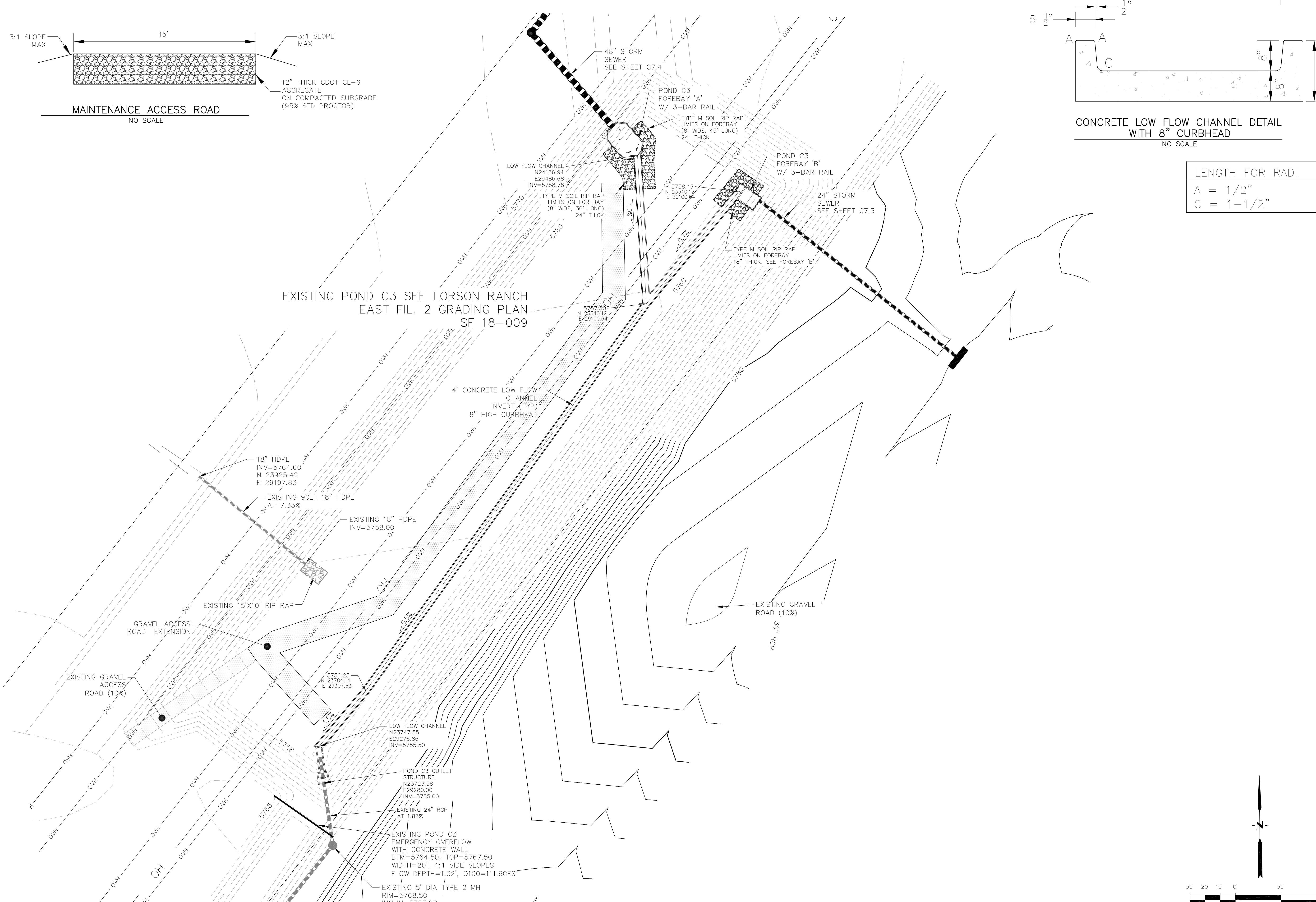




LENGTH FOR RADII

A = 1/2"
C = 1-1/2"

EXISTING POND C3 SEE LORSON RANCH EAST FIL. 2 GRADING PLAN SF 18-009



**CORE ENGINEERING GROUP**  
 15004 1ST AVENUE S.  
 PHOENIX, AZ 85006  
 CONTACT: RICHARD L. SCHINDLER, P.E.  
 EMAIL: Rich@cge1.com

DATE: \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_  
 NO: \_\_\_\_\_

PREPARED FOR: **LORSON, LLC**  
 212 N. WAHSATCH AVE, SUITE 301  
 COLORADO SPRINGS, COLORADO 80903  
 CONTACT: JEFF MARK

PROJECT: **THE HILLS COLLECTOR STREET CONSTRUCTION**  
 FONTAINE BLVD - GRAYLING DR  
 LORSON BLVD - WALLEYE DR - LAMPREY DR  
 COLORADO SPRINGS, COLORADO

DRAWN: RLS  
 DESIGNED: RLS  
 CHECKED: RLS

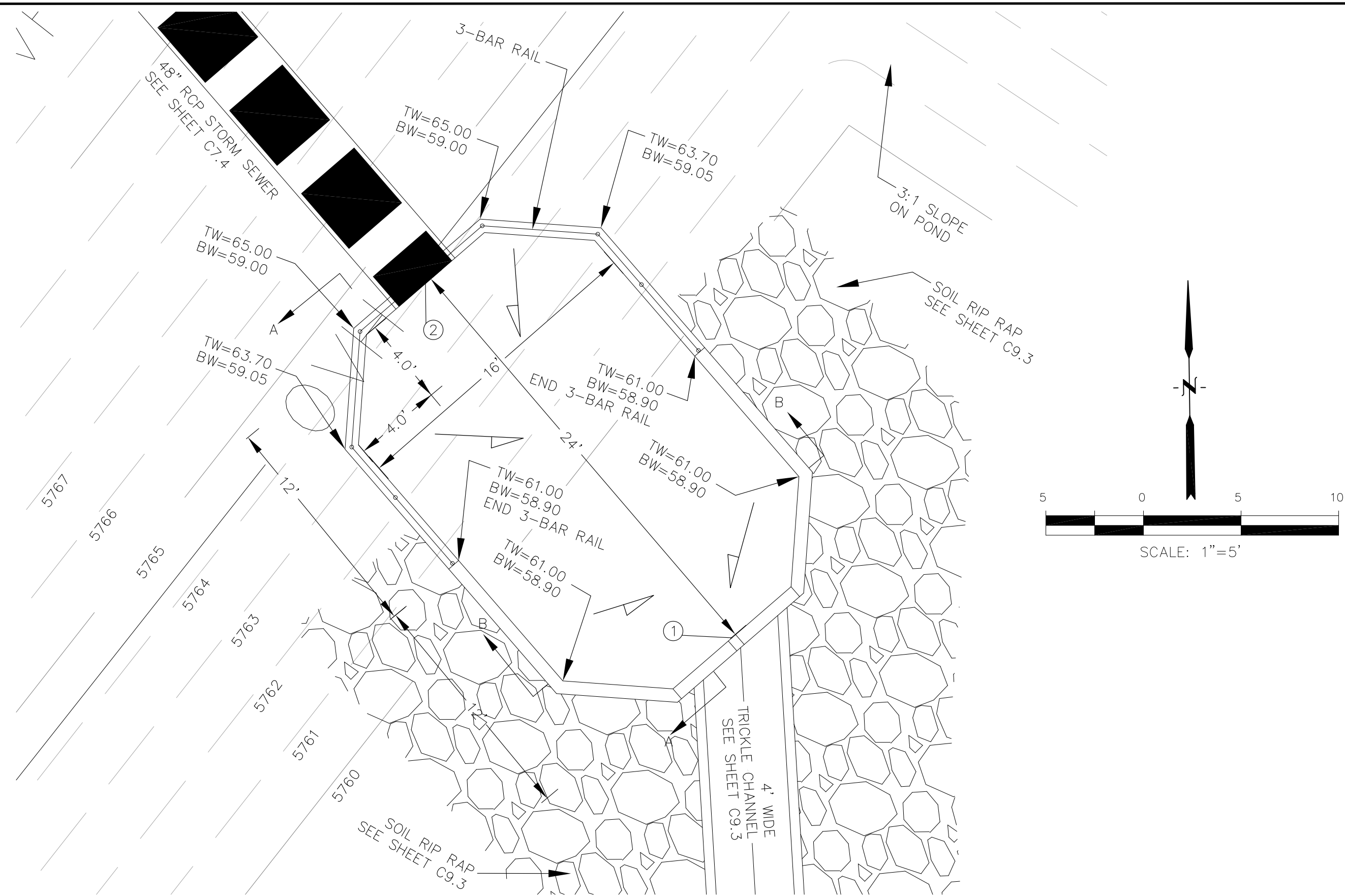
**POND C3 FOREBAY, LOW FLOW CHANNEL AND OUTLET STRUCTURE LAYOUT**

DATE: JUNE 1, 2020

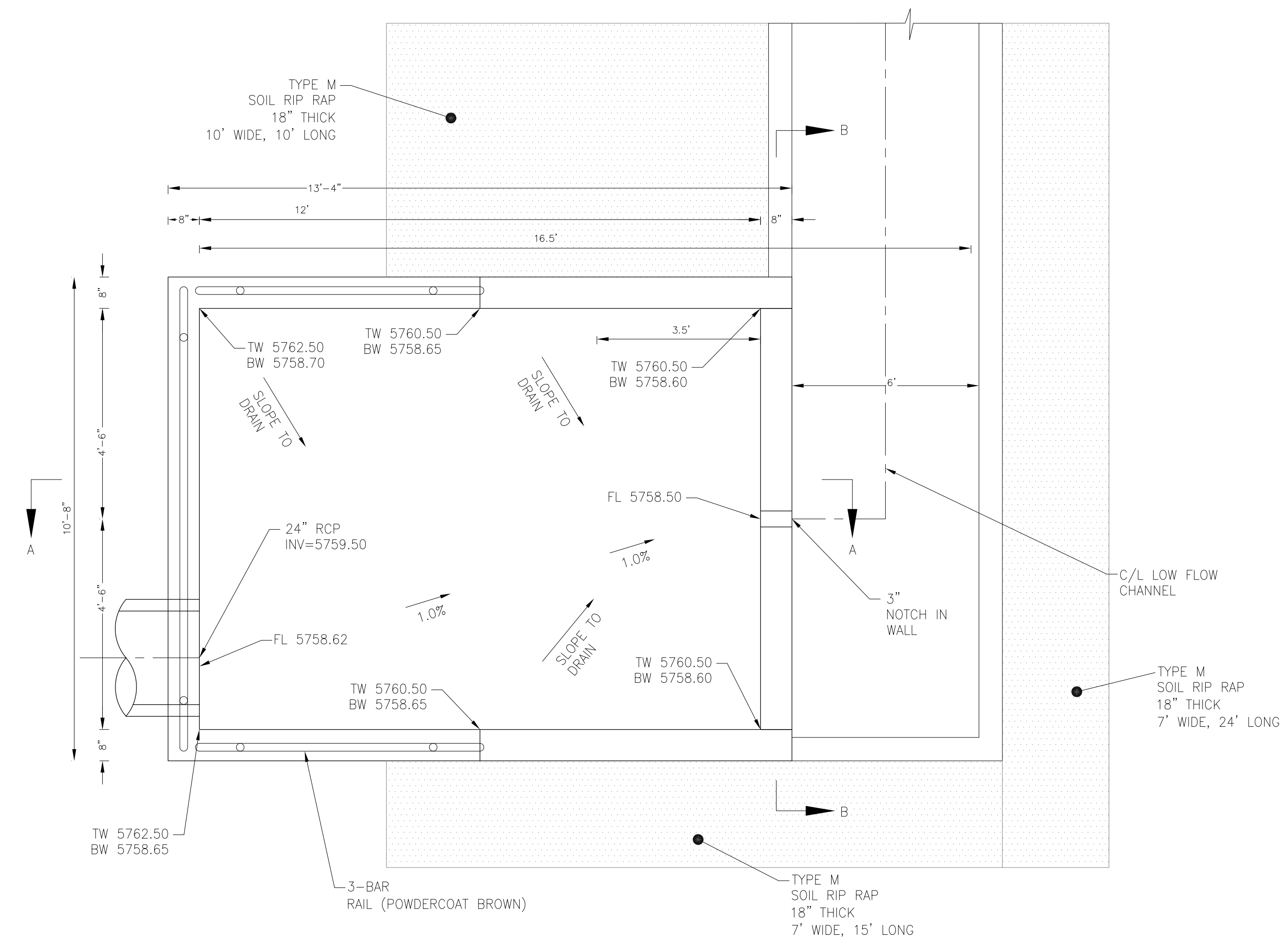
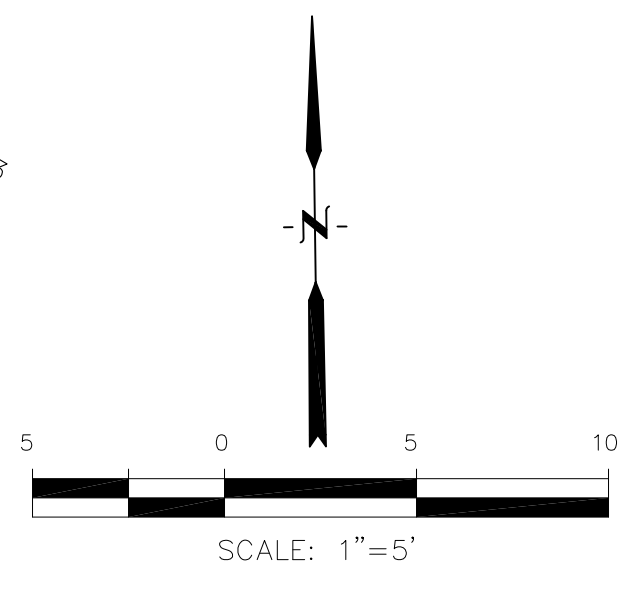
PROJECT NO. 100.061

SHEET NUMBER **C9.8**

TOTAL SHEETS: 58

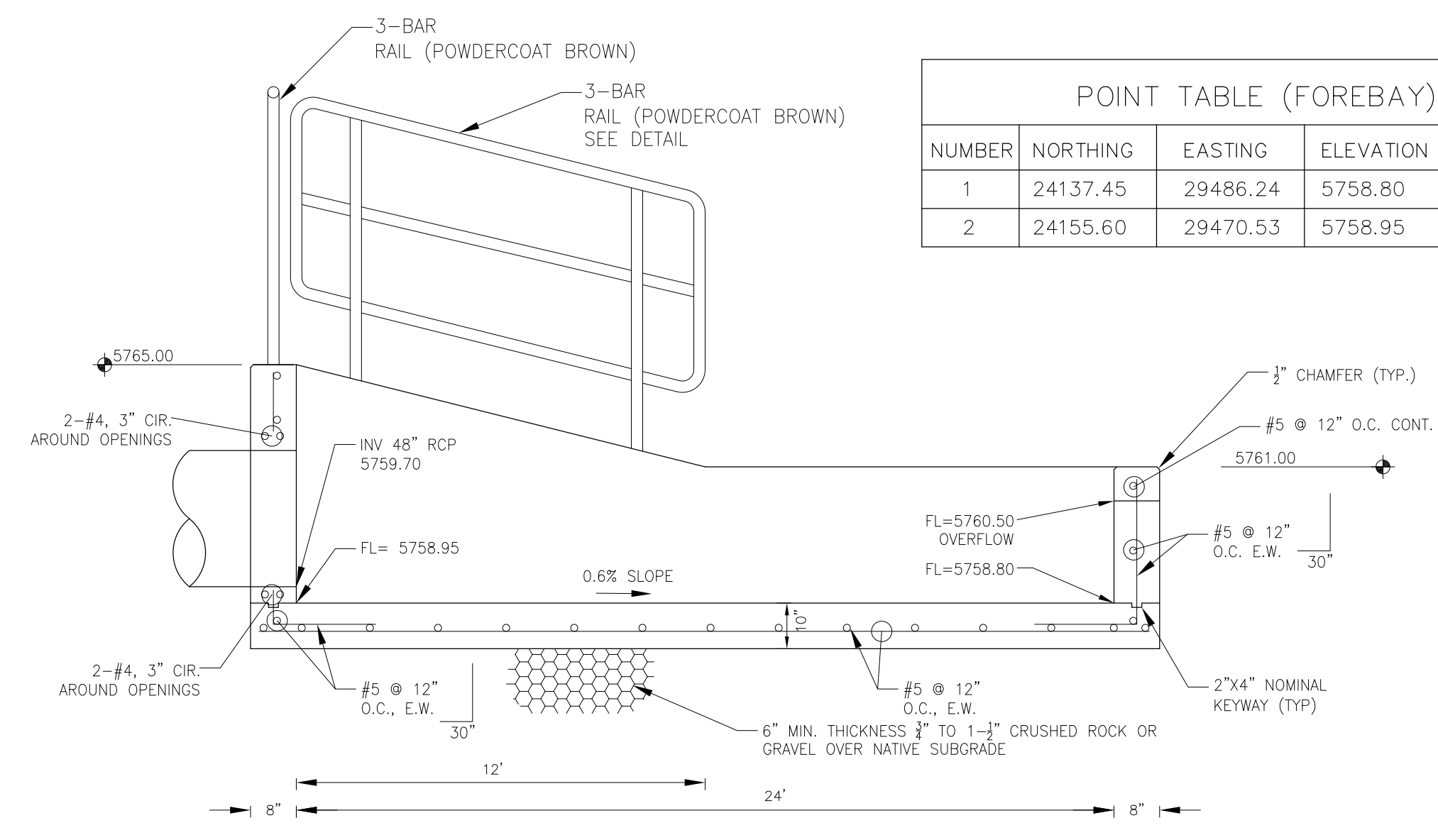


**POND C3 - FOREBAY 'A' LAYOUT**  
SCALE: 1"=5'

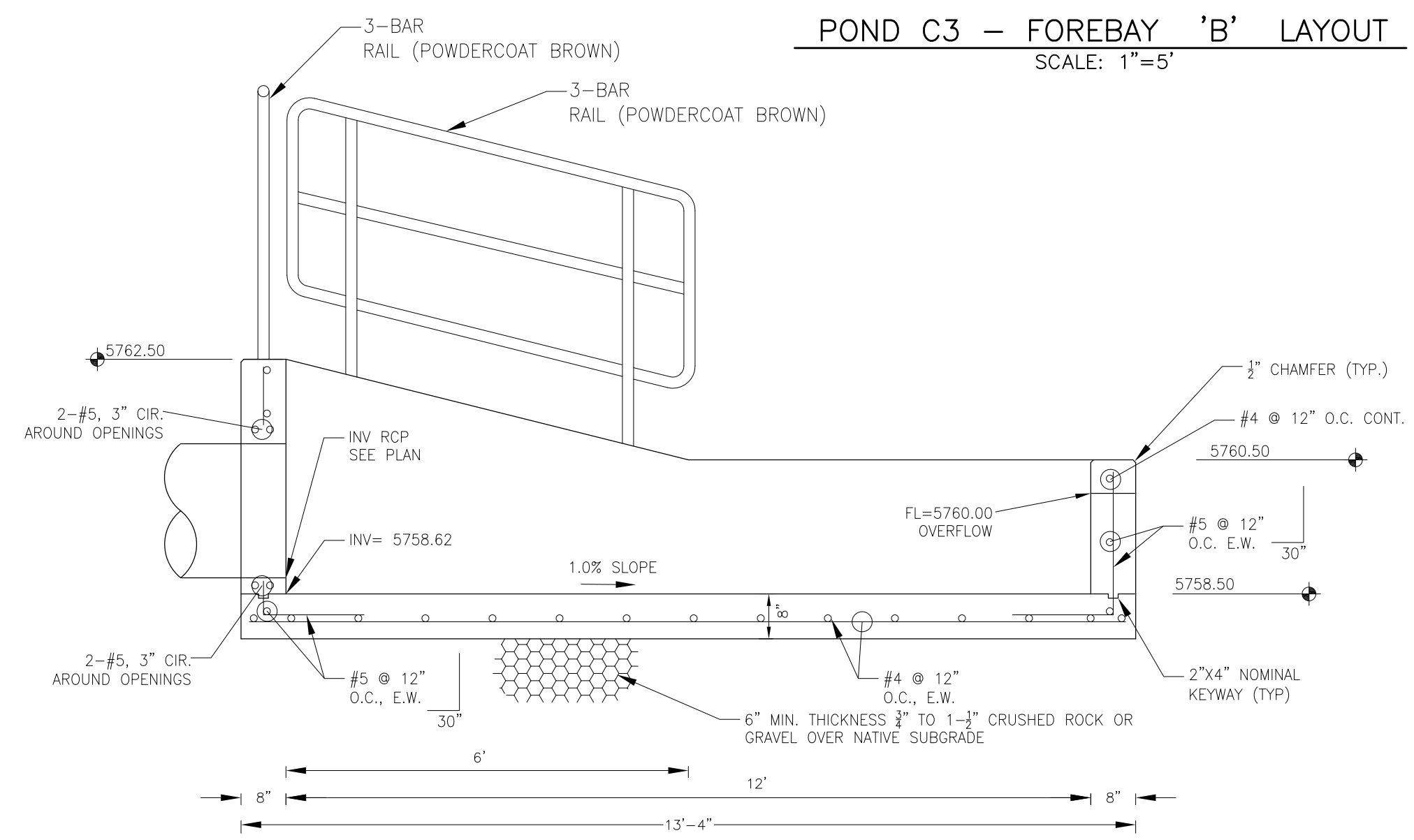


**POND C3 - FOREBAY 'B' LAYOUT**  
SCALE: 1"=5'

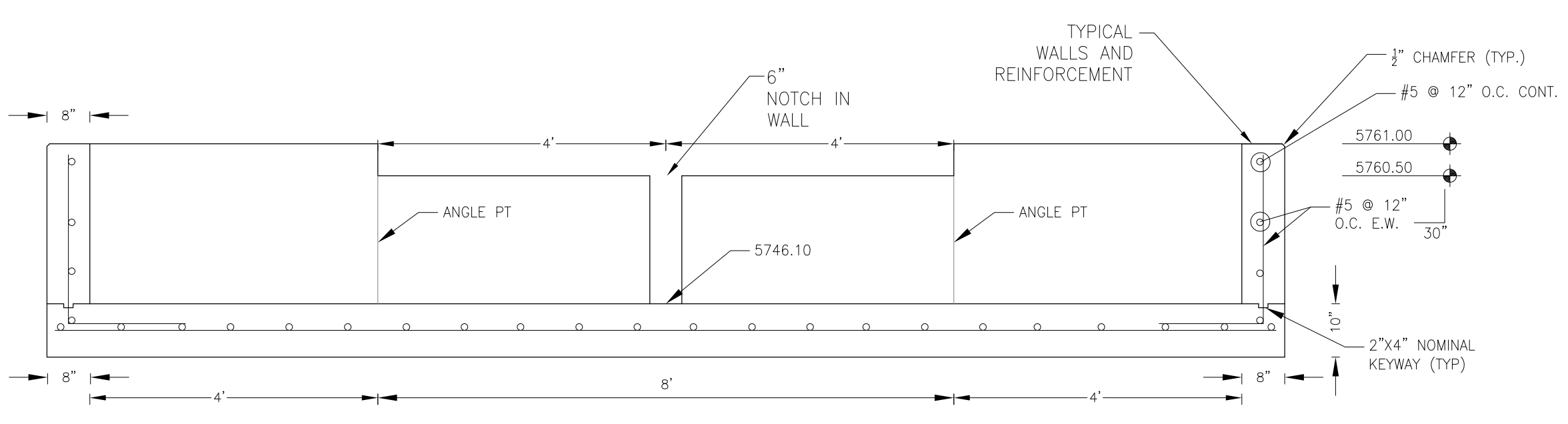
POINT TABLE (FOREBAY)				
NUMBER	NORTHING	EASTING	ELEVATION	NOTES
1	24137.45	29486.24	5758.80	FOREBAY BOTTOM
2	24155.60	29470.53	5758.95	FOREBAY BOTTOM, INV 48"=5759.70



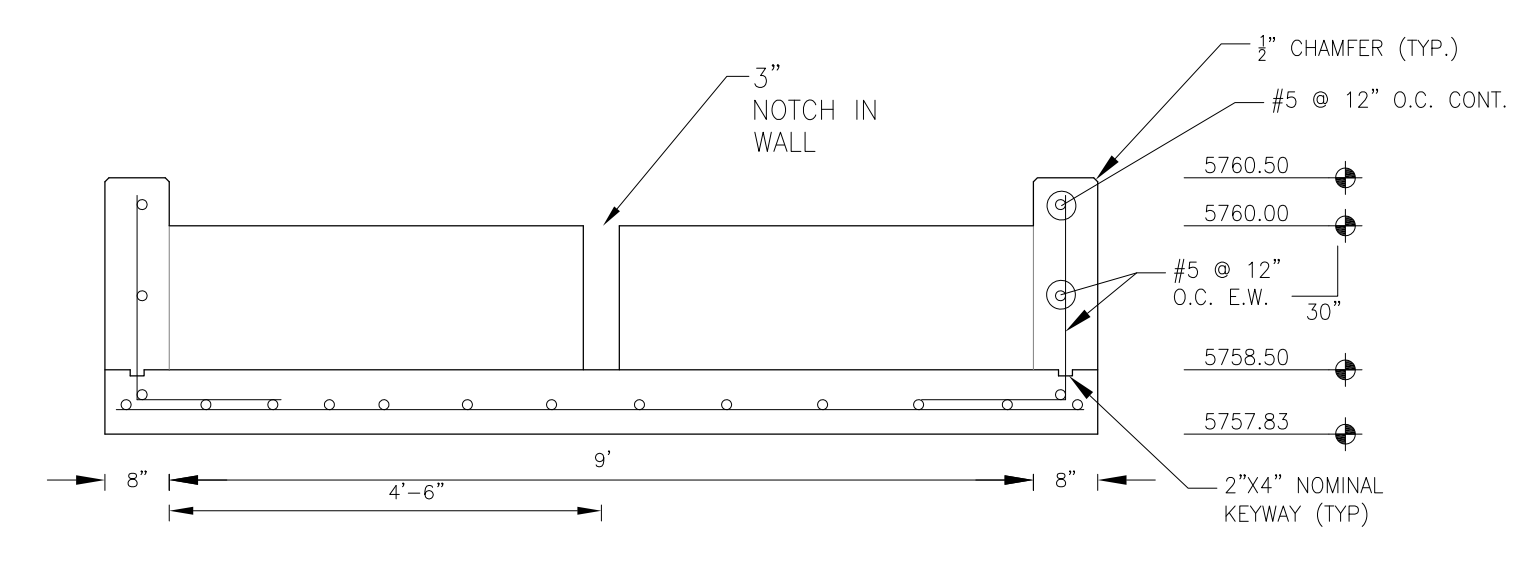
**FOREBAY 'A' SECTION A-A**  
NO SCALE



**FOREBAY 'B' SECTION A-A**  
NO SCALE



**FOREBAY 'A' SECTION B-B**  
NO SCALE



**FOREBAY 'B' SECTION B-B**  
NO SCALE

NOTE: ALL CONCRETE FOR FOREBAY SHALL BE CDOT TYPE D

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DENVER, CO 80202  
PH: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@ceg1.com

DATE: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_  
NO: \_\_\_\_\_  
DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

PREPARED FOR:  
**LORSON, LLC**  
212 N. WAHSATCH AVE, SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
CONTACT: JEFF MARK

PROJECT:  
**THE HILLS COLLECTOR STREET CONSTRUCTION**  
FONTAINE BLVD. - GRAYLING DR  
LORSON BLVD - WALLEYE DR - LAMPREY DR  
COLORADO SPRINGS, COLORADO  
CONTACT: JEFF MARK

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

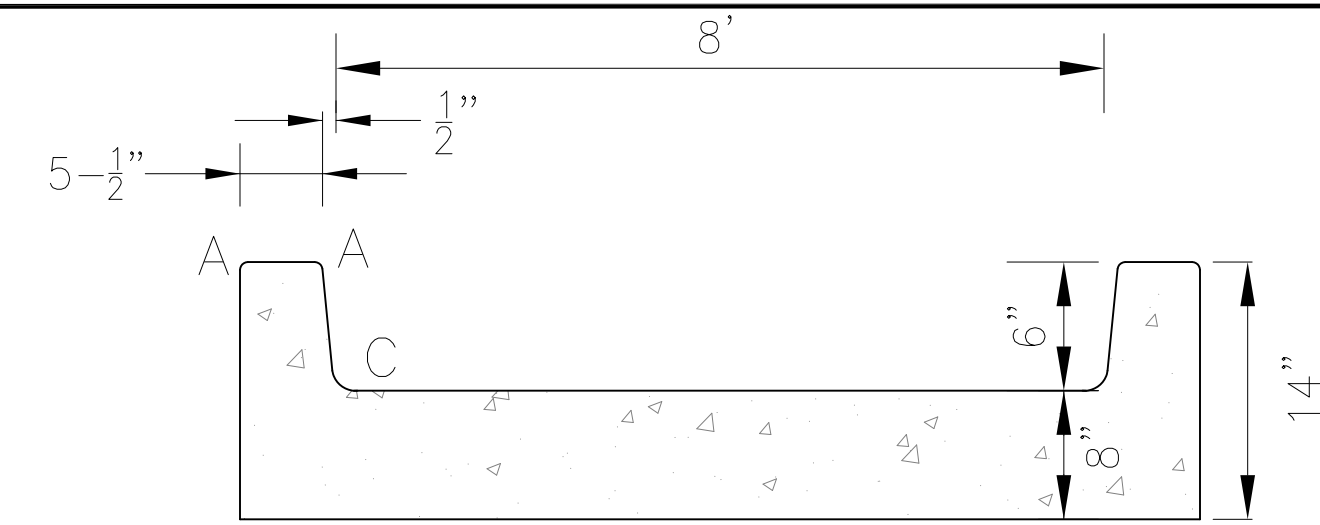
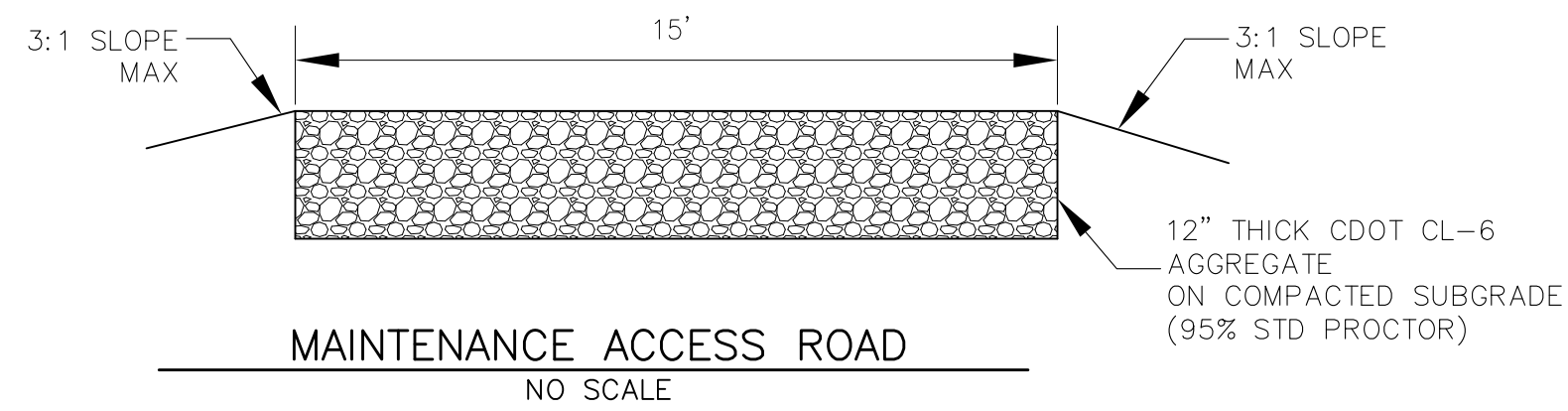
**POND C3**  
**FOREBAY DETAILS**

DATE:  
JUNE 1, 2020

PROJECT NO.  
100.061

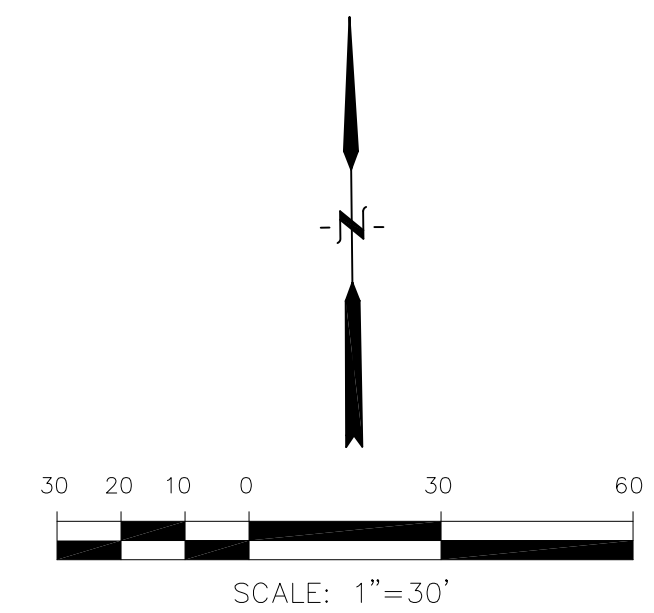
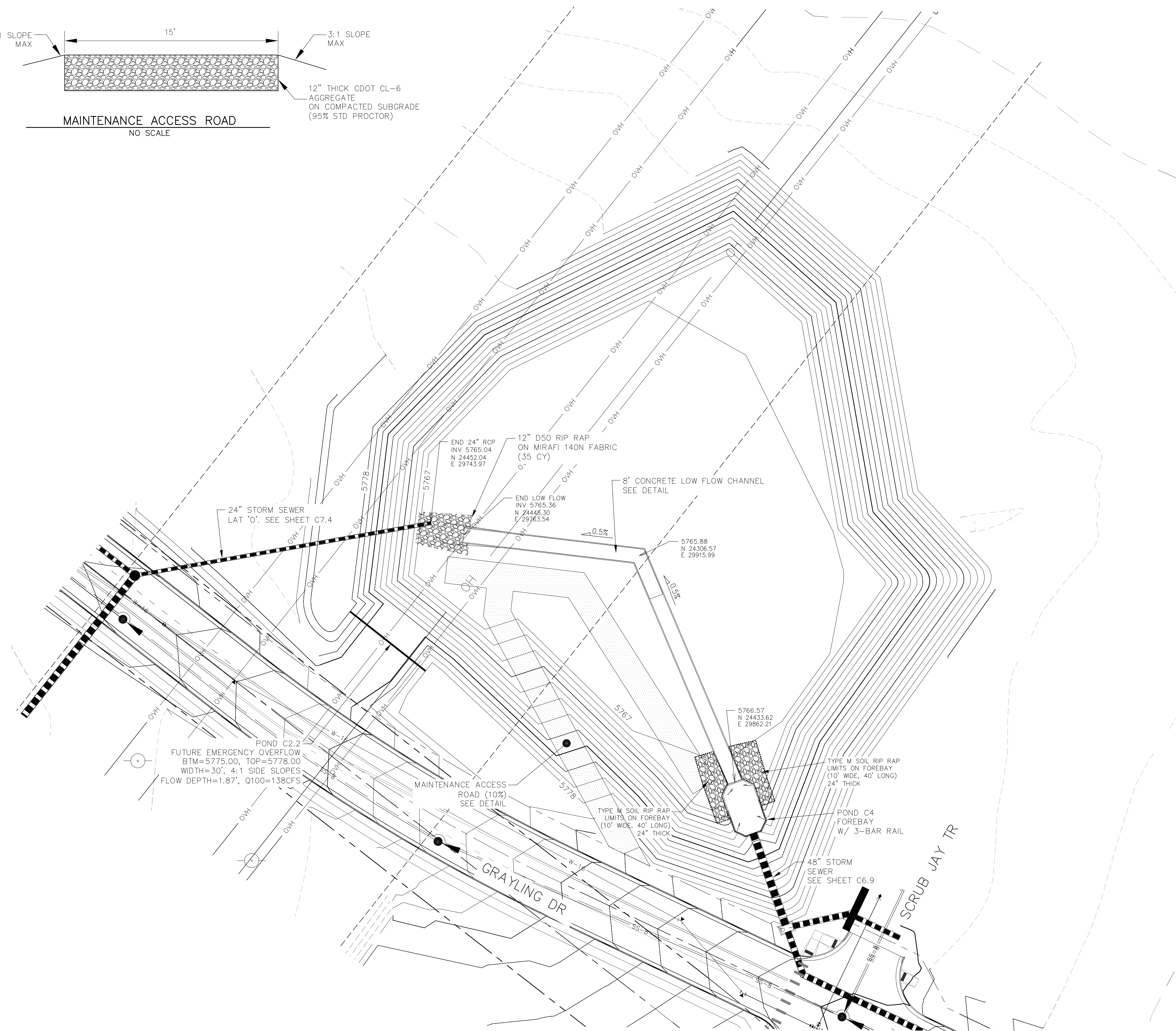
SHEET NUMBER  
**C9.9**

TOTAL SHEETS: 58



**CONCRETE LOW FLOW CHANNEL DETAIL**  
NO SCALE

LENGTH FOR RADII	
A	= 1/2"
C	= 1-1/2"



**CORE ENGINEERING GROUP**  
15004 1ST AVENUE S.  
DENVER, CO 80202  
PHONE: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@ceg1.com

DATE: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_  
NO: \_\_\_\_\_

PREPARED FOR:  
**LORSON, LLC**  
212 N. WAHSATCH AVE, SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
(719) 635-3200  
CONTACT: JEFF MARK

PROJECT:  
**THE HILLS COLLECTOR STREET CONSTRUCTION**  
FONTAINE BLVD. - GRAYLING DR  
LORSON BLVD - WALLEYE DR - LAMPREY DR  
COLORADO SPRINGS, COLORADO

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

**POND C4 FOREBAY & LOW FLOW CHANNEL LAYOUT**

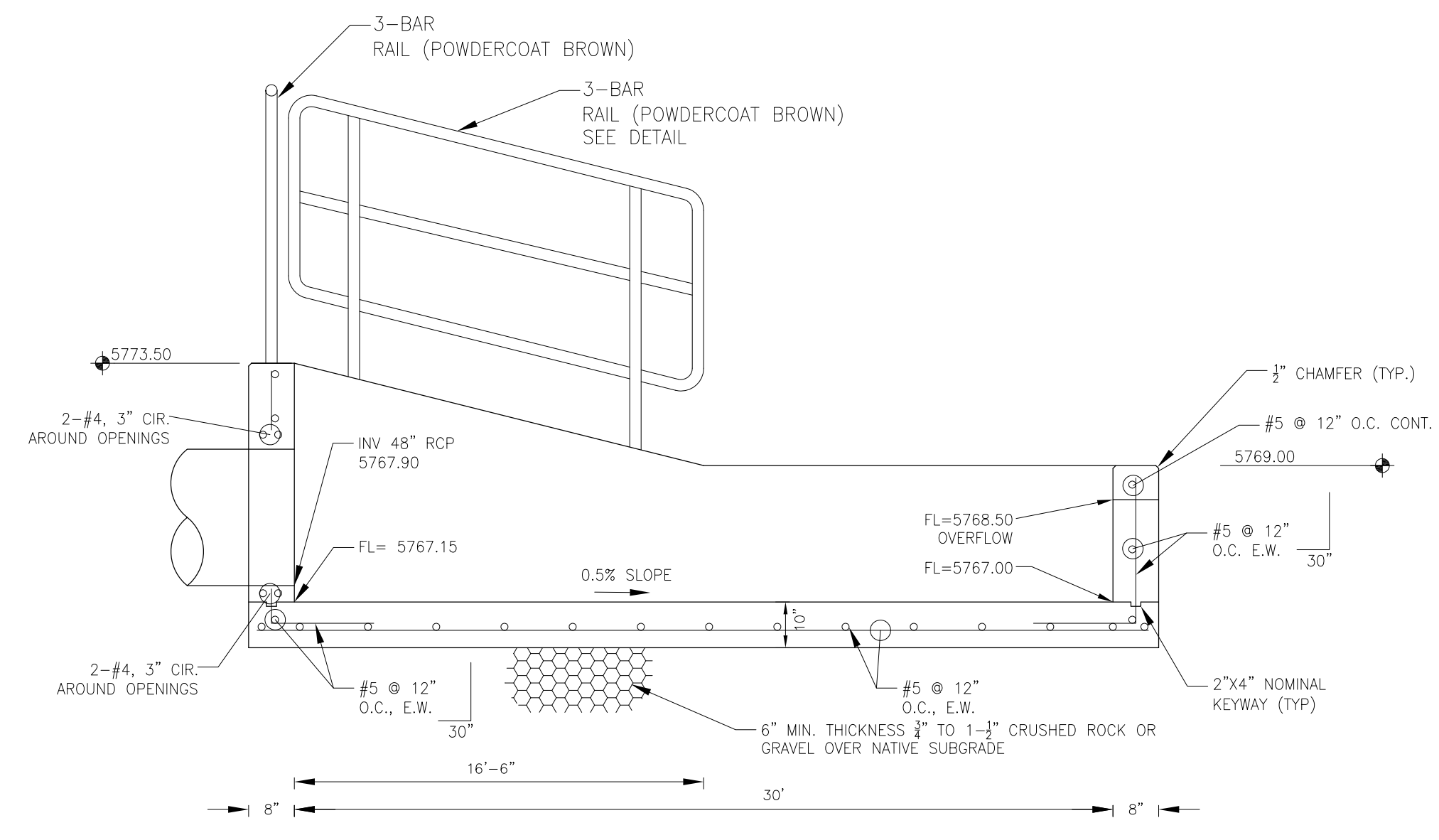
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PROJECT NO.  
100.061

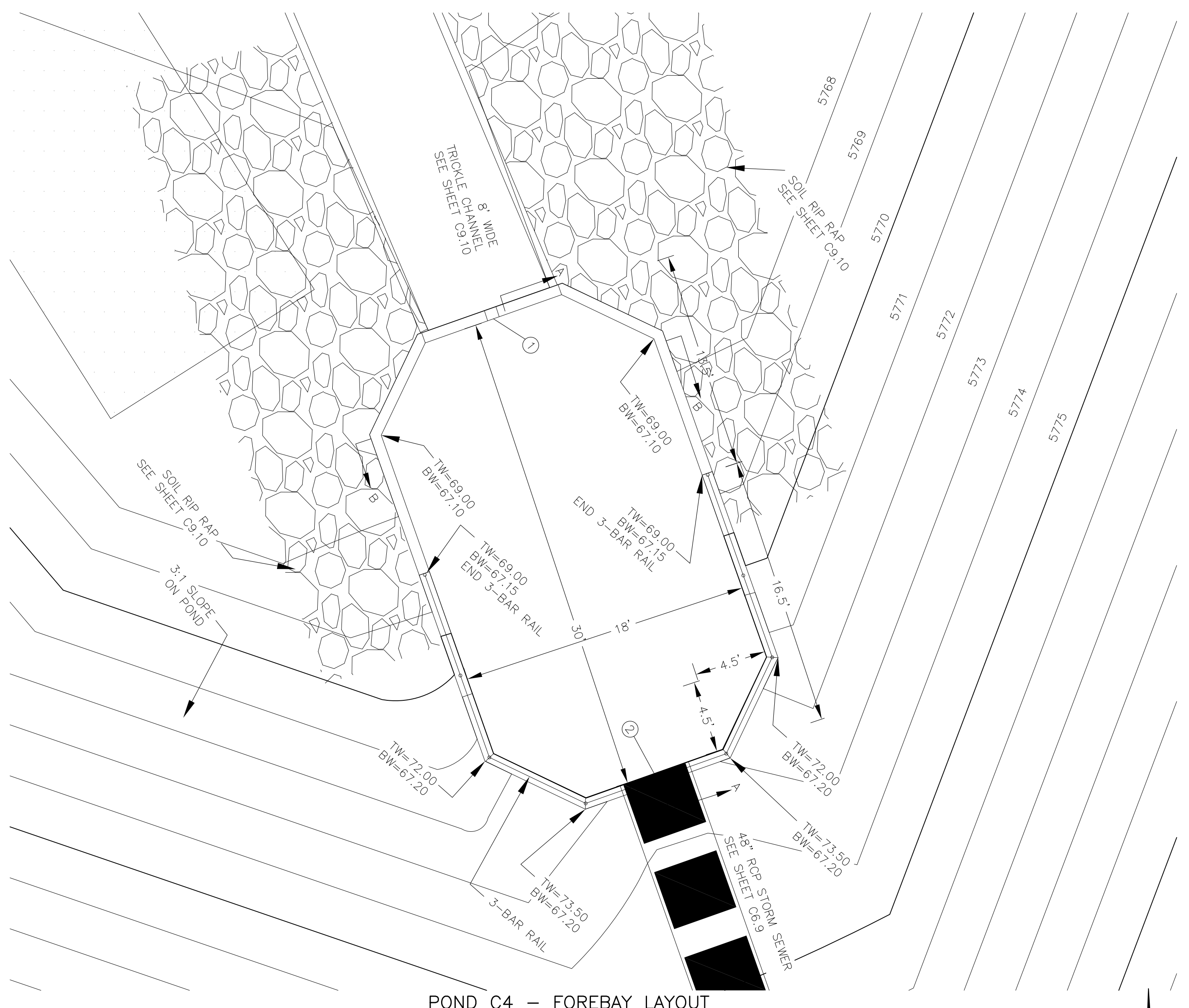
SHEET NUMBER  
C9.10

TOTAL SHEETS: 58

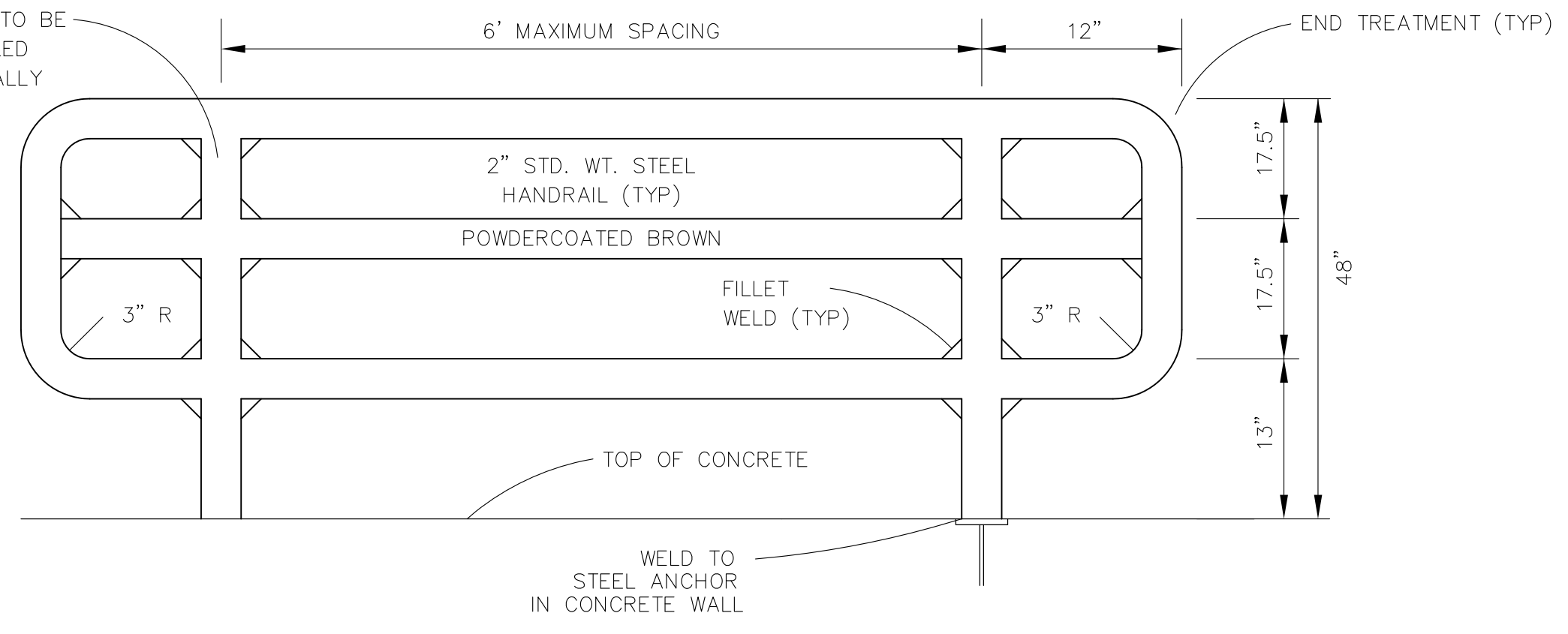
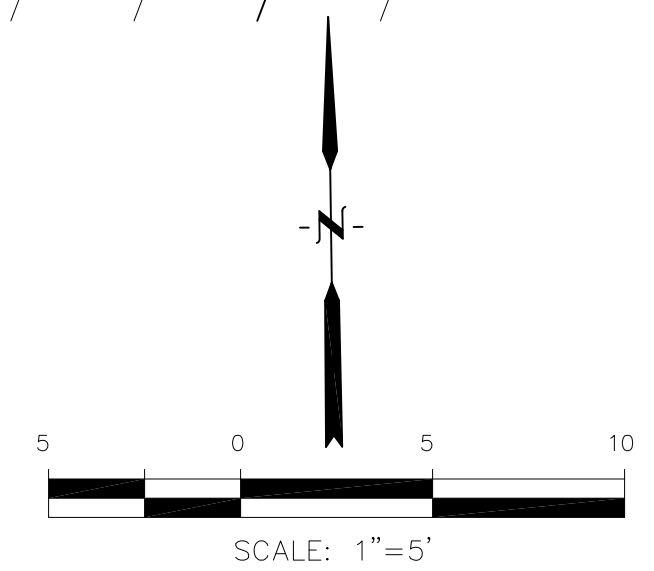




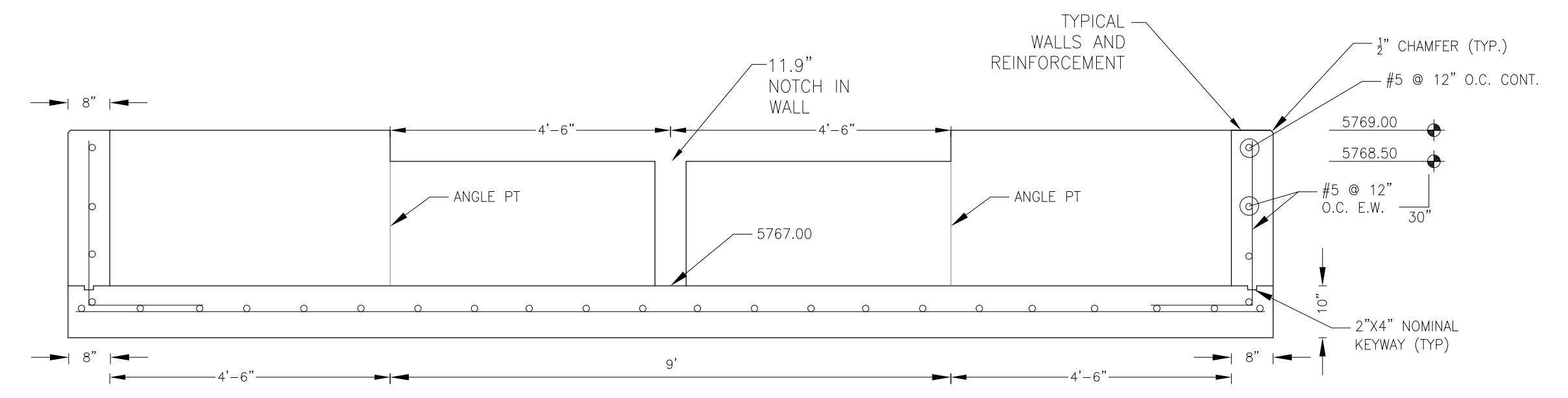
**FOREBAY SECTION A-A**  
 NO SCALE



**POND C4 - FOREBAY LAYOUT**  
 SCALE: 1"=5'



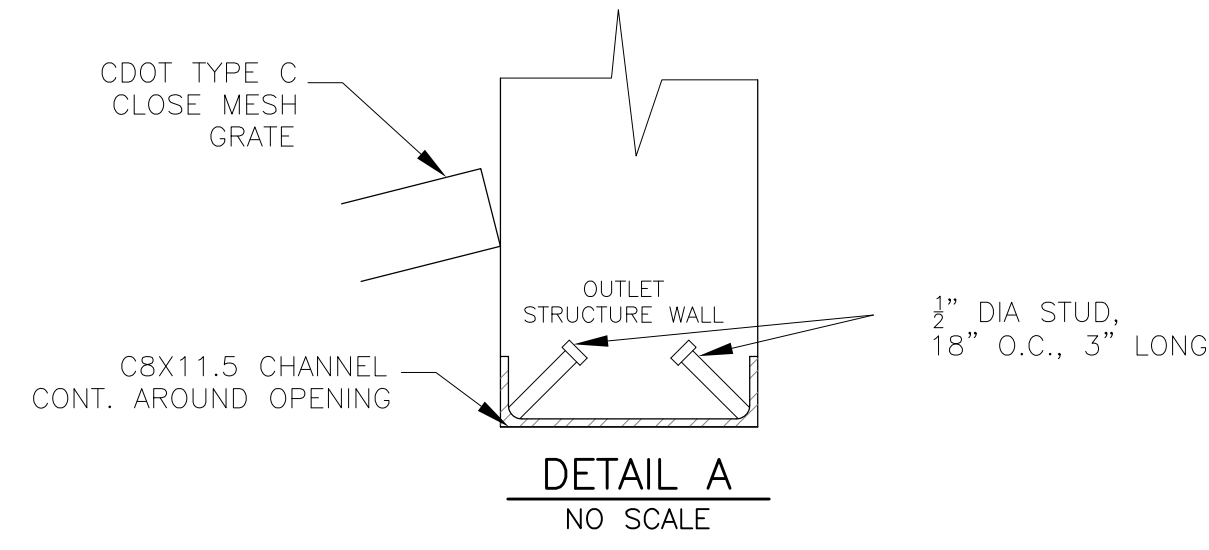
**3-BAR RAIL DETAIL**  
 NO SCALE



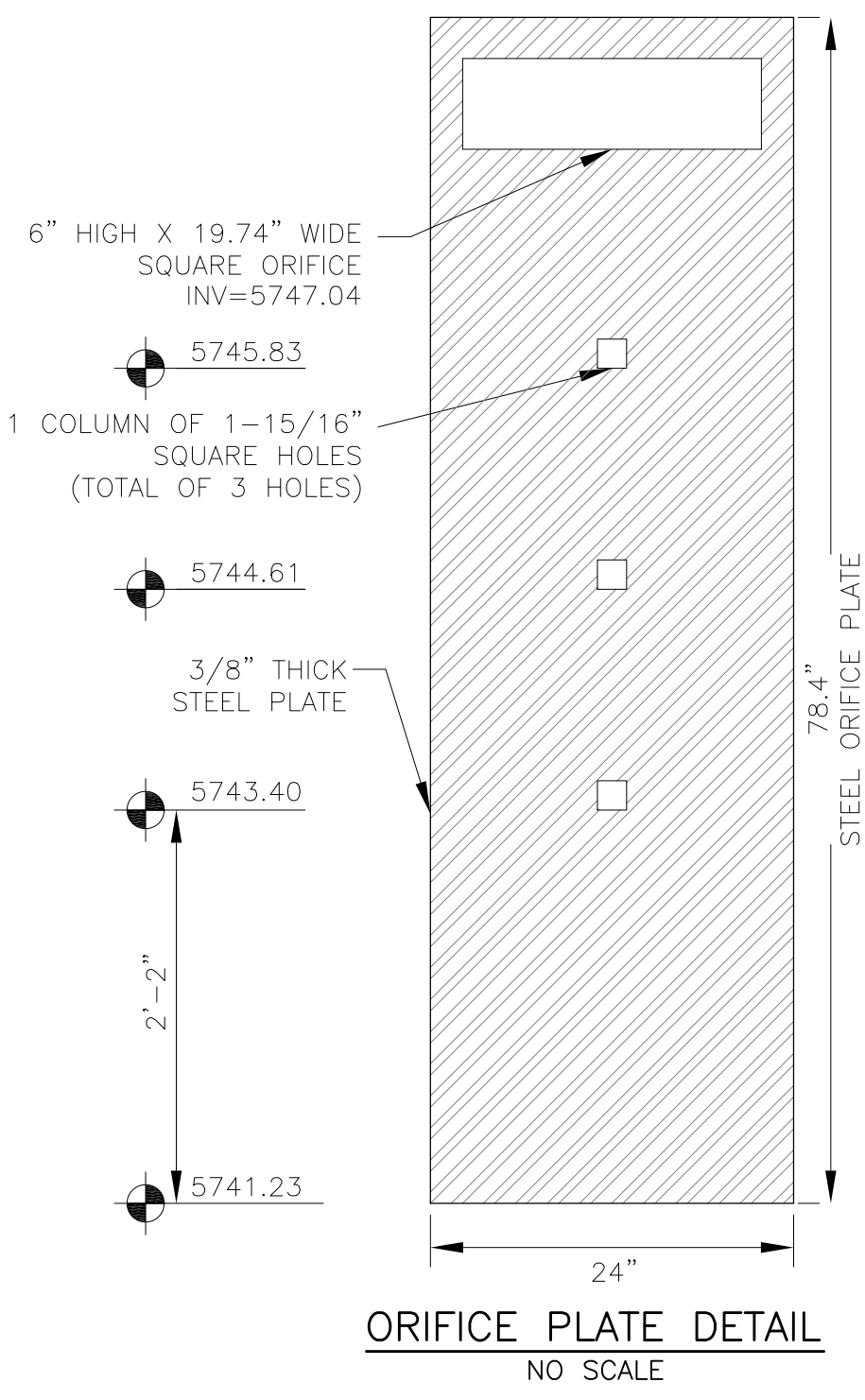
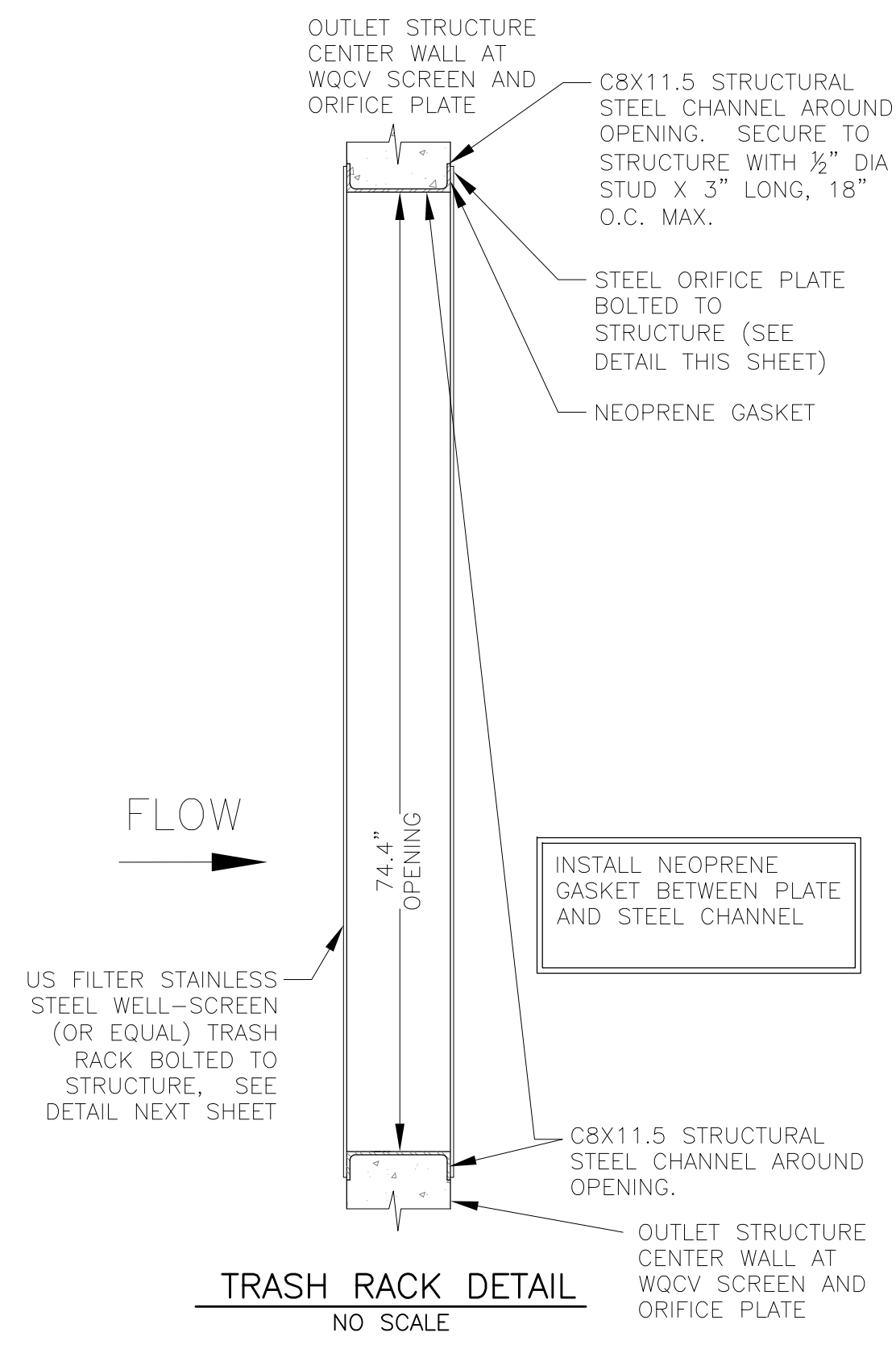
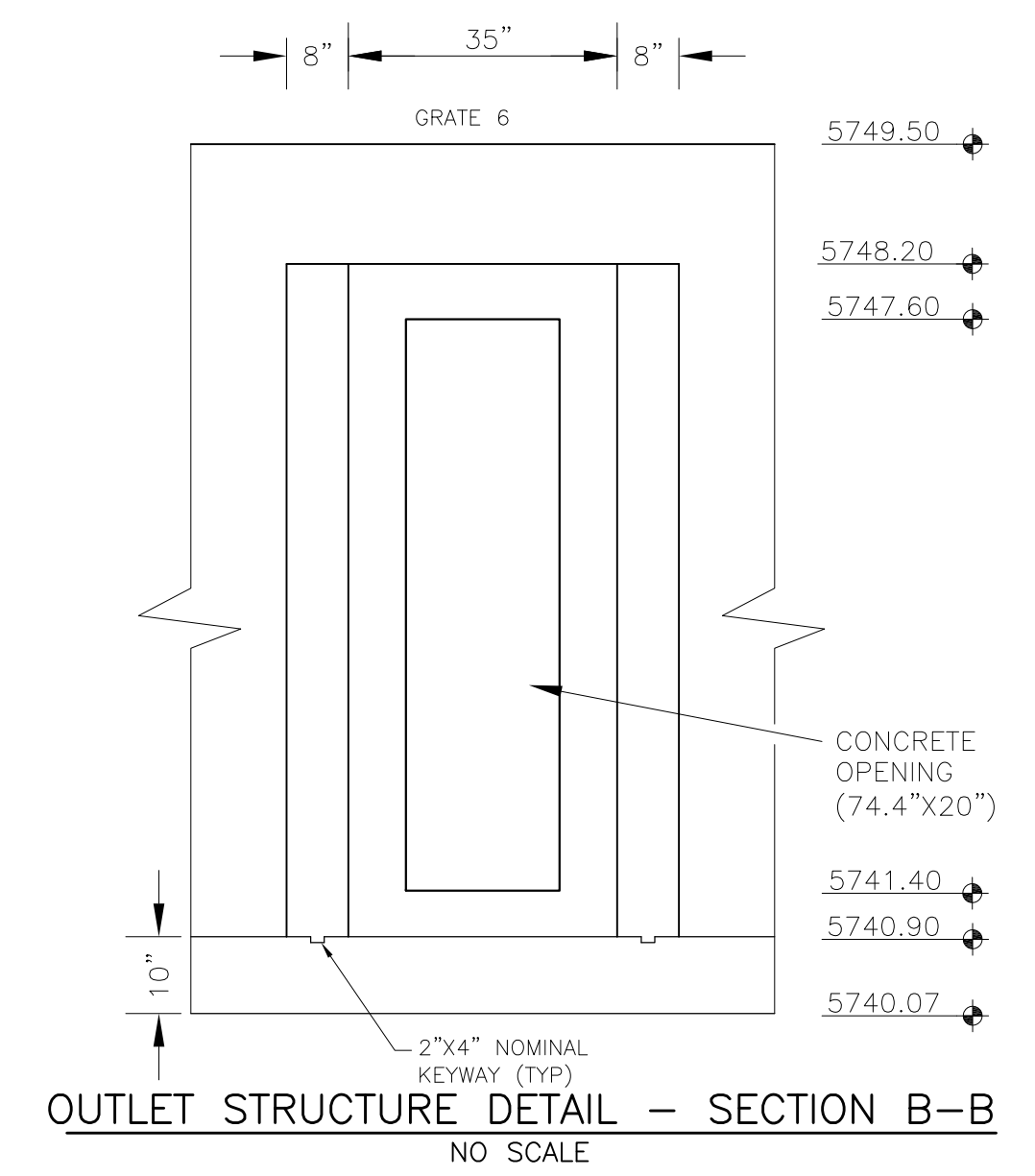
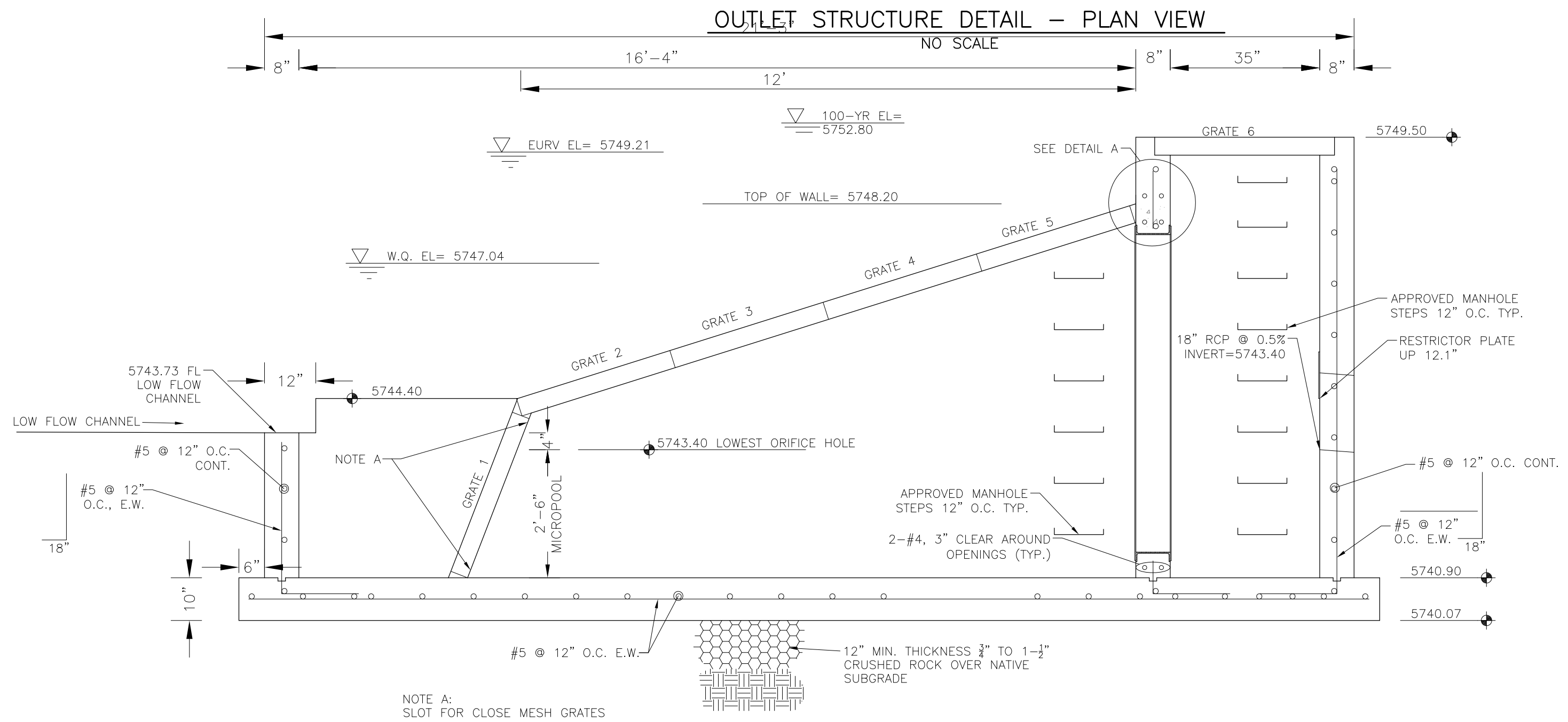
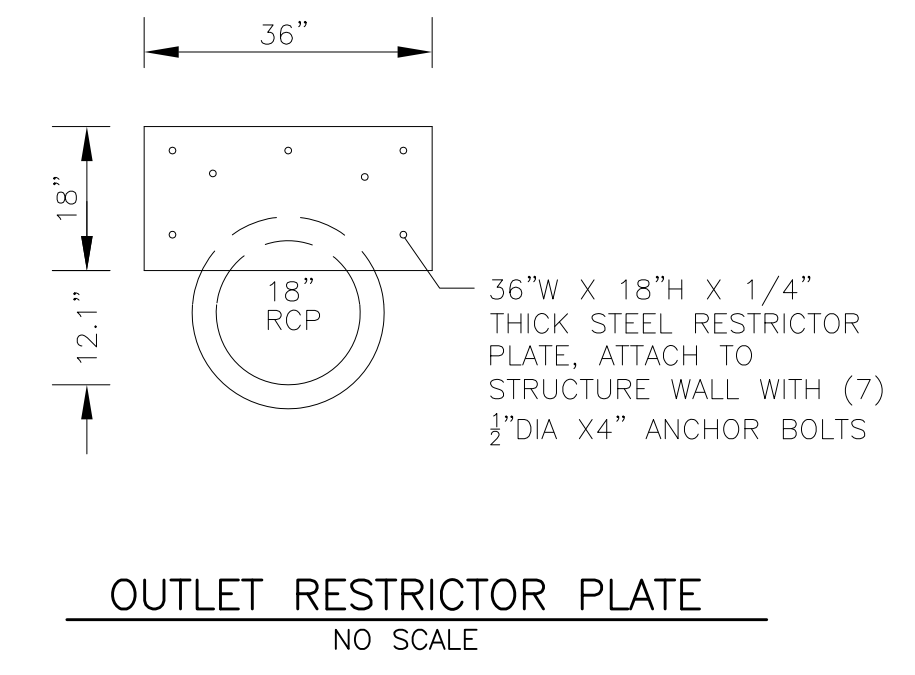
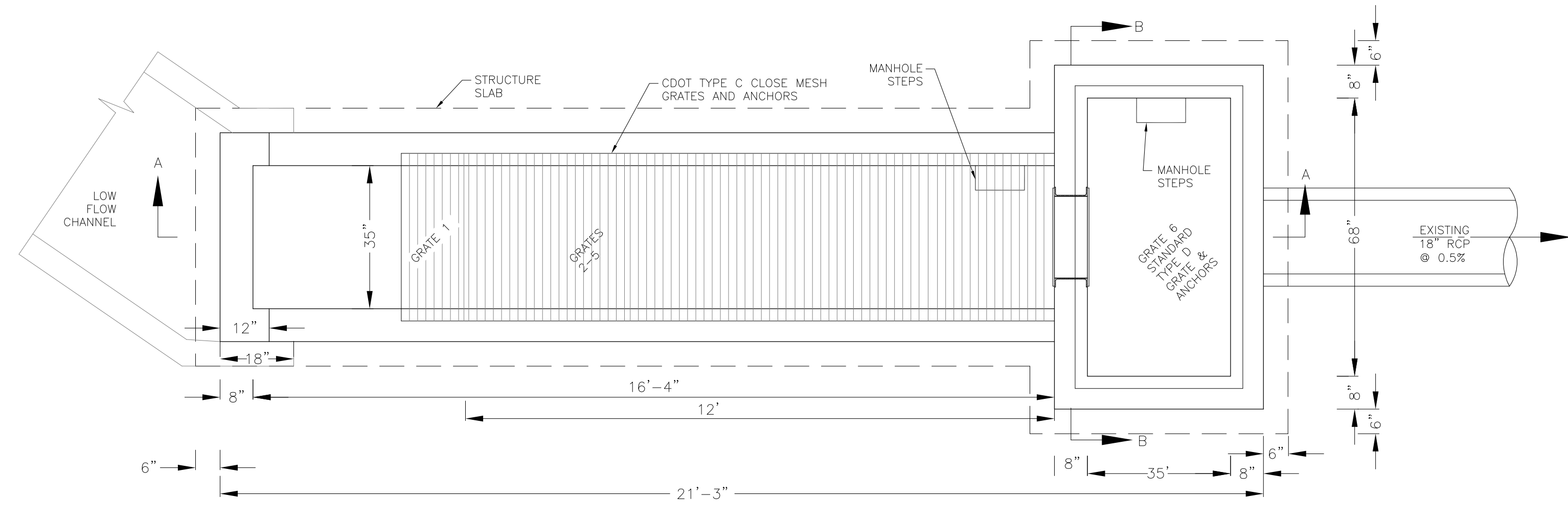
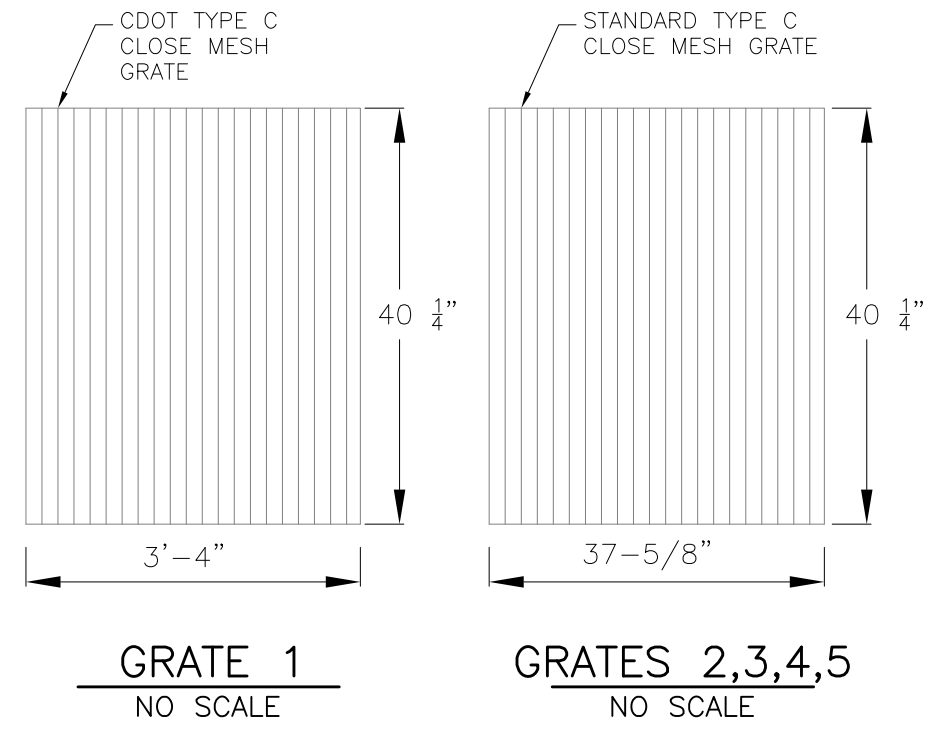
**FOREBAY SECTION B-B**  
 NO SCALE

NOTE: ALL CONCRETE FOR FOREBAY SHALL BE CDOT TYPE D

POINT TABLE (FOREBAY)				
NUMBER	NORTHING	EASTING	ELEVATION	NOTES
1	24305.96	29916.27	5767.00	FOREBAY BOTTOM
2	24277.68	29926.27	5767.15	FOREBAY BOTTOM, INV 48"=5767.90



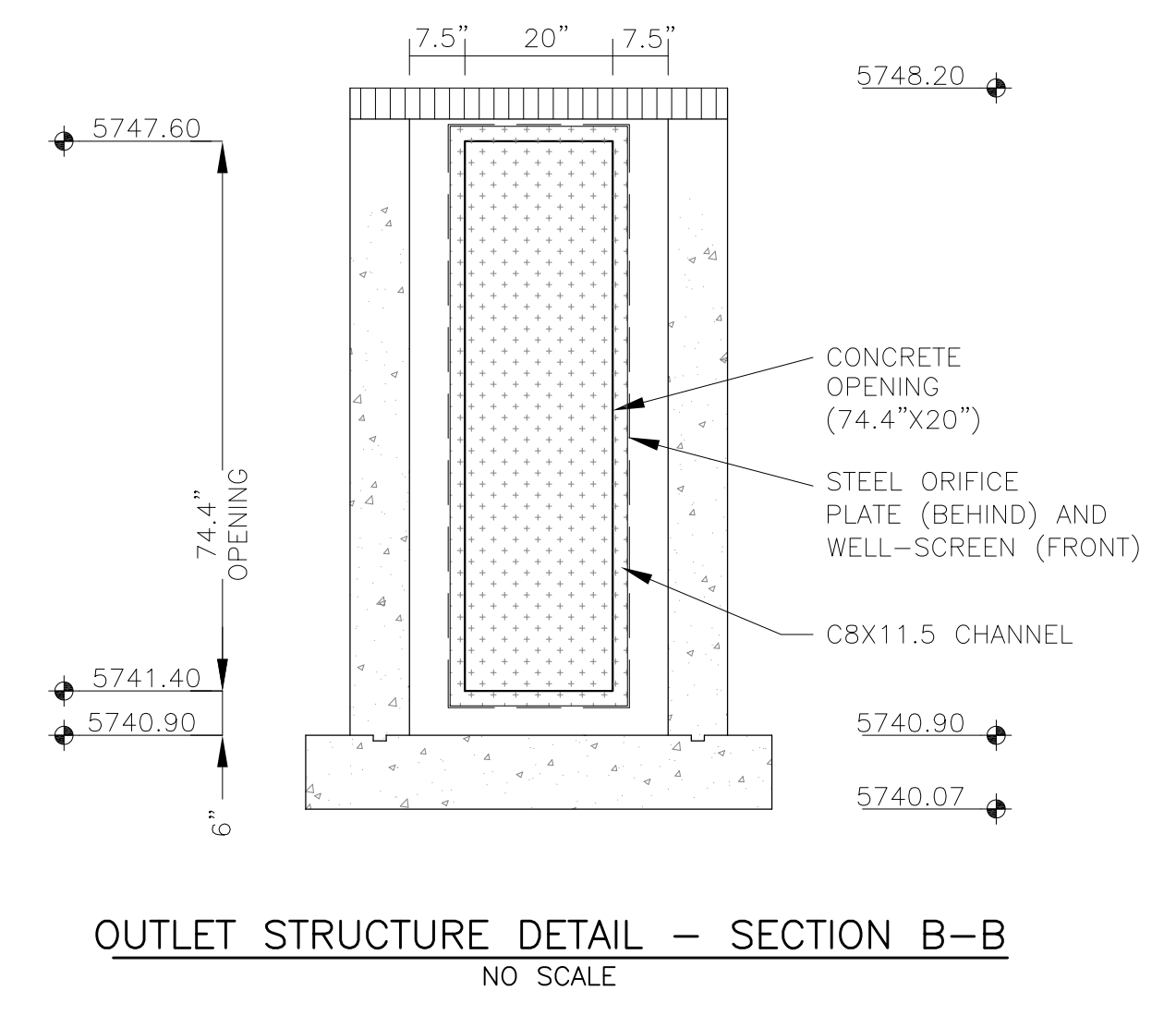
NOTE:  
AFTER CONCRETE STRUCTURE HAS BEEN POURED  
ALL GRATE DIMENSIONS SHALL BE FIELD VERIFIED  
PRIOR TO GRATE CONSTRUCTION



OUTLET STRUCTURE, FOREBAY, AND DRAIN CHANNEL NOTES:

- PRIOR TO CONSTRUCTION, CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL COMPONENTS OF THE OUTLET STRUCTURE.
  - GRADE 60 REINFORCING STEEL REQUIRED. SEE TABLE FOR THE MINIMUM LAP SPLICE LENGTH FOR REINFORCING BARS. ALL REINFORCING STEEL SHALL HAVE A TWO-INCH MINIMUM CLEARANCE FROM EDGE OF CONCRETE, UNLESS OTHERWISE NOTED.
- | BAR SIZE           | #4    | #5    | #6    |
|--------------------|-------|-------|-------|
| MIN. SPLICE LENGTH | 1'-3" | 1'-7" | 2'-0" |
- CONCRETE FOR THE OUTLET STRUCTURE AND FOREBAY SHALL BE CDOT CLASS D CONCRETE.
  - CONCRETE FOR DRAIN CHANNELS SHALL BE CDOT CLASS B CONCRETE
  - EXPANSION JOINT MATERIAL SHALL MEET AASHTO SPECIFICATION M-213. EXPANSION JOINT MATERIAL SHALL BE 1/2" THICK, SHALL EXTEND THE FULL DEPTH OF CONTACT SURFACE AND THE JOINT SHALL BE SEALED, REFER TO DETAILS.
  - ALL EXPOSED CONCRETE CORNERS SHALL HAVE A 3/8" CHAMFER UNLESS OTHERWISE NOTED.
  - SUBGRADE TO BE 12" THICK CLEAN FILL COMPACTED TO 95% STANDARD PROCTOR DENSITY PER ASTM M698 UNDER STRUCTURE.
  - REFER TO POND DETAILS FOR PRESEDIMENTATION/FOREBAY DESIGN.
  - ENGINEER SHALL BE NOTIFIED PRIOR TO BEGINNING CONSTRUCTION OF OUTLET STRUCTURE TO SCHEDULE OBSERVATION VISITS FOR STRUCTURES.

- WQCV WELL-SCREEN NOTES:
- Well-Screen shall be stainless steel and attached by stainless steel bolts along edge of the mounting frame.
  - WQCV Well Screen
    - Type of Screen: Stainless steel #93 Vee Wire
    - (Johnson Vee Wire (tm) Stainless Steel Screen or equivalent with 60% open area)
    - Screen slot opening dimension: 0.139" (Screen #93 Vee Wire Slot Opening)
    - Type and Size of Support Rod: TE 0.074"x0.50"
    - Spacing of Support Rod (O.C.): 1.0 Inch
    - Total Screen Thickness: 0.655"
    - Carbon Steel Holding Frame Type: 3/4" x 1.0" angle



**CORE ENGINEERING GROUP**  
15004 1ST AVENUE S.  
PH: 719.570.5506  
PROJECT: 100.061  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@cag1.com

DATE: JUNE 1, 2020

PROJECT NO. 100.061

SHEET NUMBER C9.12

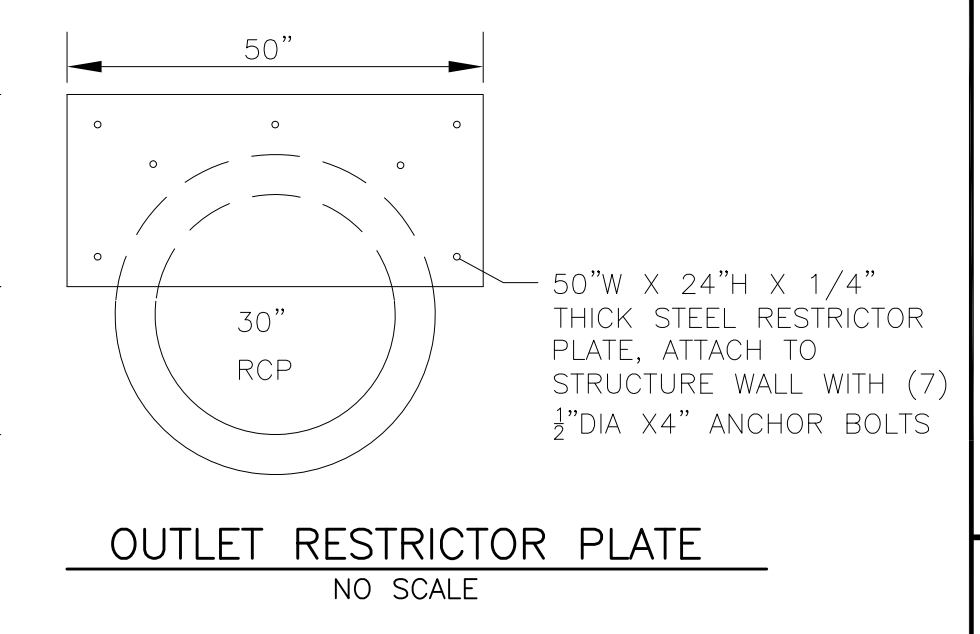
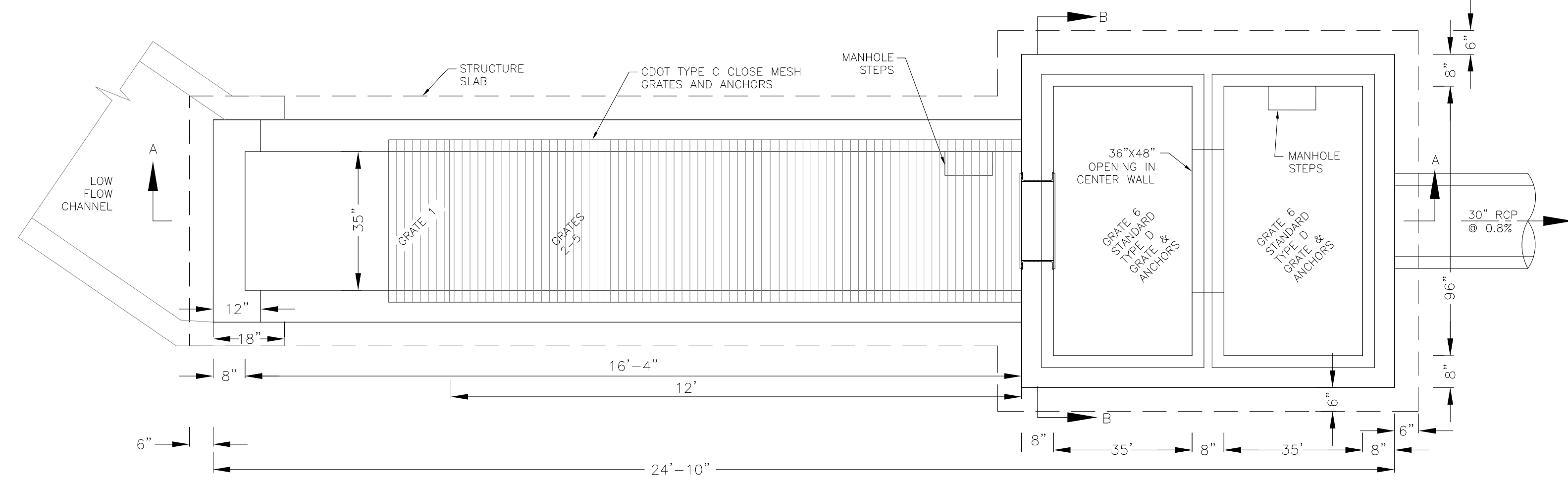
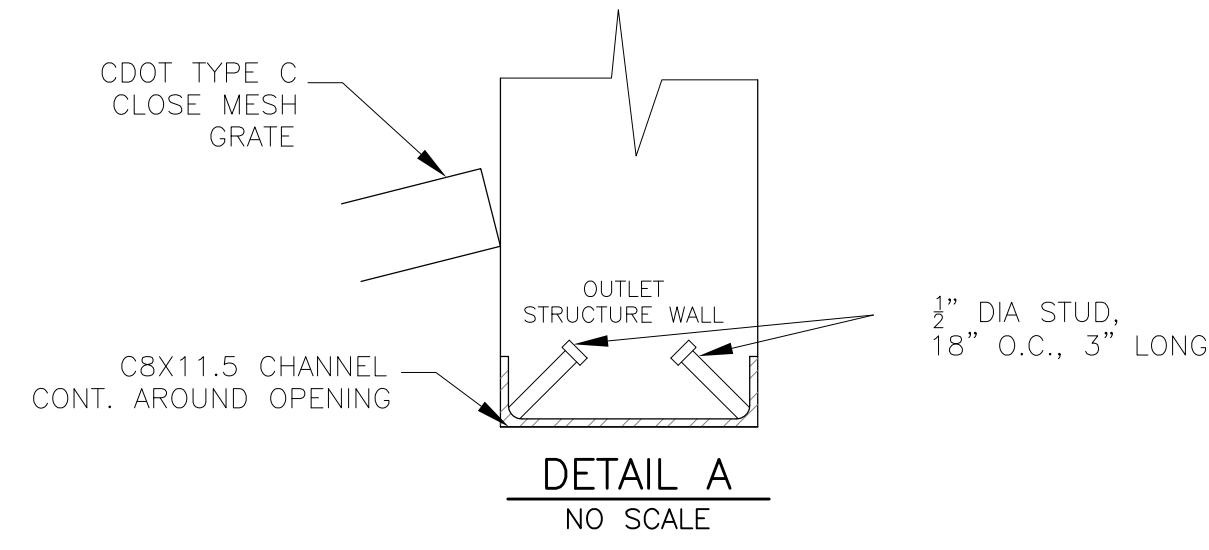
TOTAL SHEETS: 58

PREPARED FOR: **LORSON, LLC**  
212 N. WAHSATCH AVE. SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
CONTACT: JEFF MARK

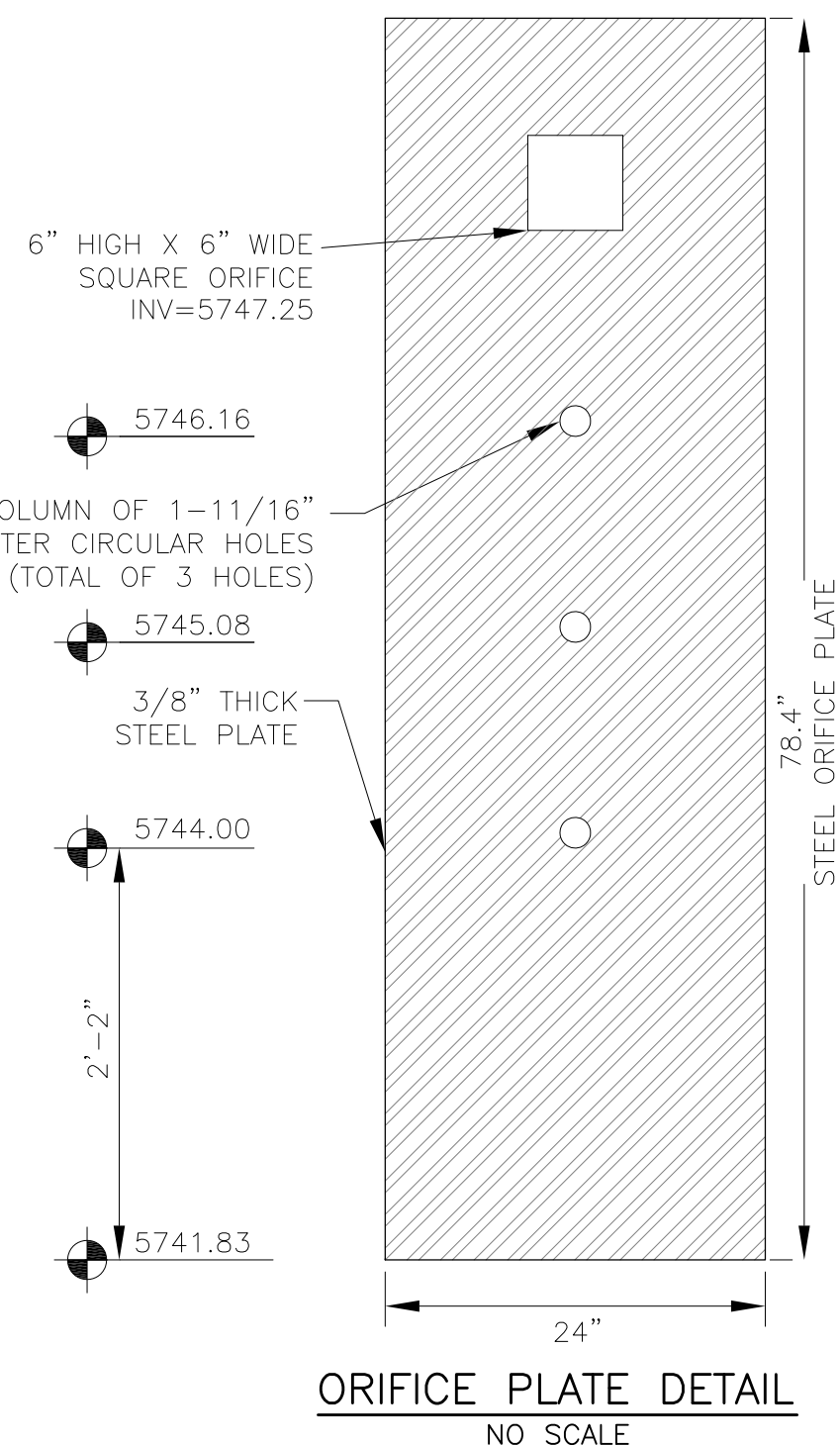
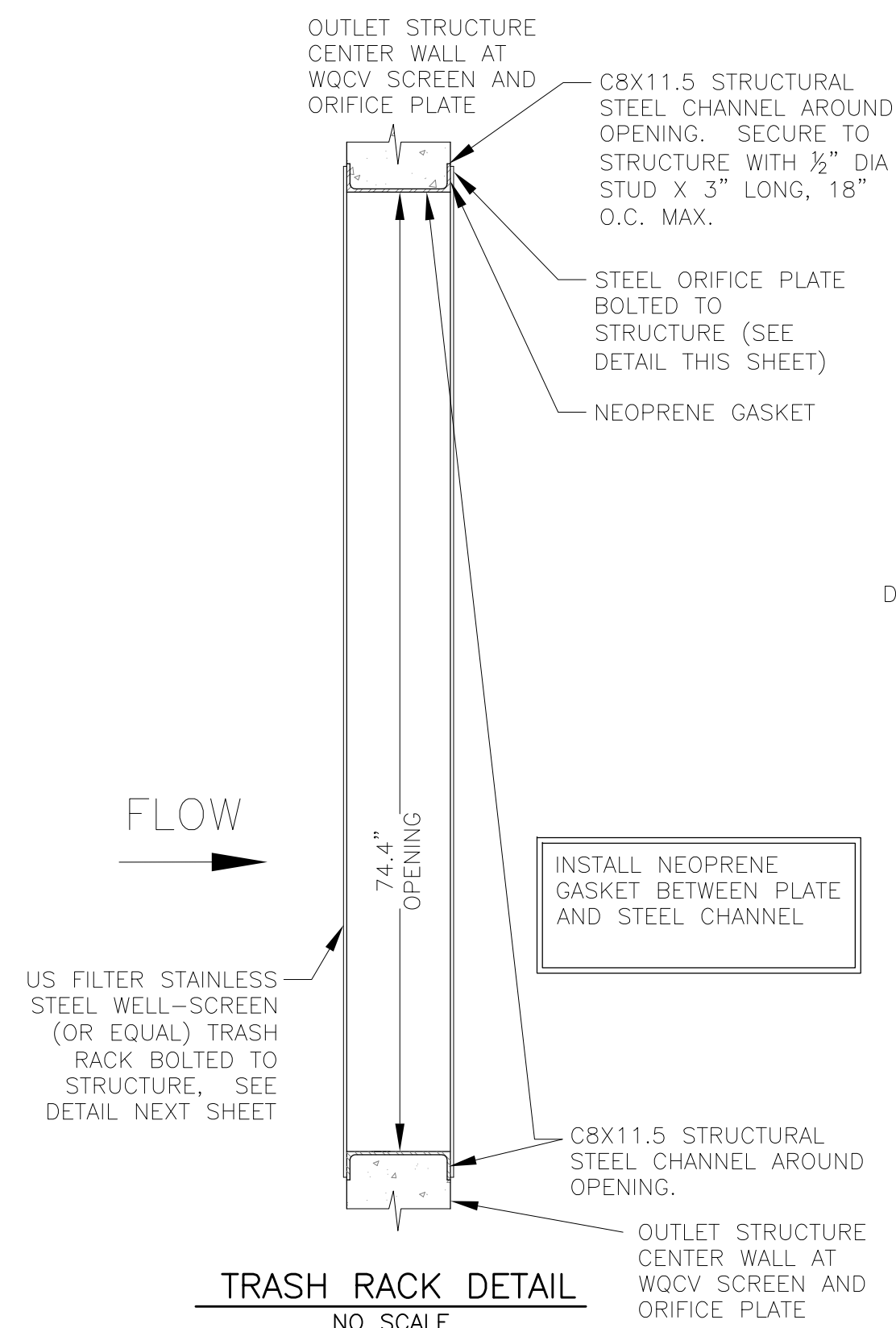
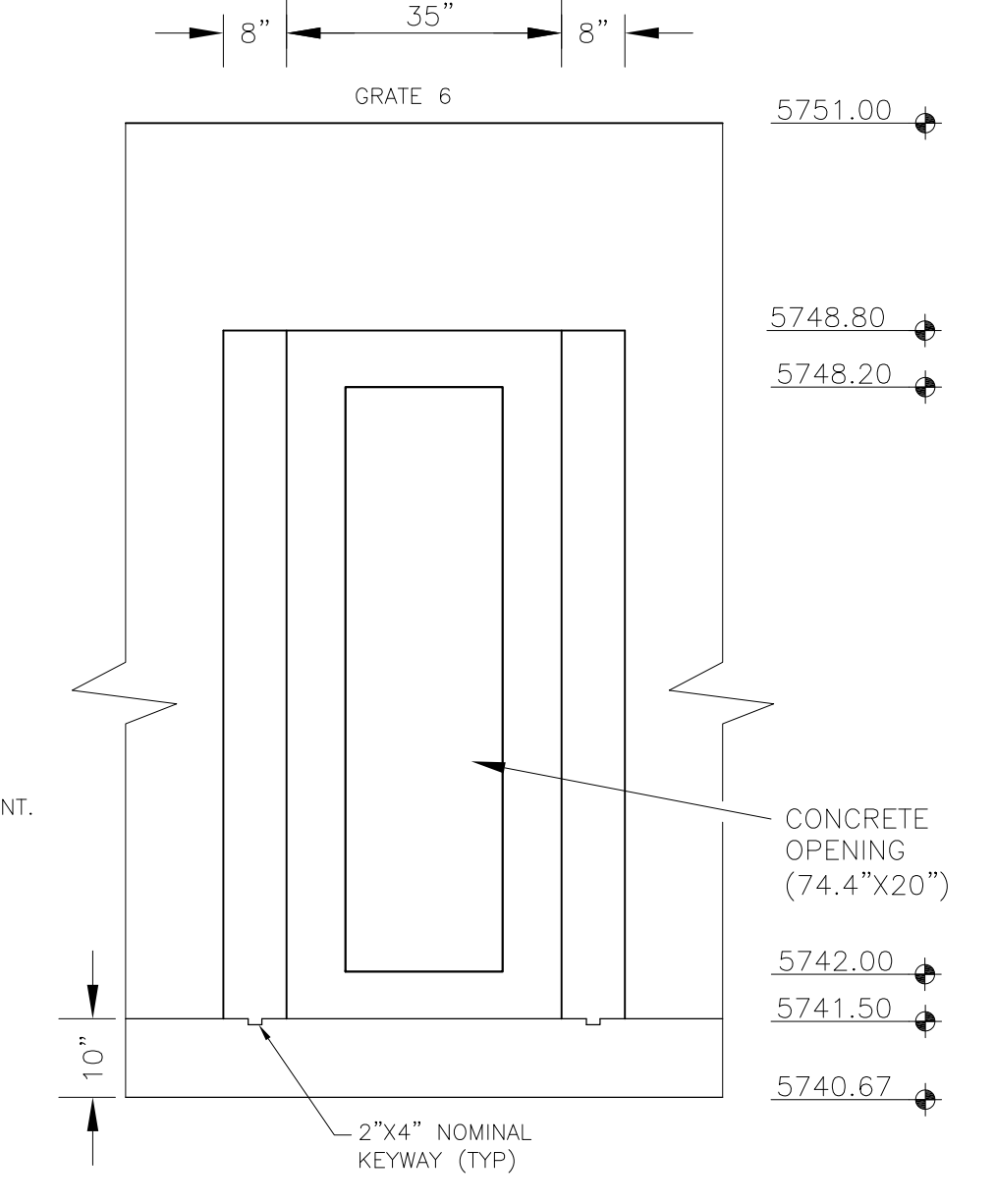
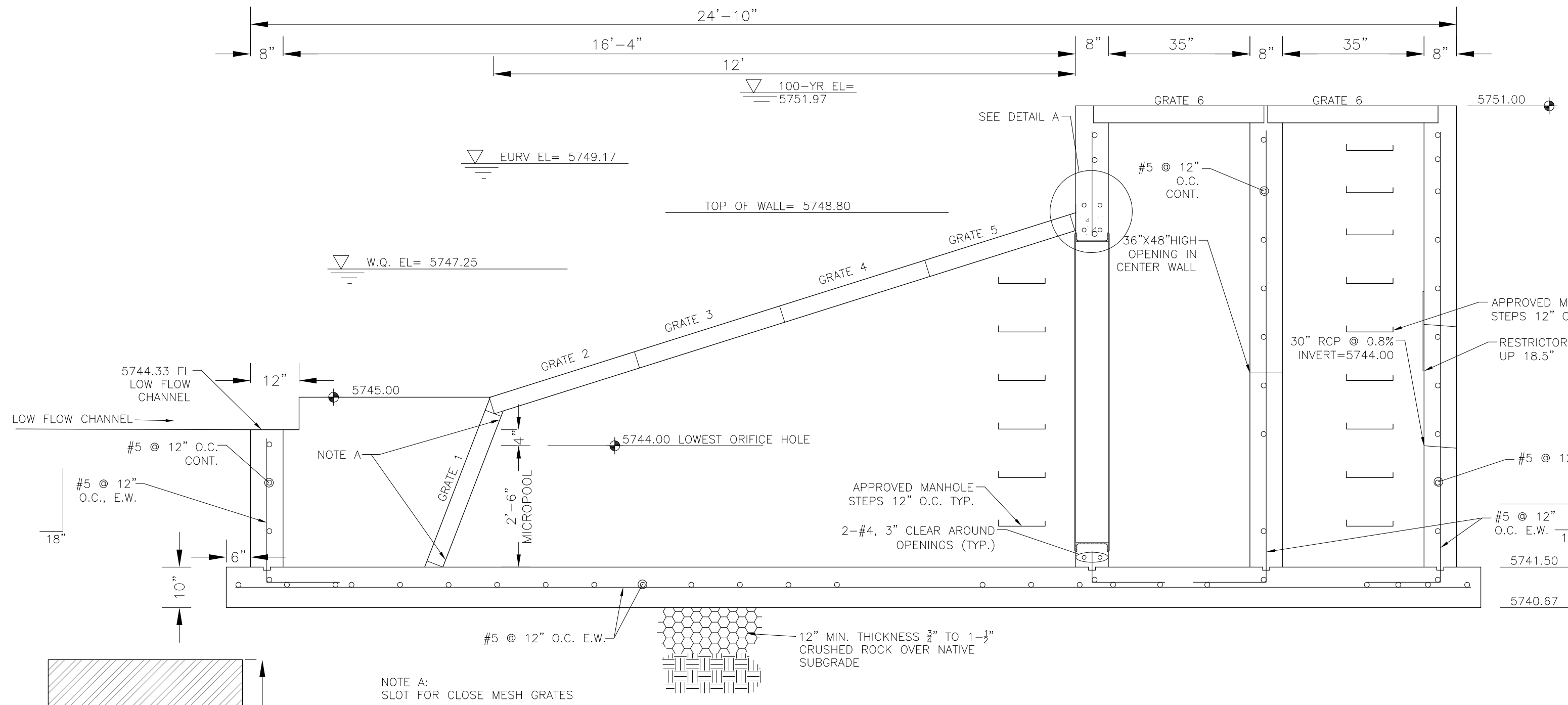
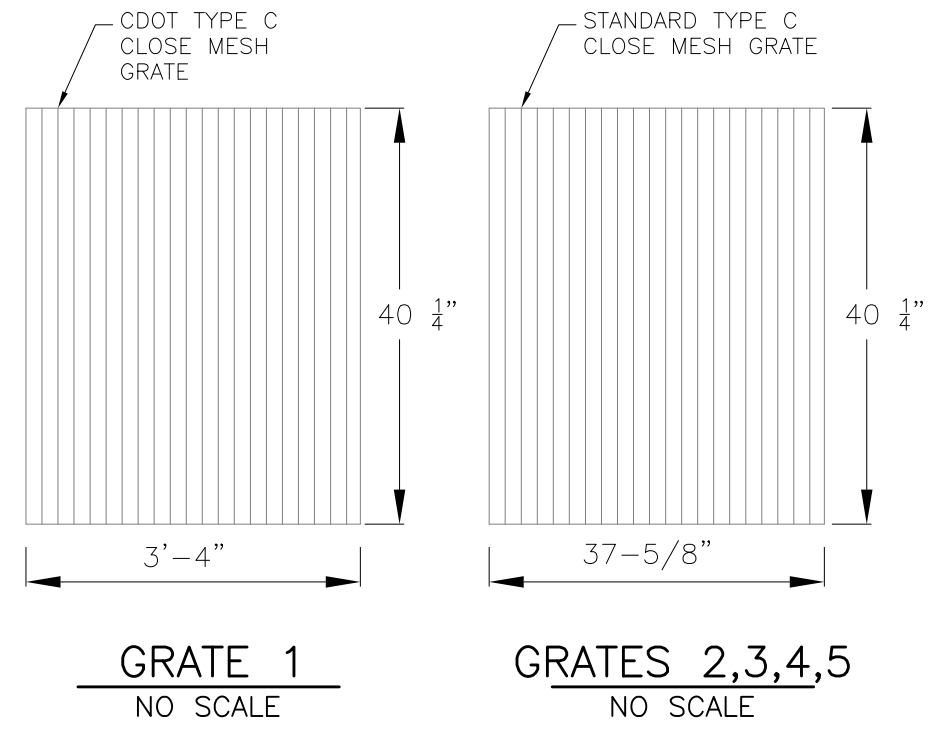
PROJECT: **THE HILLS COLLECTOR STREET CONSTRUCTION**  
FONTAINE BLVD. - GRAYLING DR  
LORSON BLVD - WALLEE DR - LAMPREY DR  
COLORADO SPRINGS, COLORADO

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

**POND C1 FULL SPECTRUM OUTLET STRUCTURE DETAILS**



NOTE:  
AFTER CONCRETE STRUCTURE HAS BEEN POURED  
ALL GRATE DIMENSIONS SHALL BE FIELD VERIFIED  
PRIOR TO GRATE CONSTRUCTION



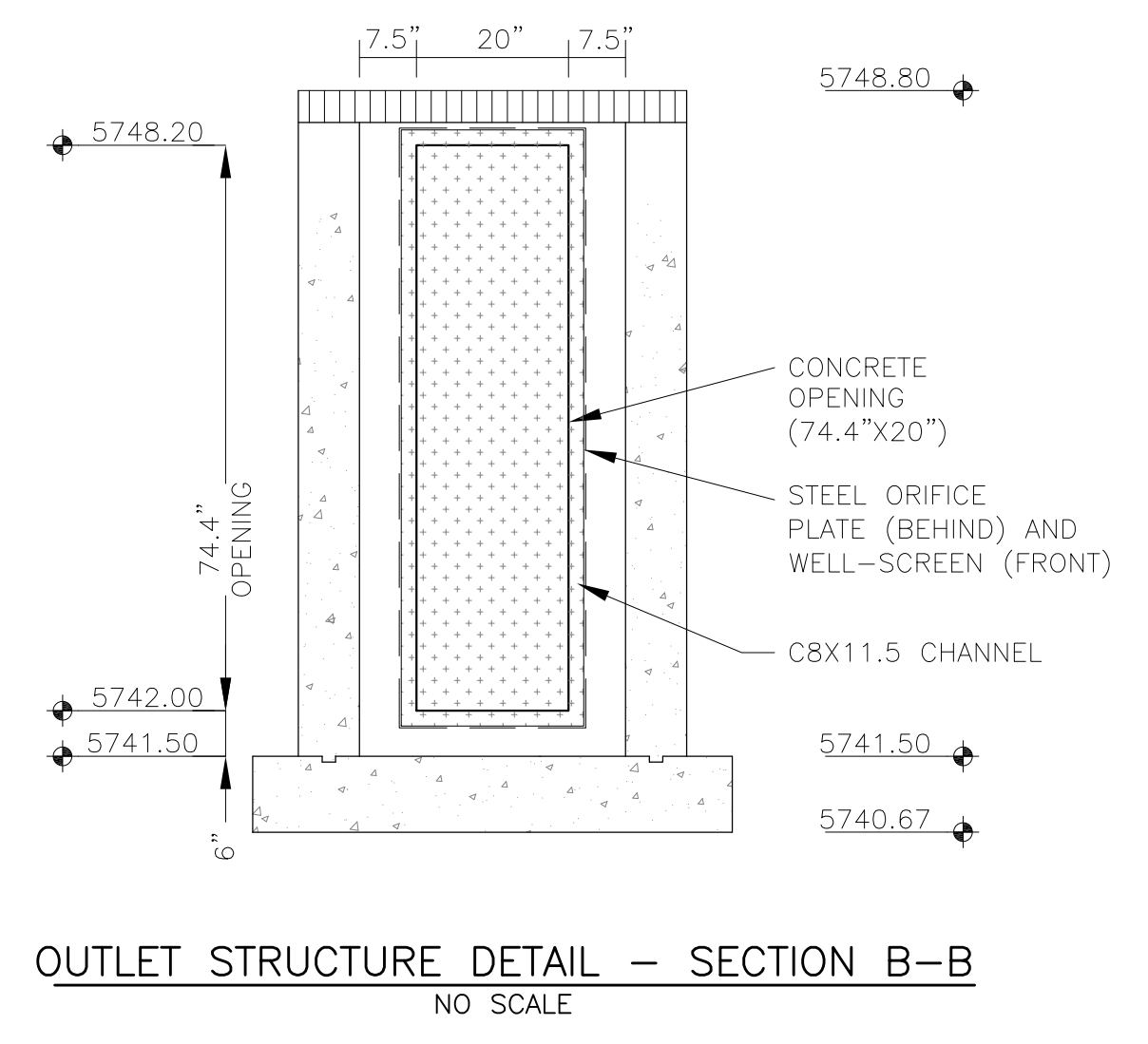
OUTLET STRUCTURE, FOREBAY, AND DRAIN CHANNEL NOTES:

- PRIOR TO CONSTRUCTION, CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL COMPONENTS OF THE OUTLET STRUCTURE.
- GRADE 60 REINFORCING STEEL REQUIRED. SEE TABLE FOR THE MINIMUM LAP SPLICE LENGTH FOR REINFORCING BARS. ALL REINFORCING STEEL SHALL HAVE A TWO-INCH MINIMUM CLEARANCE FROM EDGE OF CONCRETE, UNLESS OTHERWISE NOTED.
- CONCRETE FOR THE OUTLET STRUCTURE AND FOREBAY SHALL BE CDOT CLASS D CONCRETE.
- CONCRETE FOR DRAIN CHANNELS SHALL BE CDOT CLASS B CONCRETE
- EXPANSION JOINT MATERIAL SHALL MEET AASHTO SPECIFICATION M-213. EXPANSION JOINT MATERIAL SHALL BE 1/2" THICK, SHALL EXTEND THE FULL DEPTH OF CONTACT SURFACE AND THE JOINT SHALL BE SEALED, REFER TO DETAILS.
- ALL EXPOSED CONCRETE CORNERS SHALL HAVE A 3/8" CHAMFER UNLESS OTHERWISE NOTED.
- SUBGRADE TO BE 12" THICK CLEAN FILL COMPACTED TO 95% STANDARD PROCTOR DENSITY PER ASTM M698 UNDER STRUCTURE.
- REFER TO POND DETAILS FOR PRESEDIMENTATION/FOREBAY DESIGN.
- ENGINEER SHALL BE NOTIFIED PRIOR TO BEGINNING CONSTRUCTION OF OUTLET STRUCTURE TO SCHEDULE OBSERVATION VISITS FOR STRUCTURES.

BAR SIZE	#4	#5	#6
MIN. SPLICE LENGTH	1'-3"	1'-7"	2'-0"

WQCV WELL-SCREEN NOTES:

- Well-Screen shall be stainless steel and attached by stainless steel bolts along edge of the mounting frame.
- WQCV Well Screen
  - Type of Screen: Stainless steel #93 Vee Wire (Johnson Vee Wire (tm) Stainless Steel Screen or equivalent with 60% open area)
  - Screen slot opening dimension: 0.139" (Screen #93 Vee Wire Slot Opening)
  - Type and Size of Support Rod: TE 0.074"X0.50"
  - Spacing of Support Rod (O.C.): 1.0 Inch
  - Total Screen Thickness: 0.655"
  - Carbon Steel Holding Frame Type: 3/4" x 1.0" angle



**CORE ENGINEERING GROUP**  
15004 1ST AVENUE S.  
DENVER, CO 80206  
PH: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@cgei.com

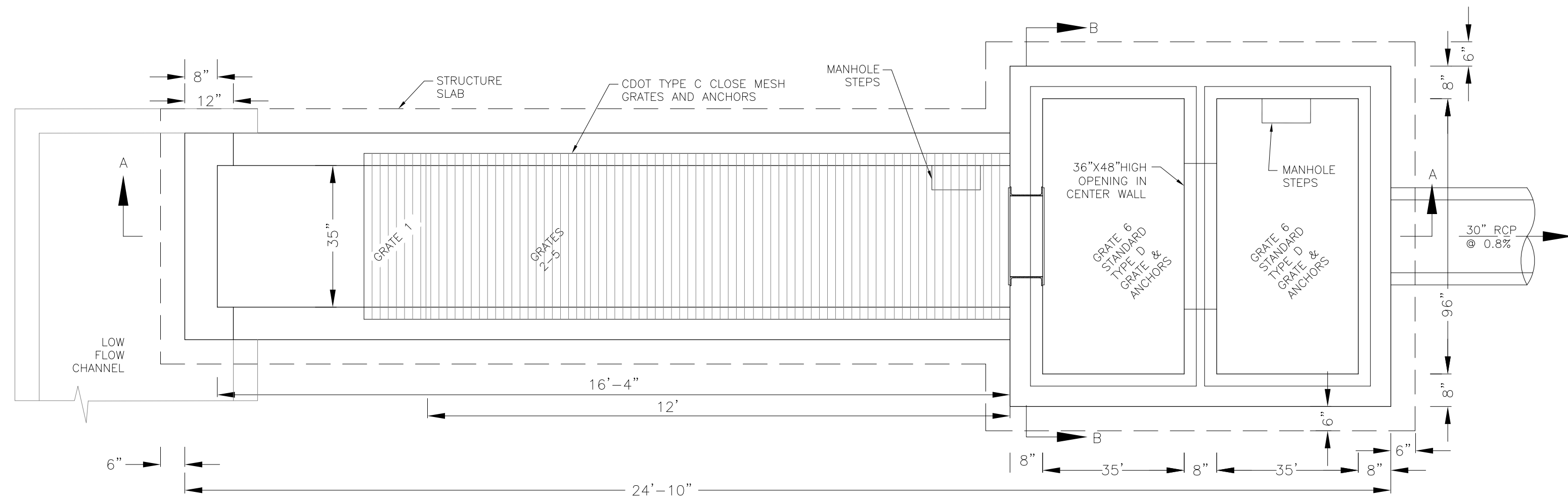
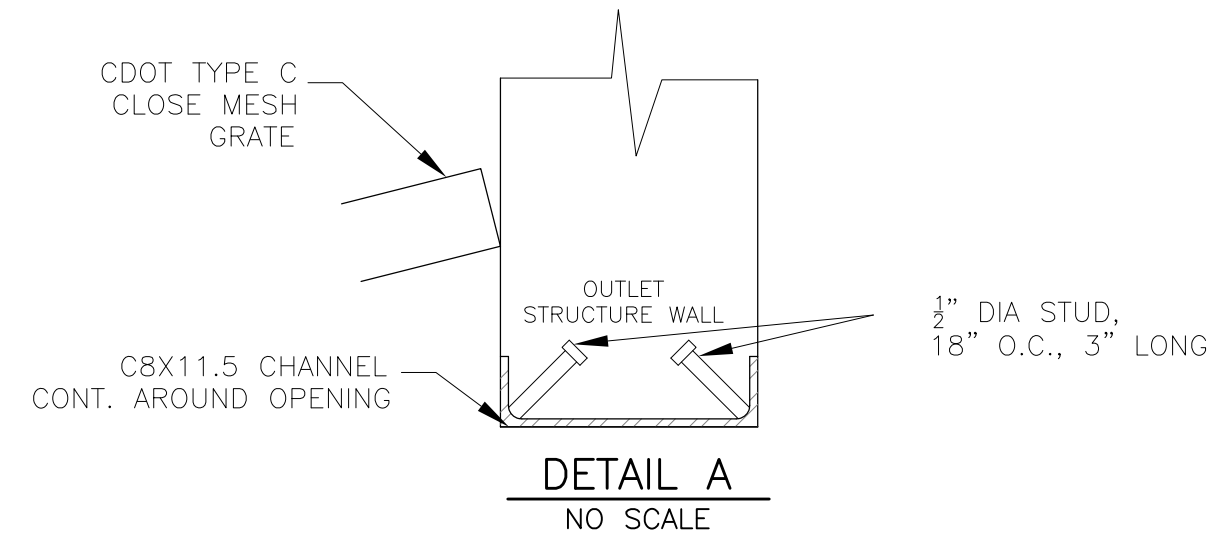
PREPARED FOR:  
**LORSON, LLC**  
212 N. WAHSATCH AVE, SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
(719) 635-3200  
CONTACT: JEFF MARK

PROJECT:  
**THE HILLS COLLECTOR STREET CONSTRUCTION**  
FONTAINE BLVD. - GRAYLING DR  
LORSON BLVD - WALLEYE DR - LAMPREY DR  
COLORADO SPRINGS, COLORADO

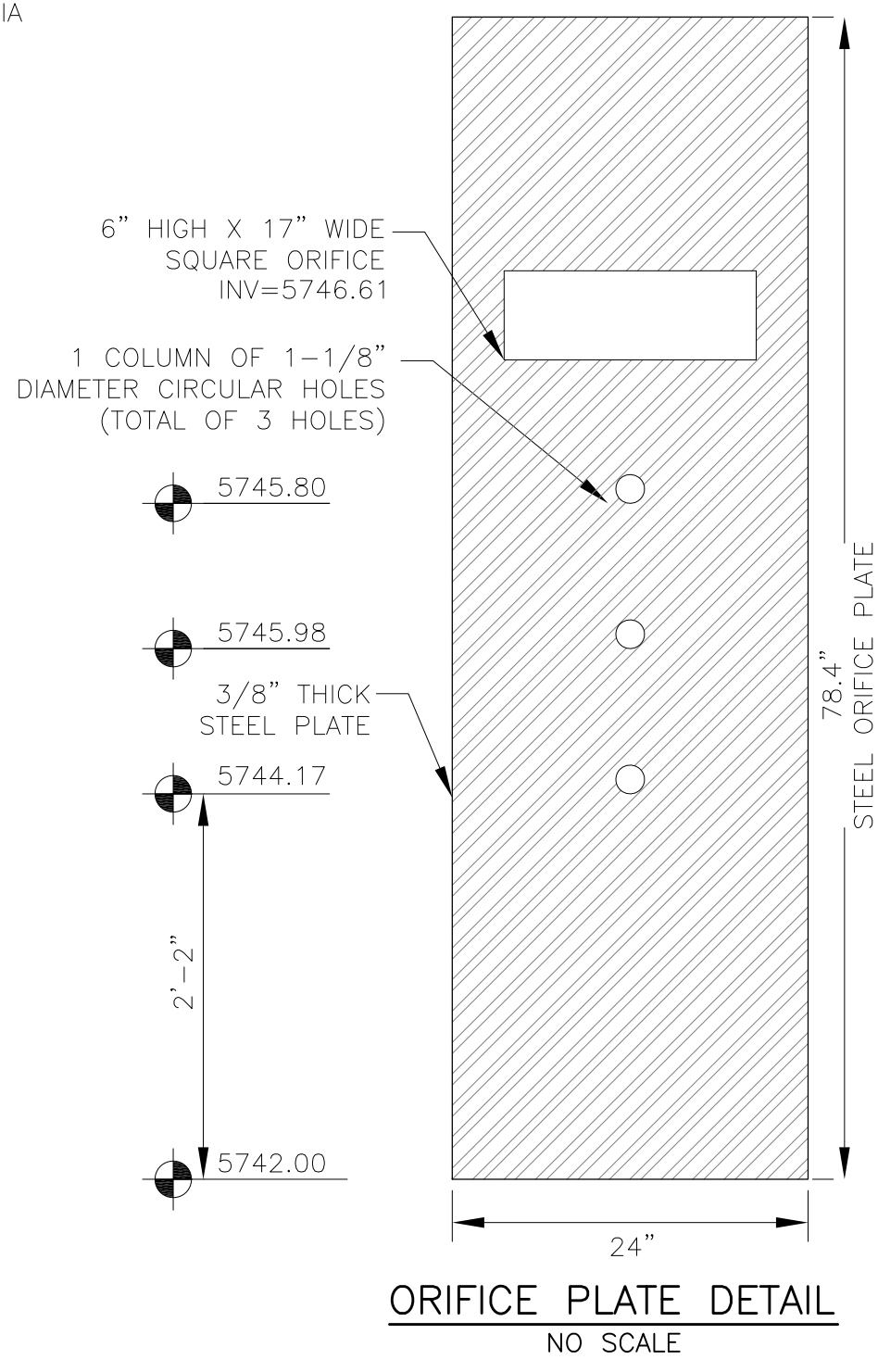
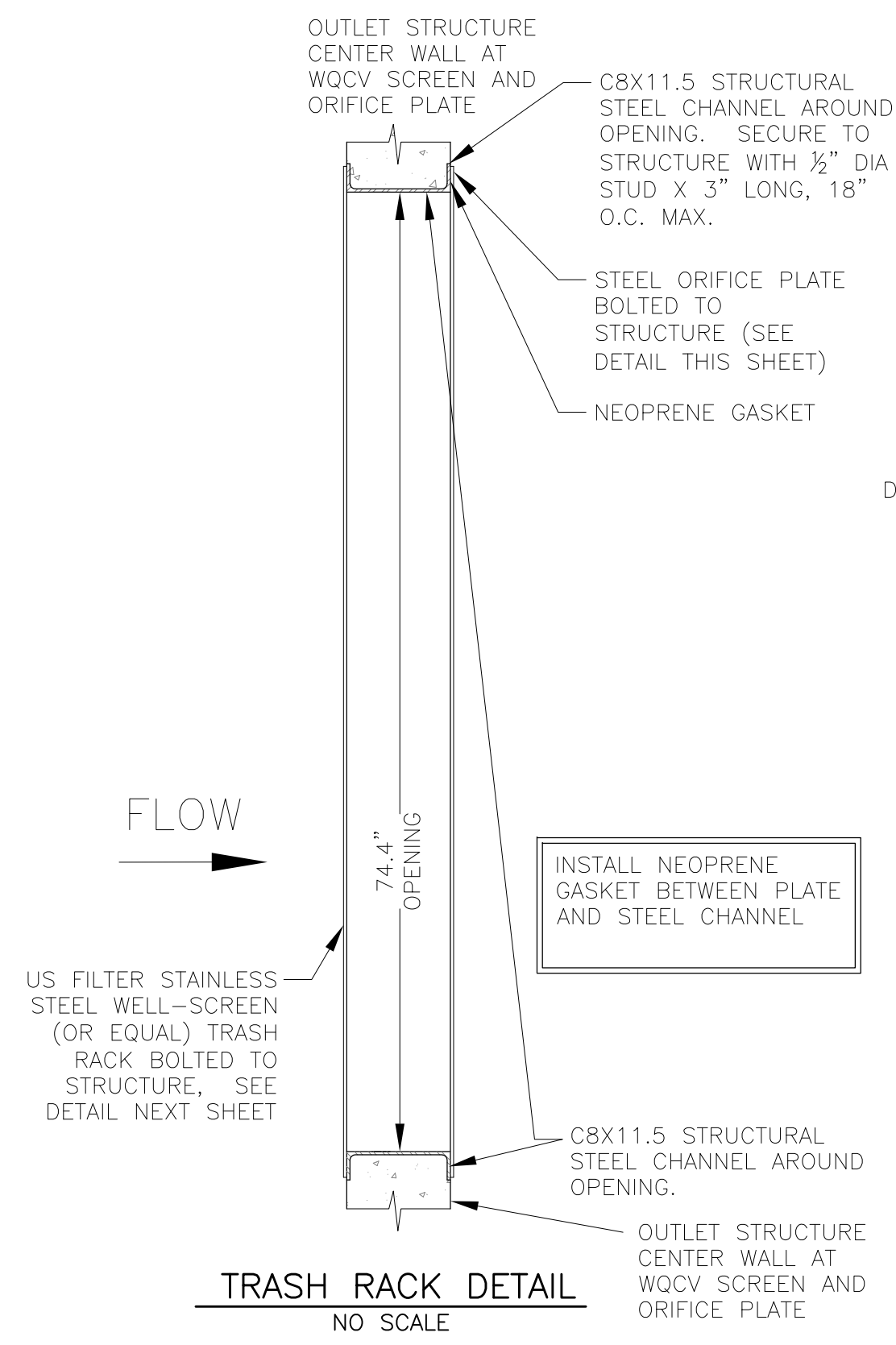
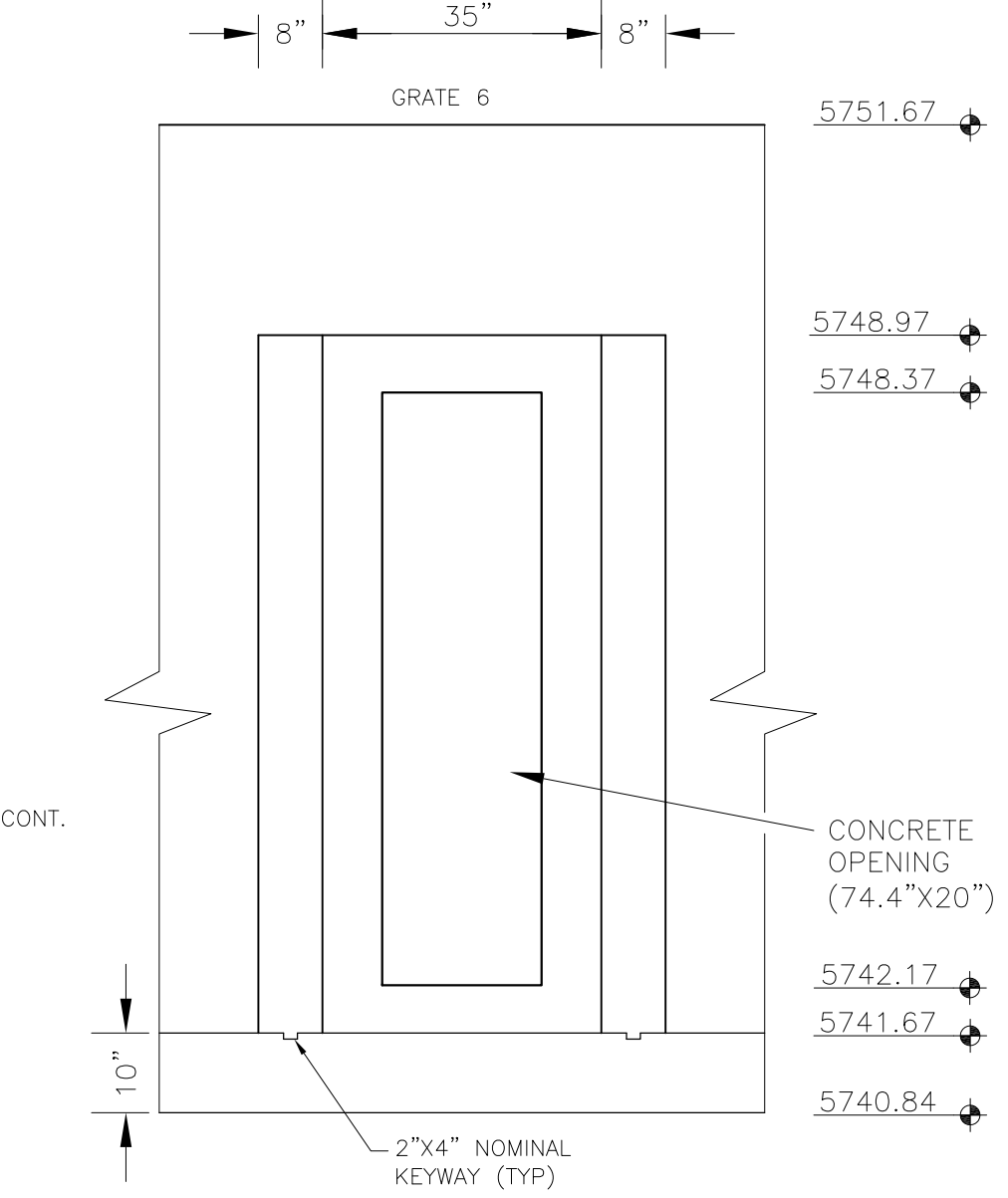
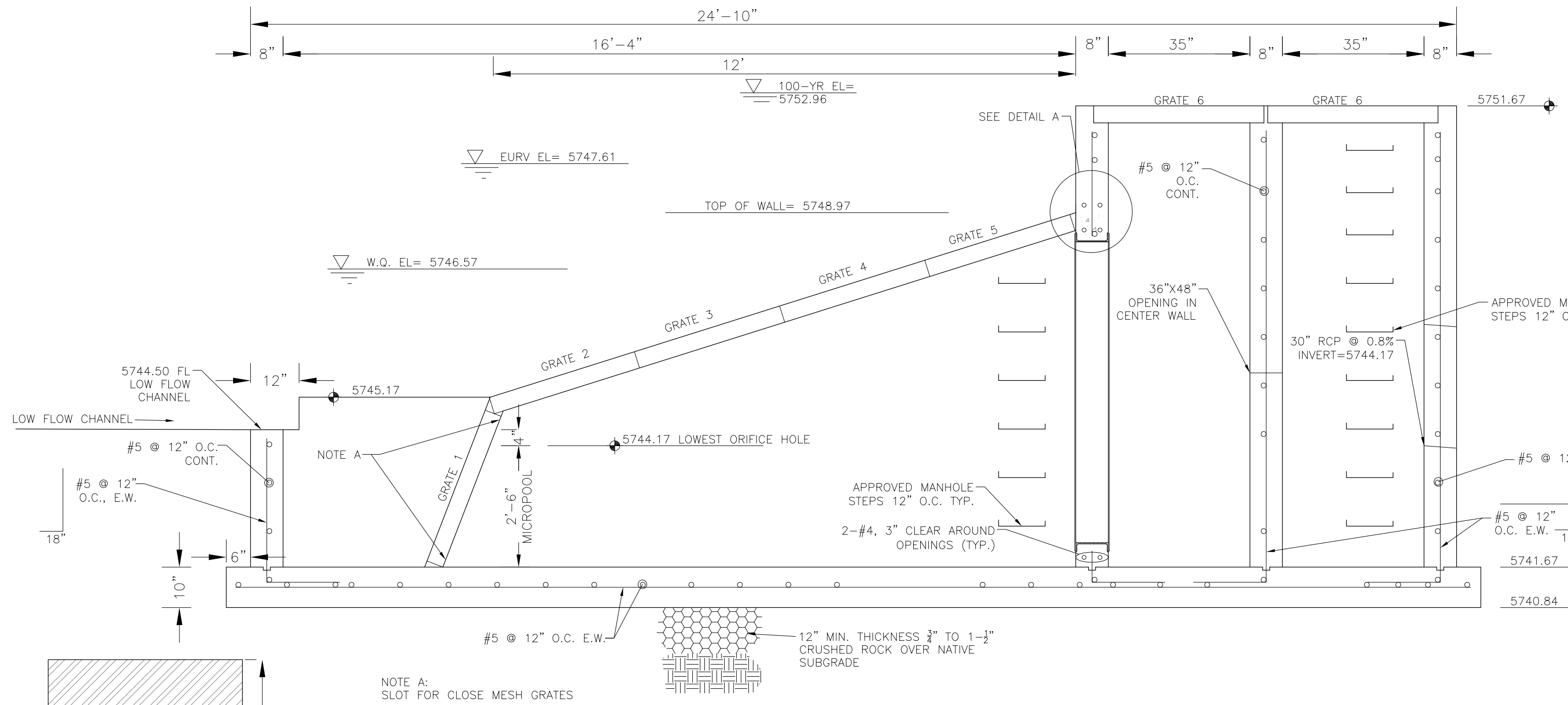
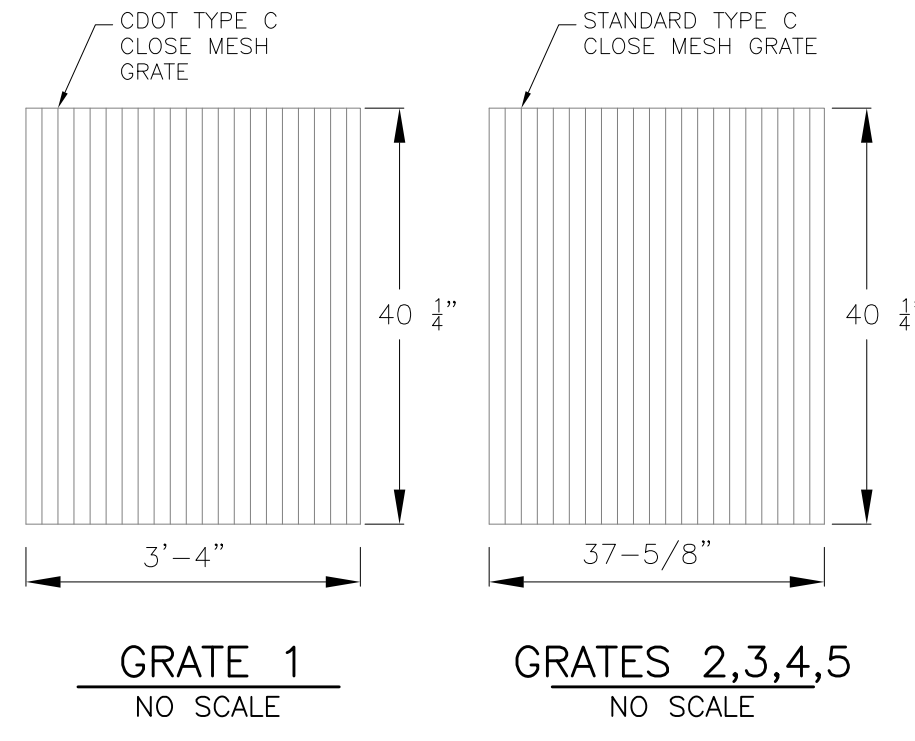
DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

**POND C2.2**  
**FULL SPECTRUM**  
**OUTLET STRUCTURE DETAILS**

DATE:  
JUNE 1, 2020  
PROJECT NO.  
100.061  
SHEET NUMBER  
C9.13  
TOTAL SHEETS: 58



NOTE:  
AFTER CONCRETE STRUCTURE HAS BEEN POURED  
ALL GRATE DIMENSIONS SHALL BE FIELD VERIFIED  
PRIOR TO GRATE CONSTRUCTION

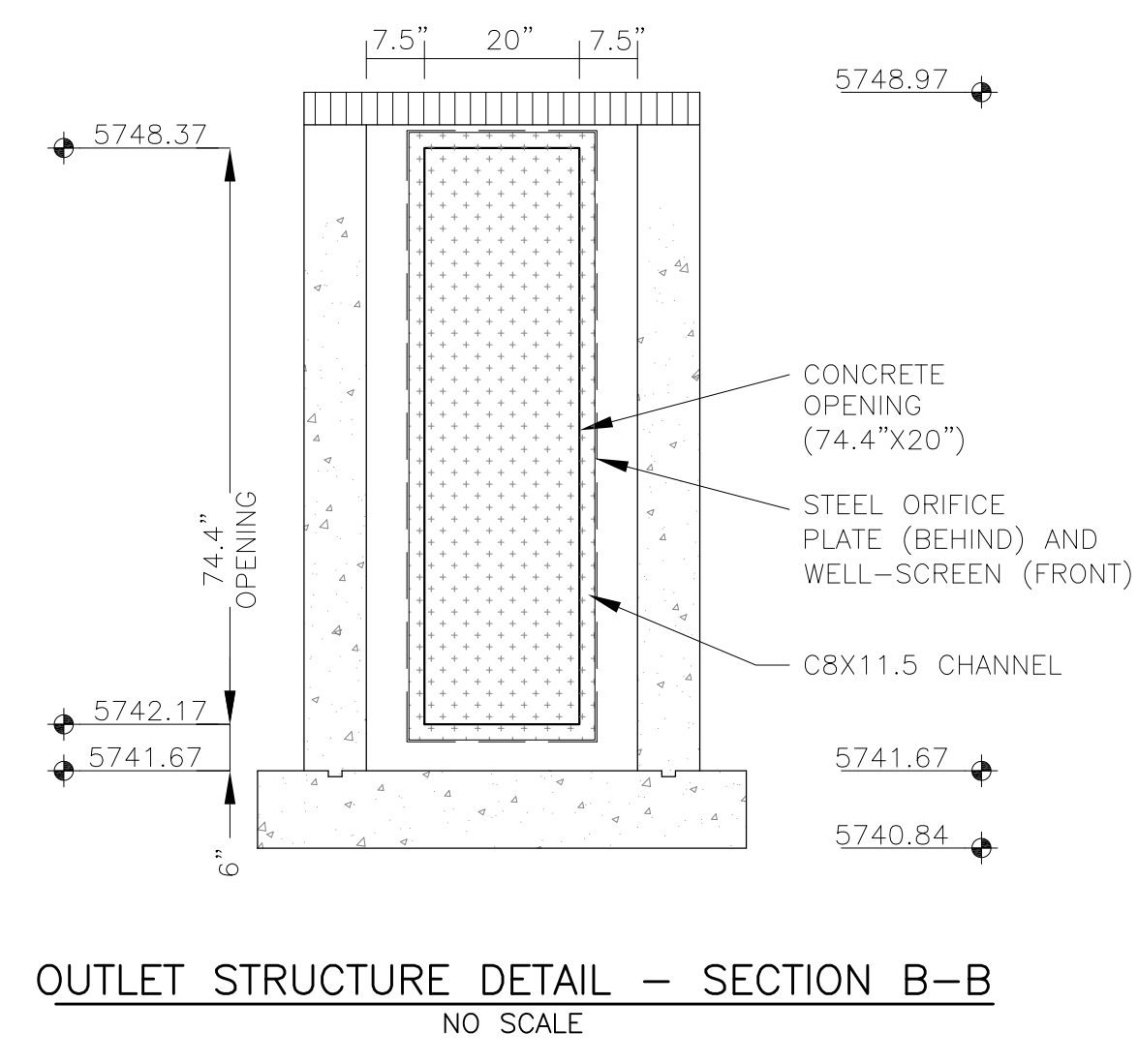


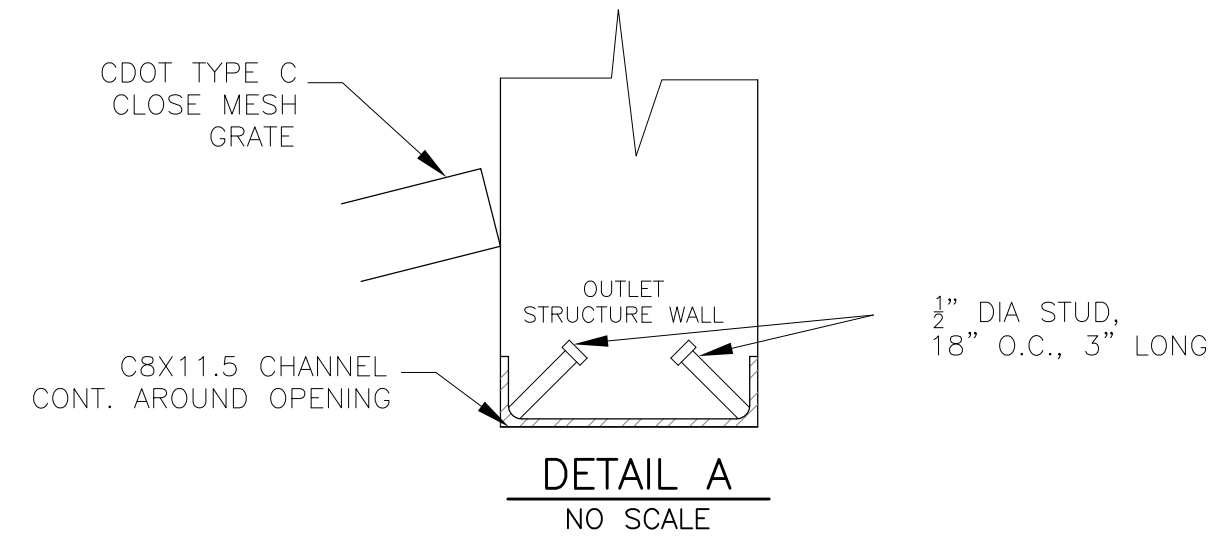
**OUTLET STRUCTURE, FOREBAY, AND DRAIN CHANNEL NOTES:**

- PRIOR TO CONSTRUCTION, CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL COMPONENTS OF THE OUTLET STRUCTURE.
- GRADE 60 REINFORCING STEEL REQUIRED. SEE TABLE FOR THE MINIMUM LAP SPLICE LENGTH FOR REINFORCING BARS. ALL REINFORCING STEEL SHALL HAVE A TWO-INCH MINIMUM CLEARANCE FROM EDGE OF CONCRETE, UNLESS OTHERWISE NOTED.
- CONCRETE FOR THE OUTLET STRUCTURE AND FOREBAY SHALL BE CDOT CLASS D CONCRETE.
- CONCRETE FOR DRAIN CHANNELS SHALL BE CDOT CLASS B CONCRETE
- EXPANSION JOINT MATERIAL SHALL MEET AASHTO SPECIFICATION M-213. EXPANSION JOINT MATERIAL SHALL BE 1/2\"/>

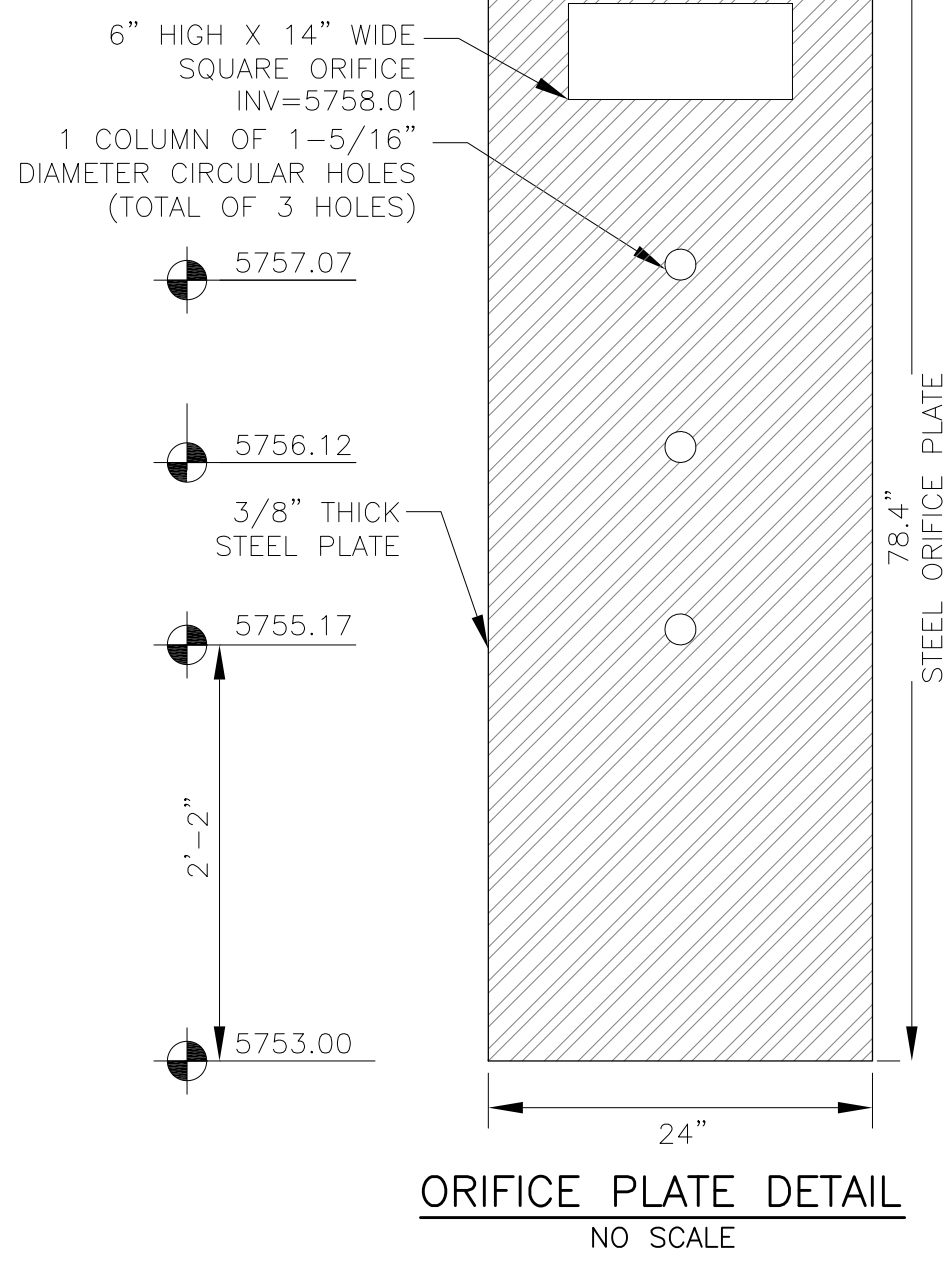
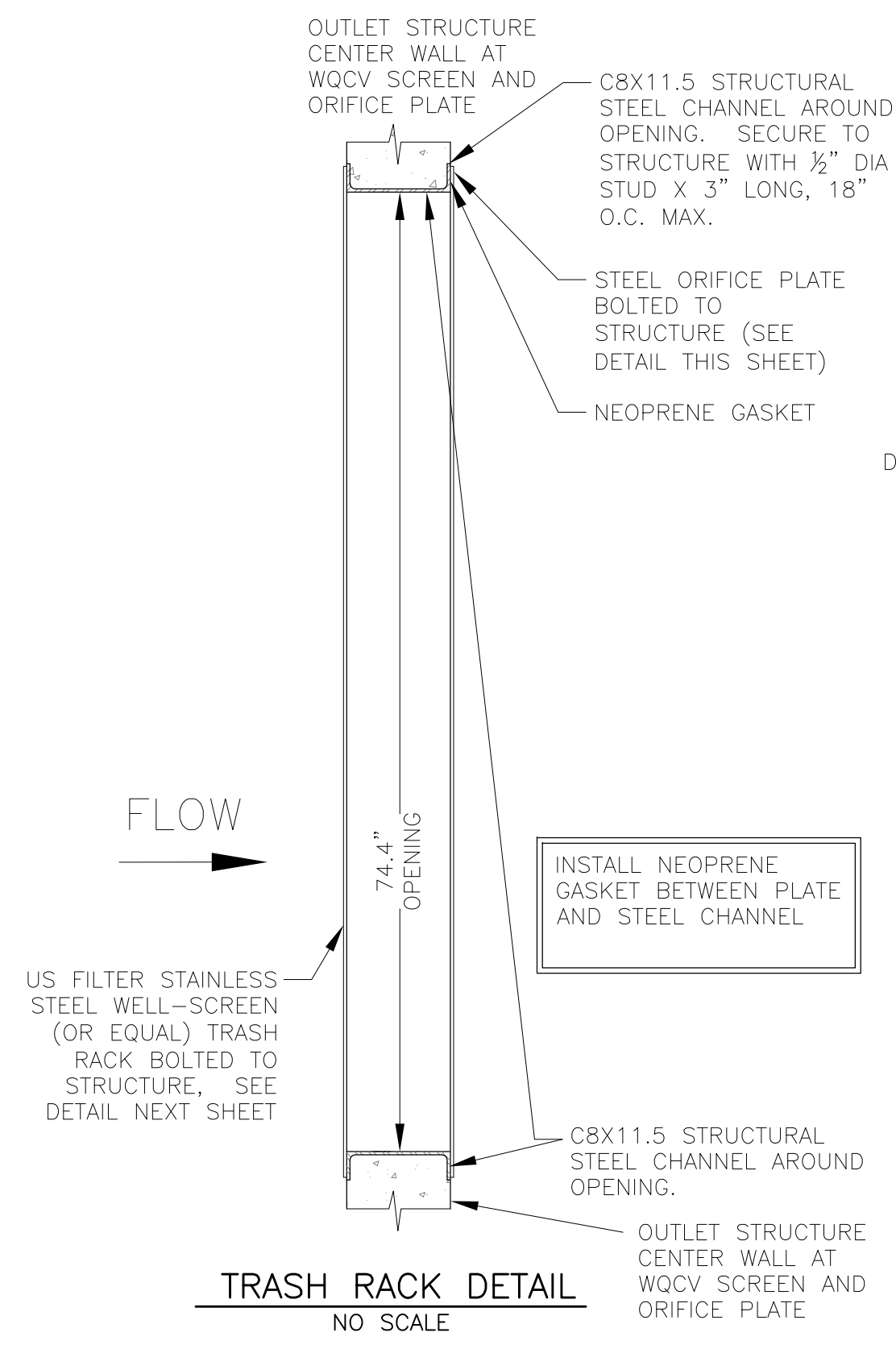
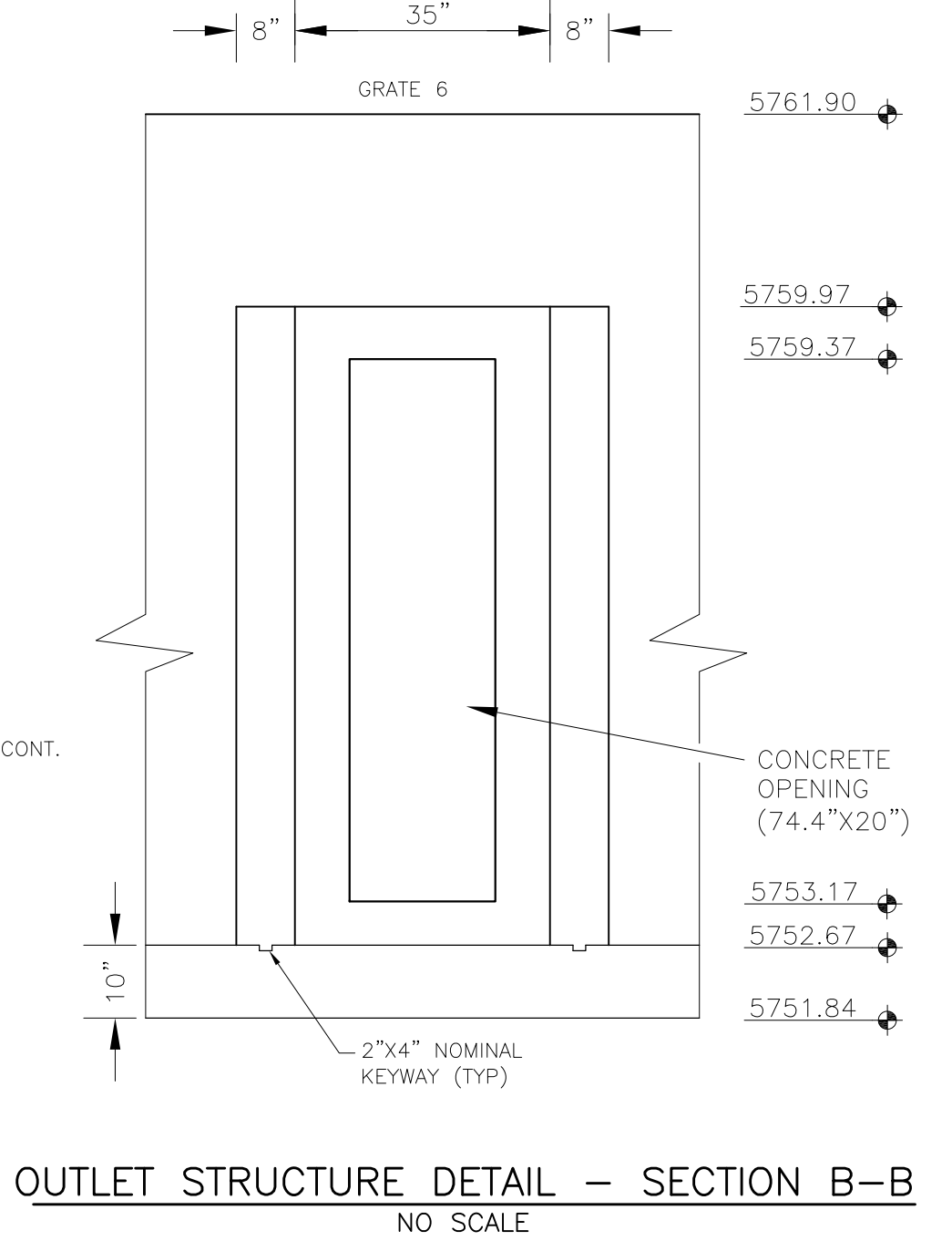
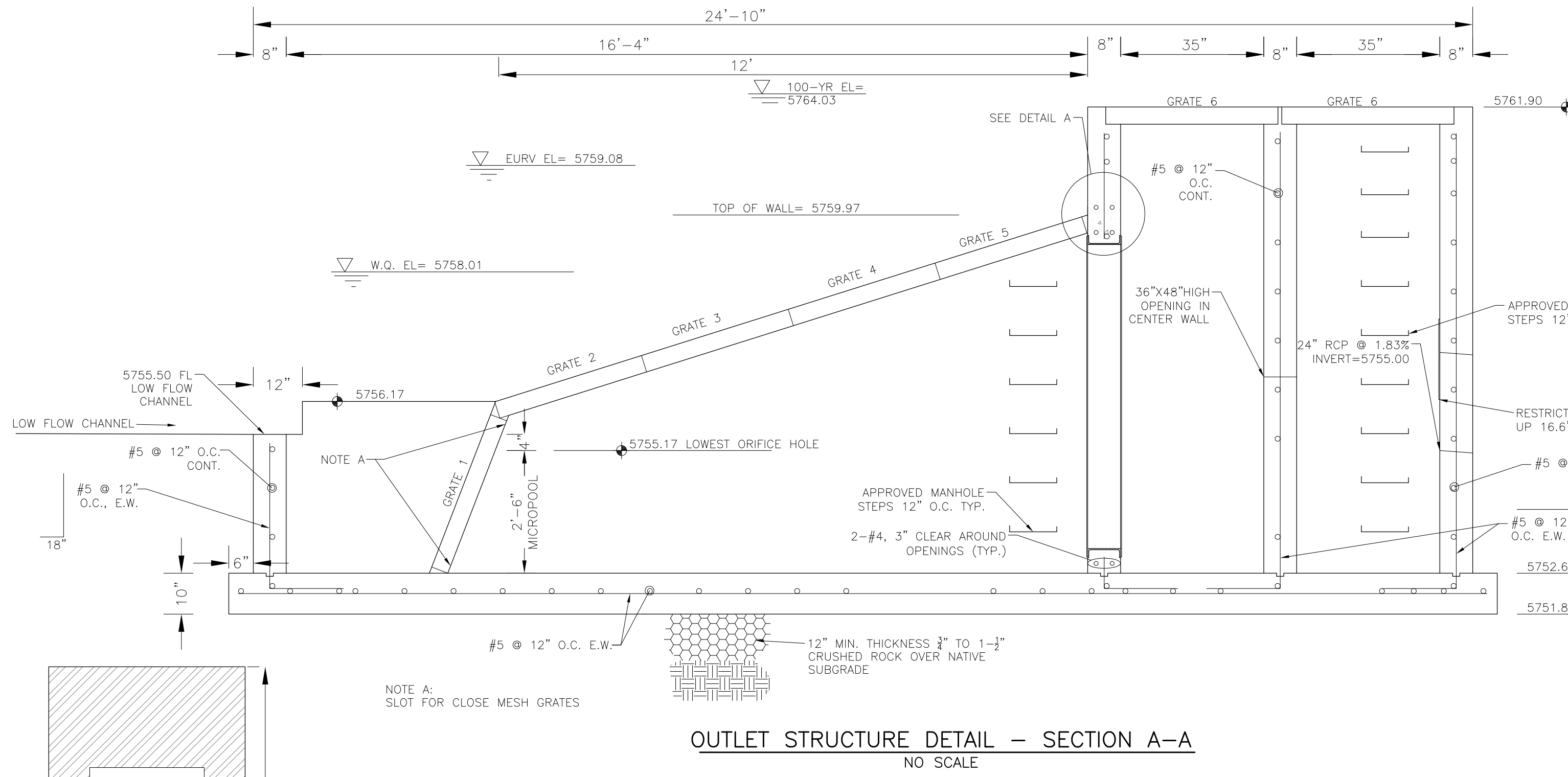
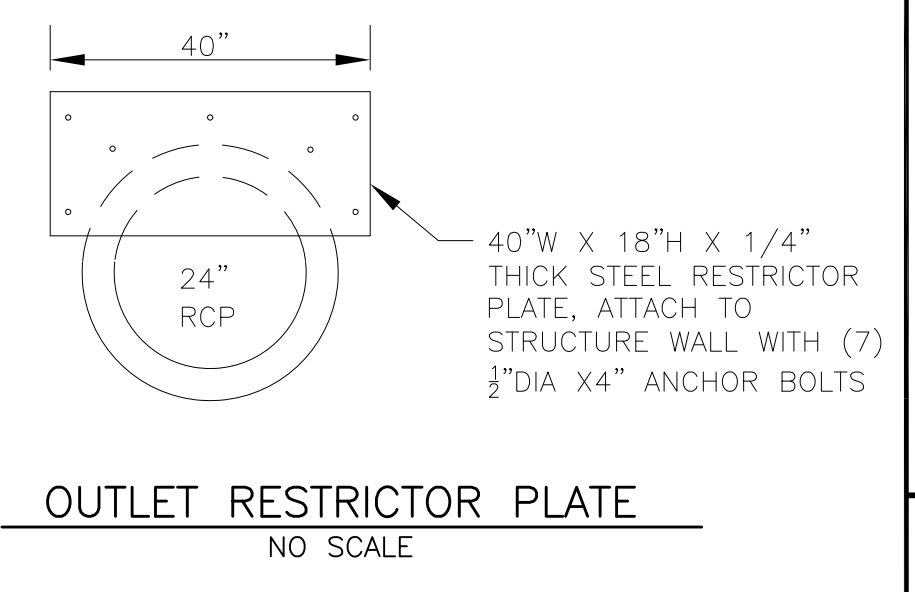
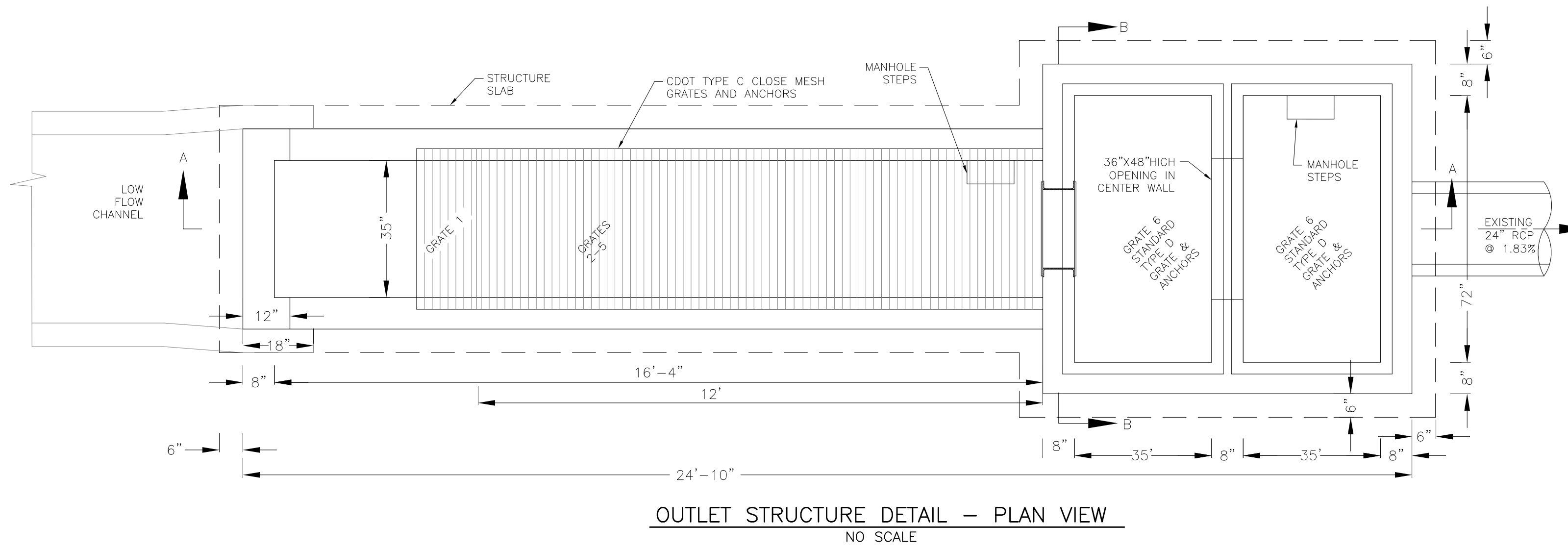
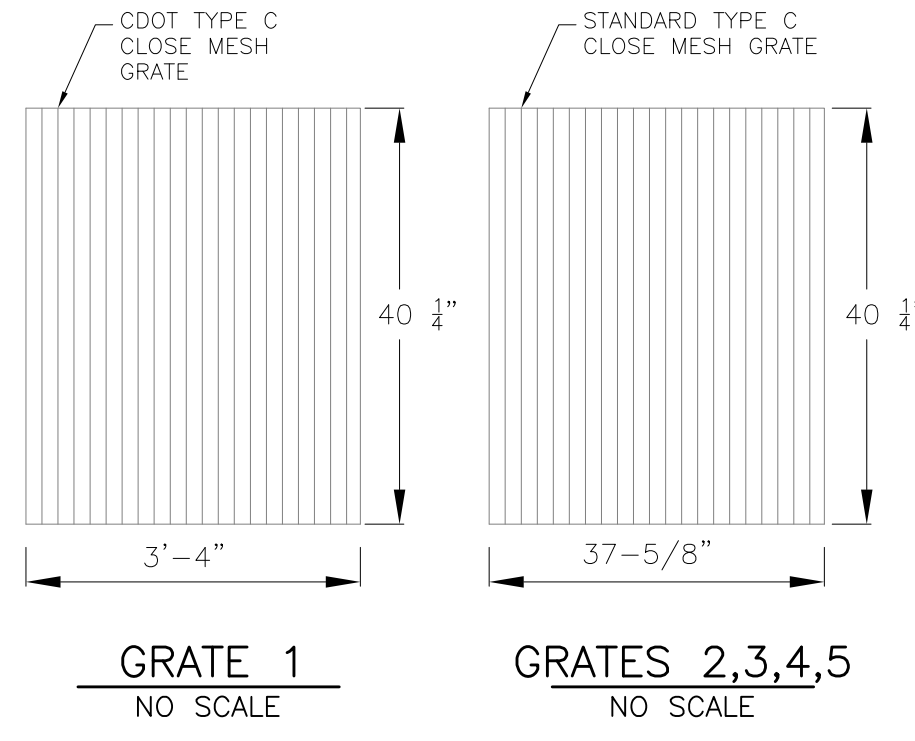
BAR SIZE	#4	#5	#6
MIN. SPLICE LENGTH	1'-3"	1'-7"	2'-0"

- WQCV WELL-SCREEN NOTES:**
- Well-Screen shall be stainless steel and attached by stainless steel bolts along edge of the mounting frame.
  - WQCV Well Screen
    - Type of Screen: Stainless steel #93 Vee Wire (Johnson Vee Wire (tm) Stainless Steel Screen or equivalent with 60% open area)
    - Screen slot opening dimension: 0.139" (Screen #93 Vee Wire Slot Opening)
    - Type and Size of Support Rod: TE 0.074"x0.50"
    - Spacing of Support Rod (O.C.): 1.0 Inch
    - Total Screen Thickness: 0.655"
    - Carbon Steel Holding Frame Type: 3/4" x 1.0" angle





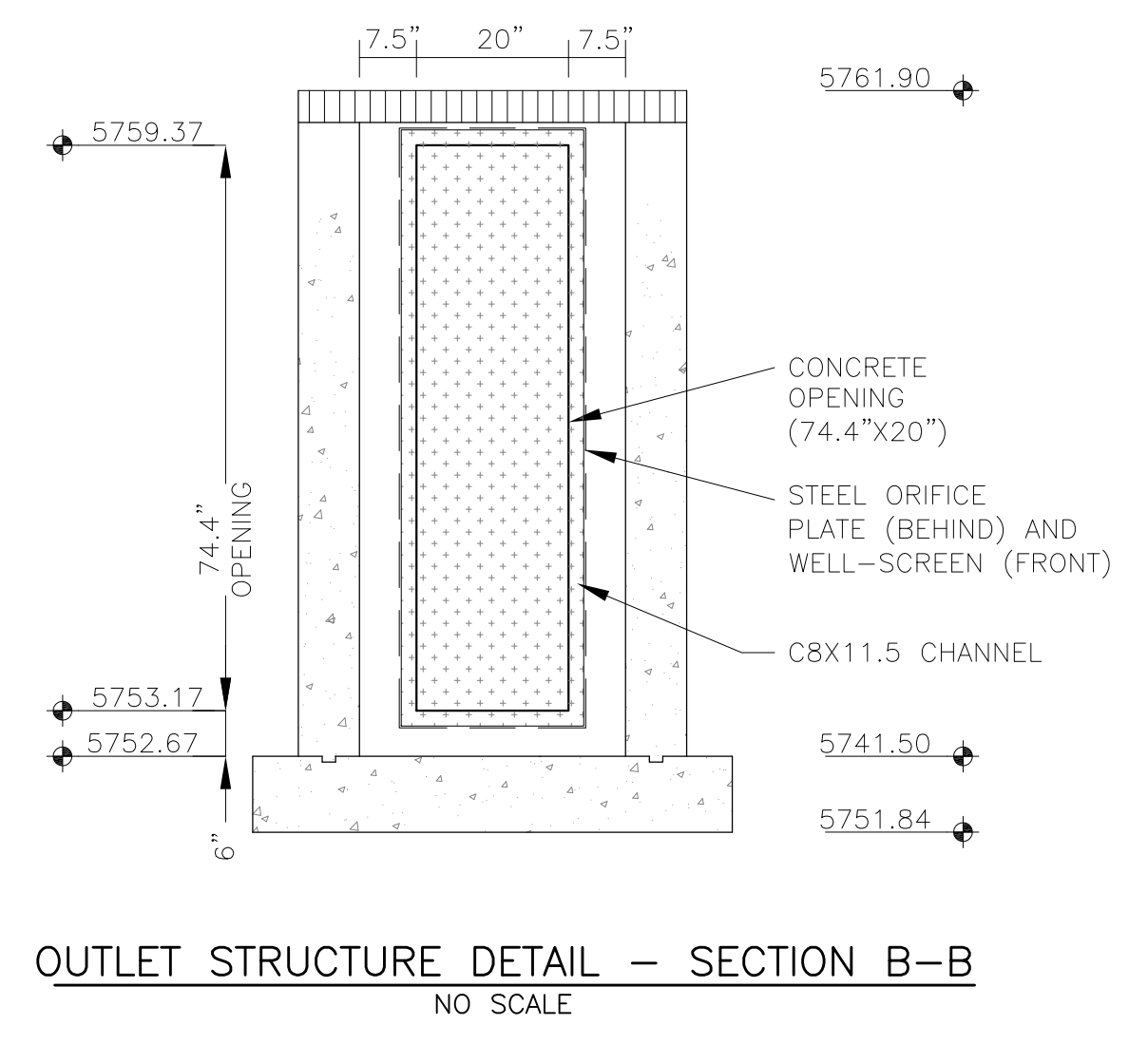
NOTE:  
AFTER CONCRETE STRUCTURE HAS BEEN POURED  
ALL GRATE DIMENSIONS SHALL BE FIELD VERIFIED  
PRIOR TO GRATE CONSTRUCTION



OUTLET STRUCTURE, FOREBAY, AND DRAIN CHANNEL NOTES:

- PRIOR TO CONSTRUCTION, CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL COMPONENTS OF THE OUTLET STRUCTURE.
  - GRADE 60 REINFORCING STEEL REQUIRED. SEE TABLE FOR THE MINIMUM LAP SPLICE LENGTH FOR REINFORCING BARS. ALL REINFORCING STEEL SHALL HAVE A TWO-INCH MINIMUM CLEARANCE FROM EDGE OF CONCRETE, UNLESS OTHERWISE NOTED.
- | BAR SIZE           | #4    | #5    | #6    |
|--------------------|-------|-------|-------|
| MIN. SPLICE LENGTH | 1'-3" | 1'-7" | 2'-0" |
- CONCRETE FOR THE OUTLET STRUCTURE AND FOREBAY SHALL BE CDOT CLASS D CONCRETE.
  - CONCRETE FOR DRAIN CHANNELS SHALL BE CDOT CLASS B CONCRETE
  - EXPANSION JOINT MATERIAL SHALL MEET AASHTO SPECIFICATION M-213. EXPANSION JOINT MATERIAL SHALL BE 1/2" THICK, SHALL EXTEND THE FULL DEPTH OF CONTACT SURFACE AND THE JOINT SHALL BE SEALED, REFER TO DETAILS.
  - ALL EXPOSED CONCRETE CORNERS SHALL HAVE A 3/8" CHAMFER UNLESS OTHERWISE NOTED.
  - SUBGRADE TO BE 12" THICK CLEAN FILL COMPACTED TO 95% STANDARD PROCTOR DENSITY PER ASTM M698 UNDER STRUCTURE.
  - REFER TO POND DETAILS FOR PRESEDIMENTATION/FOREBAY DESIGN.
  - ENGINEER SHALL BE NOTIFIED PRIOR TO BEGINNING CONSTRUCTION OF OUTLET STRUCTURE TO SCHEDULE OBSERVATION VISITS FOR STRUCTURES.

- WQCV WELL-SCREEN NOTES:
- Well-Screen shall be stainless steel and attached by stainless steel bolts along edge of the mounting frame.
  - WQCV Well Screen
    - Type of Screen: Stainless steel #93 Vee Wire
    - (Johnson Vee Wire (tm) Stainless Steel Screen or equivalent with 60% open area)
    - Screen slot opening dimension: 0.139" (Screen #93 Vee Wire Slot Opening)
    - Type and Size of Support Rod: TE 0.074"x0.50"
    - Spacing of Support Rod (O.C.): 1.0 Inch
    - Total Screen Thickness: 0.655"
    - Carbon Steel Holding Frame Type: 3/4" x 1.0" angle



**CORE ENGINEERING GROUP**  
 15004 1ST AVENUE S.  
 PHOENIX, AZ 85006  
 CONTACT: RICHARD L. SCHINDLER, P.E.  
 PH: 719.570.1100  
 EMAIL: Rich@ceng1.com

DATE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

NO: \_\_\_\_\_

PREPARED FOR: **LORSON, LLC**  
 212 N. WAHSATCH AVE, SUITE 301  
 COLORADO SPRINGS, COLORADO 80903  
 CONTACT: JEFF MARK

PROJECT: **THE HILLS COLLECTOR STREET CONSTRUCTION**  
 FONTAINE BLVD. - GRAYLING DR  
 LORSON BLVD - WALLEYE DR - LAMPREY DR  
 COLORADO SPRINGS, COLORADO

DRAWN: RLS  
 DESIGNED: RLS  
 CHECKED: RLS

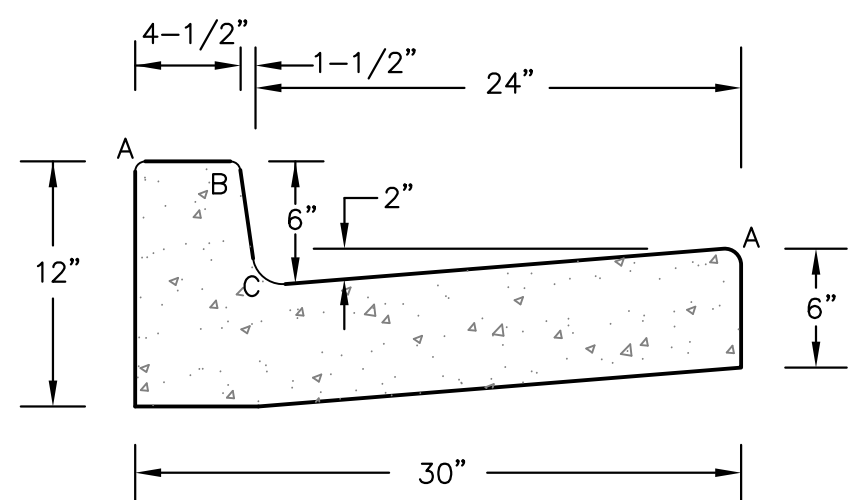
**POND C3**  
**FULL SPECTRUM**  
**OUTLET STRUCTURE DETAILS**

DATE: JUNE 1, 2020

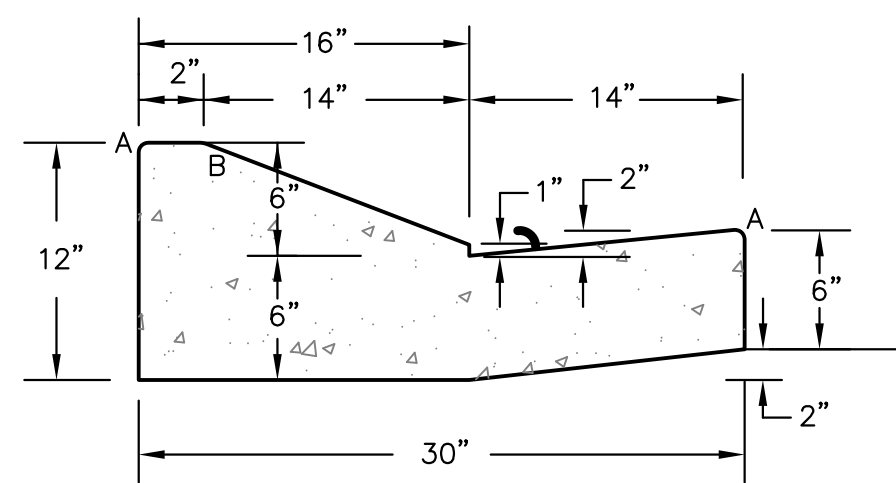
PROJECT NO: 100.061

SHEET NUMBER: C9.15

TOTAL SHEETS: 58



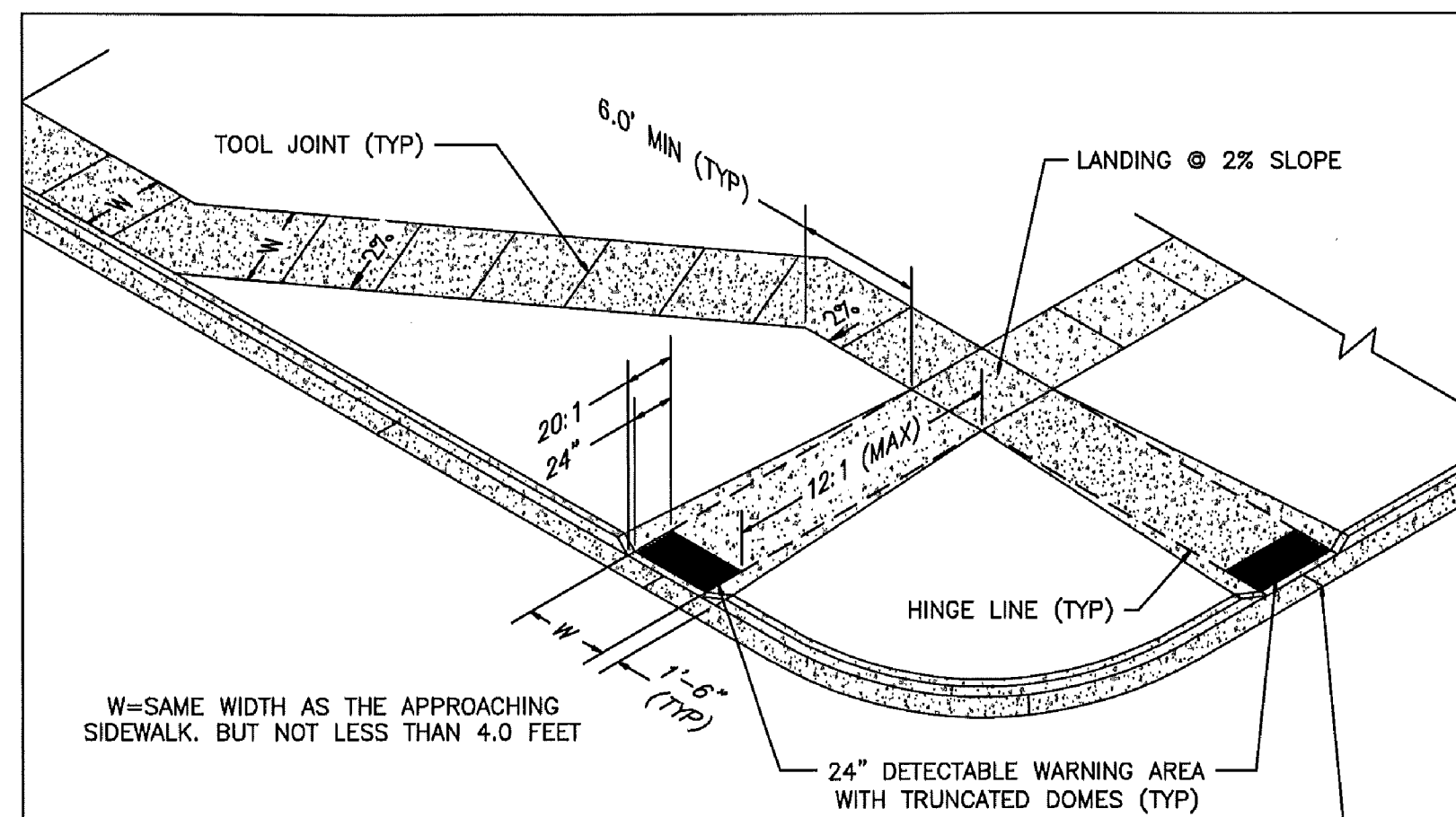
**TYPE 'A'**  
**VERTICAL CURB AND GUTTER**  
SCALE 1" = 1'-0"



**TYPE 'C'**  
**OPTIONAL TYPE C RAMP CURB AND GUTTER**  
SCALE 1" = 1'

LENGTH FOR RADII	
A	1/8" TO 1/4"
B	1-1/2"
C	1-1/2" TO 2"

**CURB DETAILS (ECM SD 2-20)**

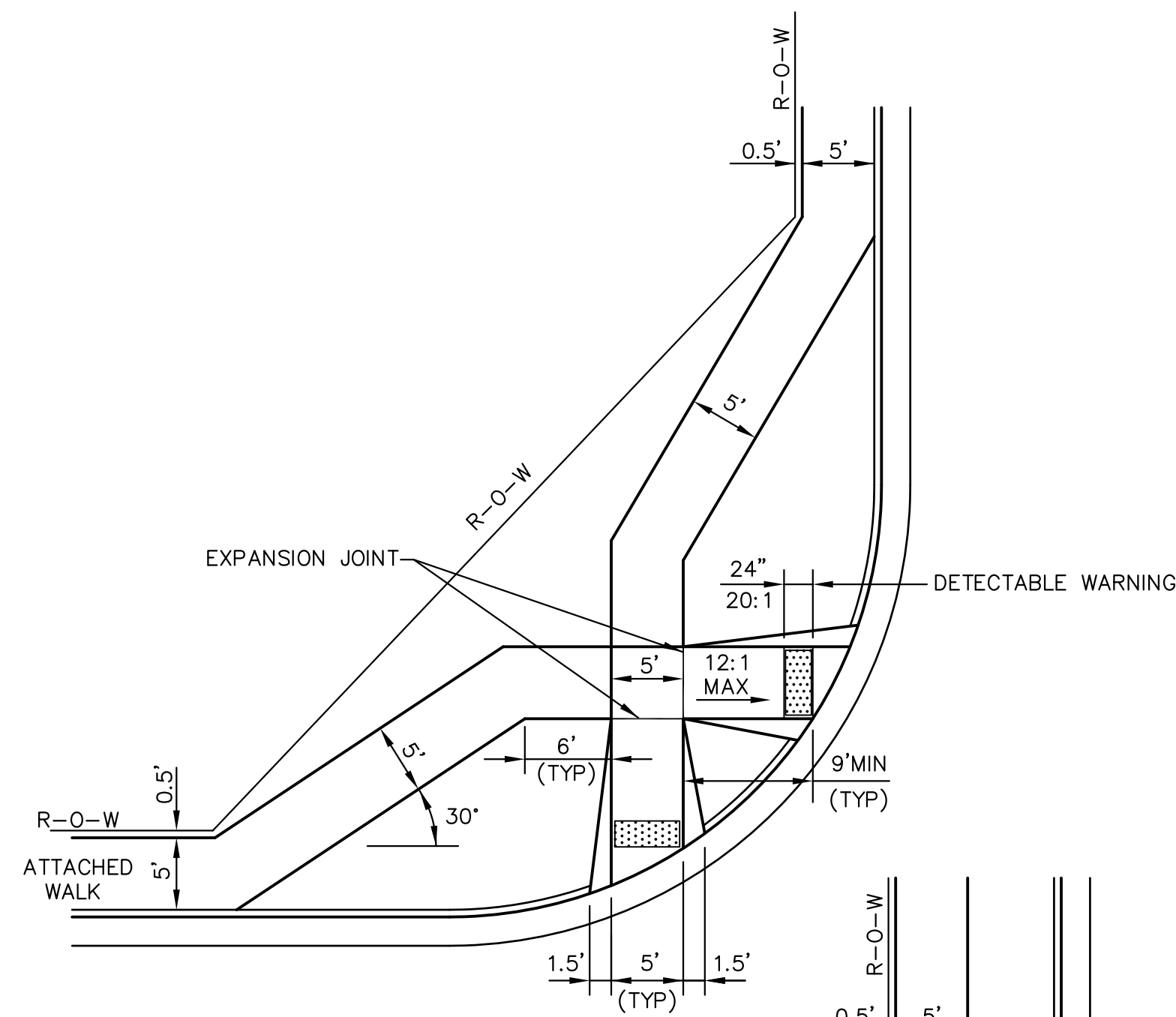


- PEDESTRIAN RAMP NOTES**
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT ENGINEERING CRITERIA MANUAL AND ADA REQUIREMENTS.
  - CONTRACTOR TO NOTIFY ENGINEERING DIVISION INSPECTION STAFF 48 HOURS PRIOR TO CONCRETE PLACEMENT.
  - PEDESTRIAN RAMP CONSTRUCTION SHALL BE A MINIMUM 4,500 PSI CONCRETE, MINIMUM 4" THICK, NON-COLORED, NON-SCORED, COARSE BROOM FINISH.
  - RAMP LOCATION AND LENGTH MAY REQUIRE MODIFICATION TO MAINTAIN THE 12:1 MAXIMUM RUNNING RAMP SLOPE AND 20:1 DETECTABLE WARNING AREA DUE TO STREET INTERSECTION GRADES AND/OR ALIGNMENTS.
  - DETECTABLE WARNING AREA SHALL START A MINIMUM OF 6" BUT NOT MORE THAN 8" FROM THE FLOWLINE OF THE CURB AT ANY POINT.
  - DETECTABLE WARNING AREA SHALL BE REFABRICATED REDDISH INTEGRALLY COLORED TRUNCATED-DOMES.
  - THE DETECTABLE WARNING AREA SHALL BE 24" IN LENGTH AND THE FULL WIDTH OF THE RAMP.
  - RAMP WIDTH REQUIRED IS SAME AS APPROACHING SIDEWALK; 4" MINIMUM.
  - ALL RAMP WILL BE PERPENDICULAR TO TRAFFIC WITH THE EXCEPTION OF MID-BLOCK OR TERMINAL RAMP WHICH MAY BE PARALLEL SUBJECT TO APPROVAL.
  - AVOID PLACING DRAINAGE STRUCTURES, TRAFFIC SIGNAL/SIGNAGE, UTILITIES/JUNCTION BOXES, OR OTHER OBSTRUCTIONS WITHIN PROPOSED RAMP AREAS.

LAYOUT CURB SECTIONS SO THAT AT LEAST ONE TOOL JOINT IS WITHIN RAMP THROAT

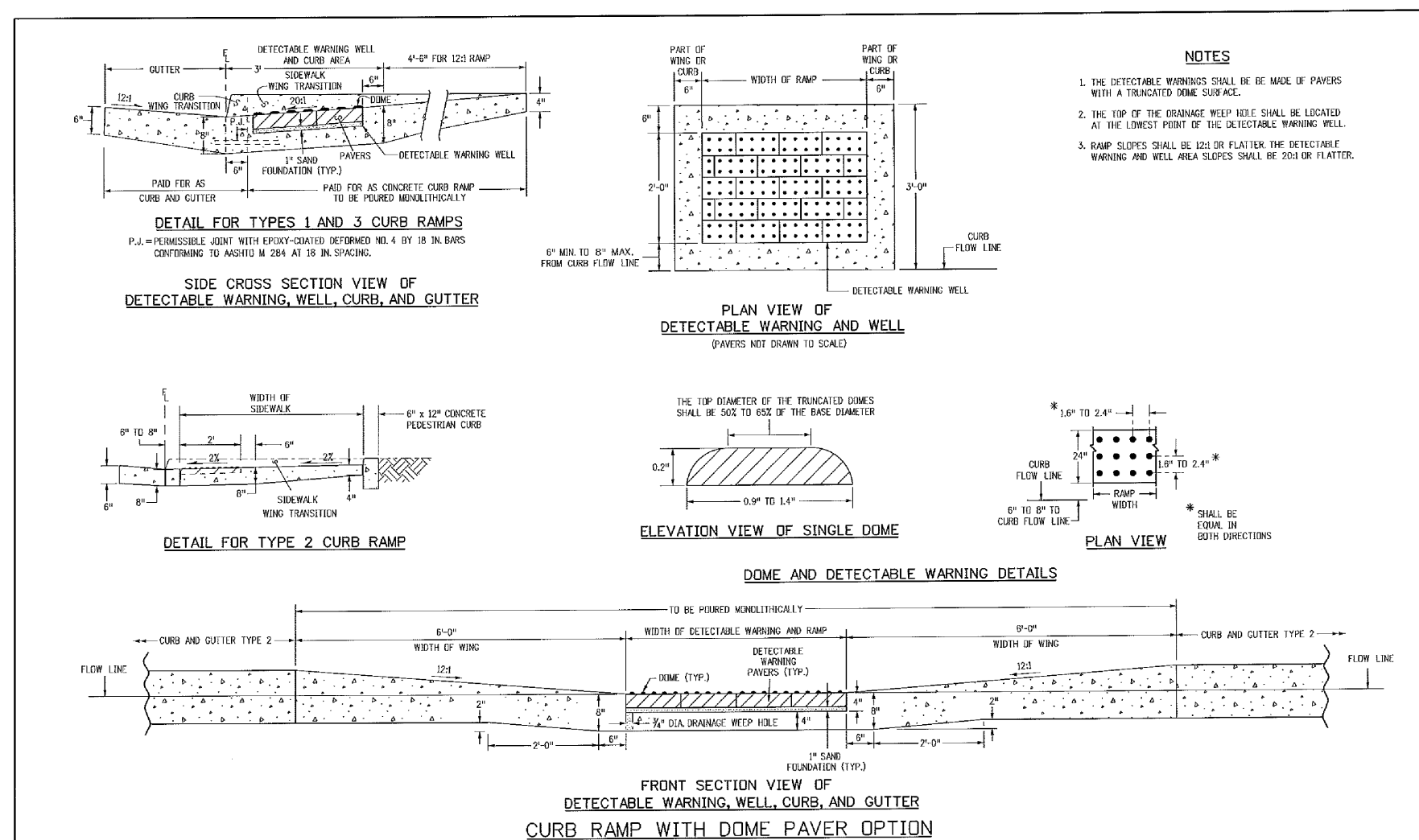
**GENERAL NOTES**

- WHERE THE 1'-6" FLARED SIDE(S) OF A PERPENDICULAR CURB RAMP IS (ARE) CONTIGUOUS WITH A PEDESTRIAN OR HARD SURFACE AREA, THE MAXIMUM FLARE SLOPE SHALL NOT EXCEED 10:1.
- PEDESTRIAN WALKWAY AND/OR LOCATION OF EXISTING OR FUTURE PEDESTRIAN RAMP ON OPPOSITE CORNERS SHALL BE REVIEWED BEFORE CONSTRUCTING NEW RAMP.
- AT MARKED PEDESTRIAN CROSSINGS, THE BOTTOM OF THE RAMP, EXCLUSIVE OF THE FLARE SIDES, SHALL BE TOTALLY CONTAINED WITHIN THE MARKINGS.

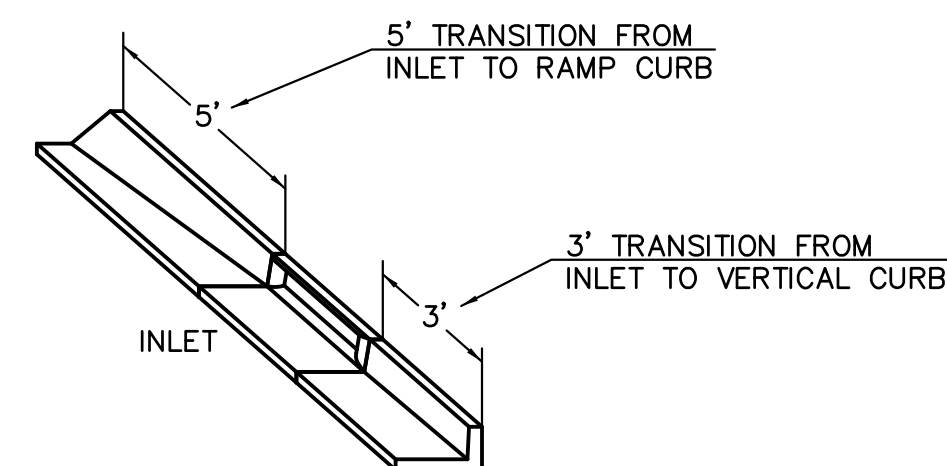


Verify compliance with new ECM Chapter 6.

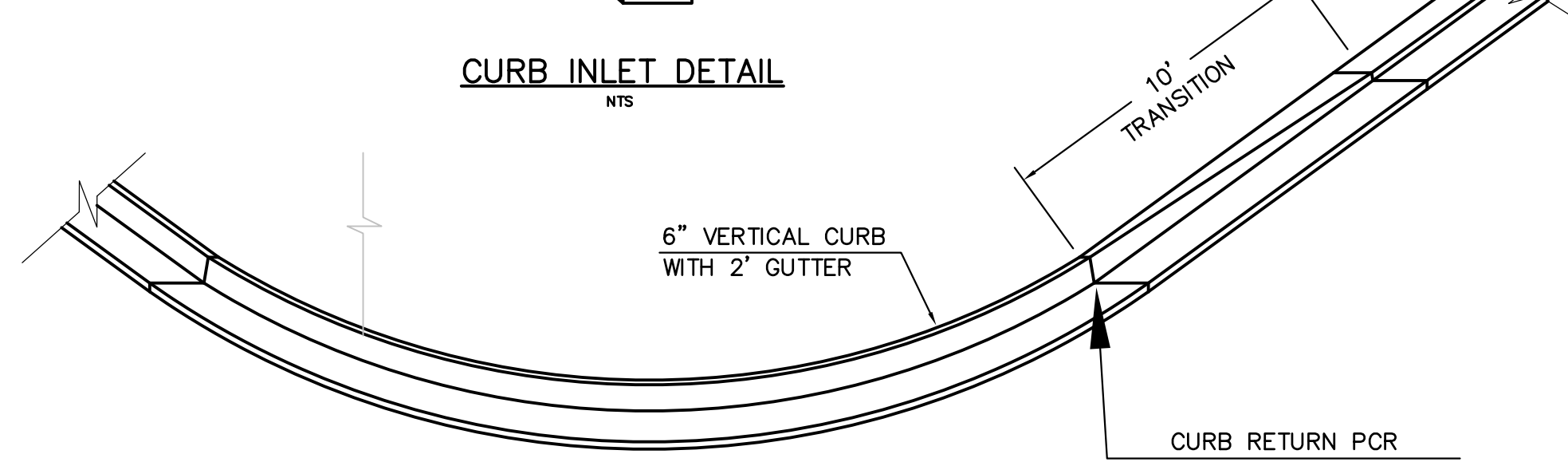
**PEDESTRIAN RAMPS AT INTERSECTIONS (ECM SD 2-40)**  
NO SCALE



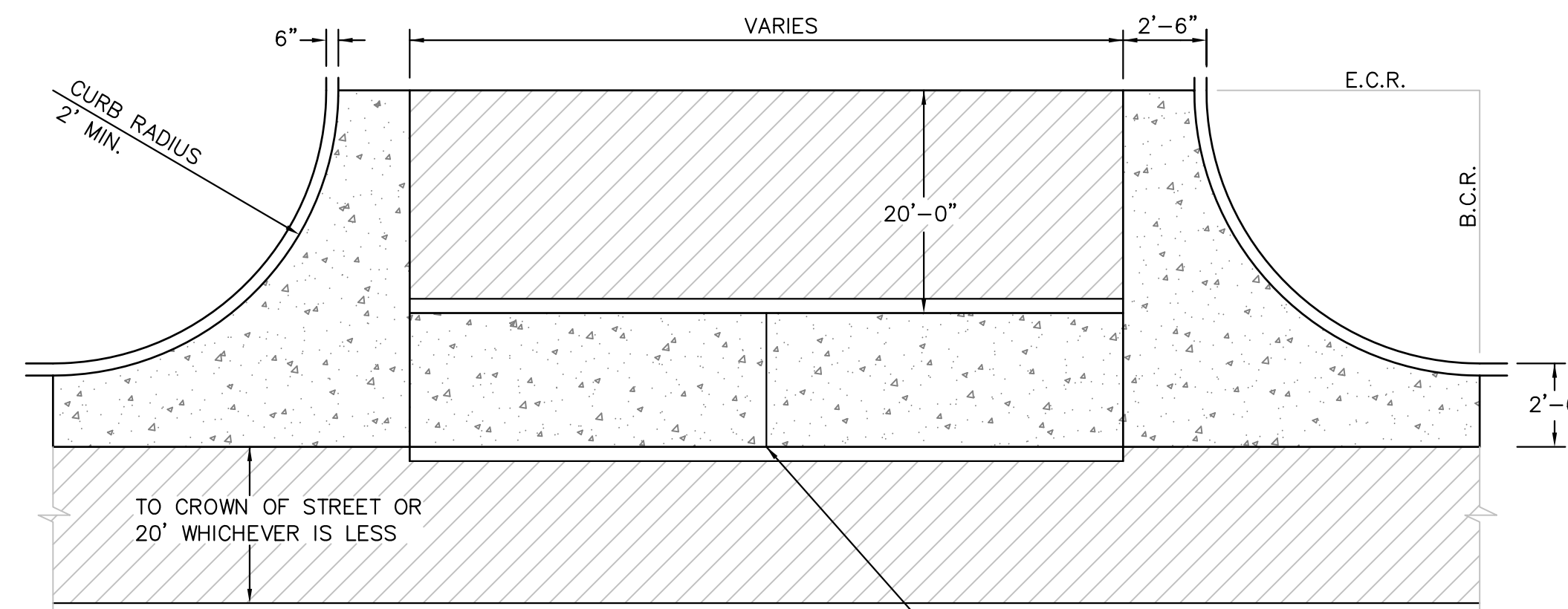
**TRUNCATED DOME DETAILS (ECM SD 2-42)**  
NO SCALE



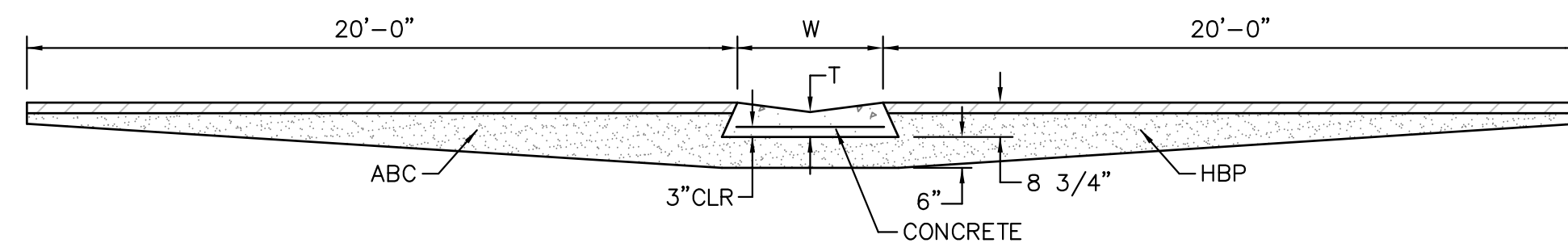
**CURB INLET DETAIL**  
NTS



**CURB TRANSITION DETAIL**  
NTS



**PLAN VIEW**



**TYPICAL CROSSSPAN LAYOUT (ECM SD 2-26)**  
NO SCALE

**NOTES**

- W = WIDTH SHALL BE 6' FOR LOCAL, 8' FOR COLLECTORS, 10' FOR ARTERIAL ROADS.
- T = SQUARED-OFF RETURN TO BE POURED MONOLITHIC 8" PCC, OR 9" FOR COLLECTORS MINIMUM WITH 6x6 - 4,4 WWF OR #4 @ 18"E.W.
- 3" MINIMUM ASPHALT DEPTH (2 LIFTS).
- DESIGN TO SPECIFY ELEVATIONS AT PI AND PCR.

DATE APPROVED: 7/9/09 André P. Brackin DEPARTMENT OF TRANSPORTATION	REVISION DATE: 1/18/11 FILE NAME: SD_2-41	<p><b>Pedestrian Intersection Ramp</b> Standard Drawing</p>
--	--	---

Computer File Information	Sheet Revisions	Colorado Department of Transportation	STANDARD PLAN NO.
C:\projects\2009\20090702\20090702.dwg User: [Name] Date: 7/9/09 Project: [Name]	0101 Initial 0102 [Name] 0103 [Name]	Project Development Branch DD/LTA Issued By: Project Development Branch on July 4, 2009	M-608-1 Sheet No. 6 of 6

**CORE ENGINEERING GROUP**  
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BURNSVILLE, MN 55306  
PH: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: rich@cegi.com

DATE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

NO. \_\_\_\_\_

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

**ROADWAY DETAIL SHEET**

DATE: JUNE 1, 2020

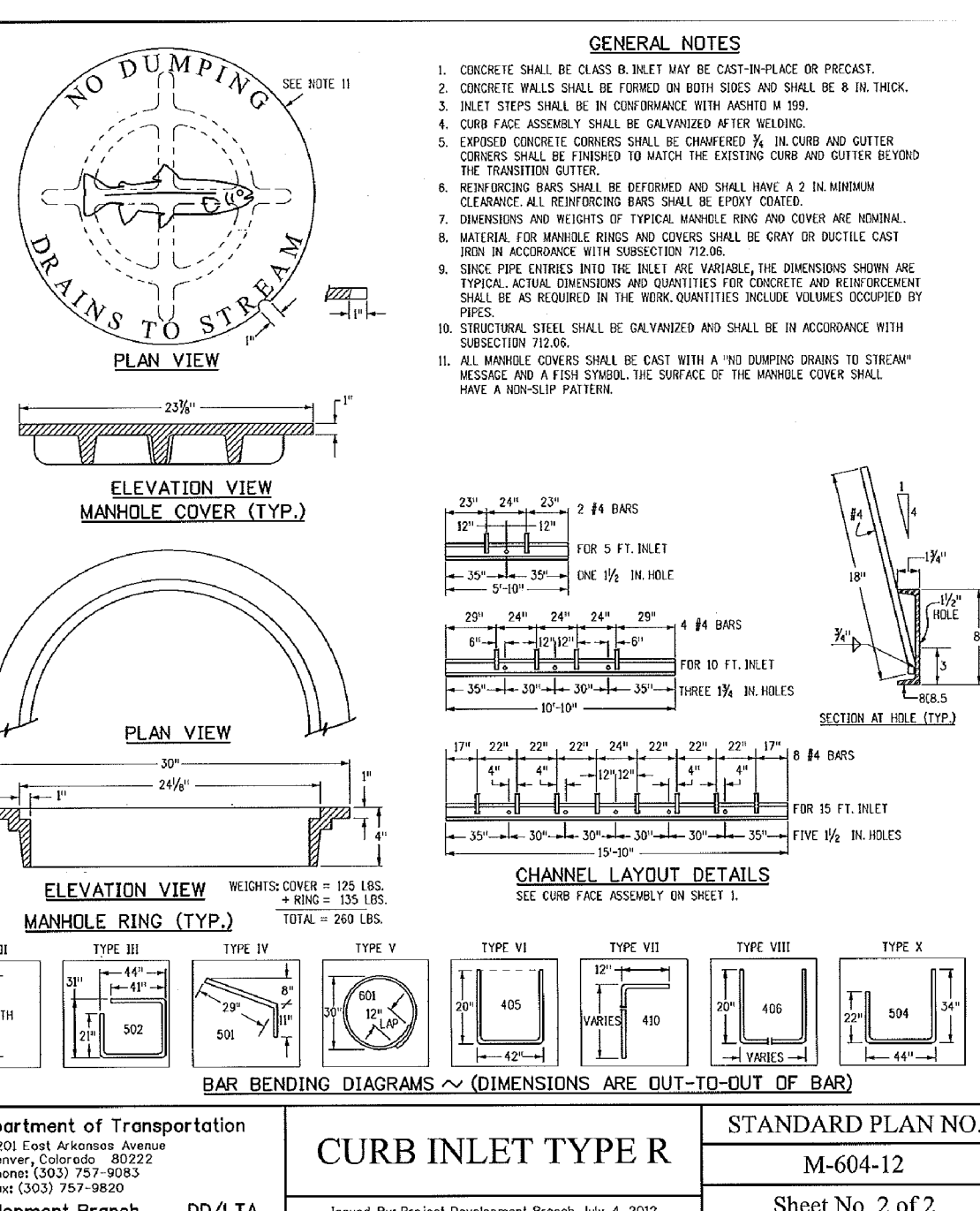
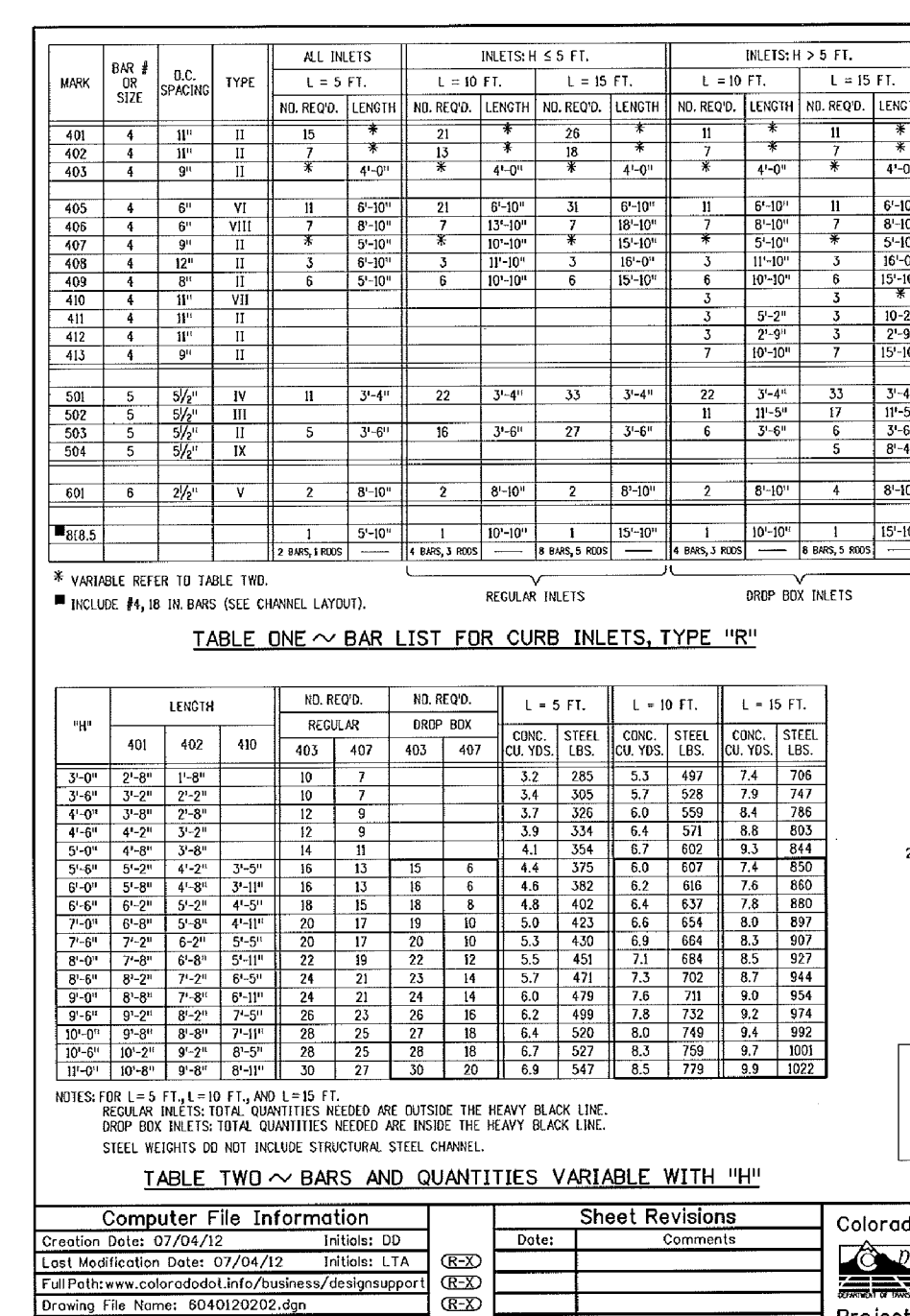
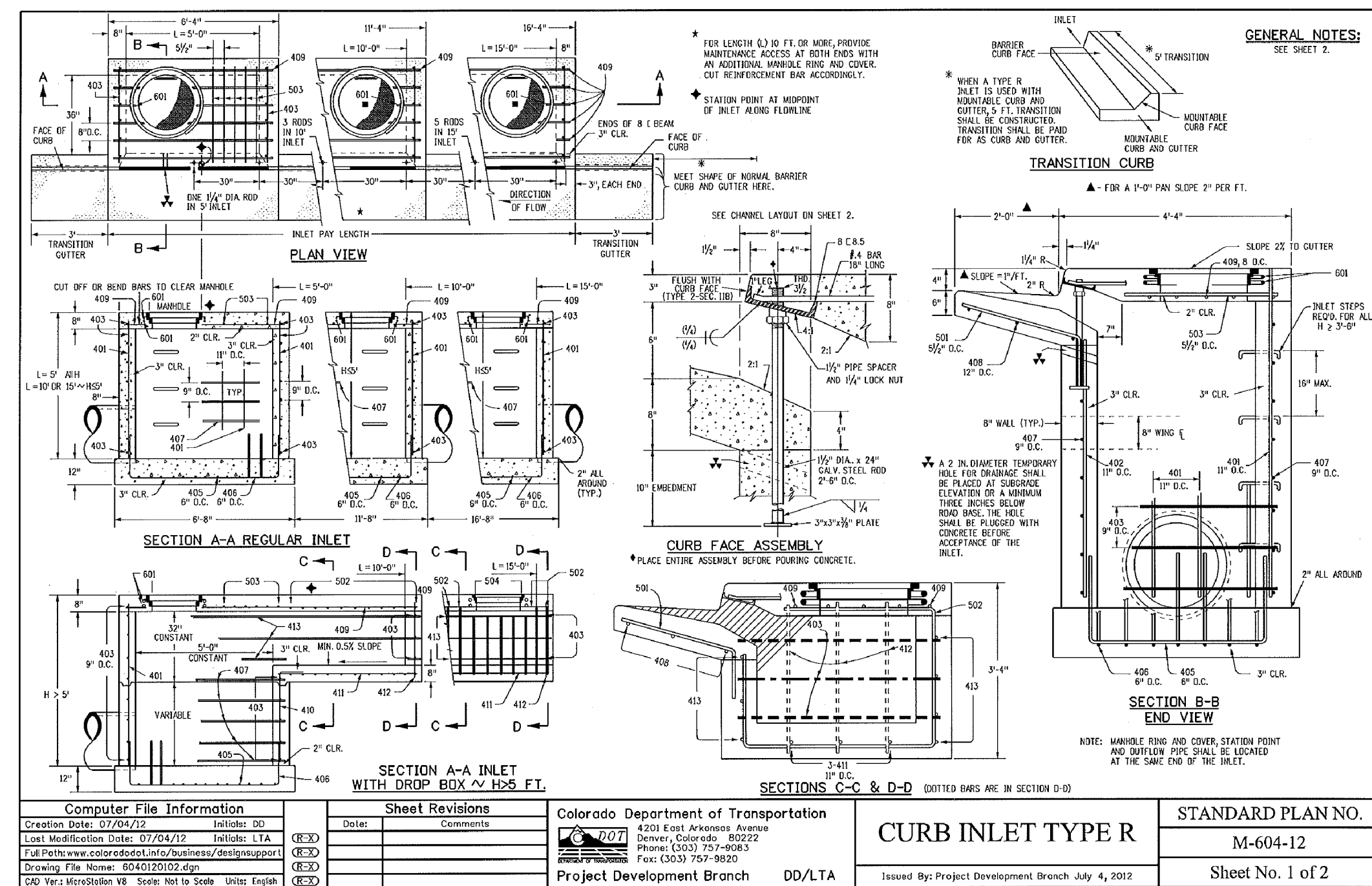
PROJECT NO. 100.061

SHEET NUMBER C10.1

TOTAL SHEETS: 58

PREPARED FOR: **LORSON, LLC**  
212 N. WAHSATCH AVE. SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
CONTACT: JEFF MARK

PROJECT: **THE HILLS COLLECTOR STREET CONSTRUCTION**  
FONTAINE BLVD - GRAYLING DR  
LORSON BLVD - WALLEYE DR - LAMPREY DR  
COLORADO SPRINGS, COLORADO



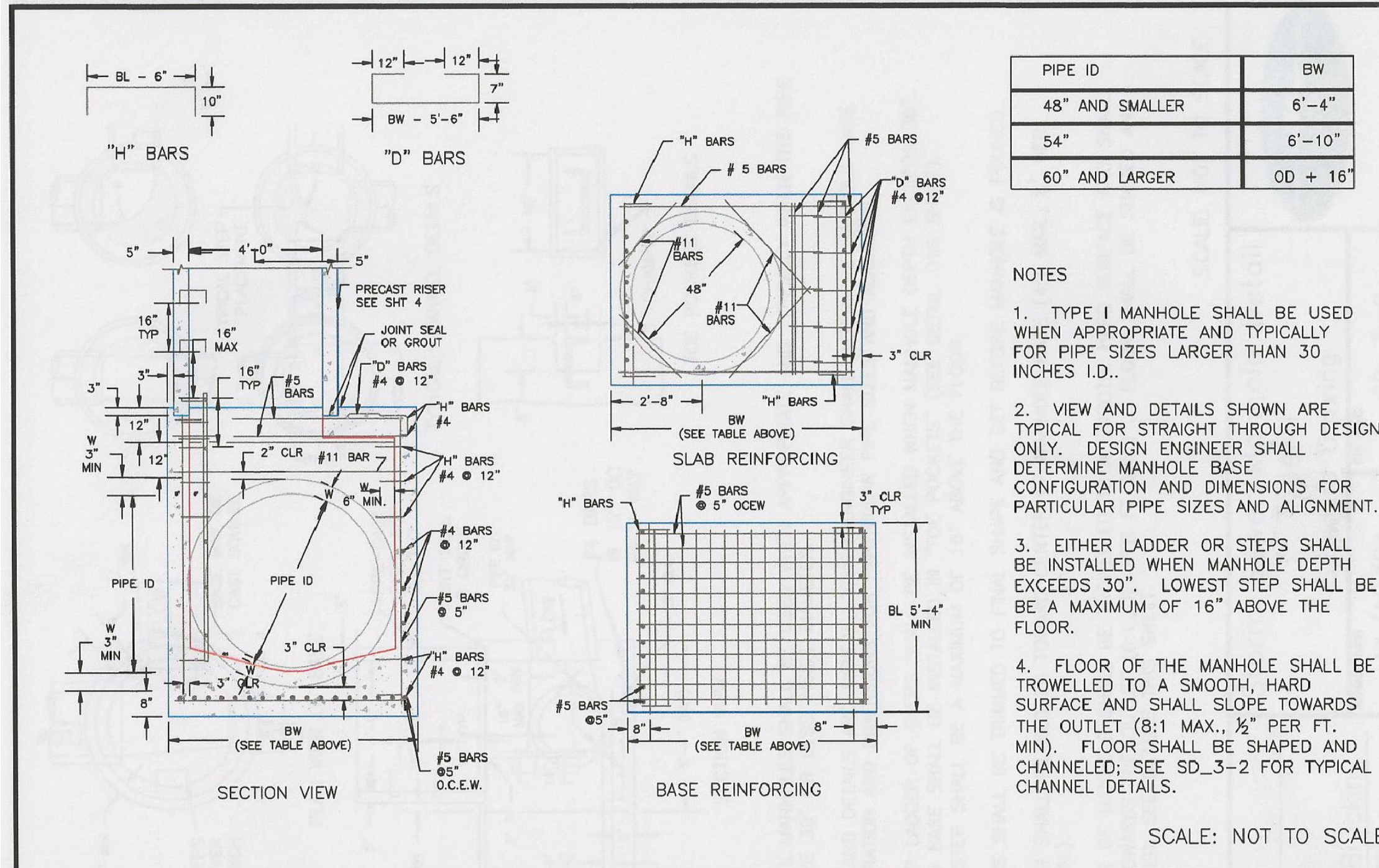
**CORE ENGINEERING GROUP**  
15004 15th Ave., Suite 3506  
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CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@cegi.com

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COLORADO SPRINGS, COLORADO 80903  
(719) 635-3200  
CONTACT: JEFF MARK

**NO.** \_\_\_\_\_  
**DATE** \_\_\_\_\_  
**DESCRIPTION** \_\_\_\_\_

**DRAWN:** RLS  
**DESIGNED:** RLS  
**CHECKED:** RLS

**DATE:** JUNE 1, 2020  
**PROJECT NO.** 100.061  
**SHEET NUMBER** C10.2  
**TOTAL SHEETS:** 58



DATE APPROVED: 7/9/09

APPROVED: André Brackin

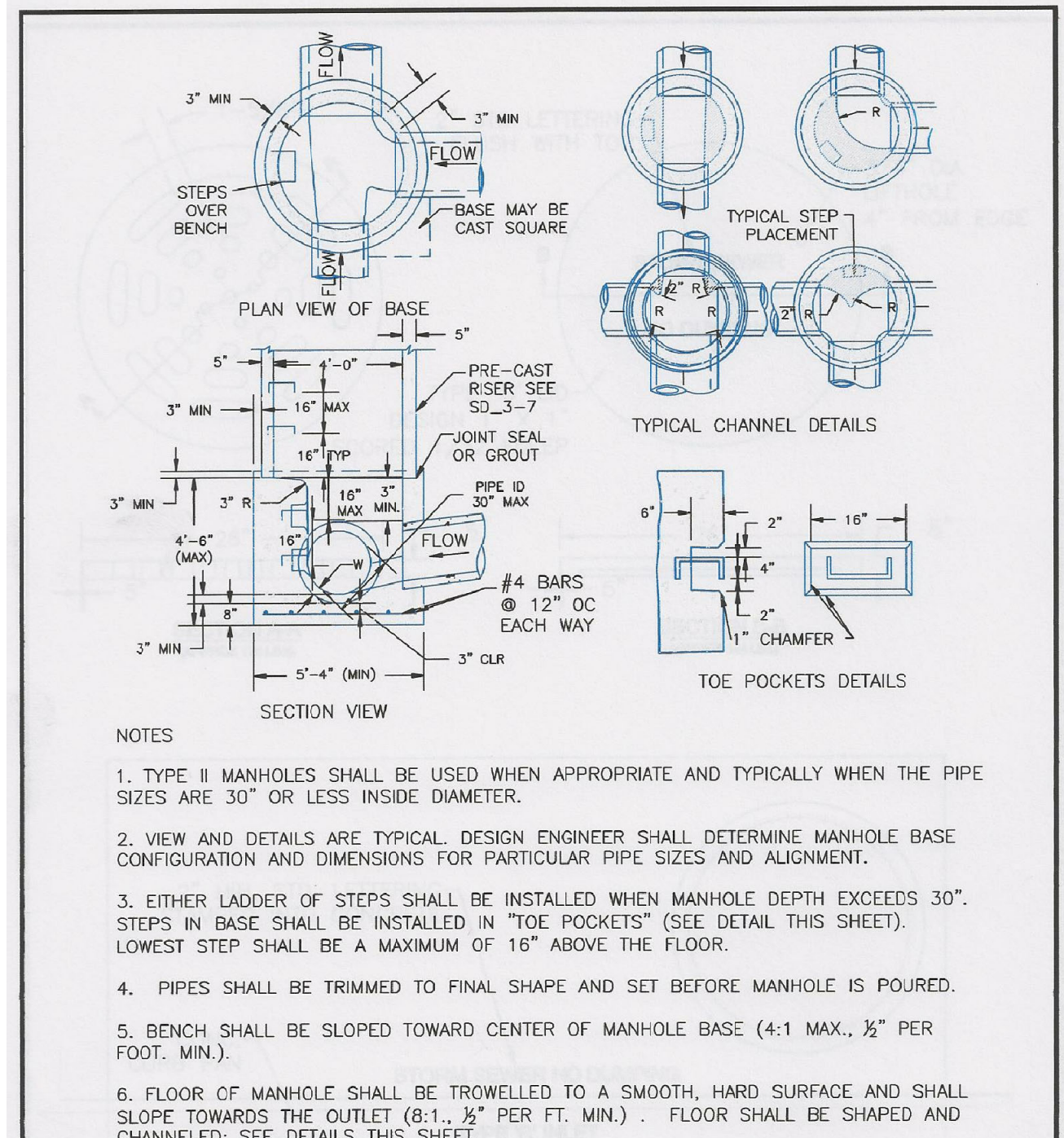
DEPARTMENT OF TRANSPORTATION

REVISION DATE: 7/9/09

FILE NAME: SD\_3-1

Storm Sewer Manhole Detail  
Type I  
Standard Drawing

EL PASO COUNTY DEPARTMENT OF TRANSPORTATION



DATE APPROVED: 11/10/04

APPROVED: André P. Brackin

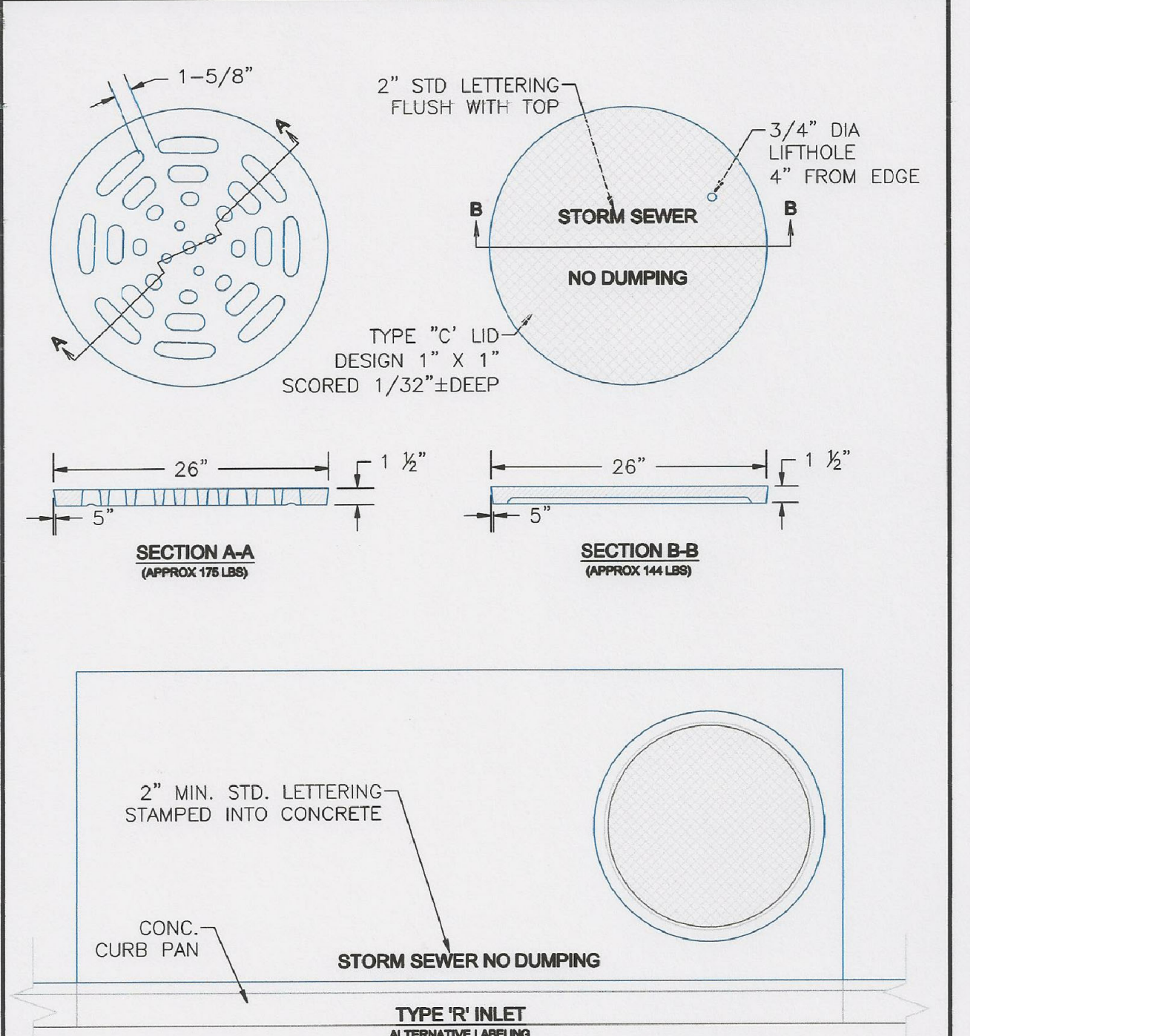
DEPARTMENT OF TRANSPORTATION

REVISION DATE: 11/10/04

FILE NAME: SD\_3-2

Storm Sewer Manhole Detail  
Type II  
Standard Drawing

EL PASO COUNTY DEPARTMENT OF TRANSPORTATION



DATE APPROVED: 9/16/10

APPROVED: André P. Brackin

DEPARTMENT OF TRANSPORTATION

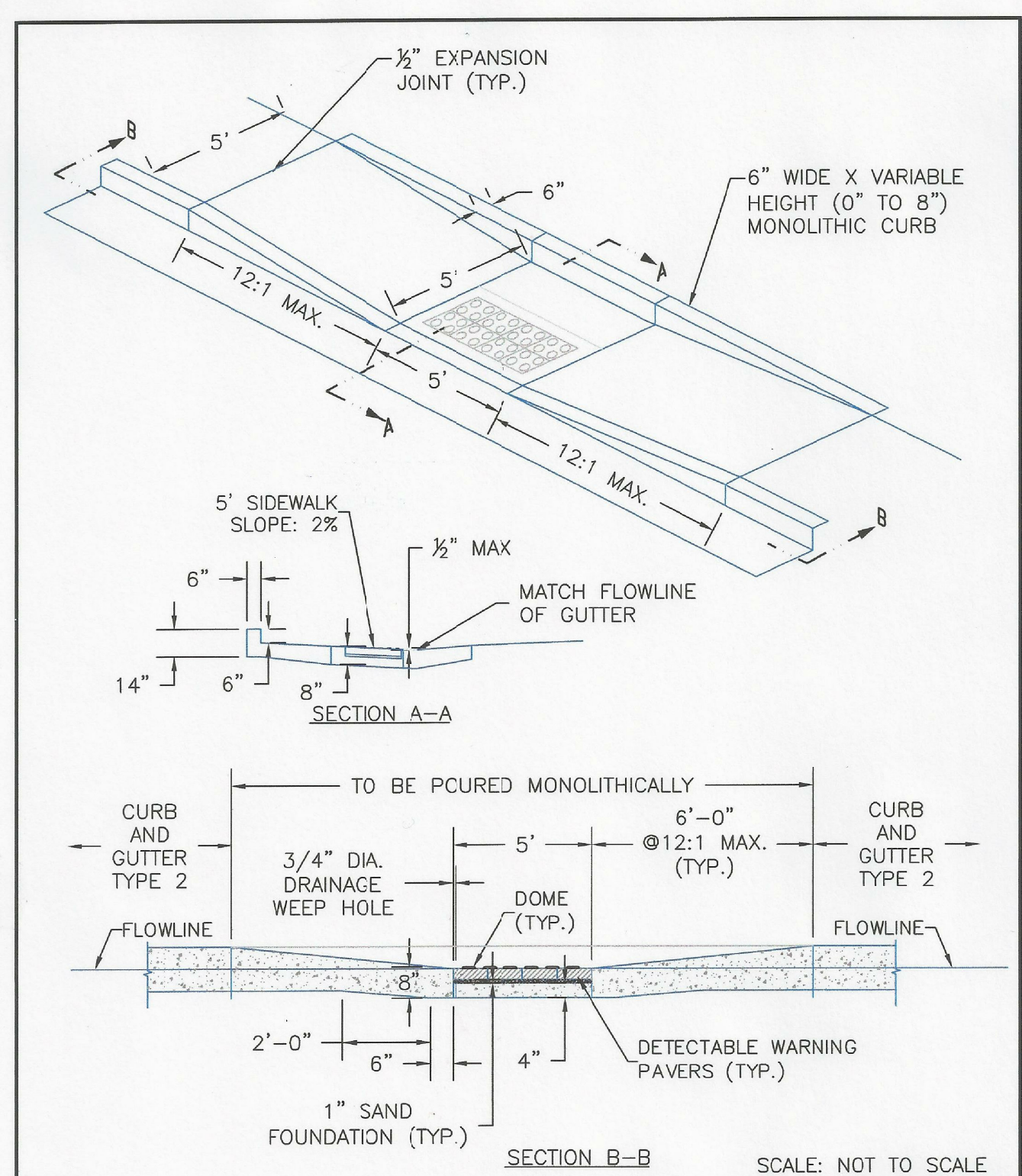
REVISION DATE: 9/16/10

FILE NAME: SD\_3-5

Storm Sewer Manhole Details  
Standard Drawing

EL PASO COUNTY DEPARTMENT OF TRANSPORTATION

**STORM SEWER DETAILS**



DATE APPROVED: 8/11/11	Parallel Pedestrian Ramp Detail Standard Drawing		
APPROVED: André P. Brackin	REVISION DATE: 12/8/15	FILE NAME: SD_2-50	

**CORE**  
**ENGINEERING GROUP**  
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 CONTACT: RICHARD L. SCHINDLER, P.E.  
 EMAIL: rich@cegi.com

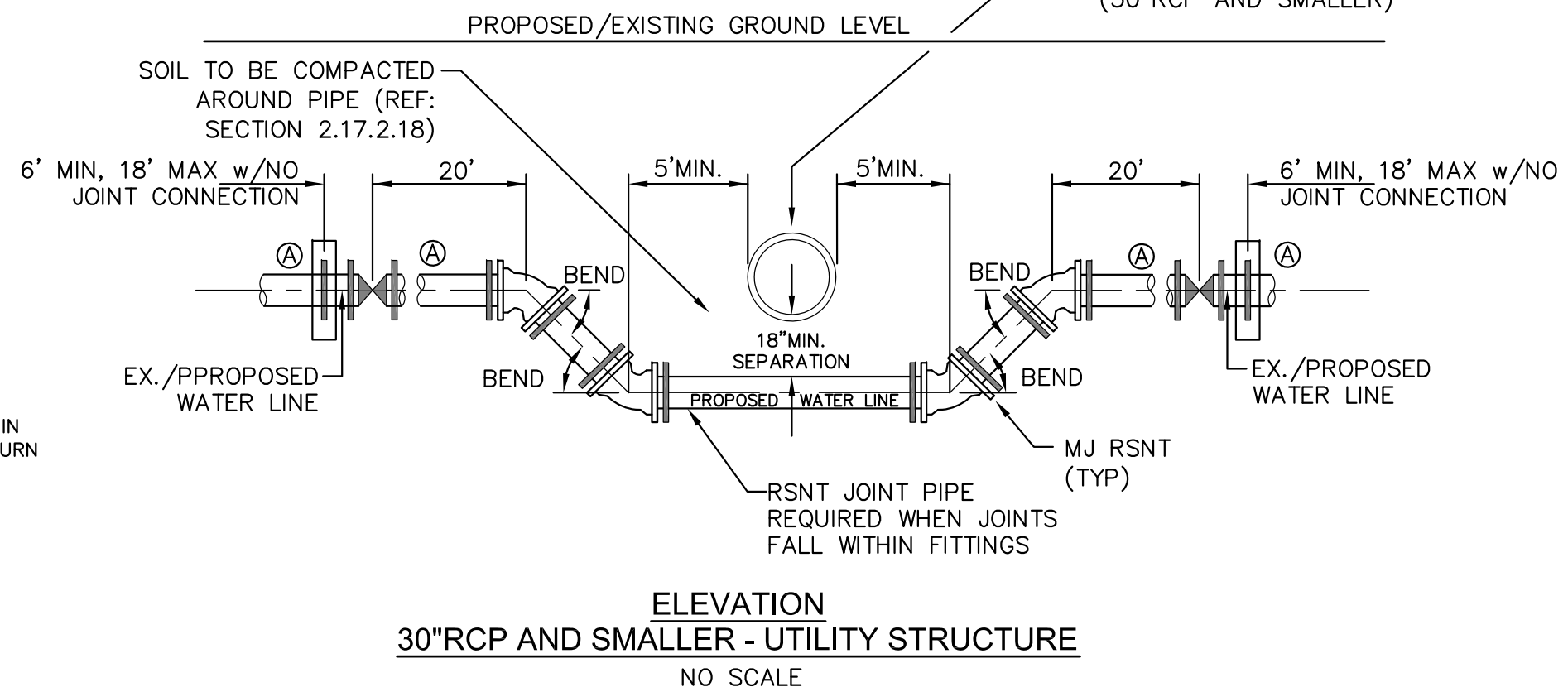
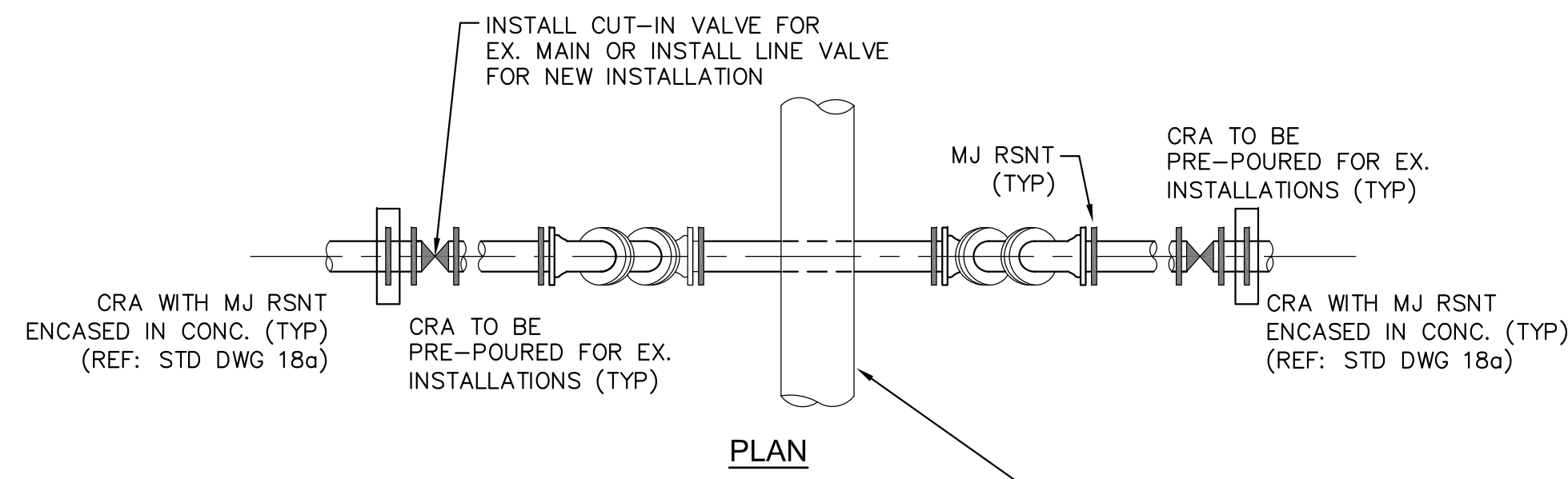
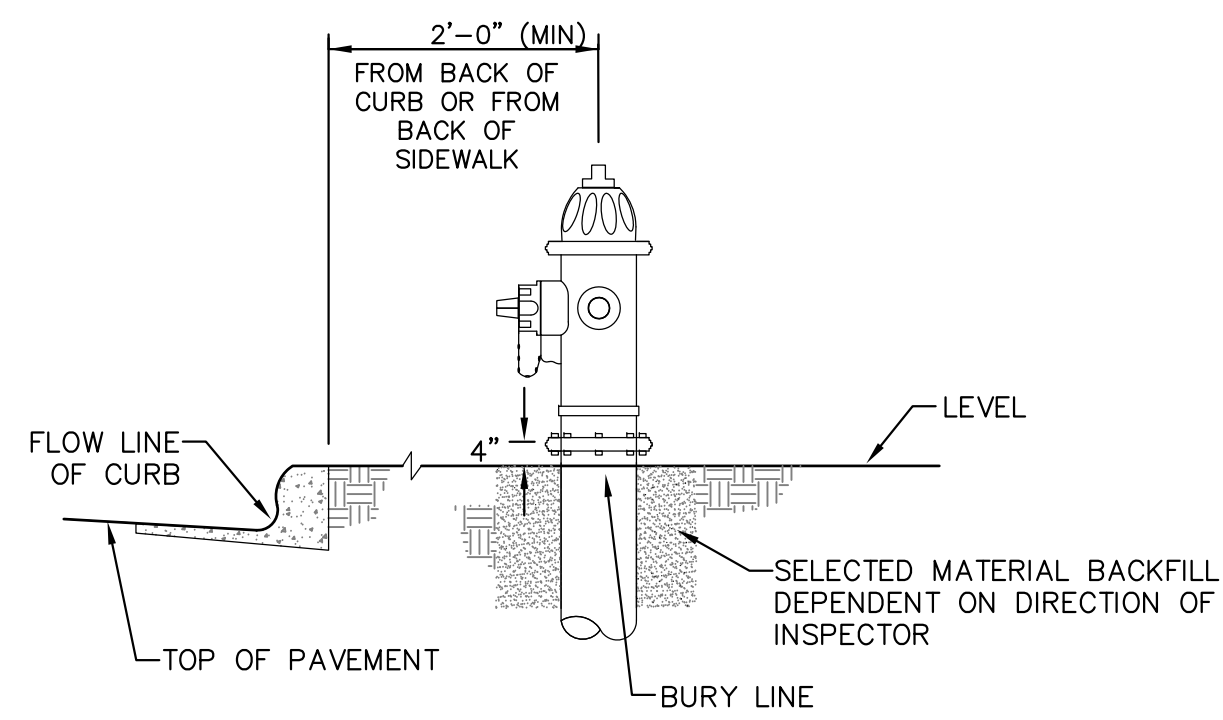
DATE: \_\_\_\_\_  
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 NO. \_\_\_\_\_  
 PREPARED FOR:  
**LORSON, LLC**  
 212 N. WAHSATCH AVE, SUITE 301  
 COLORADO SPRINGS, COLORADO 80903  
 (719) 635-5200  
 CONTACT: JEFF MARK  
 PROJECT:  
**THE HILLS COLLECTOR**  
**STREET CONSTRUCTION**  
 FONTAINE BLVD - GRAYLING DR  
 LORSON BLVD - WALLEYE DR - LAMPREY DR  
 COLORADO SPRINGS, COLORADO

DRAWN: RLS  
 DESIGNED: RLS  
 CHECKED: RLS

**CREEKSIDE SOUTH AT**  
**LORSON RANCH FIL. NO. 1**  
**ROADWAY DETAIL SHEET**

DATE:  
JUNE 1, 2020  
 PROJECT NO.  
100.061  
 SHEET NUMBER  
C10.3  
 TOTAL SHEETS: 58

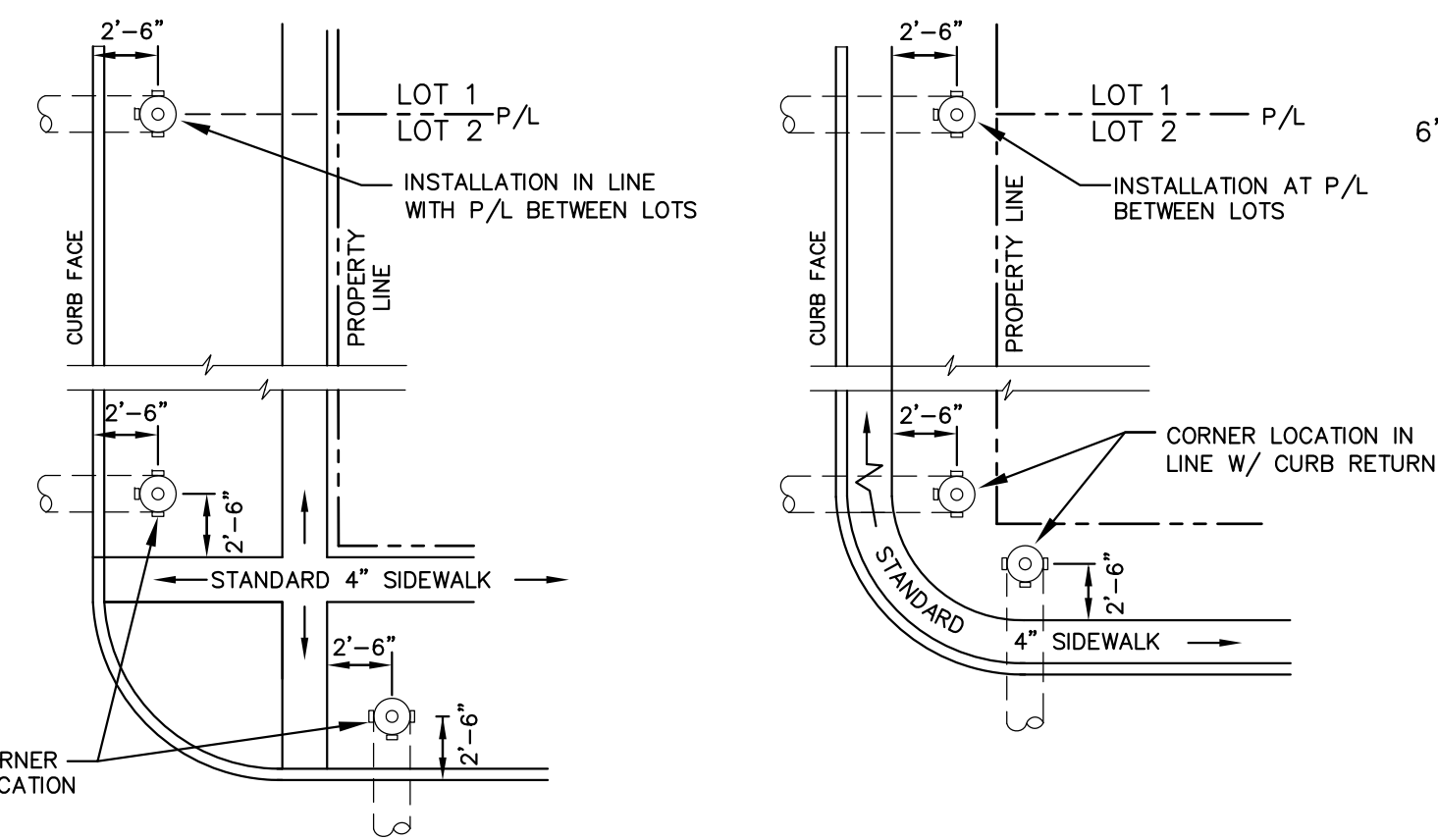




**GENERAL NOTES**

- D.I.P. PIPE REQUIRED IN LOWERINGS (AT THE DISCRETION OF THE WRD/INSPECTOR PVC PIPE MAYBE APPROVED).
- Ⓐ LOWERINGS TO BE CATHODIC PROTECTED UNDER THE DIRECTION OF THE WRD INSPECTOR. (17 lb).
- ALL FITTINGS SHALL HAVE MJ RSNTS. SEE DRAWINGS NO. 27, 28 & SECTION 5.14 OF THE WRD SPECIFICATIONS.
- EXAMPLE CAN VARY DUE TO SITE CONDITIONS AND INSPECTOR'S DIRECTION'S.

**LOWERING DETAIL WITH MJ RSNT FITTINGS AND RSNT JOINT PIPE (w/APPROVAL OF W.R.D.)**  
(PER CSU STANDARD # 20a)  
NO SCALE



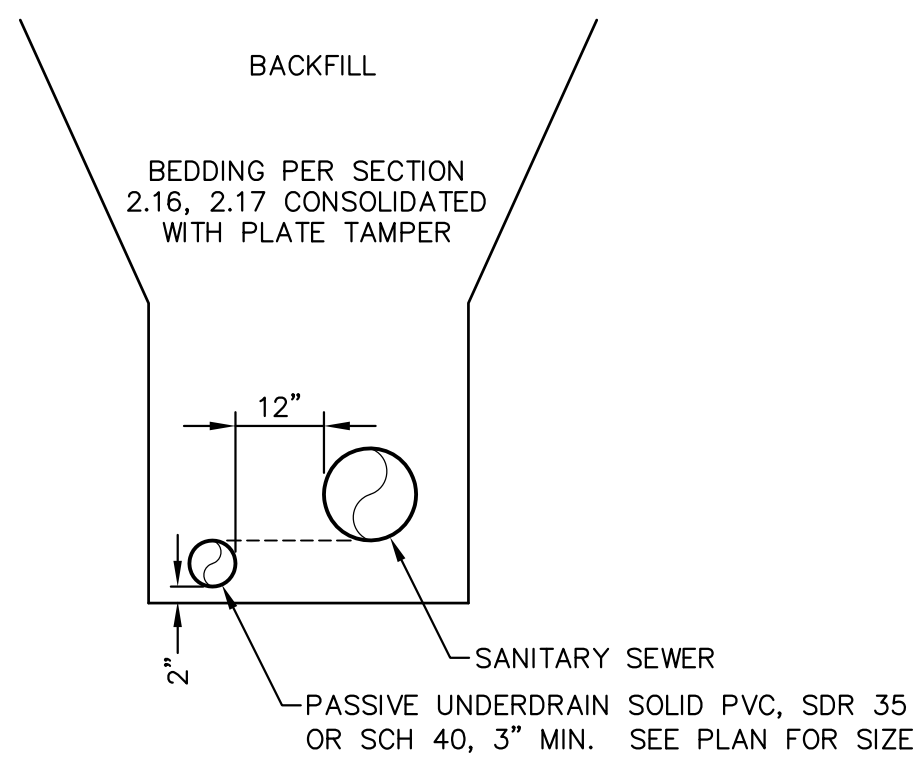
**DETACHED SIDEWALK LOCATION**  
NO SCALE

**ATTACHED SIDEWALK LOCATION**  
NO SCALE

**NOTE**  
ALL HYDRANTS SHALL BE GUARDIAN K-81D OR AVK SERIES 2700.

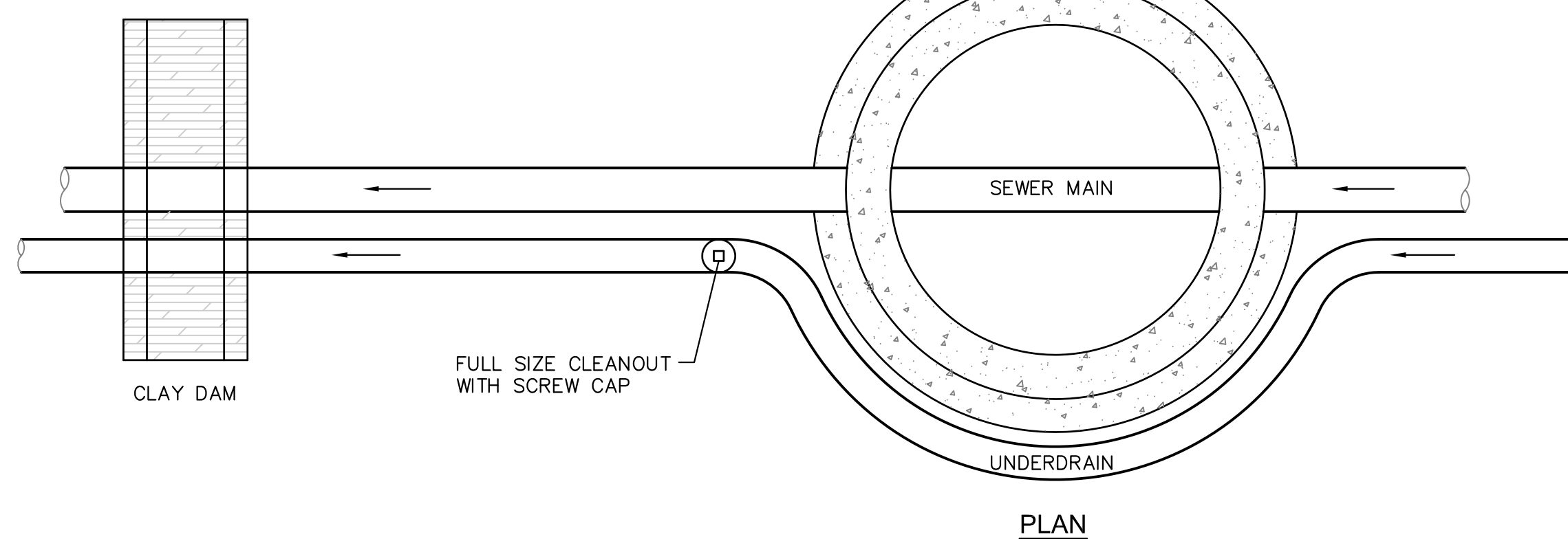
- NOTES**
- HYDRANT NOZZLE SHALL BE POSITIONED AT RIGHT ANGLES TO CURB. IF NO CURB OR SIDEWALK EXIST, NOZZLE SHALL BE PLACED AT RIGHT ANGLE TO STREET OR ALLEY.
  - HYDRANTS WILL BE PLACED A MINIMUM OF 5.0 FEET FROM ANY UTILITY OR DRAINAGE STRUCTURE (TO BE CO-ORDINATED WITH JOINT TRENCH INSTALLATION)
  - ANY HYDRANT BEING INSTALLED WITH CONDITIONS OTHER THAN THOSE MENTIONED AND/OR DETAILED BELOW WILL REQUIRE SIGNED APPROVAL FROM SECURITY FIRE PROTECTION DISTRICT.

**FIRE HYDRANT LOCATIONS**  
NO SCALE

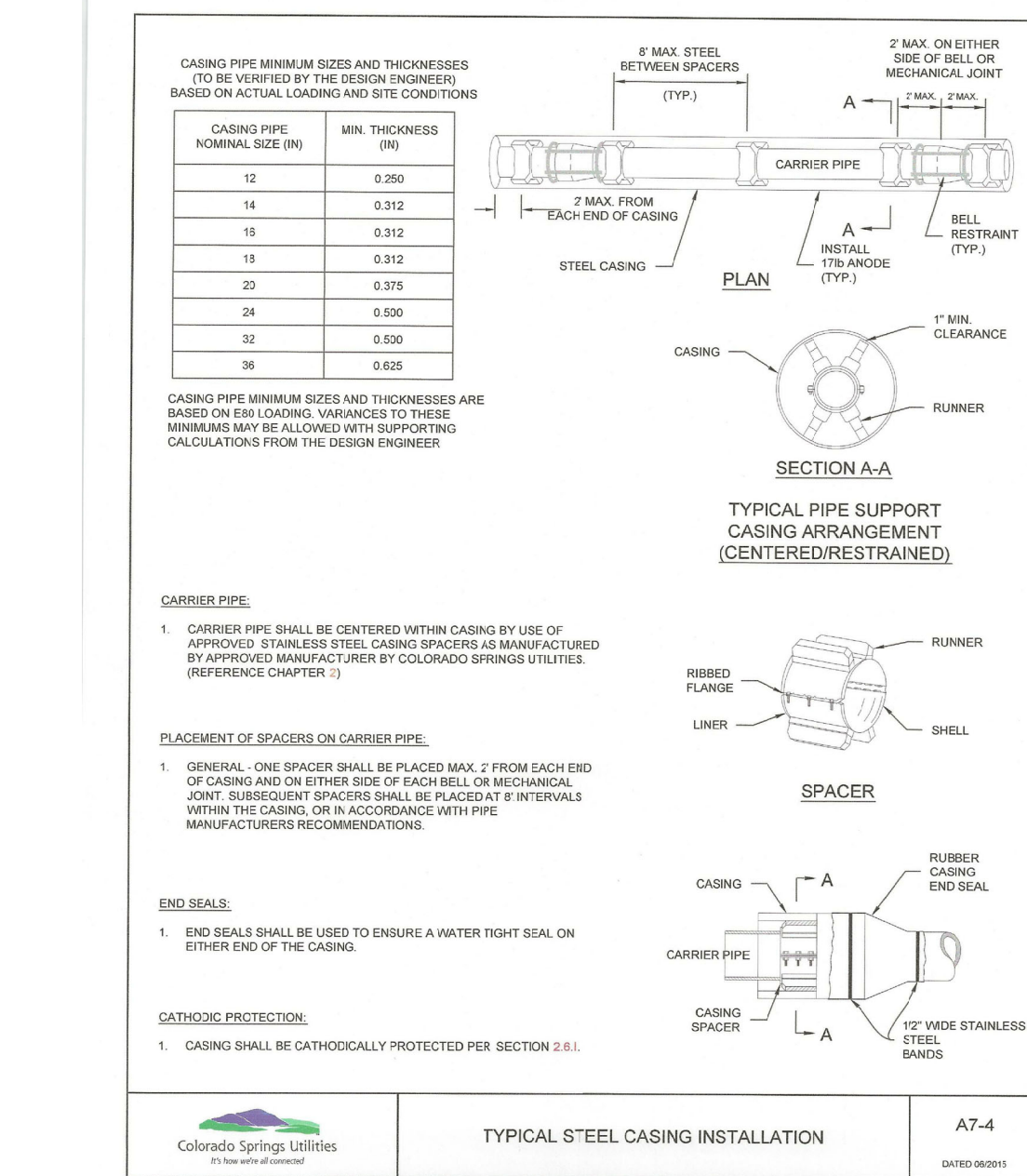


**SANITARY SEWER PASSIVE UNDERDRAIN DETAIL**  
(PER CSU STANDARD # WW-11A)  
NO SCALE

**NOTE:**  
POINT OF DISCHARGE TO PUBLIC SYSTEM IS REQUIRED. UNDERDRAIN CONNECTIONS SHALL BE 3\"/>

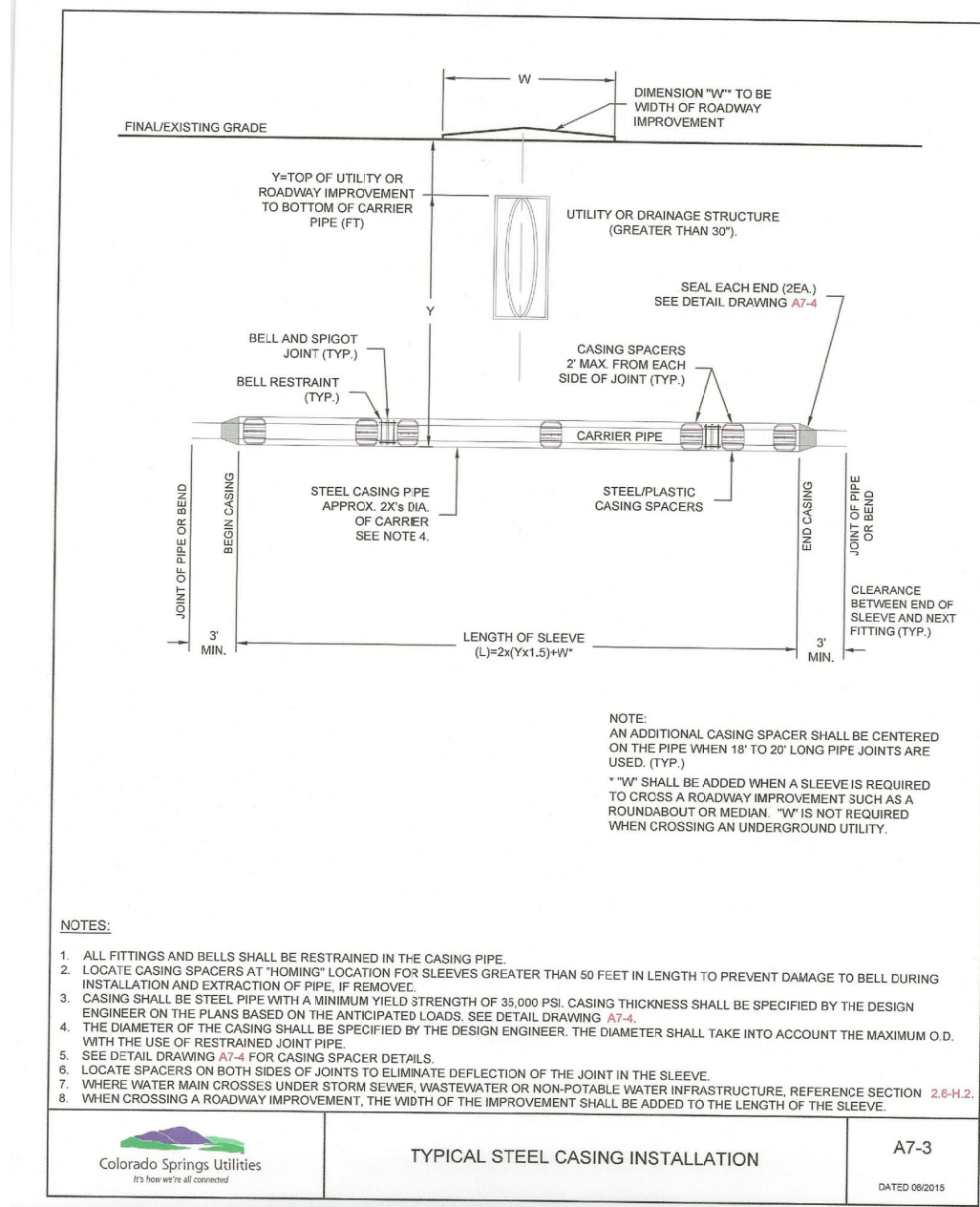


**PLAN**



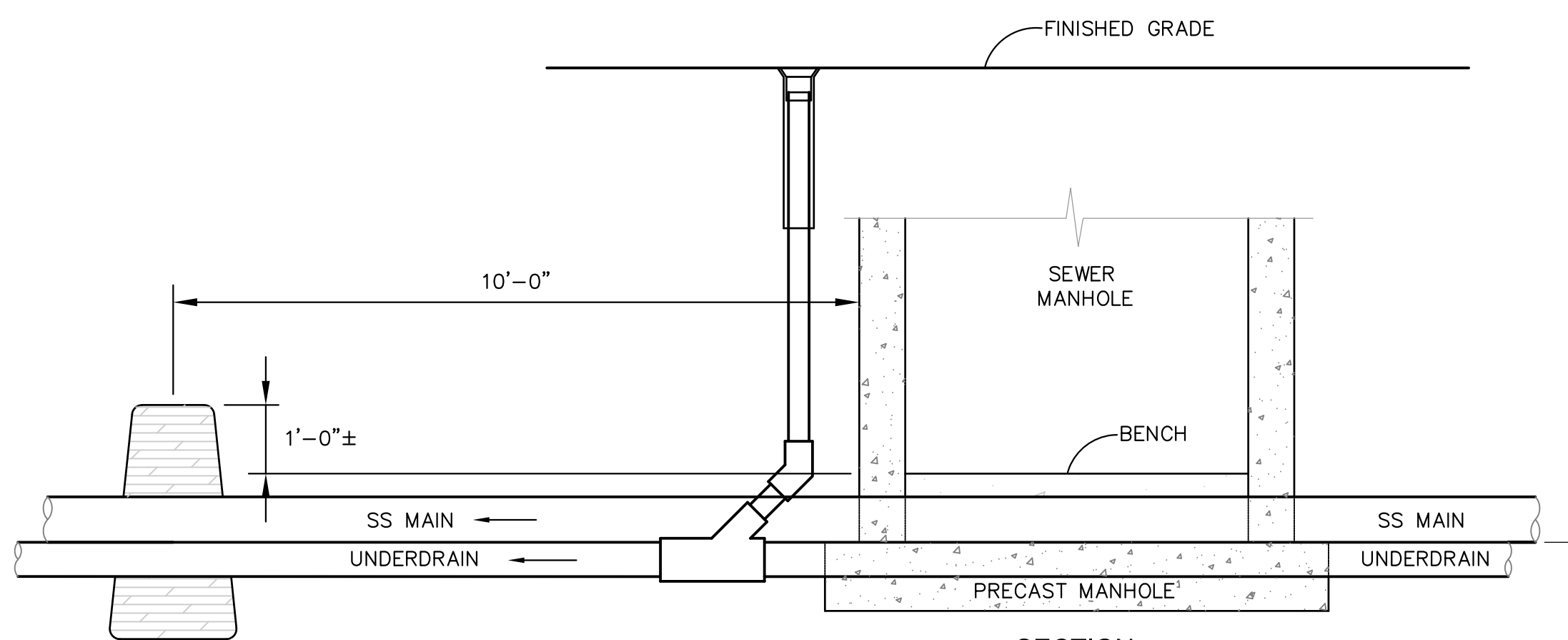
**TYPICAL STEEL CASING INSTALLATION**

A7-4  
DATE: 08/10/2011



**TYPICAL STEEL CASING INSTALLATION**

A7-3  
DATE: 08/10/2011



**GROUNDWATER UNDERDRAIN CLEANOUT (PASSIVE) LOCATIONS OUTSIDE MANHOLE**

(PER CSU STANDARD # WW-12)  
NO SCALE

**SECTION**  
TOP OF UNDERDRAIN EQUALS BOTTOM OF SEWER MAIN UNLESS NOTED OTHERWISE

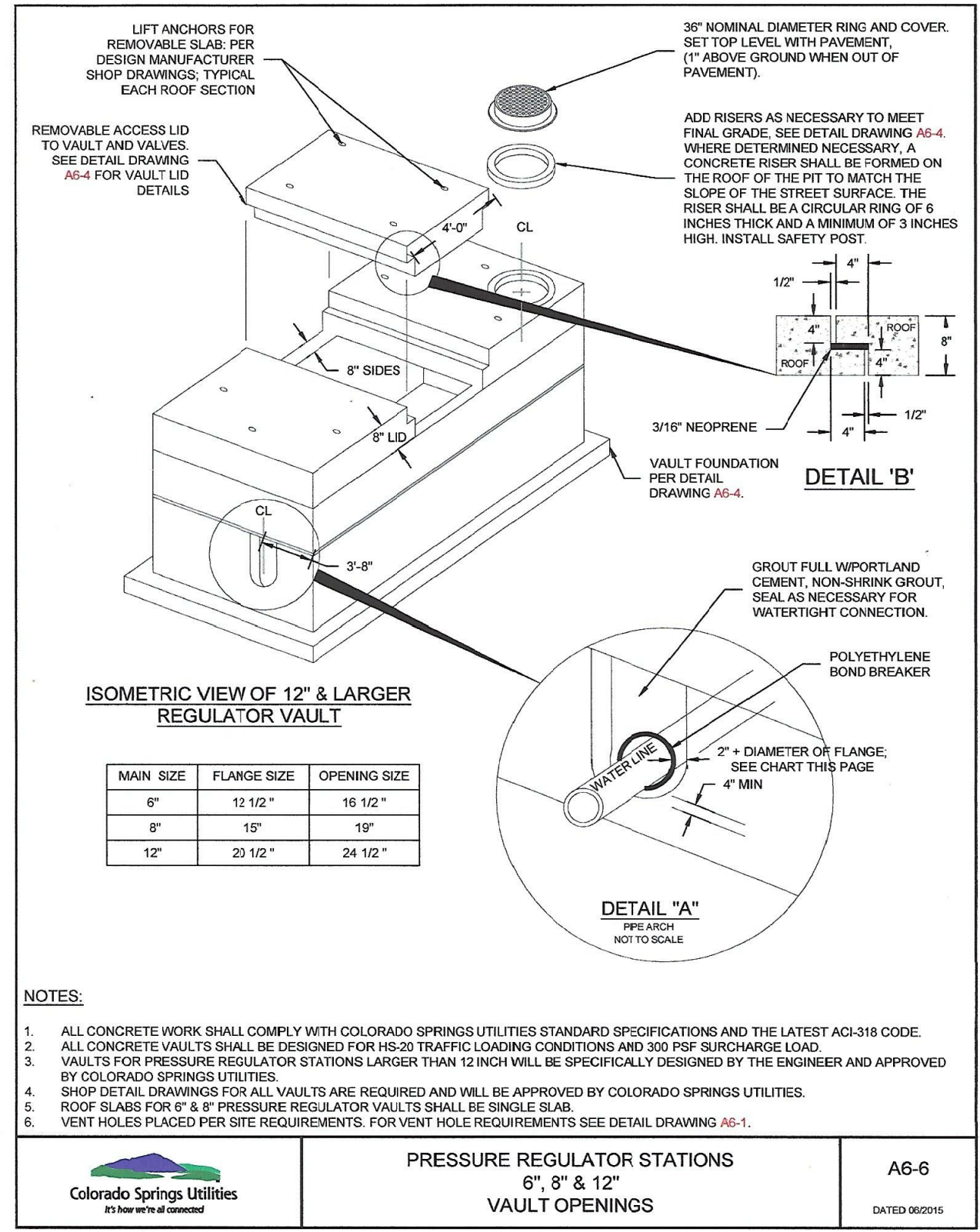
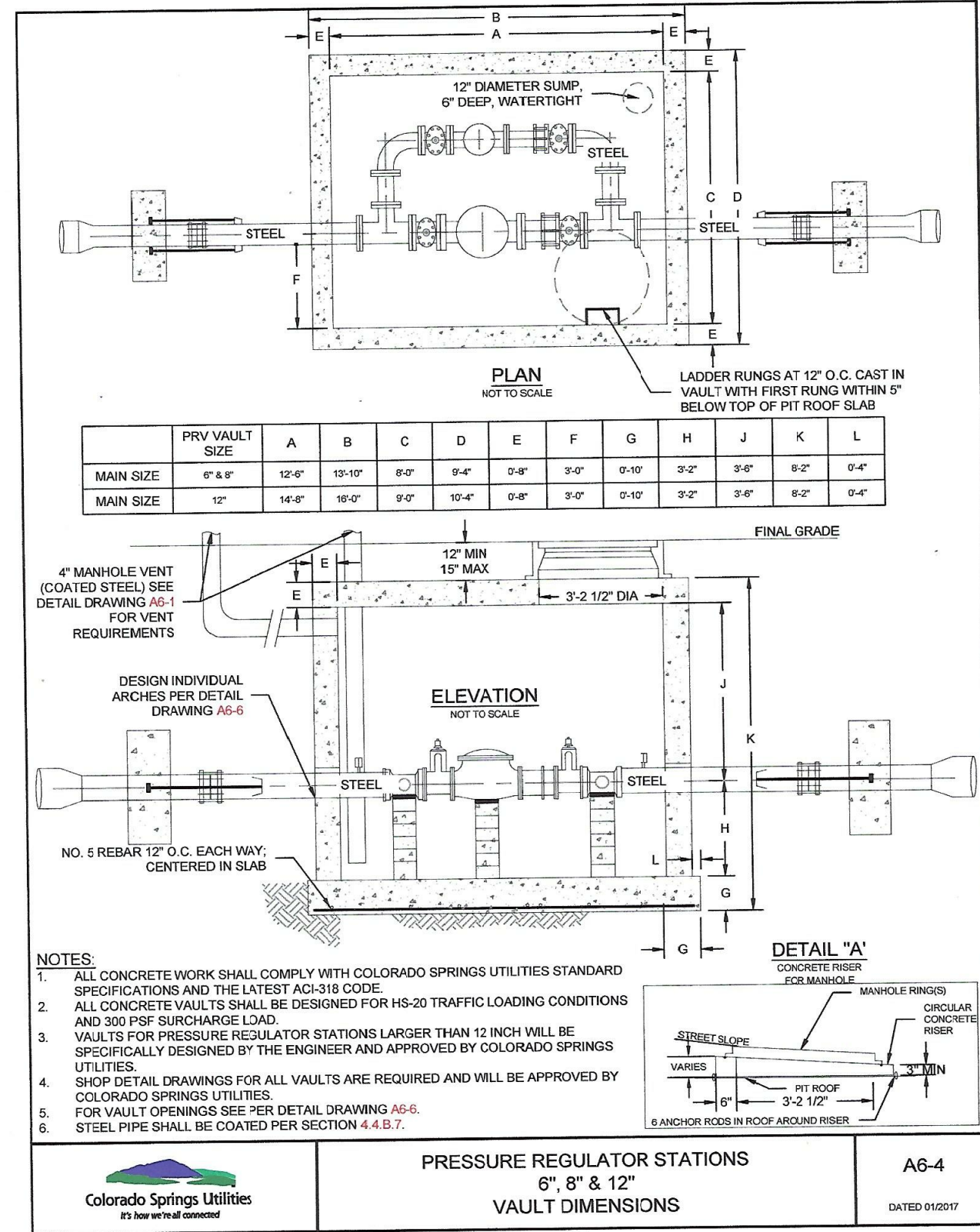
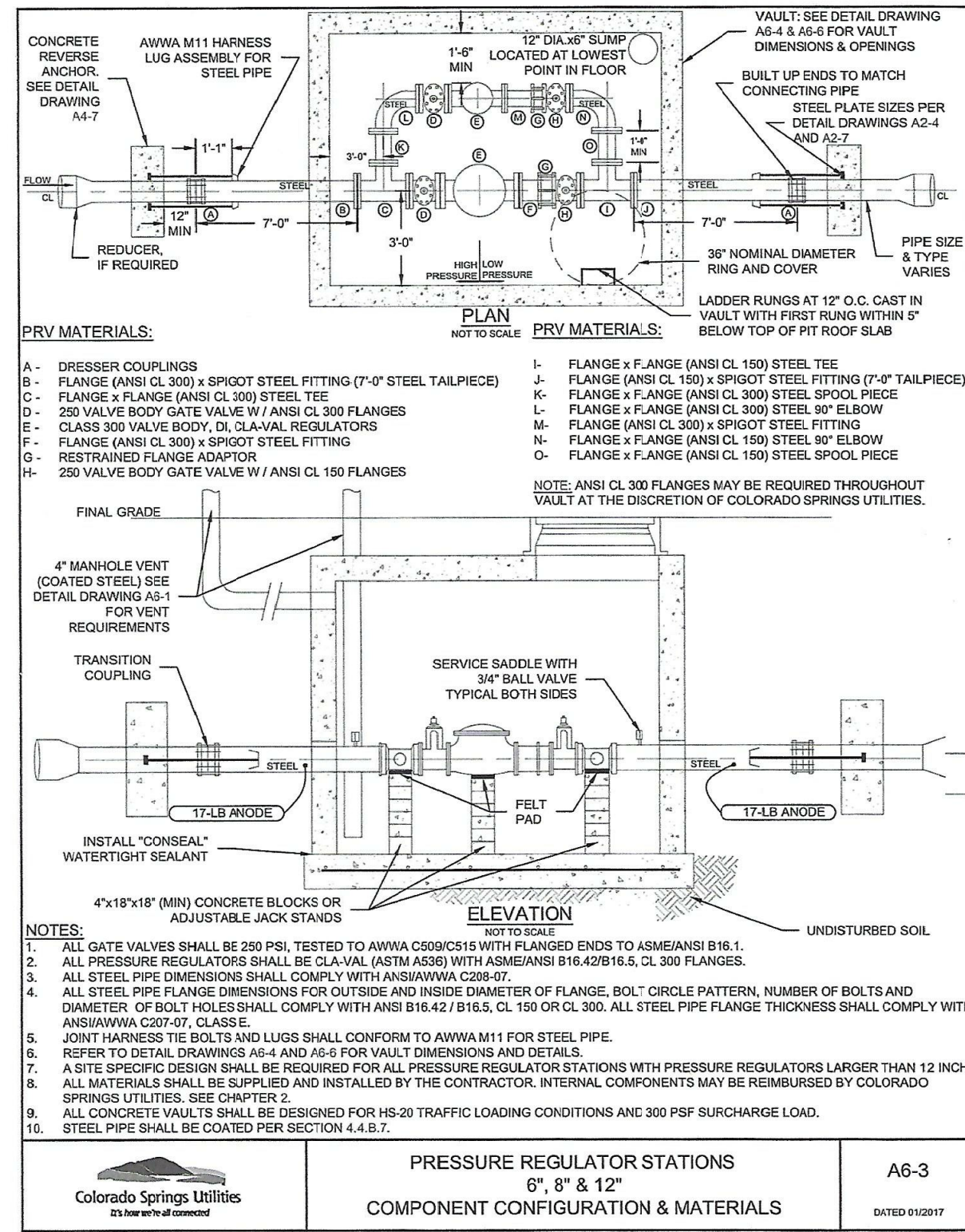
**CORE ENGINEERING GROUP**  
15004 1ST AVENUE S.  
BURNSVILLE, MN 55306  
PH: 718.970.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: rich@cegi.com

DATE: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_  
NO: \_\_\_\_\_  
PREPARED FOR: **LORSON, LLC**  
212 N. WAHSAATCH AVE, SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
PROJECT: **THE HILLS COLLECTOR STREET CONSTRUCTION**  
FONTAINE BLVD. - GRAYLING DR  
LORSON BLVD. - W. VALLEY DR  
COLORADO SPRINGS, COLORADO  
CONTACT: JEFF MARK

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

**WATER/SEWER DETAILS**

DATE: JUNE 1, 2020  
PROJECT NO: 100.061  
SHEET NUMBER: C12.1  
TOTAL SHEETS: 58



**WATER/SEWER DETAILS**

DATE: JUNE 1, 2020

PROJECT NO. 100.061

SHEET NUMBER C12.2

TOTAL SHEETS: 58

**CORE ENGINEERING GROUP**  
 15004 1ST AVENUE S.  
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PROJECT: **THE HILLS COLLECTOR STREET CONSTRUCTION**  
 FONTAINE BLVD. - GRAYLING DR  
 LORSON COLLECTOR STREET  
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