

FOREST LAKES FILING NO. 7

COUNTY OF EL PASO, STATE OF COLORADO

CONSTRUCTION PLANS

MAY 2021

(SECTIONS 27 AND 28, TOWNSHIP 11 SOUTH, RANGE 67 WEST)

GENERAL CONSTRUCTION NOTES:

1. THE LOCATION OF EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND MAY NOT INCLUDE ALL UTILITIES. THE EXCAVATION CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES.
2. BEFORE COMMENCING ANY EXCAVATION, CALL 1-800-922-1987 FOR EXISTING UTILITY LOCATIONS.
3. THE CONTRACTOR WILL TAKE THE NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES FROM DAMAGE DUE TO THIS OPERATION. ANY DAMAGE TO THE UTILITIES WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, AND ANY SERVICE DISRUPTION WILL BE SETTLED BY THE CONTRACTOR.
4. ALL BACKFILL, SUB-BASE AND/OR BASE COURSE (CLASS 6) MATERIAL SHALL BE COMPACTED TO THE SOILS ENGINEER'S RECOMMENDATIONS, AND APPROVED BY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (PCD).
5. ALL STATIONING IS CENTERLINE UNLESS OTHERWISE INDICATED. ALL ELEVATIONS ARE CENTERLINE UNLESS OTHERWISE INDICATED.
6. THE CONTRACTOR SHALL REVEGETATE ALL DISTURBED AREAS AS SOON AS POSSIBLE AND EROSION CONTROL SHALL BE INSTALLED AND MAINTAINED IN A FUNCTIONAL MANNER AT ALL TIMES. DEVELOPER IS RESPONSIBLE FOR MAINTAINING DISTURBED AREAS UNTIL REVEGETATION IS COMPLETE.
7. ALL DISTURBED PAVEMENT EDGES SHALL BE CUT TO NEAT LINES. REPAIR SHALL CONFORM TO THE EPC ECM APPENDIX K - 1.2C.
8. ADDITIONAL EROSION CONTROL STRUCTURES MAY BE REQUIRED AT THE TIME OF CONSTRUCTION.
9. BUILDING CONTRACTORS WILL BE RESPONSIBLE FOR CONSTRUCTING POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.
10. ASPHALT THICKNESS AND BASE COURSE THICKNESS (COMPACTED) FOR ROADS SHALL BE PER DESIGN REPORT BY OWNER'S GEOTECHNICAL ENGINEER. OWNER'S GEOTECHNICAL ENGINEER TO BE ON SITE AT TIME OF ROAD CONSTRUCTION TO EVALUATE SOIL CONDITIONS AND DETERMINE IF ADDITIONAL MEASURES ARE NECESSARY TO ASSURE STABILITY OF THE NEW ROADS. PAVEMENT DESIGN SHALL BE APPROVED BY PLANNING AND COMMUNITY DEVELOPMENT PRIOR TO CONSTRUCTION.
11. THE CONTRACTOR SHALL REVEGETATE ALL DISTURBED AREAS WITHIN 21 DAYS OF SUBSTANTIAL GRADING COMPLETION. EROSION CONTROL SHALL BE INSTALLED AND MAINTAINED IN A FUNCTIONAL MANNER AT ALL TIMES. DEVELOPER IS RESPONSIBLE FOR MAINTAINING DISTURBED AREAS UNTIL REVEGETATION IS COMPLETE.
12. TYPE M RIP-RAP WITH 4" OF TYPE II GRANULAR BEDDING AND MIRAFI 180N OR EQUAL MAY BE SUBSTITUTED WHERE TYPE L RIP-RAP WITH MIRAFI FW 700 OR EQUAL IS SPECIFIED.
13. ALL MATERIALS AND INSTALLATION PROCEDURES SHALL BE IN COMPLIANCE WITH ANY AND ALL APPLICABLE EL PASO COUNTY STANDARDS.
14. LOCATION OF THE CONCRETE WASHOUT, STORAGE FOR MAINTENANCE EQUIPMENT AND TEMPORARY DISPOSAL AREAS WILL BE ADDED TO THIS PLAN BY SWMP ADMINISTRATOR UPON COORDINATION WITH SELECTED CONTRACTOR.

STANDARD NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS:

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 EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT - 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 DEPARTMENT OF PUBLIC WORKS AND MUTCD CRITERIA.
14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
15. THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

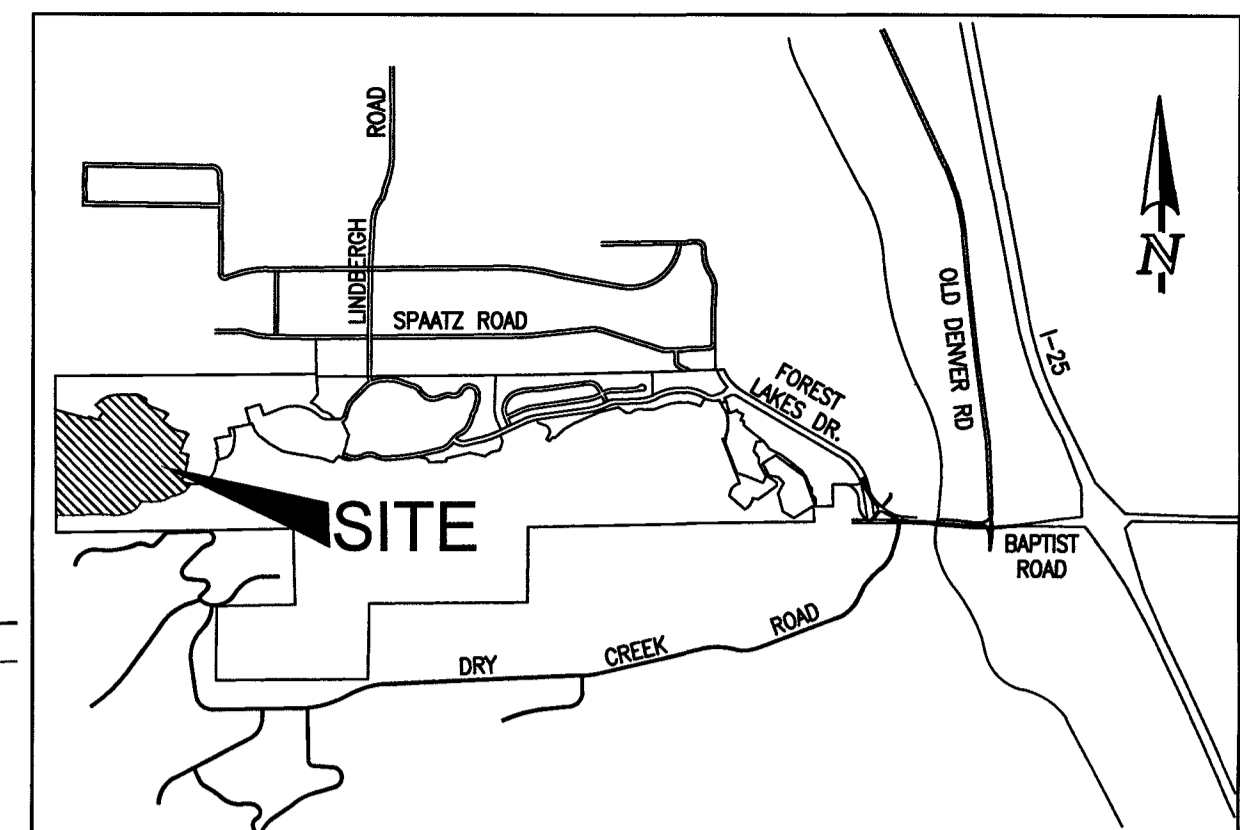
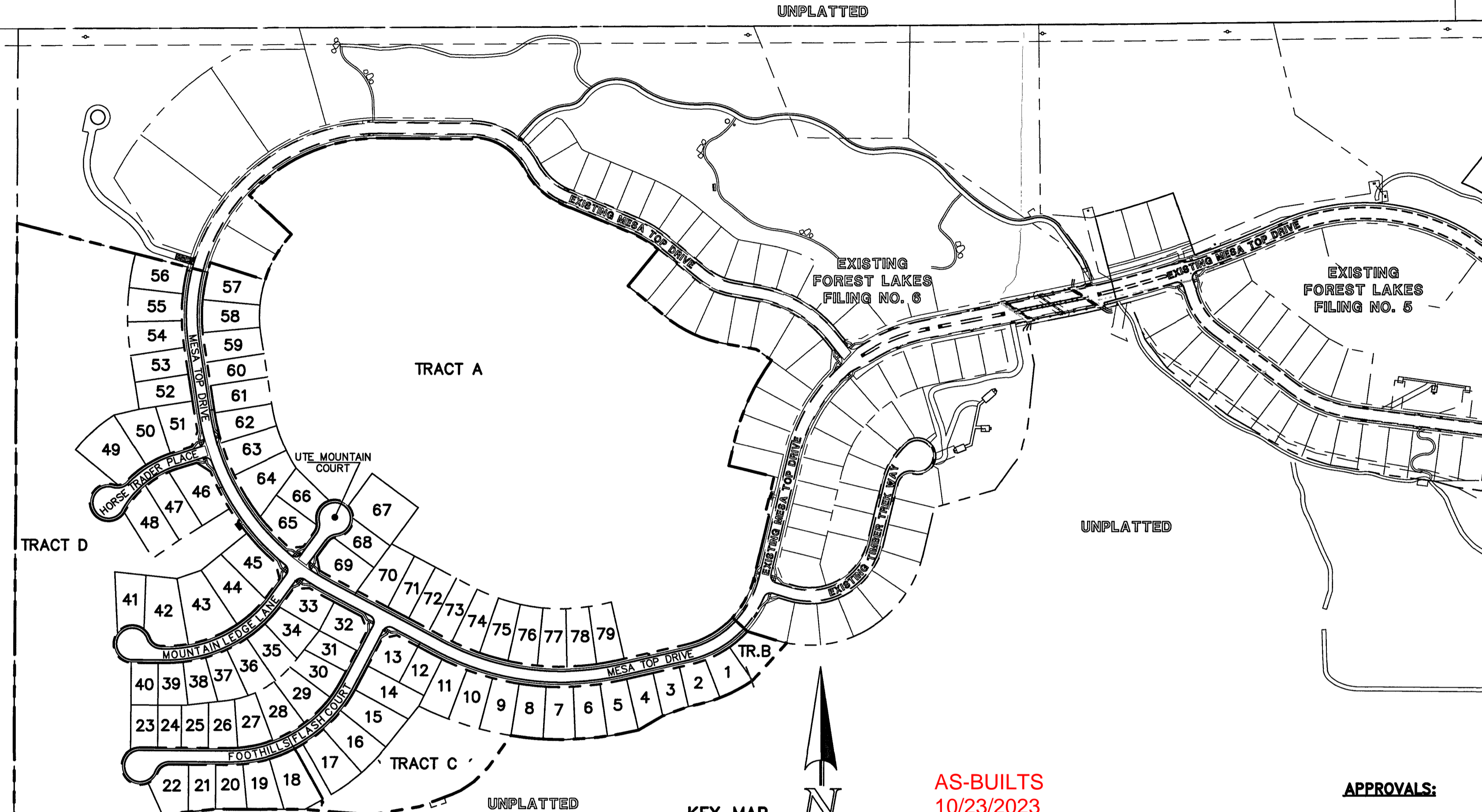
SIGNING AND STRIPING NOTES:

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

BENCHMARKS:

- A. A 1-1/2" ALUMINUM SURVEYORS CAP STAMPED "CES LLC PLS 30118" LOCATED AT THE SOUTHWESTERLY CORNER OF FOREST LAKES FILING NO. 6, APPROXIMATELY 572.93 FEET SOUTHERLY FROM THE CENTER QUARTER CORNER OF SECTION 29, TOWNSHIP 11 SOUTH, RANGE 67 WEST OF THE SIXTH PRINCIPAL MERIDIAN. ELEV. = 7302.74
- B. A 1-1/2" ALUMINUM SURVEYORS CAP STAMPED "CES LLC PLS 30118" LOCATED AT THE SOUTHWESTERLY CORNER OF FOREST LAKES FILING NO. 7, APPROXIMATELY 357.21 FEET NORTHERLY FROM THE SOUTH QUARTER CORNER OF SECTION 29, TOWNSHIP 11 SOUTH, RANGE 67 WEST OF THE SIXTH PRINCIPAL MERIDIAN. ELEV. = 7216.16

UNPLATTED FOREST SERVICE DEPT. OF AGRICULTURE UNITED STATES OF AMERICA



VICINITY MAP
NOT TO SCALE

AGENCIES:

- DEVELOPER:** FOREST LAKES RESIDENTIAL DEVELOPMENT, LLC
6385 CORPORATE DRIVE, SUITE 200
COLORADO SPRINGS, CO 80919
MR. JIM BOULTON (719) 592-3259
- CIVIL ENGINEER:** CLASSIC CONSULTING ENGINEERS & SURVEYORS
619 N. CASCADE AVENUE, SUITE 200
COLORADO SPRINGS, CO 80903
MR. KYLE R. CAMPBELL, P.E. (719) 785-2800
- COUNTY ENGINEERING:** DEVELOPMENT SERVICES DEPARTMENT
2880 INTERNATIONAL CIRCLE
COLORADO SPRINGS, CO 80910
MR. GILBERT LOFORCE, (719) 520-7945
- WATER & SANITATION DISTRICT:** FOREST LAKES METROPOLITAN DISTRICT
2 N. CASCADE AVENUE, SUITE 1280
COLORADO SPRINGS, CO 80903
MS. ANN NICHOLS, (719) 633-9500
- FIRE DISTRICT:** TRI-LAKES MONUMENT FIRE PROTECTION DISTRICT
166 SECOND STREET
MONUMENT, COLORADO 80132
(719) 484-0911
- GAS COMPANY:** BLACK HILLS ENERGY
18985 BASE CAMP ROAD, A-7
MONUMENT, CO 80132
(888) 890-5554
- ELECTRIC COMPANY:** MOUNTAIN VIEW ELECTRIC
1140 E. WOODMEN ROAD
FALCON, COLORADO 80831
(719) 495-2283
- TELEPHONE COMPANY:** CENTURY LINK COMMUNICATIONS
(LOCATORS) (800)-922-1987
A.T.&T. (LOCATORS) (719) 635-3674

APPROVALS:

DESIGN ENGINEER'S STATEMENT:
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 CONFORMANCE 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 DIRECTLY CAUSED BY THE NEGLIGENCE OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

Kyle R. Campbell
KYLE R. CAMPBELL, COLORADO P.E. #29794
FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS & SURVEYORS

03/31/22
DATE

OWNER/DEVELOPER'S STATEMENT:

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE EROSION CONTROL PLAN AND AS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

Jim Boulton
JIM BOULTON

3-31-22
DATE

EL PASO COUNTY:

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

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2 AND ENGINEERING CRITERIA MANUAL AS AMENDED.

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

APPROVED
Engineering Department
05/12/2022 2:11:52 PM
dmjkam
JENNIFER IRVINE, P.E.
COUNTY ENGINEER / ECM ADMINISTRATOR

DATE
PCD FILE # SF-21-49

CONSTRUCTION PLAN: SHEET INDEX

| | |
|----------------|--|
| SHEET 1 OF 31 | TITLE SHEET |
| SHEET 2 OF 31 | GRADING AND EROSION CONTROL PLAN |
| SHEET 3 OF 31 | GRADING AND EROSION CONTROL PLAN |
| SHEET 4 OF 31 | GRADING AND EROSION CONTROL PLAN |
| SHEET 5 OF 31 | GRADING AND EROSION CONTROL PLAN DETAILS & DETAIL SHEET |
| SHEET 6 OF 31 | GRADING AND EROSION CONTROL PLAN DETAIL SHEET |
| SHEET 7 OF 31 | GRADING AND EROSION CONTROL PLAN DETAIL SHEET |
| SHEET 8 OF 31 | KEY MAP WITH TYPICAL STREET SECTIONS |
| SHEET 9 OF 31 | STREET IMPROVEMENT PLAN (MESA TOP DRIVE STA: 1+00-15+50) |
| SHEET 10 OF 31 | STREET IMPROVEMENT PLAN (MESA TOP DRIVE STA: 15+50-END) |
| SHEET 11 OF 31 | STREET IMPROVEMENT PLAN (HORSE TRADER PLACE) |
| SHEET 12 OF 31 | STREET IMPROVEMENT PLAN (MOUNTAIN LEDGE LANE/UTE MOUNTAIN COURT) |
| SHEET 13 OF 31 | STREET IMPROVEMENT PLAN (FOOTHILLS FLASH COURT) |
| SHEET 14 OF 31 | PEDESTRIAN RAMP DETAILED GRADING |
| SHEET 15 OF 31 | STREET LIGHT POLE LOCATION PLAN |
| SHEET 16 OF 31 | STORM SEWER PLAN & PROFILE (MAIN A, & MAIN B) |
| SHEET 17 OF 31 | STORM SEWER PLAN & PROFILE (MAIN C) |
| SHEET 18 OF 31 | STORM SEWER PLAN & PROFILE (MAIN D & POND OUTFALL) |
| SHEET 19 OF 31 | STORM SEWER PLAN & PROFILE (MAIN E) |
| SHEET 20 OF 31 | STORM SEWER PLAN & PROFILE (BYPASS SYSTEM STA: 1+00-13+50) |
| SHEET 21 OF 31 | STORM SEWER PLAN & PROFILE (BYPASS SYSTEM STA: 13+50-END) |
| SHEET 22 OF 31 | PRIVATE POND 'A' FULL SPECTRUM DETENTION |
| SHEET 23 OF 31 | POND OUTFALL - 30" IMPACT STRUCTURE & BYPASS MAIN - 48" IMPACT STRUCTURE |
| SHEET 24 OF 31 | MAIN 'A' - 48" IMPACT STRUCTURE & FOREBAY |
| SHEET 25 OF 31 | POND OUTLET BOX - PROFILE VIEW |
| SHEET 26 OF 31 | POND OUTLET BOX AND MICROPOOL DETAILS |
| SHEET 27 OF 31 | POND OUTLET BOX DETAILS |
| SHEET 28 OF 31 | PRIVATE POND 'A' SPILLWAY DETAILS |
| SHEET 29 OF 31 | DETAIL SHEET |
| SHEET 30 OF 31 | DETAIL SHEET |
| SHEET 31 OF 31 | DETAIL SHEET |

UTILITY CONSTRUCTION PLAN: SHEET INDEX

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|--|------------------|
| TITLE SHEET | SHEET 1 OF 11 |
| SANITARY SEWER PLAN - MESA TOP DR. STA: 1+00.00 - 12+50.00 | SHEET 2 OF 11 |
| SANITARY SEWER PLAN - MESA TOP DR. STA: 12+50.00 - END | SHEET 3 OF 11 |
| SANITARY SEWER PLAN - HORSE TRADER PL. & MOUNTAIN LEDGE LN. | SHEET 4 OF 11 |
| SANITARY SEWER PLAN - FOOTHILLS FLASH CT. STA: 1+00.00 - END | SHEET 5 OF 11 |
| PUBLIC 8" PVC WATER SYSTEM PLAN | SHEETS 6-9 OF 11 |
| UTILITY SERVICE PLAN | SHEET 10 OF 11 |
| UTILITY SERVICE PLAN/DETAILS | SHEET 11 OF 11 |

48 HOURS BEFORE YOU DIG,
CALL UTILITY LOCATORS
811
UTILITY NOTIFICATION CENTER OF COLORADO
IT'S THE LAW

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| NO. REVISION | DATE | REVIEW: |
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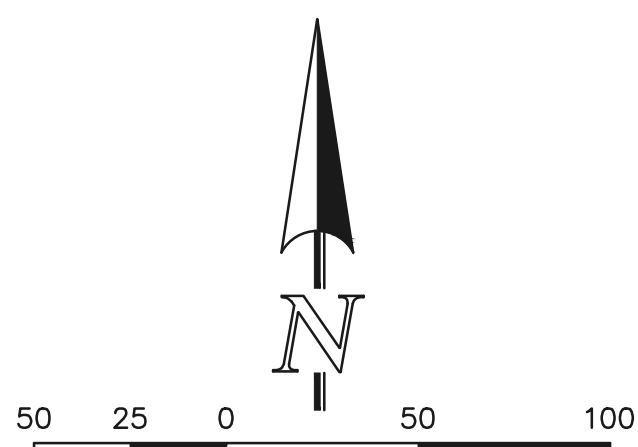
PREPARED UNDER THE DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

Kyle R. Campbell
KYLE R. CAMPBELL, COLORADO P.E. #29794

03/31/22
DATE



| | | | |
|--|--------------|---------------|-----------------|
| FOREST LAKES FILING NO. 7 CONSTRUCTION PLANS TITLE SHEET | | | |
| DESIGNED BY | MAL | SCALE | DATE |
| DRAWN BY | MES | (H) 1" = N/A | 05/21/21 |
| CHECKED BY | (V) 1" = N/A | SHEET 1 OF 31 | JOB NO. 1175.70 |

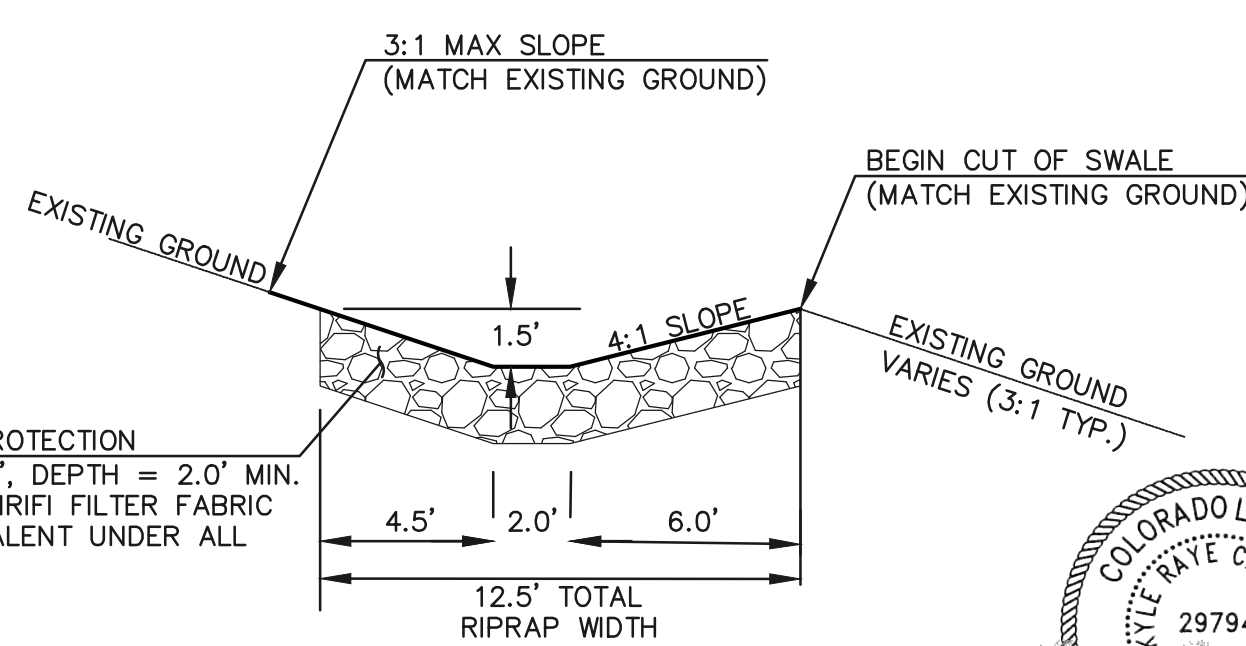


PARTIALLY GROUTED RIPRAP:
 PORTIONS OF THE PROPOSED RIPRAP SWALE ARE TO BE "PARTIALLY GROUTED" PER CDOT SPECIFICATIONS, WITH THE GROUT FILLING ONLY 1/3 TO 1/2 OF THE TOTAL VOID SPACE. PORTLAND CEMENT BASED GROUT PLACED BY HOSE OR TREMIE, OR BY AUTOMATED MECHANICAL MEANS.

NOTES:
 OVERLOT GRADING COMPLETED WITH PRE-DEVELOPMENT GRADING PLAN & PERMIT. EROSION CONTROL BLANKETS, TEMPORARY SEDIMENT BASINS, SILT FENCE & STRAW BALE BARRIERS INSTALLED PER THAT PLAN.
 THERE WILL BE NO ASPHALT, CONCRETE BATCH PLANTS AND MASONRY MIX STATIONS ON THIS SITE.

- LEGEND**
- (7700) --- EXISTING CONTOUR
 - 7700 — PROPOSED CONTOUR
 - - - - - PROPOSED LIMITS OF GRADING/ CONSTRUCTION SITE BOUNDARY
 - - - - - BOUNDARY/R.O.W. LINE
 - EXISTING FLOW DIRECTION
 - PROPOSED FLOW
 - "A" A LOT
 - "B" B LOT
 - "W/O" WALKOUT LOT
 - "T" TRANSITION LOT
 - "G" GARDEN LOT
 - PROPOSED INLET
 - PROPOSED STORM SEWER PIPE
 - EX HP EXISTING HIGH POINT
 - EX LP EXISTING LOW POINT
 - EX TSB EXISTING TEMPORARY SEDIMENT BASIN
 - EX SF EXISTING SILT FENCE
 - EX SBB EXISTING STRAW BALE CHECK DAM
 - EX ECB EXISTING EROSION CONTROL BLANKET
 - X SF PROPOSED SILT FENCE
 - IP INLET PROTECTION
 - VTC VEHICLE TRACKING CONTROL
 - ECB PROPOSED EROSION CONTROL BLANKET
- CCM PHASING**
- (INSTALLED DURING INITIAL PHASE WITH CONTINUED MAINTENANCE THROUGH INTERIM PHASE)
 - (INSTALLED PRIOR TO INITIAL PHASE (EGP) WITH CONTINUED MAINTENANCE DURING INTERIM AND VERTICAL PHASES)
 - (INSTALLED DURING INITIAL PHASE (EGP) WITH CONTINUED MAINTENANCE DURING INTERIM AND VERTICAL PHASES)
 - (INSTALLED DURING INTERIM PHASE (EGP) WITH CONTINUED MAINTENANCE THROUGH VERTICAL PHASE)
 - (INSTALL PRIOR TO INITIAL PHASE WITH CONTINUED MAINTENANCE DURING INTERIM AND VERTICAL PHASES)
 - (INSTALL DURING INTERIM PHASE WITH CONTINUED MAINTENANCE THROUGH VERTICAL PHASE)
 - (INSTALL PRIOR TO INTERIM PHASE WITH CONTINUED MAINTENANCE THROUGH VERTICAL PHASE OR SITE PAVING)
 - (INSTALL DURING INTERIM PHASE WITH CONTINUED MAINTENANCE THROUGH VERTICAL PHASE)

NOTE:
 SEE SHEETS 5-7 FOR LOT TEMPLATES AND EROSION CONTROL DETAILS



RIPRAP SWALE DETAIL
 1" = 5'



AS-BUILTS
 10/23/2023
 SF-21-49

48 HOURS BEFORE YOU DIG,
 CALL UTILITY LOCATORS
811
 UTILITY NOTIFICATION CENTER OF COLORADO
 IT'S THE LAW

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| NO. | REVISION | DATE |
|-----|----------|------|
| | | |
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REVIEW:
 PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

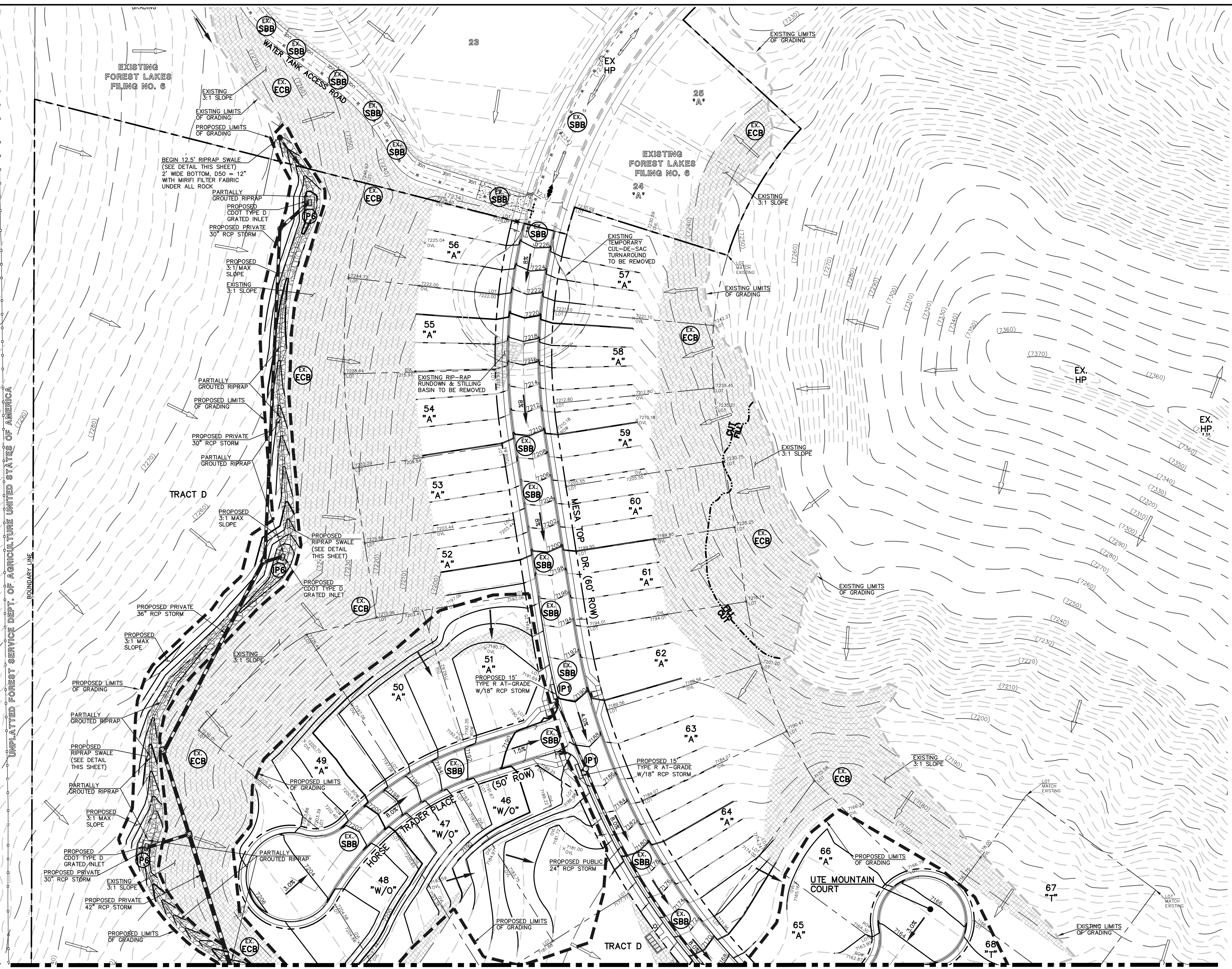
KYLE R. CAMPBELL, P.E. #29794



FOREST LAKES FILING NO. 7

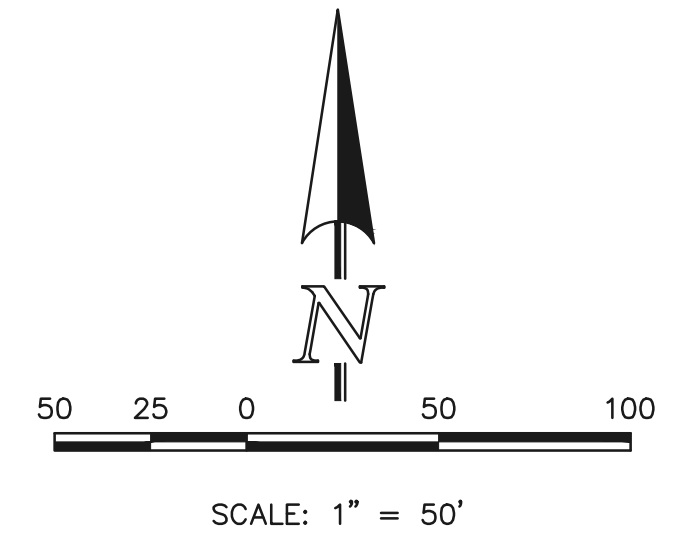
GRADING AND EROSION CONTROL PLAN
 EPC 5/12/2022

| | | | | |
|-------------|--------------|--------------|---------|----------|
| DESIGNED BY | MAL | SCALE | DATE | 05/21/21 |
| DRAWN BY | MES | (H) 1" = 50' | SHEET | 2 OF 31 |
| CHECKED BY | (V) 1" = N/A | JOB NO. | 1175.70 | |



PCD FILE # SF-21-49

MATCHLINE (SEE SHEET 2)



AS-BUILTS
10/23/2023
SF-21-49



PARTIALLY GROUDED RIPRAP:
PORTIONS OF THE PROPOSED RIPRAP SWALE ARE TO BE "PARTIALLY GROUDED" PER CDOT SPECIFICATIONS, WITH THE GROUT FILLING ONLY 1/3 TO 1/2 OF THE TOTAL VOID SPACE. PORTLAND CEMENT BASED GROUT PLACED BY HOSE OR TREMIE, OR BY AUTOMATED MECHANICAL MEANS.

LEGEND

- (7700) EXISTING CONTOUR
- 7700 PROPOSED CONTOUR
- PROPOSED LIMITS OF GRADING/ CONSTRUCTION SITE BOUNDARY
- BOUNDARY/R.O.W. LINE
- EXISTING FLOW DIRECTION
- PROPOSED FLOW
- "A" A LOT
- "B" B LOT
- "W/O" WALKOUT LOT
- "T" TRANSITION LOT
- "G" GARDEN LOT
- PROPOSED INLET
- PROPOSED STORM SEWER PIPE
- EXISTING HIGH POINT
- EXISTING LOW POINT
- EXISTING TEMPORARY SEDIMENT BASIN
- EXISTING SILT FENCE
- EXISTING STRAW BALE CHECK DAM
- EXISTING EROSION CONTROL BLANKET
- PROPOSED SILT FENCE
- INLET PROTECTION
- VEHICLE TRACKING CONTROL
- PROPOSED EROSION CONTROL BLANKET

- CCM PHASING**
- (INSTALLED DURING INITIAL PHASE WITH CONTINUED MAINTENANCE THROUGH INTERIM PHASE)
 - (INSTALLED PRIOR TO INITIAL PHASE DURING INTERIM AND VERTICAL PHASES)
 - (INSTALLED DURING INITIAL PHASE (EGP) WITH CONTINUED MAINTENANCE DURING INTERIM AND VERTICAL PHASES)
 - (INSTALLED DURING INTERIM PHASE (EGP) WITH CONTINUED MAINTENANCE THROUGH VERTICAL PHASE)
 - (INSTALL PRIOR TO INITIAL PHASE WITH CONTINUED MAINTENANCE DURING INTERIM AND VERTICAL PHASES)
 - (INSTALL DURING INTERIM PHASE WITH CONTINUED MAINTENANCE THROUGH VERTICAL PHASE)
 - (INSTALL PRIOR TO INTERIM PHASE WITH CONTINUED MAINTENANCE THROUGH VERTICAL PHASE OR SITE PAVING)
 - (INSTALL DURING INTERIM PHASE WITH CONTINUED MAINTENANCE THROUGH VERTICAL PHASE)

NOTES:
OVERLOT GRADING COMPLETED WITH PRE-DEVELOPMENT GRADING PLAN & PERMIT. EROSION CONTROL BLANKETS, TEMPORARY SEDIMENT BASINS, SILT FENCE & STRAW BALE BARRIERS INSTALLED PER THAT PLAN.
THERE WILL BE NO ASPHALT, CONCRETE BATCH PLANTS AND MASONRY MIX STATIONS ON THIS SITE.

48 HOURS BEFORE YOU DIG,
CALL UTILITY LOCATORS
811
UTILITY NOTIFICATION CENTER OF COLORADO
IT'S THE LAW
THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

| NO. | REVISION | DATE | REVIEW: |
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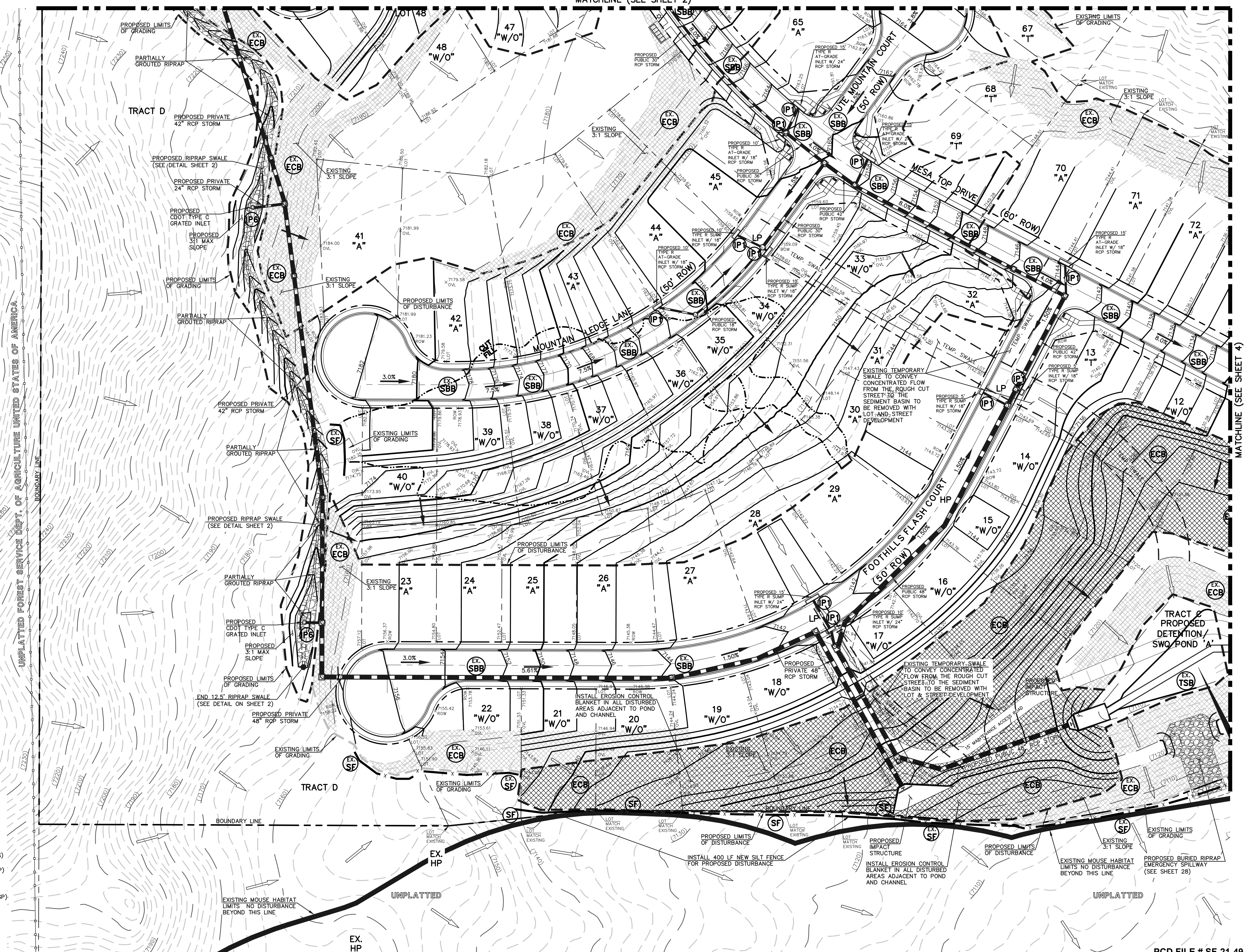
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

KYLE R. CAMPBELL, P.E. #29794
DATE 03/31/22

CLASSIC CONSULTING
619 N. Cascade Avenue, Suite 200
Colorado Springs, Colorado 80903
(719) 785-0790
(719) 785-0799 (Fax)

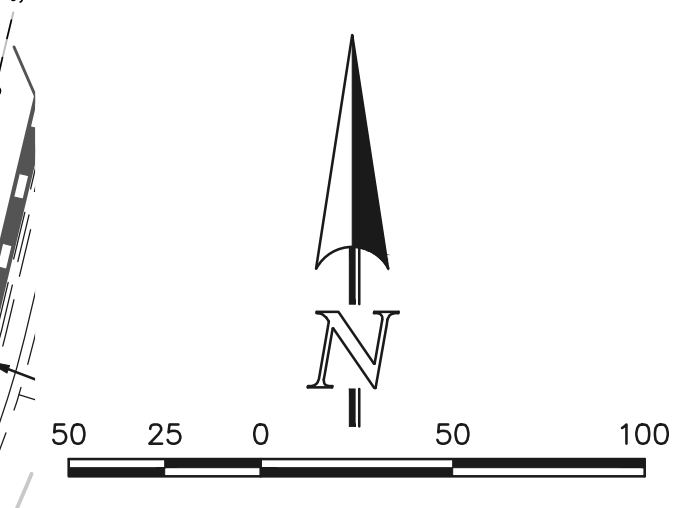
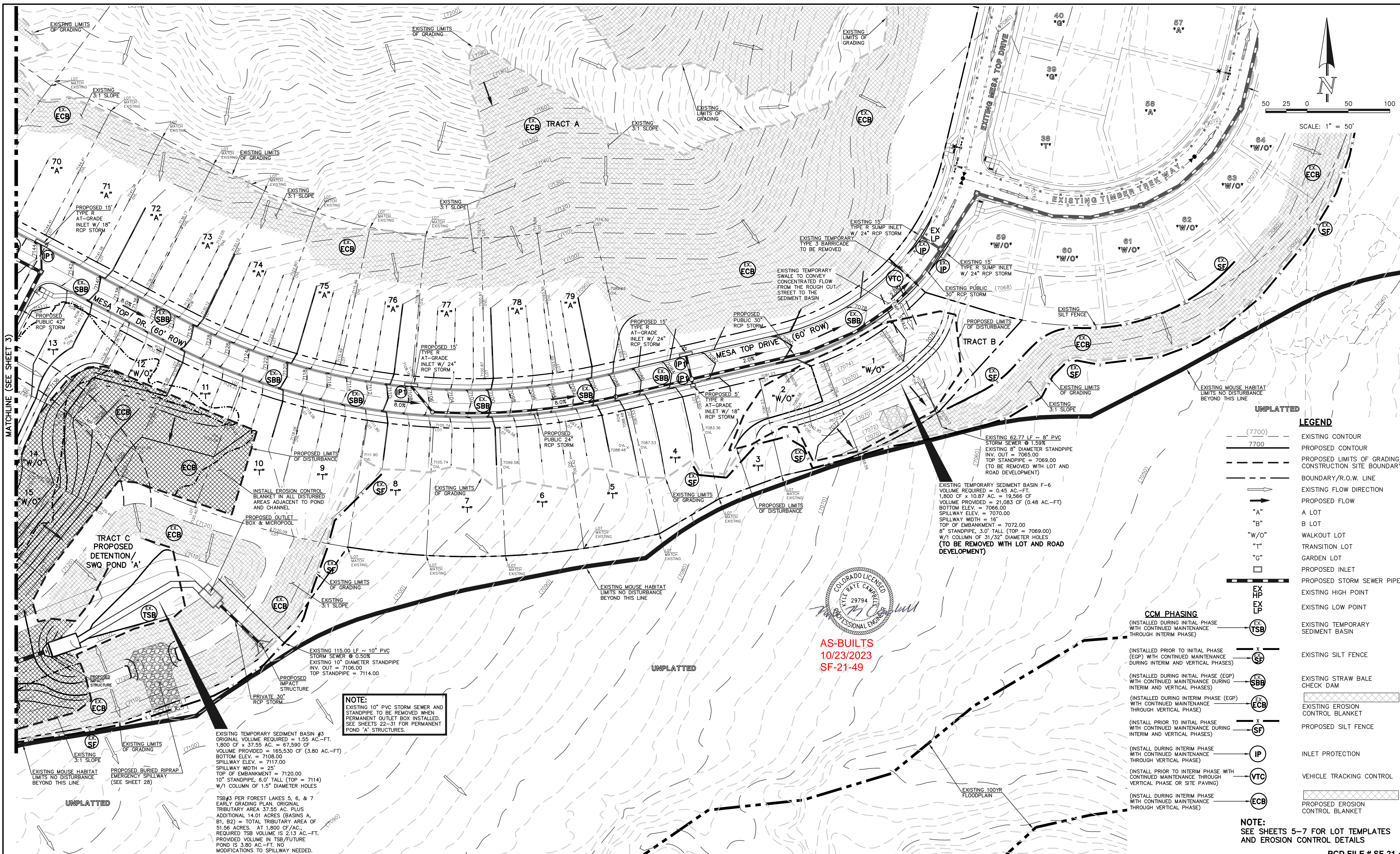
PCD FILE # SF-21-49

| | |
|---|------------------------------|
| FOREST LAKES FILING NO. 7 | |
| GRADING AND EROSION CONTROL PLAN EPC 5/12/2022 | |
| DESIGNED BY | MAL |
| DRAWN BY | MES |
| CHECKED BY | MES |
| SCALE | (H) 1" = 50' (V) 1" = N/A |
| DATE | 05/21/21 |
| SHEET | 3 OF 31 |
| JOB NO. | 1175.70 |



MATCHLINE (SEE SHEET 4)

N:\117570\DRAWINGS\CONSTRUCTION\GRADING--EROSION\03-117570-GR-02.dwg, 3/31/2022, 12:16:07 PM, 1:1



UNPLATTED

LEGEND

- (---) (7700) --- EXISTING CONTOUR
- (---) 7700 --- PROPOSED CONTOUR
- (---) --- PROPOSED LIMITS OF GRADING/ CONSTRUCTION SITE BOUNDARY
- (---) --- BOUNDARY/R.O.W. LINE
- (---) --- EXISTING FLOW DIRECTION
- (---) --- PROPOSED FLOW
- (---) --- "A" LOT
- (---) --- "B" LOT
- (---) --- "W/O" WALKOUT LOT
- (---) --- "T" TRANSITION LOT
- (---) --- "G" GARDEN LOT
- (---) --- PROPOSED INLET
- (---) --- PROPOSED STORM SEWER PIPE
- (---) --- EX HP EXISTING HIGH POINT
- (---) --- EX LP EXISTING LOW POINT
- (---) --- EX (TSB) EXISTING TEMPORARY SEDIMENT BASIN
- (---) --- EX (SF) EXISTING SILT FENCE
- (---) --- EX (SBB) EXISTING STRAW BALE CHECK DAM
- (---) --- EX (ECB) EXISTING EROSION CONTROL BLANKET
- (---) --- EX (SF) (INSTALL PRIOR TO INITIAL PHASE WITH CONTINUED MAINTENANCE DURING INTERIM AND VERTICAL PHASES)
- (---) --- EX (SBB) (INSTALL DURING INITIAL PHASE (EGP) WITH CONTINUED MAINTENANCE DURING INTERIM AND VERTICAL PHASES)
- (---) --- EX (ECB) (INSTALL DURING INTERIM PHASE (EGP) WITH CONTINUED MAINTENANCE THROUGH VERTICAL PHASE)
- (---) --- EX (SF) (INSTALL PRIOR TO INITIAL PHASE WITH CONTINUED MAINTENANCE DURING INTERIM AND VERTICAL PHASES)
- (---) --- EX (IP) (INSTALL DURING INTERIM PHASE WITH CONTINUED MAINTENANCE THROUGH VERTICAL PHASE)
- (---) --- EX (VTC) (INSTALL PRIOR TO INTERIM PHASE WITH CONTINUED MAINTENANCE THROUGH VERTICAL PHASE OR SITE PAVING)
- (---) --- EX (ECB) (INSTALL DURING INTERIM PHASE WITH CONTINUED MAINTENANCE THROUGH VERTICAL PHASE)
- (---) --- EXISTING EROSION CONTROL BLANKET
- (---) --- PROPOSED SILT FENCE
- (---) --- INLET PROTECTION
- (---) --- VEHICLE TRACKING CONTROL
- (---) --- PROPOSED EROSION CONTROL BLANKET

EXISTING 62.77 LF ~ 8" PVC STORM SEWER @ 1.59% EXISTING 8" DIAMETER STANDPIPE INV. OUT = 7065.00 TOP STANDPIPE = 7069.00 (TO BE REMOVED WITH LOT AND ROAD DEVELOPMENT)

EXISTING TEMPORARY SEDIMENT BASIN F-6 VOLUME REQUIRED = 0.45 AC.-FT. 1,800 CF x 10.87 AC. = 19,566 CF VOLUME PROVIDED = 21,083 CF (0.48 AC.-FT) BOTTOM ELEV. = 7066.00 SPILLWAY ELEV. = 7070.00 SPILLWAY WIDTH = 16' TOP OF EMBANKMENT = 7072.00 8" STANDPIPE, 3.0' TALL (TOP = 7069.00) W/1 COLUMN OF 31/32" DIAMETER HOLES (TO BE REMOVED WITH LOT AND ROAD DEVELOPMENT)



AS-BUILTS
10/23/2023
SF-21-49

NOTE:
EXISTING 10" PVC STORM SEWER AND STANDPIPE TO BE REMOVED WHEN PERMANENT OUTLET BOX INSTALLED. SEE SHEETS 22-31 FOR PERMANENT POND "A" STRUCTURES.

EXISTING TEMPORARY SEDIMENT BASIN #3 ORIGINAL VOLUME REQUIRED = 1.55 AC.-FT. 1,800 CF x 37.55 AC. = 67,590 CF VOLUME PROVIDED = 165,530 CF (3.80 AC.-FT) BOTTOM ELEV. = 7108.00 SPILLWAY ELEV. = 7117.00 SPILLWAY WIDTH = 25' TOP OF EMBANKMENT = 7120.00 10" STANDPIPE, 6.0' TALL (TOP = 7114) W/1 COLUMN OF 1.5" DIAMETER HOLES

TSB#3 PER FOREST LAKES 5, 6, & 7 EARLY GRADING PLAN. ORIGINAL TRIBUTARY AREA 37.55 AC. PLUS ADDITIONAL 14.01 ACRES (BASINS A, B1, B2) = TOTAL TRIBUTARY AREA OF 51.56 ACRES. AT 1,800 CF/AC. REQUIRED TSB VOLUME IS 213 AC.-FT. PROVIDED VOLUME IN TSB/FUTURE POND IS 3.80 AC.-FT. NO MODIFICATIONS TO SPILLWAY NEEDED.

NOTES:
OVERLOT GRADING COMPLETED WITH PRE-DEVELOPMENT GRADING PLAN & PERMIT. EROSION CONTROL BLANKETS, TEMPORARY SEDIMENT BASINS, SILT FENCE & STRAW BALE BARRIERS INSTALLED PER THAT PLAN.
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| NO. | REVISION | DATE | REVIEW: |
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| | | | |

REVIEW:
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

KYLE R. CAMPBELL
PROFESSIONAL ENGINEER
P.E. #29794

03/31/22
DATE



PCD FILE # SF-21-49

FOREST LAKES FILING NO. 7

GRADING AND EROSION CONTROL PLAN
EPC 5/12/2022

| | | | | |
|-------------|--------------|--------------|---------|----------|
| DESIGNED BY | MAL | SCALE | DATE | 05/21/21 |
| DRAWN BY | MES | (H) 1" = 50' | SHEET | 4 OF 31 |
| CHECKED BY | (V) 1" = N/A | JOB NO. | 1175.70 | |

N:\117570\DRAWINGS\CONSTRUCTION\GRADING-EROSION\04-117570-GR-03.dwg, 3/31/2022, 12:17:51 PM, 1:1

EL PASO COUNTY GRADING AND EROSION CONTROL NOTES:

- STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.
- 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 MANUAL, THE DRAINAGE 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.
- A SEPARATE STORMWATER MANAGEMENT PLAN (SWMP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. MANAGEMENT OF THE SWMP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR. THE SWMP SHALL BE LOCATED ON SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
- ONCE THE ESQCP IS APPROVED AND A 'NOTICE TO PROCEED' HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GEC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF.
- CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.
- ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES ARE NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN.
- TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS.
- FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
- ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT AFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
- EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESILIENT SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED.
- COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF COMPACTION PREVENTION IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL AREAS DESIGNATED FOR INFILTRATION AND VEGETATION CONTROL MEASURES MUST BE LOOSENEED PRIOR TO INSTALLATION OF THE CONTROL MEASURE(S).
- ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF SITE.
- CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO ENTER STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUTS SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY, CREEK OR STREAM.
- DURING DEWATERING OPERATIONS OF UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE.
- EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. CONTROL MEASURES MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
- TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
- THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, SOIL, AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEMS AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
- THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
- NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ON SITE UNLESS PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH CHEMICAL(S), SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
- BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS ON SITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES.
- NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
- OWNER/DEVELOPER AND THEIR AGENTS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, BOOK VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
- PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
- A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
- THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY ENTECH ENGINEERING, INC. DATED AUGUST 12, 2020 AND SHALL BE CONSIDERED A PART OF THESE PLANS.
- AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE (1) ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
WATER QUALITY CONTROL DIVISION
WOOD - PERMITS
4300 CHERRY CREEK DRIVE SOUTH
DENVER, CO 80246-1530
ATTN: PERMITS UNIT

CONSTRUCTION CONTROL MEASURES NOTES:

- CONTRACTOR TO DETERMINE AREAS USED FOR STAGING, STORAGE OF MATERIALS, SOILS (STOCKPILES) OR WASTES AND SHALL MARK ON THE SITE SWMP AT ALL TIMES. THE USE OF CONSTRUCTION OFFICE TRAILERS REQUIRES PCD PERMITTING.
- THE EROSION CONTROL MEASURES SHOWN ON THE APPROVED "FOREST LAKES FILING NO. 5, 6, & 7 PRE-DEVELOPMENT GRADING AND EROSION CONTROL PLAN" SHOW AND CALL-OUT THE 'INITIAL' STAGE OF TEMPORARY CONSTRUCTION CONTROL MEASURES.
- THE PROPOSED GRADING/EROSION CONTROL PLAN (SHEETS 2-4) SHOW AND CALL-OUT THE 'INTERIM' STAGE OF CONSTRUCTION CONTROL MEASURES.
- 'FINAL' CONSTRUCTION CONTROL MEASURES ARE STABILIZED/DEVELOPED LOTS, CONSTRUCTED ROADS, RE-SEEDED OPEN SPACE, AND CONSTRUCTED DETENTION PONDS. A PLAN IS NOT NEEDED FOR THE FINAL STAGE.

EROSION CONTROL CRITERIA:

EROSION CONTROL MEASURES SHALL BE IMPLEMENTED IN A MANNER THAT WILL PROTECT PROPERTIES AND PUBLIC FACILITIES FROM THE ADVERSE EFFECTS OF EROSION AND SEDIMENTATION AS A RESULT OF CONSTRUCTION AND EARTHWORK ACTIVITIES WITHIN THE PROJECT SITE.

- THE OMISSION FROM OR THE INCLUSION OF UTILITY LOCATIONS ON THE PLANS IS NOT TO BE CONSIDERED AS THE NON-EXISTENCE OF OR A DEFINITE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- DURING GRADING OPERATIONS, LOCATE AND SET THE STRAW BALE CHECK DAMS AND SILT FENCES AS SHOWN ON THE EROSION CONTROL PLAN. AT THIS TIME RESEED ALL DISTURBED AREAS WITH AN EL PASO COUNTY APPROVED SEED MIX.
- SEEDING APPLICATION: DRILLED TO A DEPTH OF .25" TO .50" INTO SOIL WHERE POSSIBLE. BROADCAST AND RAKED TO COVER ON STEEPER THAN 3:1 SLOPES WHERE ACCESS IS LIMITED OR UNSAFE FOR EQUIPMENT.
- MULCHING REQUIREMENT AND APPLICATION: 1.5 TONS PER ACRE NATIVE HAY MECHANICALLY CRIMPED INTO SOIL.
- THE STRAW BALE CHECK DAMS AND SILT FENCES SHALL BE KEPT IN PLACE AND MAINTAINED UNTIL EROSION AND SEDIMENTATION POTENTIAL IS MITIGATED. REMOVAL OF SILT AND SEDIMENT COLLECTED BY THE STRAW BALES IS REQUIRED ONCE IT REACHES HALF THE HEIGHT OF THE STRAW BALES OR SILT FENCE.
- SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN TWENTY-ONE (21) CALENDAR DAYS AFTER FINAL GRADING, OR FINAL EARTH DISTURBANCE, HAS BEEN COMPLETED. DISTURBED AREAS AND STOCKPILES WHICH ARE NOT AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 30 DAYS SHALL ALSO BE MULCHED WITHIN 21 DAYS AFTER INTERIM GRADING. AN AREA THAT IS GOING TO REMAIN IN AN INTERIM STATE FOR MORE THAN 60 DAYS SHALL ALSO BE SEED, ON A CASE-BY-CASE BASIS. THE MSA PERMITTEE MAY ALLOW ANOTHER APPROPRIATE BMP TO BE IN PLACE THAT PREVENTS SEDIMENT FROM LEAVING THE SITE. ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND BMP'S SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED.
- ALL FACILITIES, VEGETATION AND OTHER ITEMS REQUIRED BY THE APPROVED FINAL GRADING/EROSION CONTROL AND CLAMATION PLAN SHALL BE PROPERLY MAINTAINED BY THE OWNERS OF THE PROPERTY. SUCH MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO KEEPING ALL EROSION CONTROL FACILITIES IN GOOD ORDER AND FUNCTIONAL, REPAIRING ANY EROSION DAMAGE THAT OCCURS, KEEPING ALL VEGETATION HEALTHY AND IN GROWING CONDITION AND REPLACING ANY DEAD VEGETATION AS SOON AS PRACTICABLE.
- ALL SILT FENCES ARE TO BE REGULARLY INSPECTED AND REPAIRED AS NEEDED.
- THE CONTRACTOR SHALL PROVIDE VEHICLE TRACKING CONTROL FACILITIES FOR EACH ENTRANCE/EXIT TO THE SITE. THE CONTRACTOR SHALL SUBMIT A PLAN WHICH WILL ASSURE USAGE OF THIS FACILITY BY ALL VEHICLES LEAVING THE SITE.
- EROSION CONTROL MEASURES SHALL BE CHECKED AFTER EACH STORM EVENT AND REPAIRED WHEN NECESSARY.
- CONTRACTOR SHALL MAINTAIN ALL TEMPORARY EROSION CONTROL FACILITIES IN GOOD WORKING ORDER UNTIL SUCH TIME AS PERMANENT FACILITIES ARE IN PLACE AND THE CONSTRUCTION MANAGER HAS APPROVED THEIR REMOVAL.
- ADDITIONAL EROSION CONTROL STRUCTURES MAY BE REQUIRED AT THE TIME OF CONSTRUCTION.
- THE EROSION CONTROL MEASURES OUTLINED ON THE PLAN ARE THE RESPONSIBILITY OF THE DEVELOPER TO MONITOR AND REPLACE, REGRADE AND REBUILD AS NECESSARY UNTIL VEGETATION IS ESTABLISHED.
- MAXIMUM ACREAGE OPEN AT ANY GIVEN TIME IS TO BE 30 ACRES.

SEEDING GUIDELINES:

- SEEDBED PREPARATION**
THE SEEDBED SHOULD BE WELL-SETTLED AND FIRM, BUT FRAGILE ENOUGH THAT THE SEED CAN BE PLACED AT THE SPECIFIED DEPTHS. COMPETITIVE STANDS OF WEEDS THAT ARE PRESENT BEFORE SEEDING MUST BE CONTROLLED BY SHALLOW TILLAGE OR BY APPLICATION OF HERBICIDES. SOILS THAT HAVE BEEN OVER-COMPACTED BY TRAFFIC OR EQUIPMENT, ESPECIALLY WHEN WET, SHOULD BE TILLED TO BREAK UP ROOTING-RESTRICTIVE LAYERS, THAN HARROWED, ROLLED, OR PACKED TO PREPARE THE REQUIRED FIRM SEEDBED.
- FERTILIZER**
FERTILIZER SHOULD BE APPLIED AT A RATE OF 50 POUNDS OF AVAIL-ABLE NITROGEN PER ACRE AND 40 POUNDS OF AVAIL-ABLE PHOSPHATE PER ACRE. THE TIME OF APPLICATION SHOULD BE IMMEDIATELY PRIOR TO SEEDING, AT THE TIME OF SEEDING, OR IMMEDIATELY FOLLOWING SEEDING, DEPENDING ON THE KIND OF FERTILIZER AND TYPE OF EQUIPMENT USED.
- SEEDING**
SEED SHOULD BE PLANTED WITH A GRASS DRILL ON ALL SLOPES OF 3:1 (3:1) OR FLATTER. SEED MAY BE BROADCAST BY HAND, BY MECHANICAL SPREADER, OR BY HYDRAULIC EQUIPMENT ON AREAS THAT ARE SMALL, TOO STEEP, OR NOT ACCESSIBLE FOR SEED DRILL OPERATIONS. SEED PLANTED WITH A DRILL SHOULD BE COVERED WITH SOIL TO A DEPTH OF 1/4 TO 3/4 INCH. SEED PLANTED BY THE BROADCAST METHOD SHALL BE INCORPORATED INTO THE SOIL SURFACE, NOT TO EXCEED A DEPTH OF 3/4 INCH, BY RAKING, HARROWING, OR OTHER PROVEN METHOD. THE TIME OF SEEDING IS FROM OCTOBER 15TH - MAY 31ST. SEED PLANTED IN THE LATE FALL WILL REMAIN DORMANT UNTIL SPRING, WHEN IT WILL GERMINATE.
- MULCHING**
SEEDING AREAS SHOULD BE MULCHED TO CONSERVE MOISTURE; PREVENT SURFACE COMPACTION OR CRUSTING; REDUCE RUNOFF AND EROSION; CONTROL INSECTS; AND HELP ESTABLISH PLANT COVER.
NATIVE HAY OR STRAW SHOULD BE APPLIED AT A RATE OF 4,000 POUNDS PER ACRE AND CRIMPED INTO THE GROUND. ON SLOPES GREATER THAN 3:1, AN AGRONOMY BLANKET SHOULD BE USED.
- SUPPLEMENTAL WATER**
IN LOW RAINFALL AREAS, WHERE WATER IS AVAILABLE AND WHERE RAPID ESTABLISHMENT IS NEEDED, IRRIGATION OF NEW SEEDING SHOULD BE PERFORMED DURING THE FIRST GROWING SEASON. WATER SHOULD BE APPLIED AT APPROXIMATELY ONE WEEK INTERVALS, AT A RATE OF 3/4 TO 1 INCH PER APPLICATION, WHEN RAINFALL IS DEFICIENT FOR PLANT DEVELOPMENT.

NOTES:

AT LEAST TEN DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB 1 ACRE OR MORE, THE OWNER OR OPERATOR OF THE CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
WATER QUALITY CONTROL DIVISION
WOOD - PERMITS
4300 CHERRY CREEK DRIVE SOUTH
DENVER, CO 80246-1530
ATTN: PERMITS UNIT

A PORTION OF THE OVERALL FOREST LAKES DEVELOPMENT IS LOCATED WITHIN A FLOODPLAIN AS DETERMINED BY THE FLOOD INSURANCE RATE MAPS (F.I.R.M.) MAP NUMBERS 08041 C0267G, C0266G, C0258G & C0259G EFFECTIVE DATE, DECEMBER 7, 2018. HOWEVER, THERE IS NO PORTION OF FILING 7 DEVELOPMENT WITHIN THE FLOODPLAIN LIMITS.

THE AVERAGE SOIL CONDITION REFLECTS HYDROLOGIC SOIL GROUP "B", MOSTLY JARRE-TECOLOTE COMPLEX AND PEYTON-PRING COMPLEX AS DETERMINED BY THE "SOIL SURVEY OF EL PASO COUNTY AREA" PREPARED BY THE U.S. SOIL CONSERVATION SERVICE.

EXISTING VEGETATION CONSISTS OF NATIVE GRASSES.

EMERGENCY OVERFLOW SWALES FOR INLETS IN THE INTERIM UNTIL CURB AND ASPHALT IS INSTALLED WILL BE THE LOTS, FINAL WILL BE TO OVERTOP THE HIGH POINT IN ROADWAY TO THE NEXT AVAILABLE INLET OR TO PROPOSED POND.

STOCKPILE LOCATIONS FOR HOMEBUILDING TO BE ON EACH INDIVIDUAL LOT THAT IS BEING BUILT UPON.

LIMITS OF DISTURBANCE FOR THIS PLAN INCLUDE UTILITY INSTALLATION AND ROADWAY CONSTRUCTION WITHIN THE R.O.W. AND OVERLOT GRADING FOR DEVELOPMENT THEN INDIVIDUAL LOTS FOR HOMEBUILDING ONCE CONSTRUCTION OF THE HOME BEGINS.

GRADING WITHIN THIS PHASE WILL BE FULLY DEVELOPED WITH HOME BUILDING OPERATIONS.

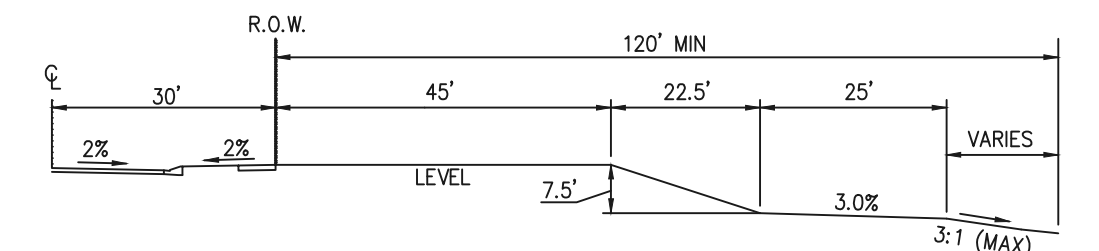
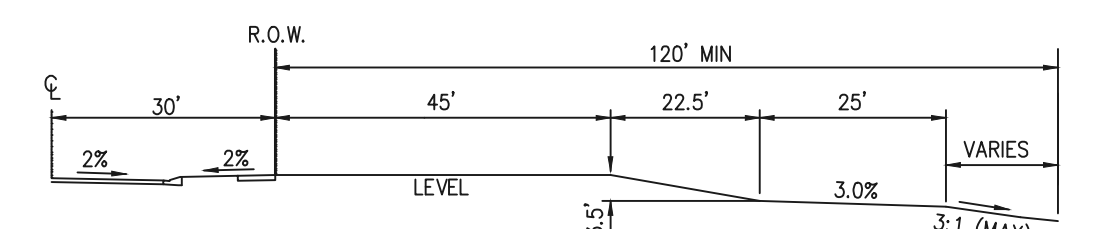
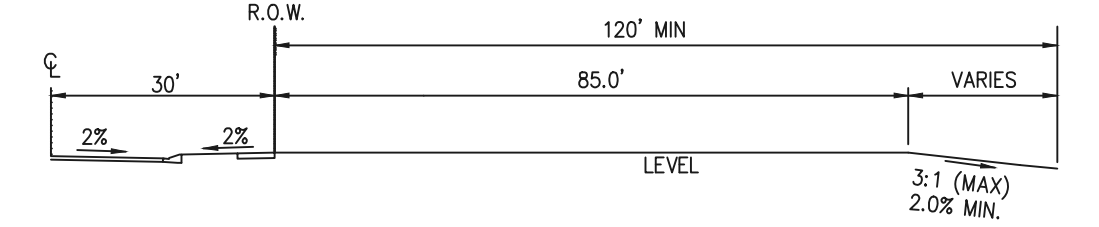
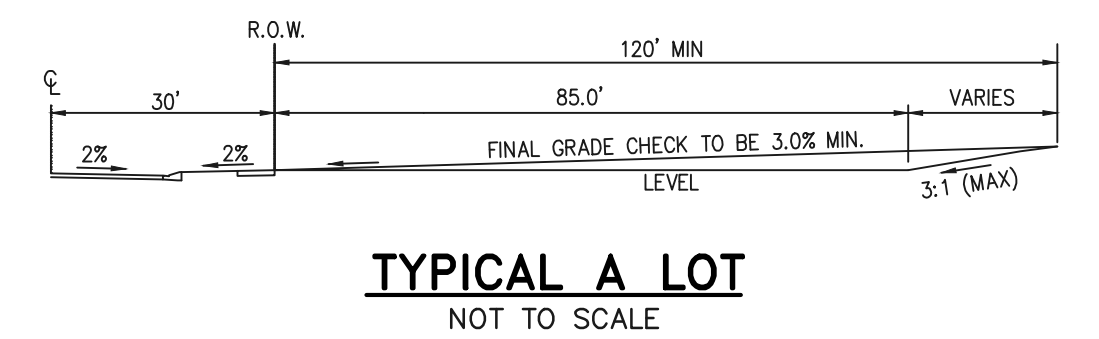
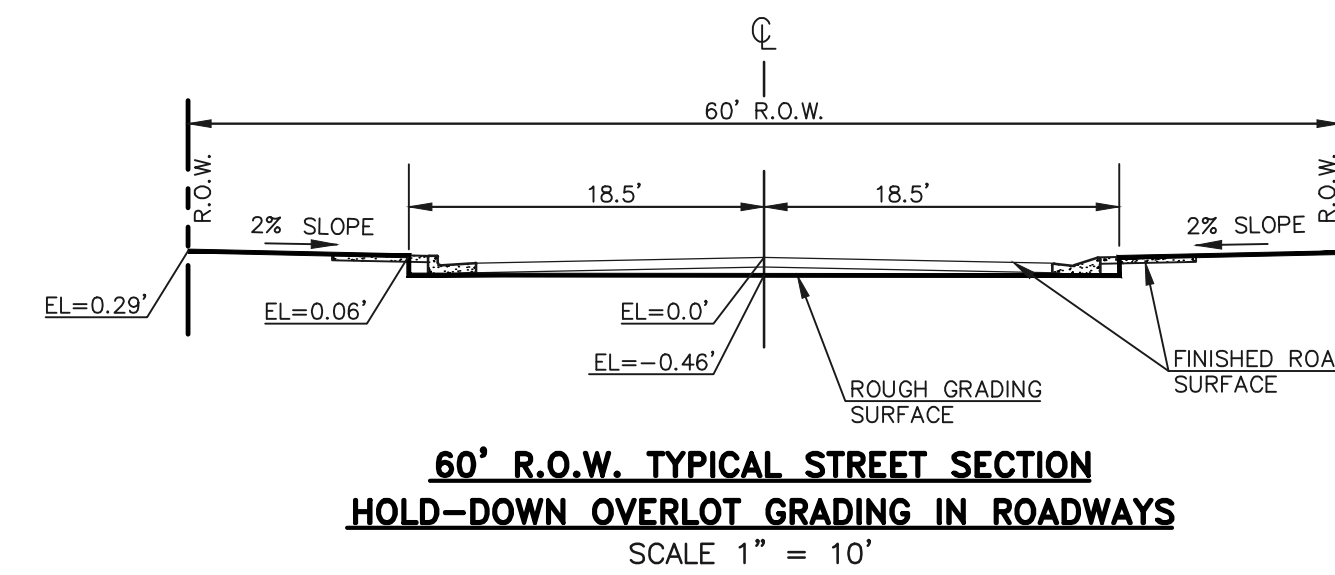
LOCATION OF THE CONCRETE WASHOUT, STORAGE FOR MAINTENANCE EQUIPMENT AND TEMPORARY DISPOSAL AREAS WILL BE ADDED TO THIS PLAN BY SWMP ADMINISTRATOR UPON COORDINATION WITH SELECTED CONTRACTOR.

ALL AREAS ARE TO BE RESEEDED OUTSIDE OF THE FILING NO. 5 AREA. RESEED ALL AREAS AS NEEDED TO PREVENT EROSION AND SEDIMENT RUNOFF ONTO CONSTRUCTION ACTIVITIES.

SCHEDULE OF ANTICIPATED CONSTRUCTION ACTIVITY:

- INSTALL INITIAL BMP'S
- INSPECTION OF INTIAL BMP'S BY COUNTY STAFF
- PRECONSTRUCTION MEETING WITH COUNTY STAFF

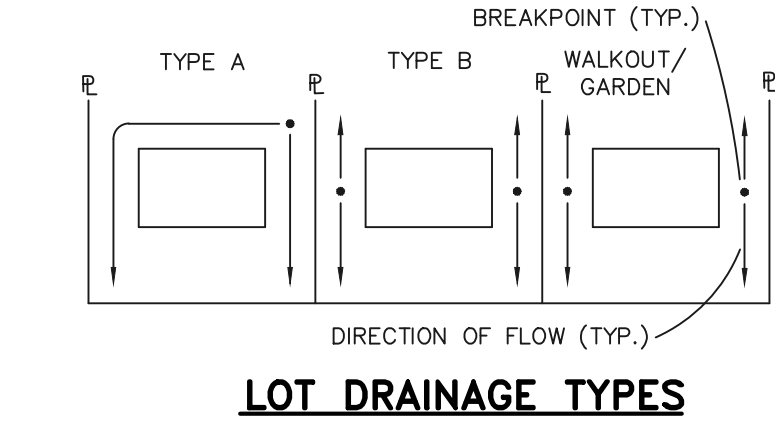
| BEGIN CONSTRUCTION UPON APPROVAL | ACTIVITY | COMPLETION MONTHS | EROSION CONTROL ALL SHOWN ON GRADING PLAN |
|----------------------------------|---|-------------------|---|
| | ALL SITE ROADWAY GRADING AND UTILITY INSTALLATION | 6 MONTHS | |



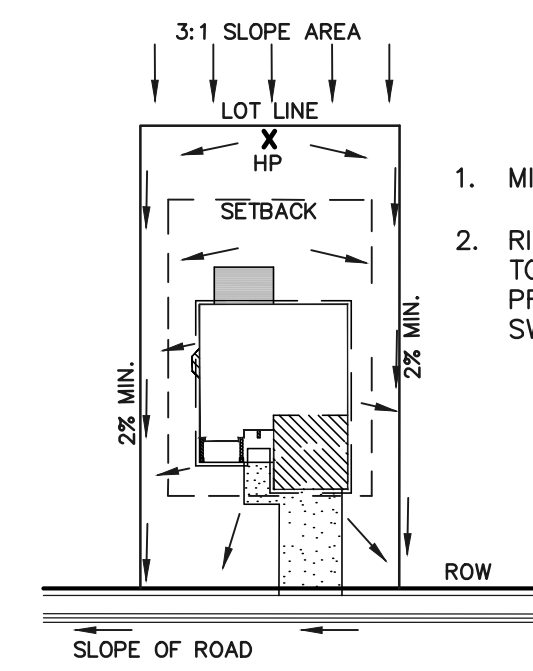
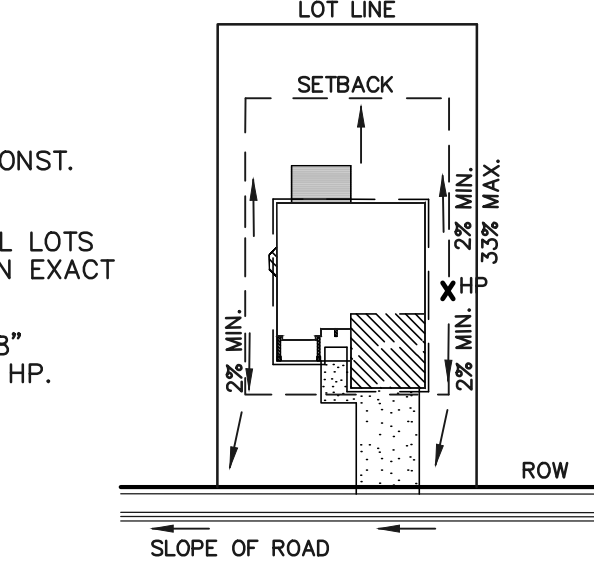
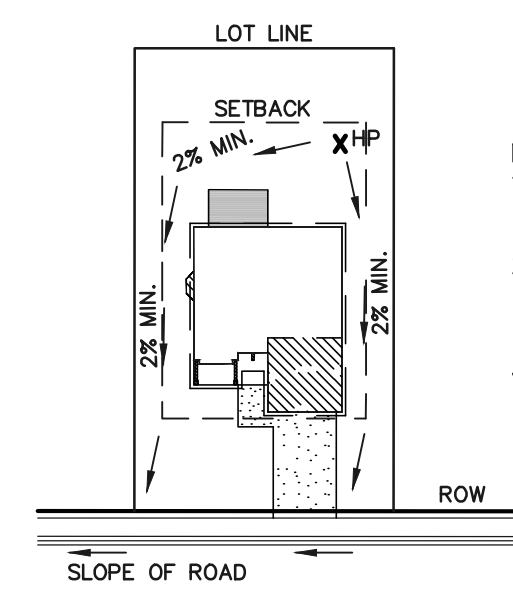
NOTE:

"T" LOTS OR "TRANSITION" LOTS OCCUR IN PLACES WHERE BOTH PROPERTY LINES CANNOT BE GRADED AS THE TYPICAL STANDARD LOT TEMPLATES SHOWN. THESE LOTS WILL STILL BE GRADED TO CREATE POSITIVE DRAINAGE AWAY FROM THE STRUCTURE.

NOTE: SIDE LOT LINE SWALES ARE REQUIRED FOR ALL LOTS.



- MINIMUM LOT WIDTH ALONG SLOPE IS 70'.
- RIPRAP OR CONCRETE 'V' NOTCH SWALES TO BE INSTALLED ALONG SHARED PROPERTY & WITHIN SIDE LOT EASEMENTS. SWALES TO DISCHARGE ONTO ROADWAY.

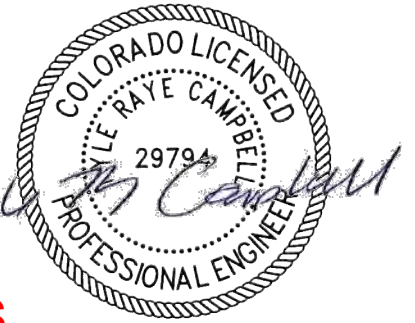


TYPICAL "A" LOT DRAINAGE PATTERN N.T.S.

TYPICAL "B", "C", "W/O" LOT DRAINAGE PATTERN N.T.S.

"A" LOTS W/SLOPE BEHIND DRAINAGE PATTERN N.T.S.

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| 48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS | | |
| 811 | | |
| UTILITY NOTIFICATION CENTER OF COLORADO ITS THE LAW | | |
| THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. | | |

| REVIEW: | DATE |
|---|----------|
| PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC | |
| KYLE R. CAMPBELL PROFESSIONAL ENGINEER P.E. #29794 | 03/31/22 |

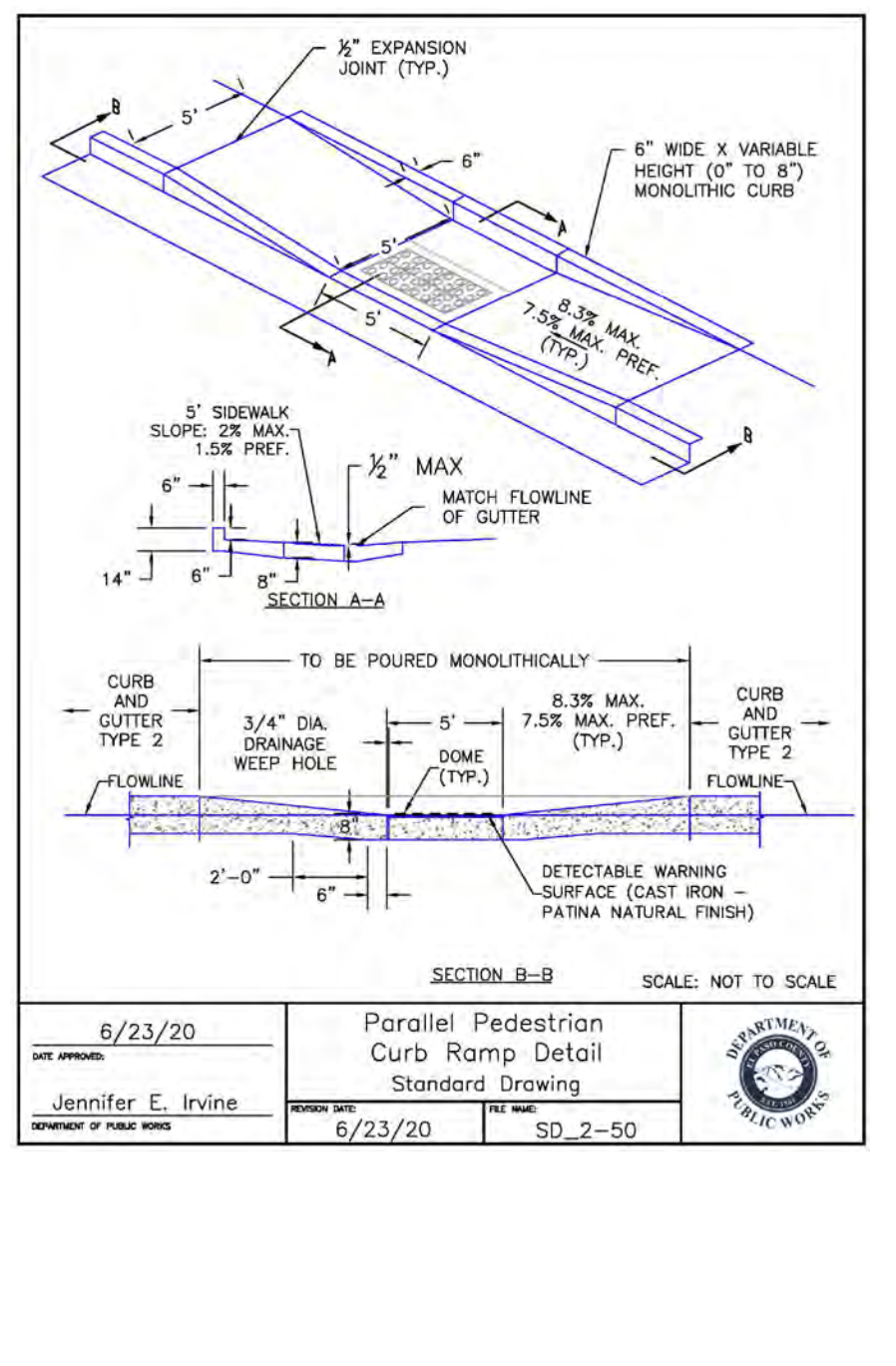
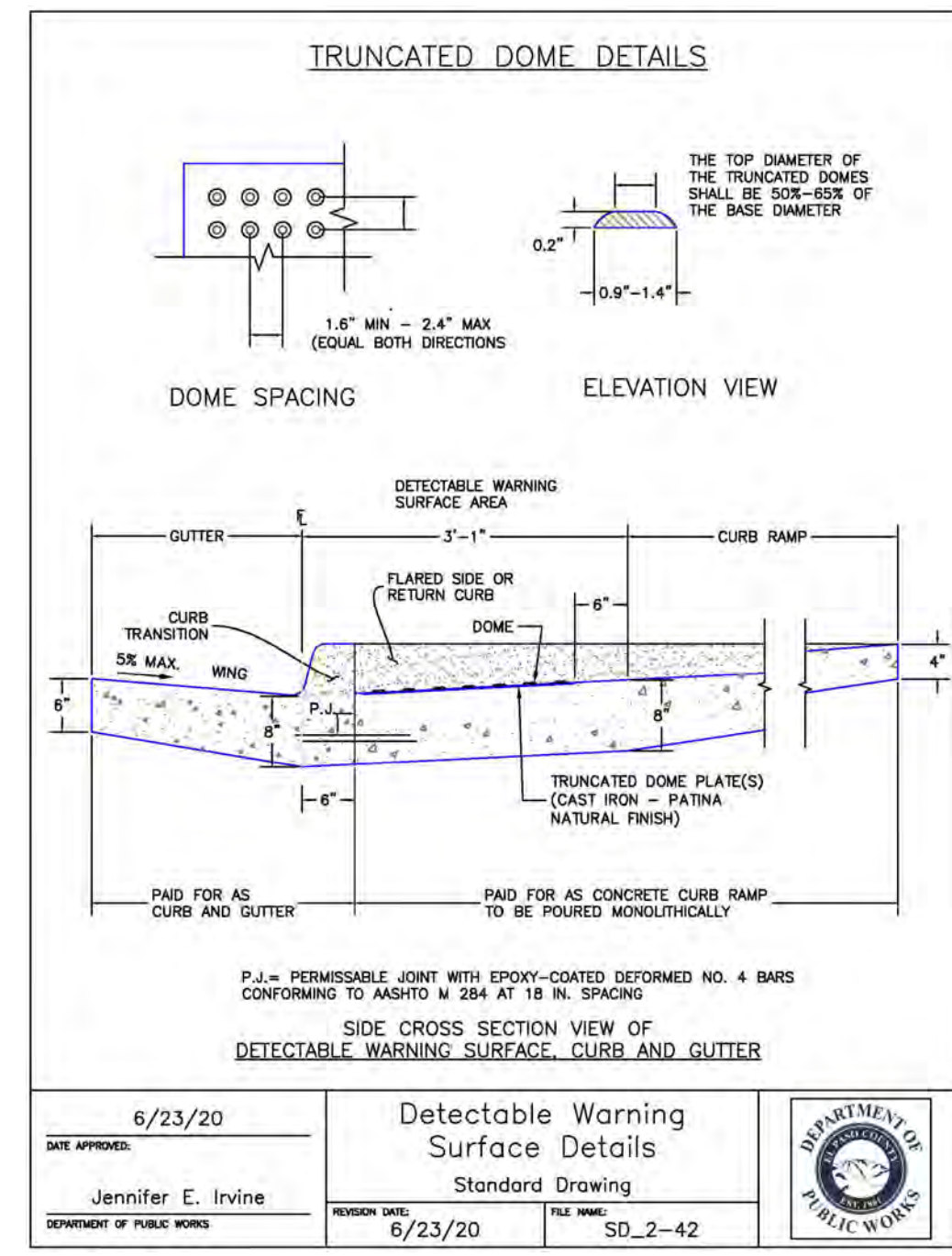
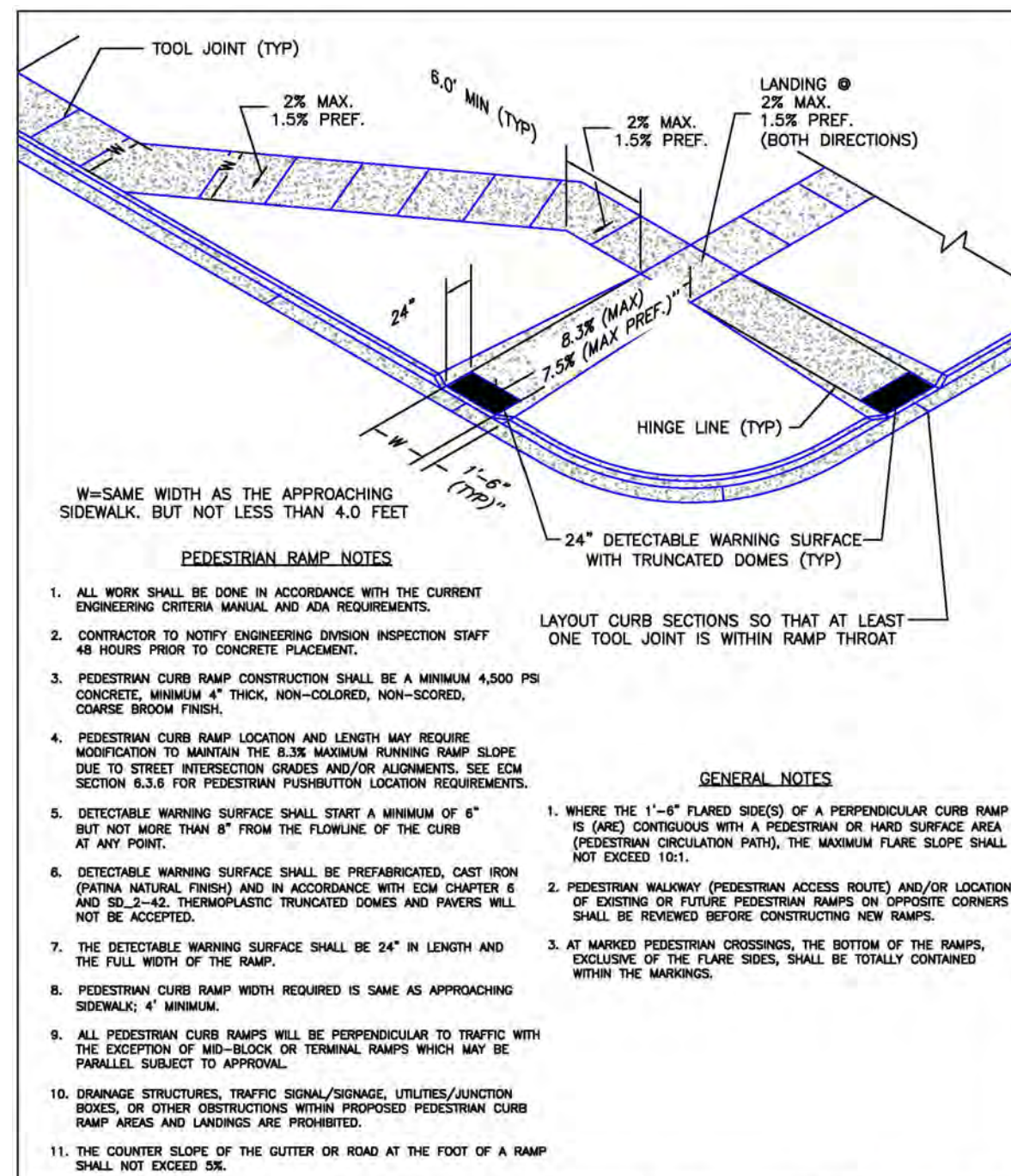
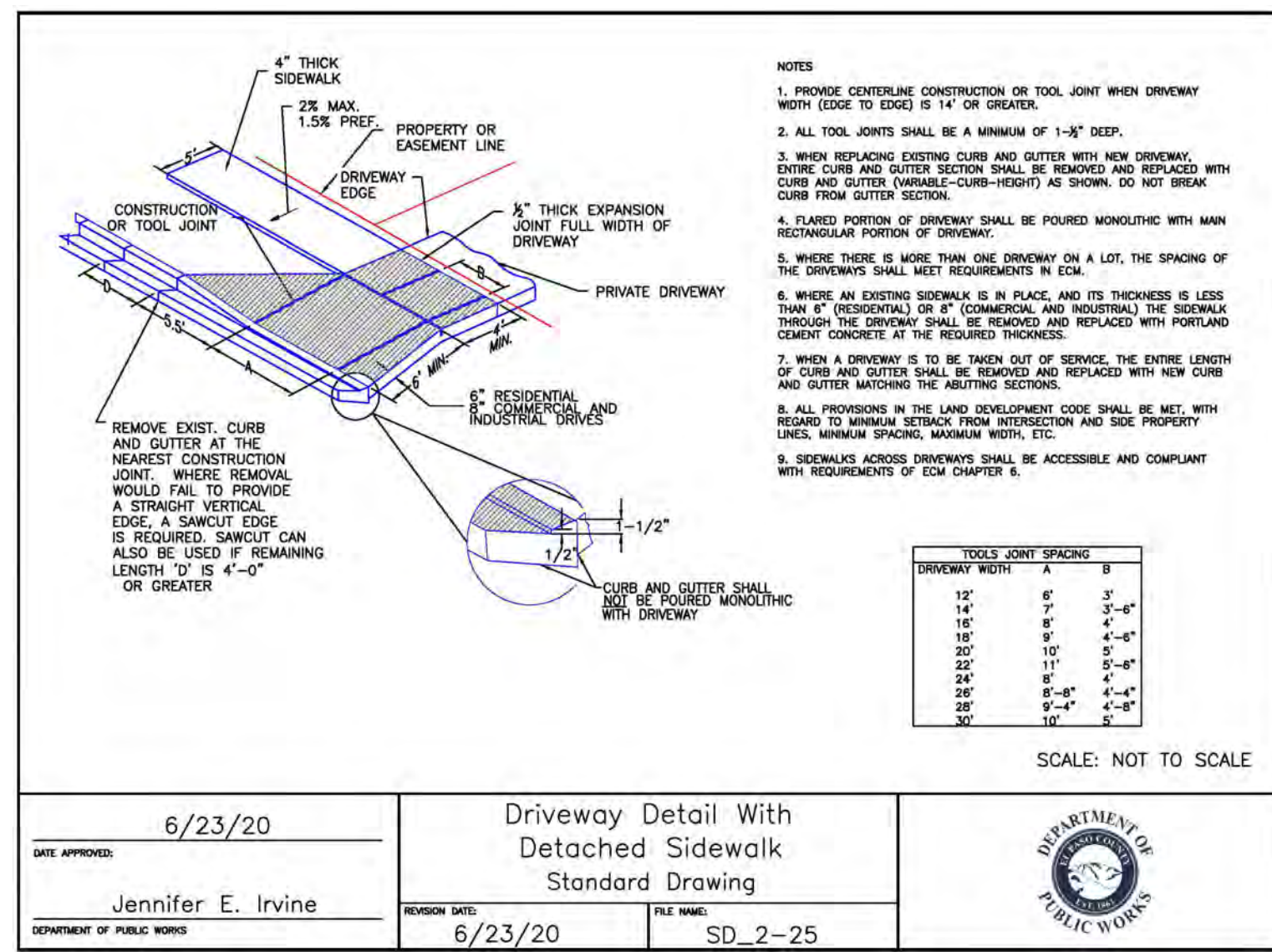
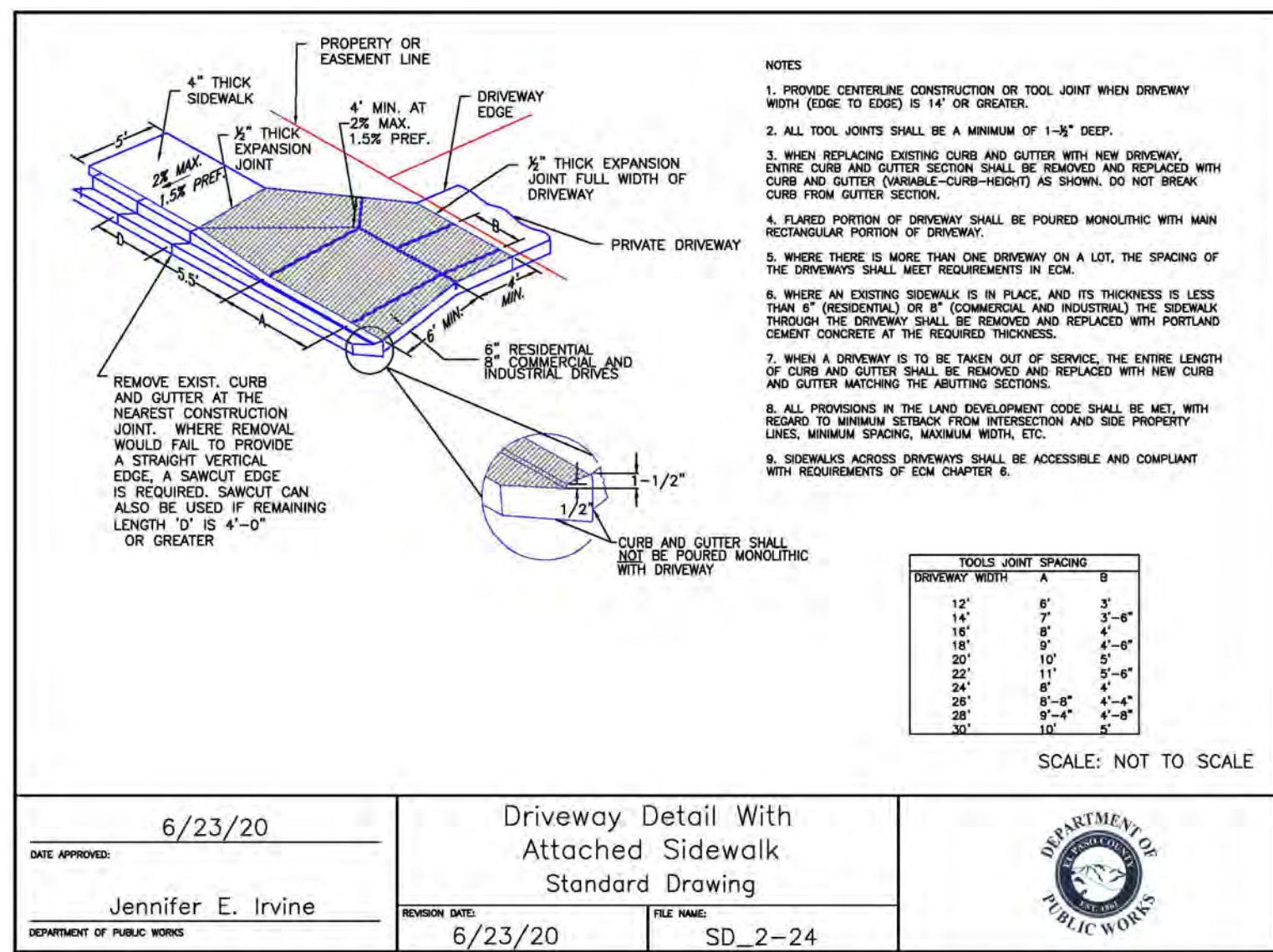
CLASSIC CONSULTING
619 N. Cascade Avenue, Suite 200
Colorado Springs, Colorado 80903
(719) 785-0790
(719) 785-0799 (Fax)

| DESIGNED BY | SCALE | DATE |
|-------------|--------------|-----------------|
| MAL | | 05/21/21 |
| DRAWN BY | (H) 1" = N/A | SHEET 5 OF 31 |
| CHECKED BY | (V) 1" = N/A | JOB NO. 1175.70 |

FOREST LAKES FILING NO. 7
CONSTRUCTION PLANS
GRADING AND EROSION CONTROL PLAN
NOTES & DETAIL SHEET EPC 5/12/2022



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Rolled Erosion Control Products (RECP) EC-6

Table RECP-1. ECTC Standard Specification for Temporary Rolled Erosion Control Products (Adapted from Erosion Control Technology Council 2005)

| Product Description | Slope Applications* | | Channel Applications* | Minimum Tensile Strength ¹ | Expected Longevity |
|---|---------------------|-------------------------|-----------------------------------|---------------------------------------|--------------------|
| | Maximum Gradient | C Factor ^{2,3} | | | |
| Mulch Control Mats | 5:1 (H:V) | <0.10 @ 5:1 | 0.25 lbs/ft ² (12 Pa) | 5 lbs/ft (0.075 kN/m) | Up to 12 months |
| Netless Rolled Erosion Control Blankets | 4:1 (H:V) | <0.10 @ 4:1 | 0.5 lbs/ft ² (24 Pa) | 5 lbs/ft (0.075 kN/m) | |
| Single-net Erosion Control Blankets & Open Weave Textiles | 3:1 (H:V) | <0.15 @ 3:1 | 1.5 lbs/ft ² (72 Pa) | 50 lbs/ft (0.75 kN/m) | |
| Double-net Erosion Control Blankets | 2:1 (H:V) | <0.20 @ 2:1 | 1.75 lbs/ft ² (84 Pa) | 75 lbs/ft (1.09 kN/m) | 24 months |
| Mulch Control Mats | 5:1 (H:V) | <0.10 @ 5:1 | 0.25 lbs/ft ² (12 Pa) | 25 lbs/ft (0.36 kN/m) | |
| Erosion Control Blankets & Open Weave Textiles (slowly degrading) | 1.5:1 (H:V) | <0.25 @ 1.5:1 | 2.00 lbs/ft ² (96 Pa) | 100 lbs/ft (1.45 kN/m) | 24 months |
| Erosion Control Blankets & Open Weave Textiles | 1:1 (H:V) | <0.25 @ 1:1 | 2.25 lbs/ft ² (108 Pa) | 125 lbs/ft (1.82 kN/m) | 36 months |

* C Factor and shear stress for mulch control matting must be obtained with netting used in conjunction with pre-applied mulch material. (See Section 5.3 of Chapter 7 Construction BMPs for more information on the C Factor.)

¹ Minimum Average Roll Values, Machine direction using ECTC Mod. ASTM D 5035.

² C Factor calculated as ratio of soil loss from RECP protected slope (tested at specified or greater gradient, H:V) to ratio of soil loss from unprotected (control) plot in large-scale testing.

³ Required minimum shear stress RECP (vegetated) can sustain without physical damage or excess erosion (> 12.7 mm (0.5 in) soil loss) during a 30-minute flow event in large-scale testing.

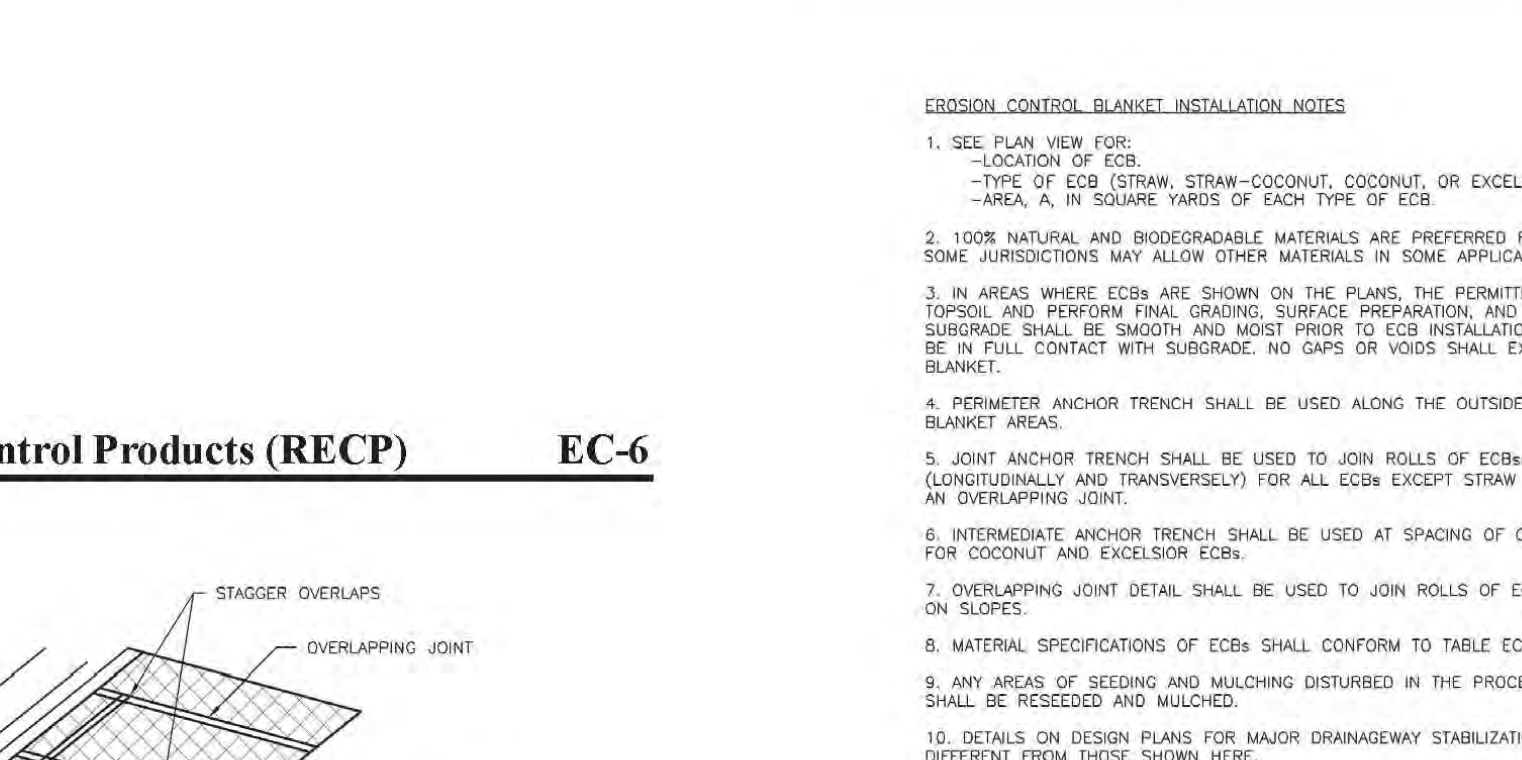
⁴ The permissible shear stress levels established for each performance category are based on historical experience with products characterized by Manning's roughness coefficients in the range of 0.01 - 0.05.

⁵ Acceptable large-scale test methods may include ASTM D 6459, or other independent testing deemed acceptable by the engineer.

⁶ Per the engineer's discretion, recommended acceptable large-scale testing protocol may include ASTM D 6460, or other independent testing deemed acceptable by the engineer.

November 2010 Urban Drainage and Flood Control District RECP-3
Urban Storm Drainage Criteria Manual Volume 3

EC-6 Rolled Erosion Control Products (RECP)



November 2010 Urban Drainage and Flood Control District RECP-7
Urban Storm Drainage Criteria Manual Volume 3

TABLE ECB-1. ECB MATERIAL SPECIFICATIONS

| TYPE | COCONUT CONTENT | STRAW CONTENT | EXCELSIOR CONTENT | RECOMMENDED NETTING** |
|---------------|-----------------|---------------|-------------------|-----------------------|
| STRAW* | - | 100% | - | DOUBLE/NATURAL |
| STRAW-COCONUT | 30% MIN | 70% MAX | - | DOUBLE/NATURAL |
| COCONUT | 100% | - | - | DOUBLE/NATURAL |
| EXCELSIOR | - | - | 100% | DOUBLE/NATURAL |

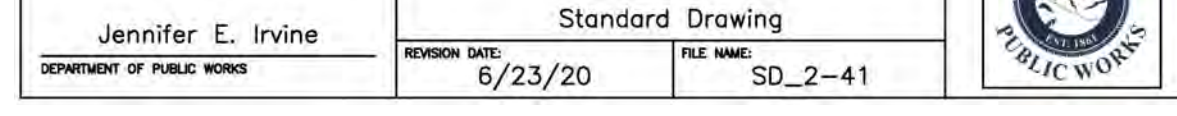
* STRAW USED MUST BE OF THE STRAW TYPE OF STRAW AND NOT WOOD CHIPS. ** MULTIPLE NETTING MAY BE REQUIRED IN SOME JURISDICTIONS.

STAKING PATTERNS BY ECB TYPE

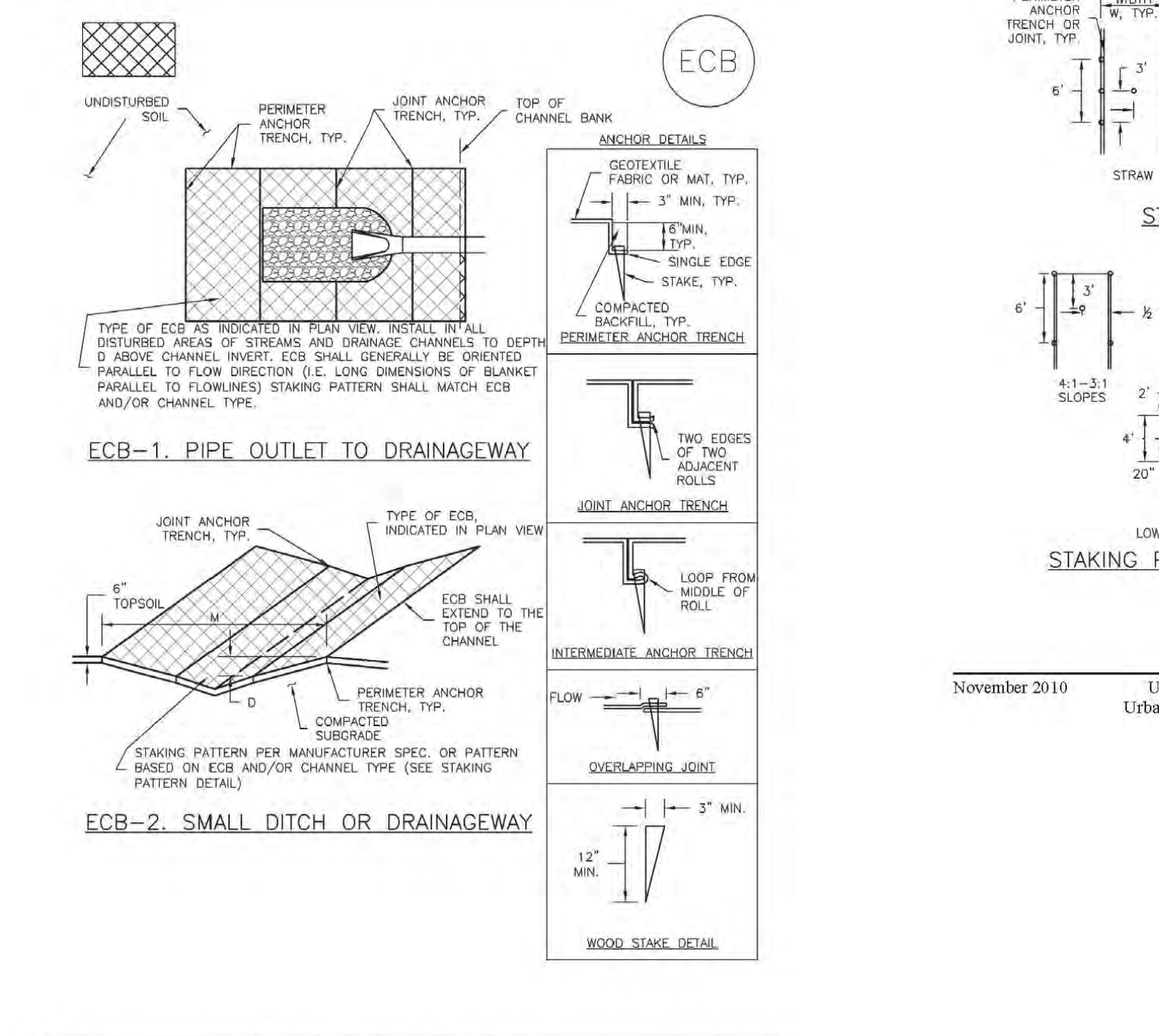
STAKING PATTERNS BY SLOPE OR CHANNEL TYPE

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Urban Storm Drainage Criteria Manual Volume 3

Pedestrian Curb Ramp Detail Standard Drawing



EC-6 Rolled Erosion Control Products (RECP)



November 2010 Urban Drainage and Flood Control District RECP-6
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Rolled Erosion Control Products (RECP) EC-6



November 2010 Urban Drainage and Flood Control District RECP-7
Urban Storm Drainage Criteria Manual Volume 3

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| NO. | REVISION | DATE |
|-----|----------|------|
| | | |

REVIEW:

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

KYLE R. CAMPBELL, P.E. #29794

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10/23/2023
SF-21-49

03/31/22

DATE

PCD FILE # SF-21-49

FOREST LAKES FILING NO. 7
CONSTRUCTION PLANS
GRADING AND EROSION CONTROL PLAN
DETAIL SHEET EPC 5/12/2022

DESIGNED BY MAL SCALE DATE 05/21/21

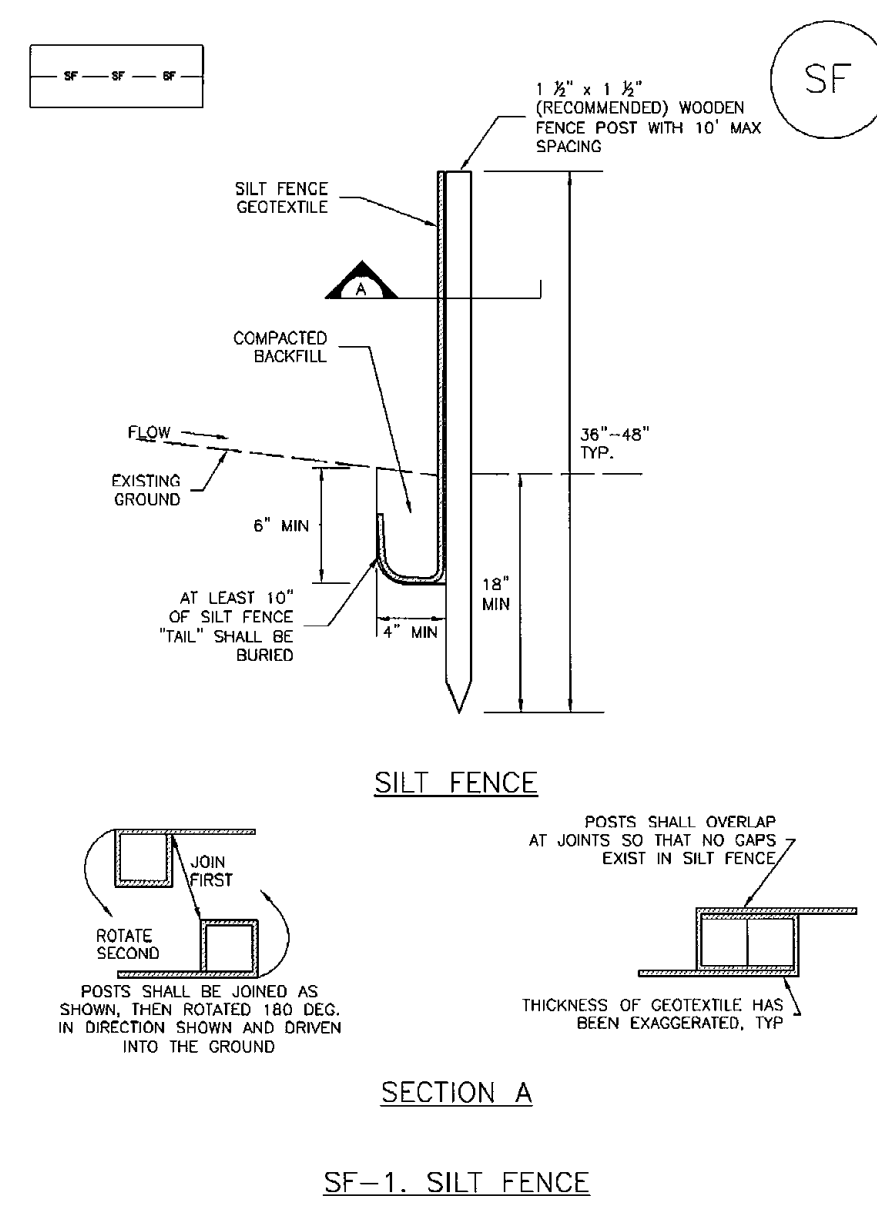
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CHECKED BY (V) 1"= N/A JOB NO. 1175.70

CLASSIC CONSULTING

619 N. Cascade Avenue, Suite 200 (719)785-0790
Colorado Springs, Colorado 80903 (719)785-0799(Fax)

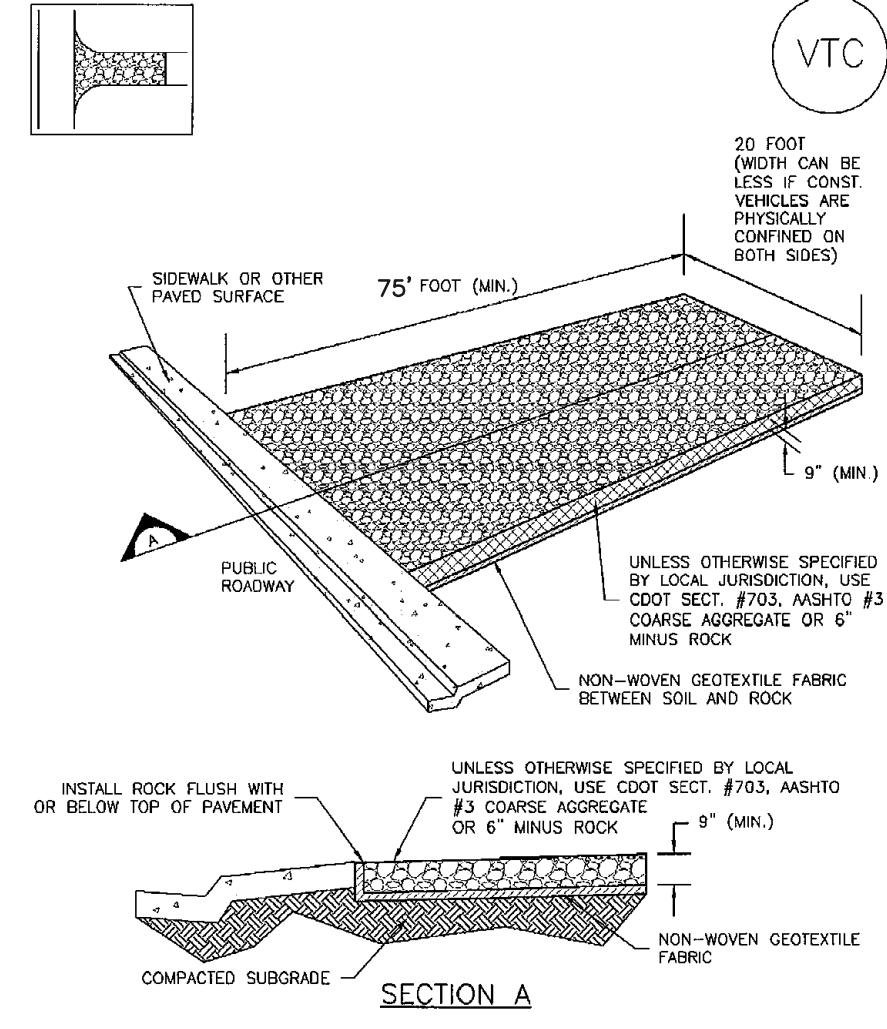
Silt Fence (SF) SC-1



SF-1. SILT FENCE

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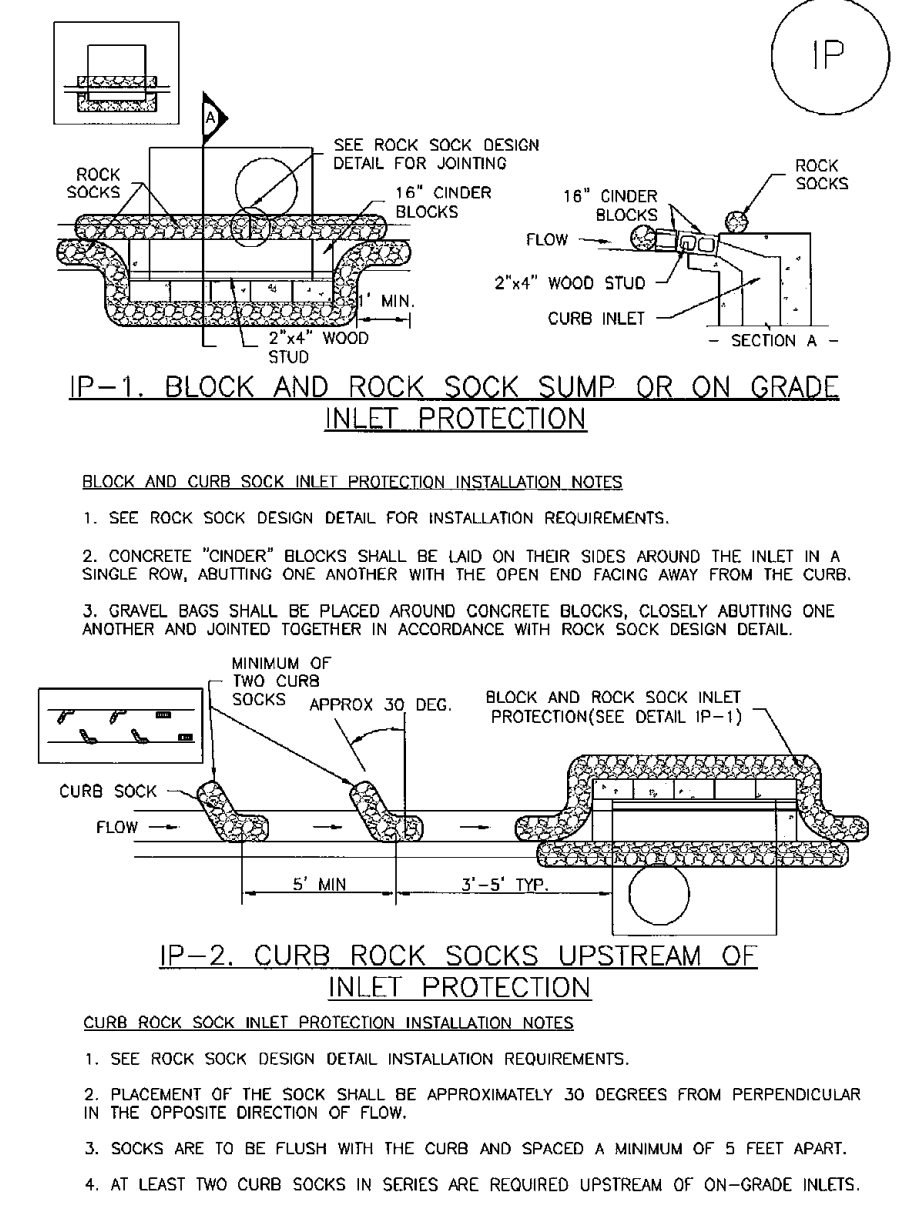
Vehicle Tracking Control (VTC) SM-4



VTC-1. AGGREGATE VEHICLE TRACKING CONTROL

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 VTC-3

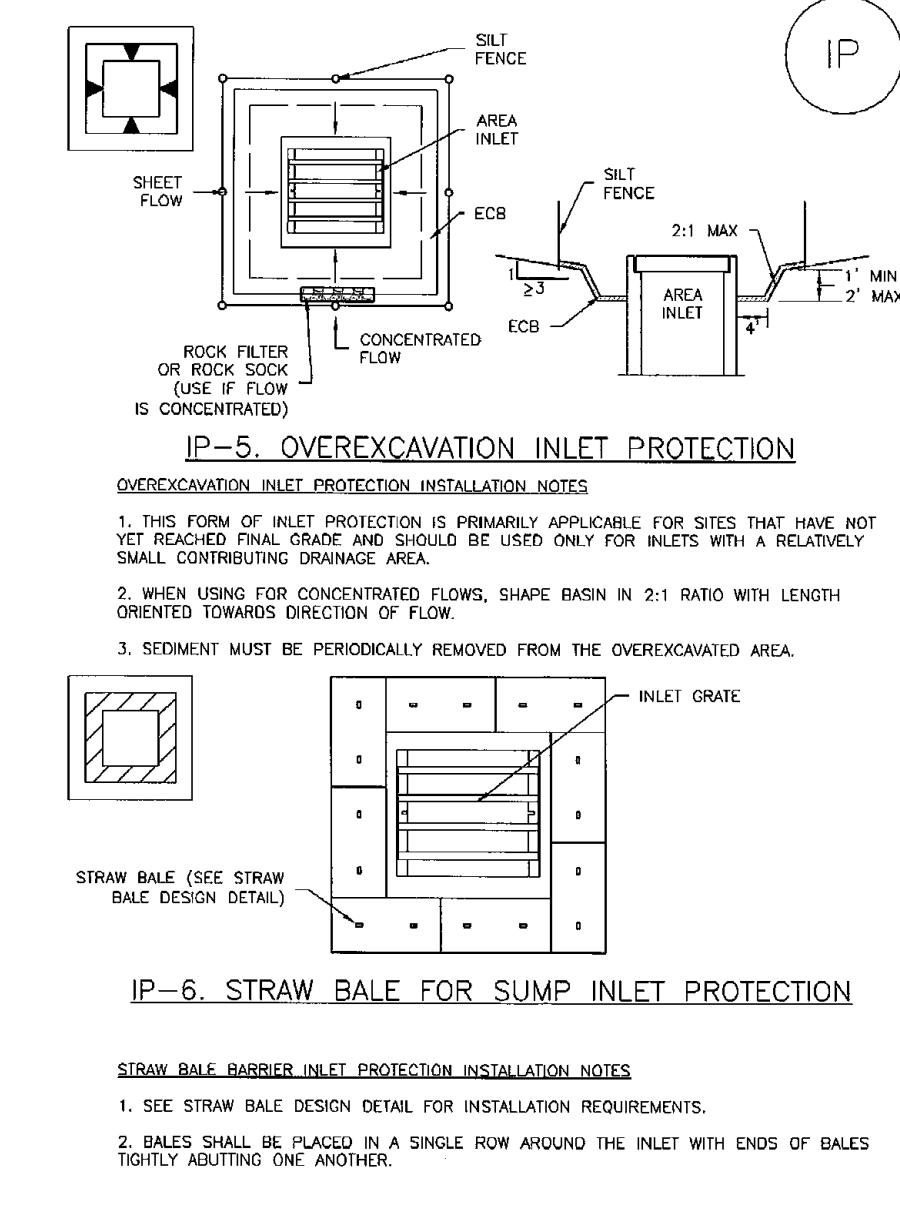
SC-6 Inlet Protection (IP)



IP-1. BLOCK AND ROCK SOCK SUMP OR ON GRADE INLET PROTECTION
IP-2. CURB ROCK SOCKS UPSTREAM OF INLET PROTECTION

IP-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 August 2013

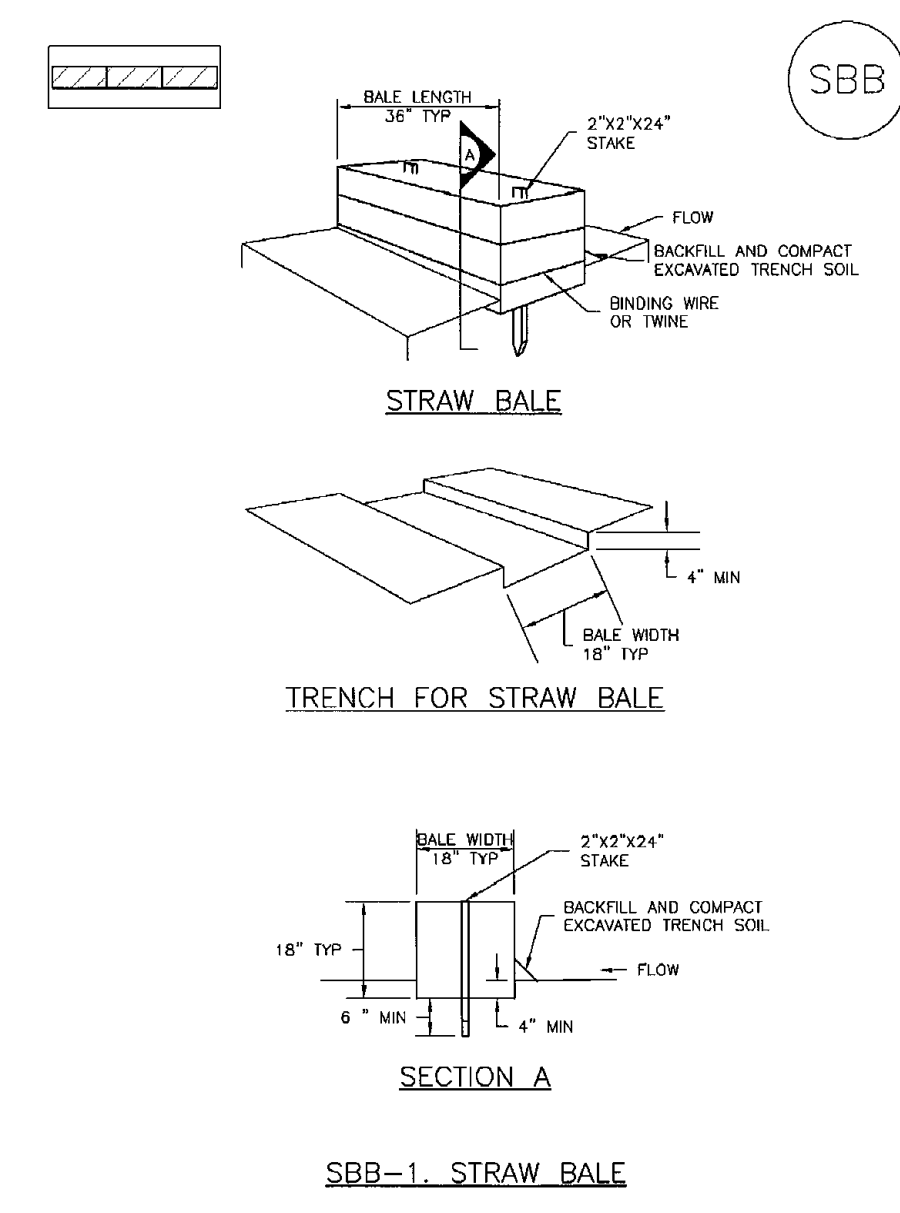
SC-6 Inlet Protection (IP)



IP-5. OVEREXCAVATION INLET PROTECTION
IP-6. STRAW BALE FOR SUMP INLET PROTECTION

IP-6 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 August 2013

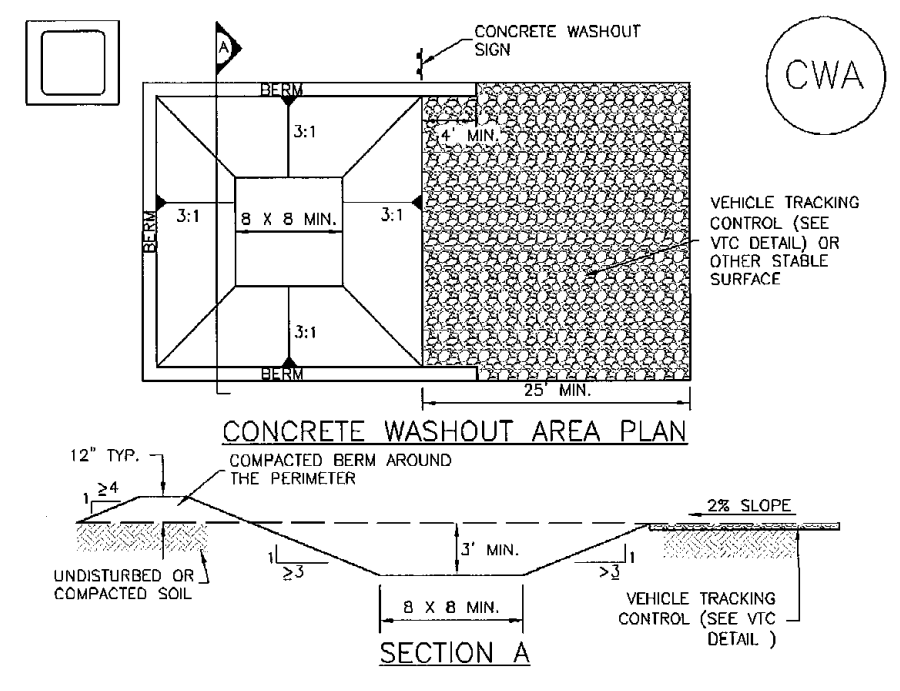
SC-3 Straw Bale Barrier (SBB)



SBB-1. STRAW BALE

SBB-2 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Concrete Washout Area (CWA) MM-1



CWA-1. CONCRETE WASHOUT AREA

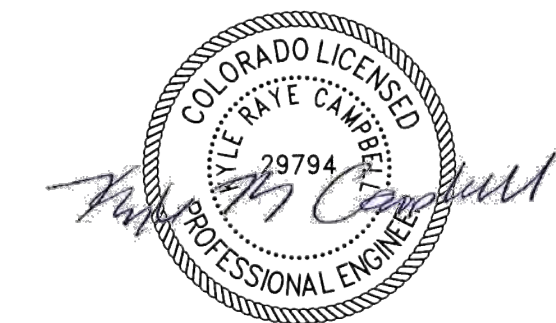
CWA INSTALLATION NOTES
1. SEE PLAN VIEW FOR: -CWA INSTALLATION LOCATION.
2. DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 1,000' OF ANY WELLS OR DRINKING WATER SOURCES. IF SITE CONSTRAINTS MAKE THIS UNFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (6 IN. MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE ARE SHOULD BE USED.
3. THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
4. CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8' SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER THE PIT SHALL BE AT LEAST 3' DEEP.
5. BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE MINIMUM HEIGHT OF 1'.
6. VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.
7. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP TRUCKS.
8. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

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MM-1 Concrete Washout Area (CWA)

CWA MAINTENANCE NOTES
1. INSPECT BEMPS EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BEMPS SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BEMPS AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BEMPS IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. WHERE BEMPS HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
4. THE CWA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS, ACCUMULATED IN PIT, SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2'.
5. CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.
6. THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
7. WHEN THE CWA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED AND MULCH OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.
(DETAIL ADAPTED FROM DOUGLAS COUNTY, COLORADO AND THE CITY OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM USDCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

CWA-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

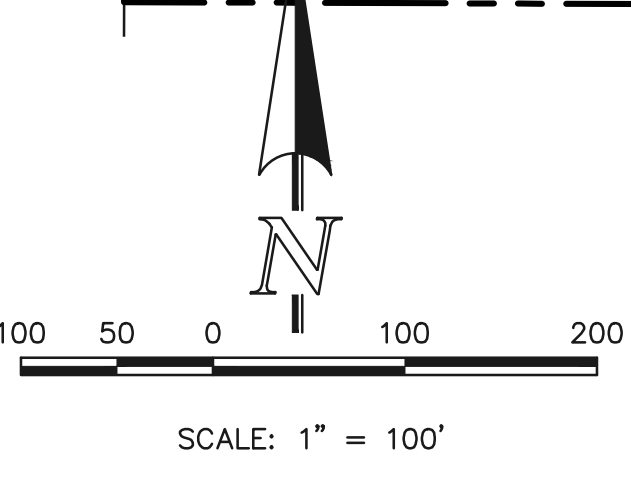
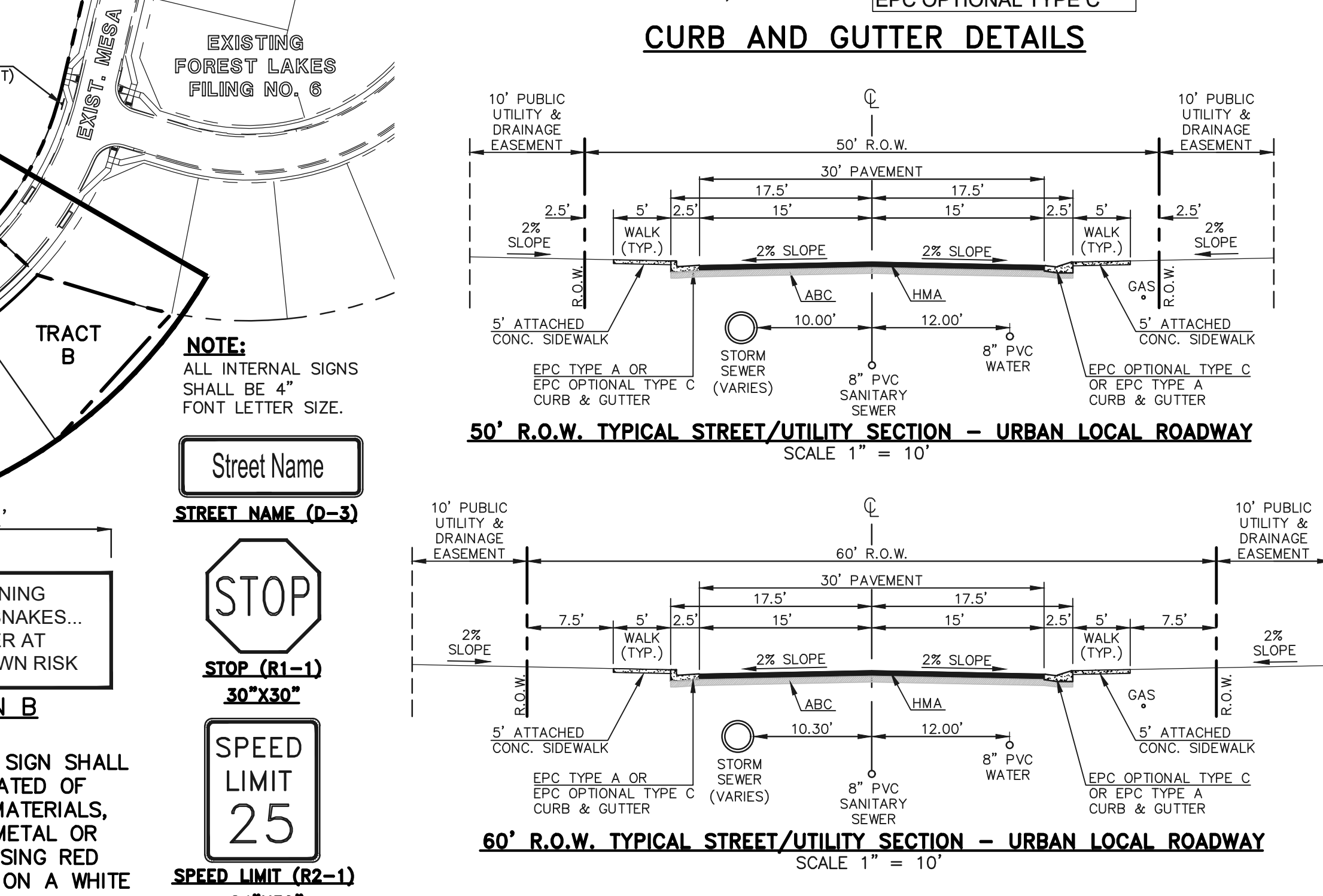
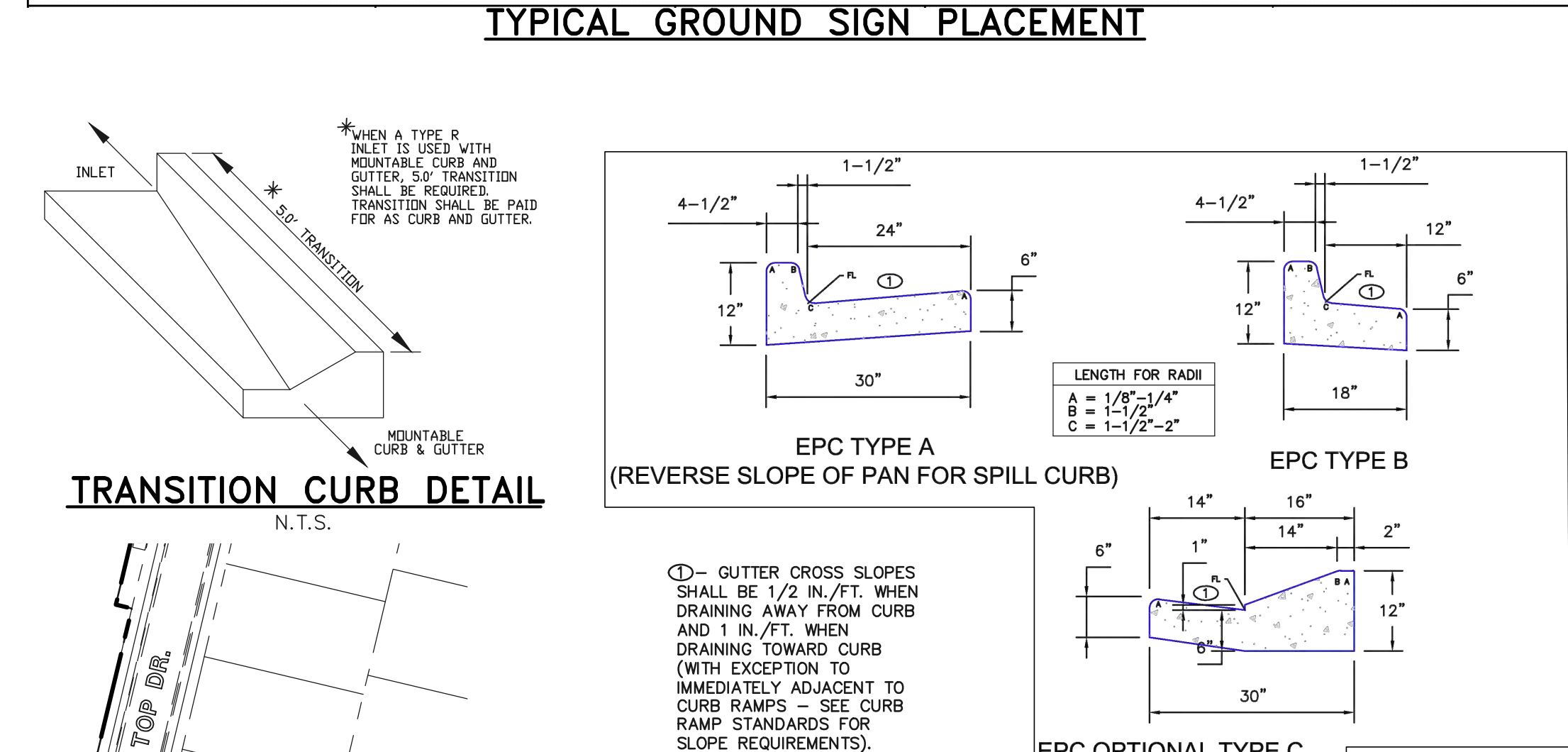
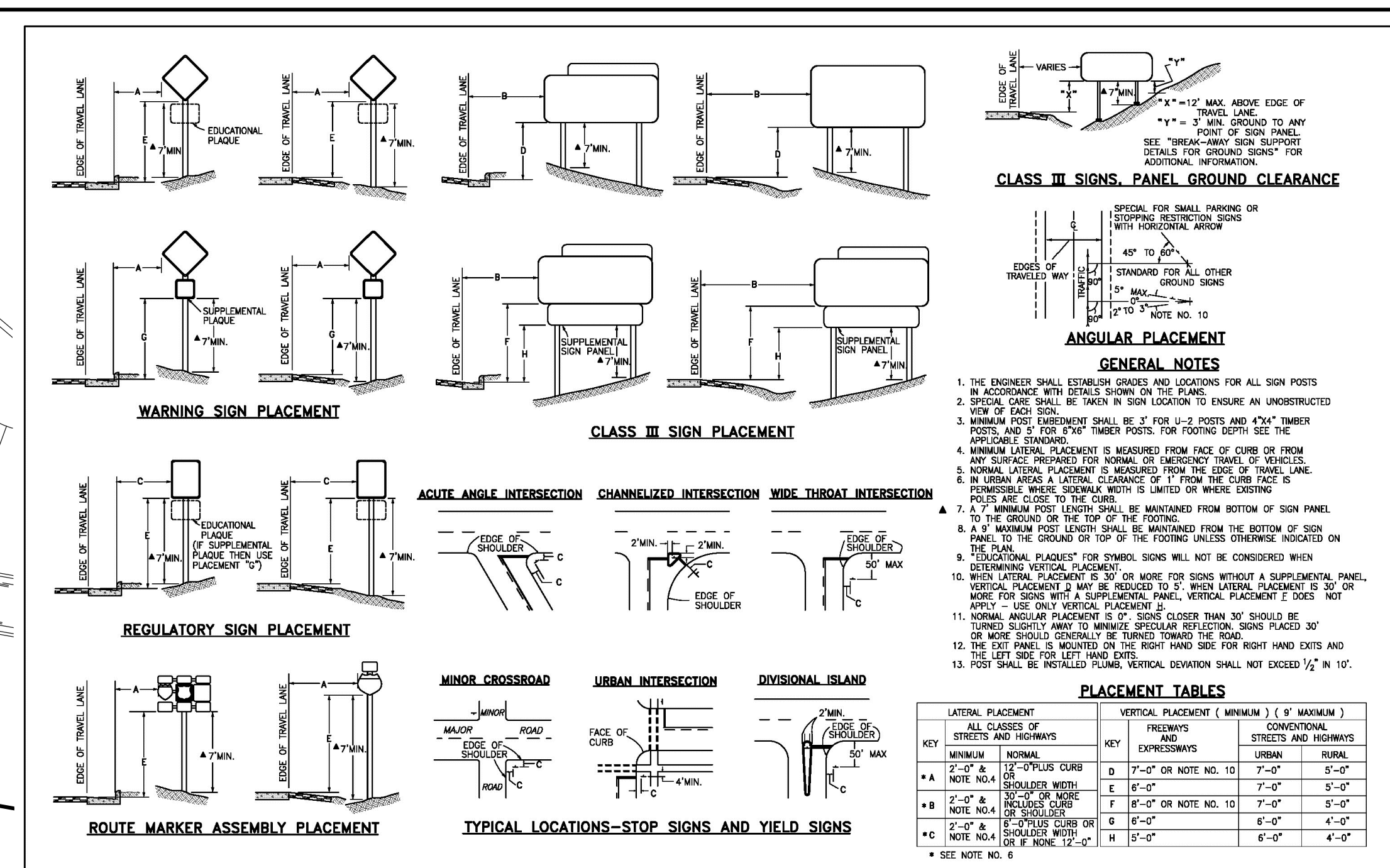
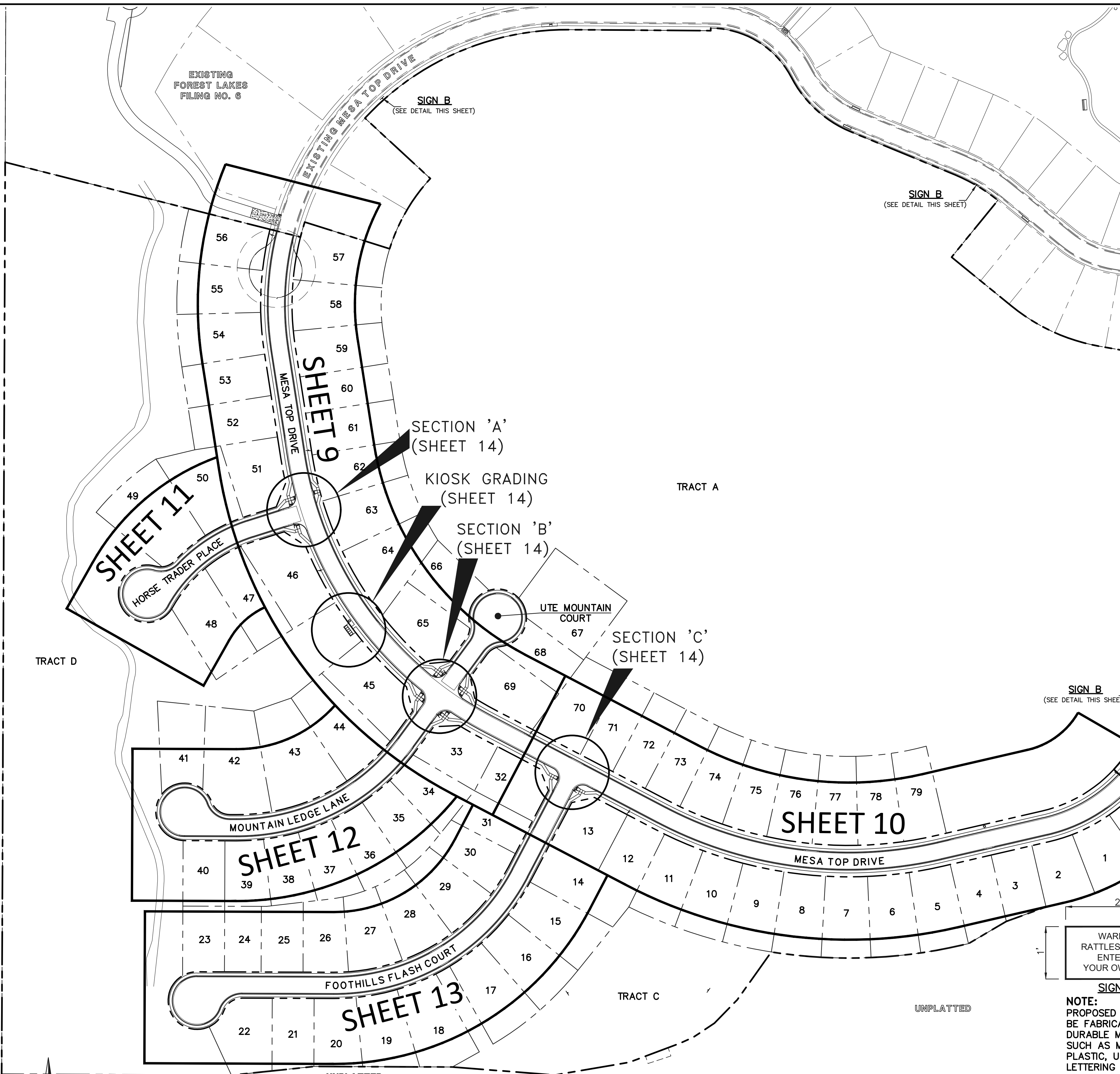


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SF-21-49

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|---|---------------------------------|---|--|---|--|
| <p>48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS 811 UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW</p> <p>THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.</p> | <p>NO. REVISION</p> <p>DATE</p> | <p>REVIEW:</p> <p>PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC</p> <p>KYLE R. CAMPBELL PROFESSIONAL ENGINEER P.E. #29794</p> | <p>DESIGNED BY MAL</p> <p>DRAWN BY MES</p> <p>CHECKED BY</p> | <p>FOREST LAKES FILING NO. 7 CONSTRUCTION PLANS GRADING AND EROSION CONTROL PLAN EROSION CONTROL DETAILS EPC 5/12/2022</p> <p>DATE 05/21/21</p> <p>SHEET 7 OF 31</p> <p>JOB NO. 1175.70</p> | <p>CLASSIC CONSULTING</p> <p>619 N. Cascade Avenue, Suite 200 Colorado Springs, Colorado 80903</p> <p>(719)785-0790 (719)785-0799(Fax)</p> |
| | <p>DATE 03/31/22</p> | <p>DATE 03/31/22</p> | <p>DATE 03/31/22</p> | <p>DATE 03/31/22</p> | <p>DATE 03/31/22</p> |

PCD FILE # SF-21-49

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AS-BUILTS
10/23/2023
SF-21-49

ABBREVIATIONS:
EPC EL PASO COUNTY
FL POLYVINYL CHLORIDE PIPE
R.O.W. RIGHT-OF-WAY
HMA HOT MIX ASPHALT
ABC AGGREGATE BASE COURSE
CONC. CONCRETE
STA. STATION
C&G CURB & GUTTER
MIN. MINIMUM
FL FLOWLINE
TYP. TYPICAL
I.F.O.B. INSIDE FACE OF BOX

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| NO. | REVISION | DATE |
|-----|----------|------|
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REVIEW:
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

CLASSIC CONSULTING
KYLE R. CAMPBELL, P.E. #29794

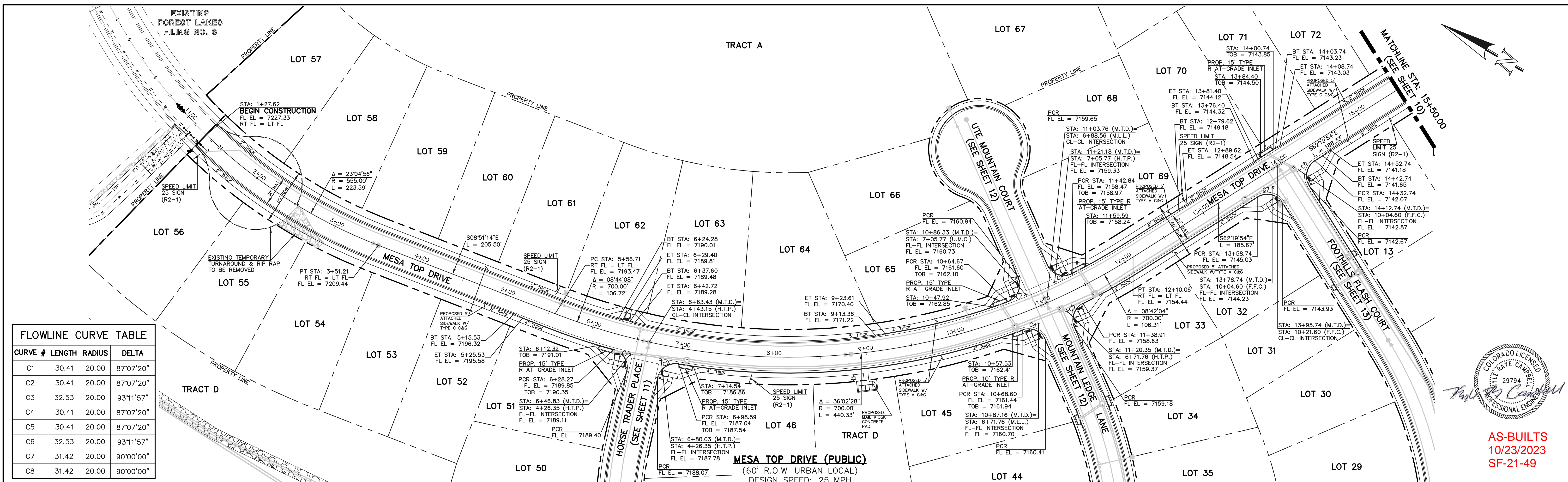
03/31/22
DATE

PCD FILE # SF-21-49

CLASSIC CONSULTING

FOREST LAKES FILING NO. 7
PUBLIC STREET IMPROVEMENT PLAN
KEY MAP WITH TYPICAL STREET SECTIONS
EPC 5/12/2022

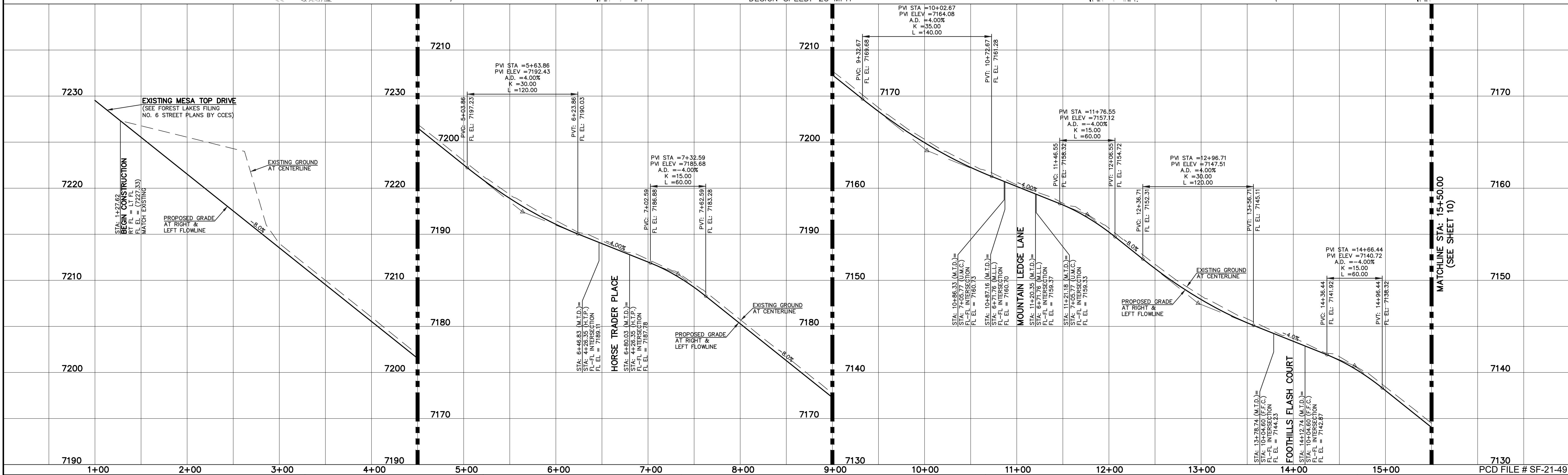
| | | | | |
|-------------|--------------|---------------|---------|----------|
| DESIGNED BY | MAL | SCALE | DATE | 05/21/21 |
| DRAWN BY | MES | (H) 1" = 100' | SHEET | 8 OF 31 |
| CHECKED BY | (V) 1" = N/A | JOB NO. | 1175.70 | |



| FLOWLINE CURVE TABLE | | | |
|----------------------|--------|--------|-----------|
| CURVE # | LENGTH | RADIUS | DELTA |
| C1 | 30.41 | 20.00 | 87°07'20" |
| C2 | 30.41 | 20.00 | 87°07'20" |
| C3 | 32.53 | 20.00 | 93°11'57" |
| C4 | 30.41 | 20.00 | 87°07'20" |
| C5 | 30.41 | 20.00 | 87°07'20" |
| C6 | 32.53 | 20.00 | 93°11'57" |
| C7 | 31.42 | 20.00 | 90°00'00" |
| C8 | 31.42 | 20.00 | 90°00'00" |



AS-BUILTS
10/23/2023
SF-21-49



| LEGEND | |
|---------------|-----|
| BOUNDARY LINE | --- |
| ROW LINE | --- |
| LOT LINE | --- |
| CURB & GUTTER | --- |
| PED RAMP | ▭ |
| LIGHT POLE | ☆ |
| SIGN | ▲ |
| TYPE R INLET | ▭ |

| STREET ABBREVIATION INDEX | |
|---------------------------|-----------------------|
| M.T.D. | MESA TOP DRIVE |
| H.T.P. | HORSE TRADER PLACE |
| M.L.L. | MOUNTAIN LEDGE LANE |
| U.M.C. | UTE MOUNTAIN COURT |
| F.F.C. | FOOTHILLS FLASH COURT |

WALK CONSTRUCTION:
4" THICK SIDEWALK ALLOWED ALONG OPEN SPACE TRACTS & 'ESTATE LOT' FRONTAGE. 5" THICK SIDEWALK TYPICAL ALONG RESIDENTIAL LOTS PER EL PASO COUNTY DIRECTION. 6" REQUIRED AT DRIVEWAY CONNECTIONS PER DETAILS SD 2-24 & SD 2-25 ON SHEET 6. WALK NOT INSTALLED AT 6" THICKNESS WILL BE RE-CONSTRUCTED WITH DRIVEWAY PERMIT AND INSTALLATION AS REQUIRED.

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KYLE R. CAMPBELL
P.E. #29794
03/31/22



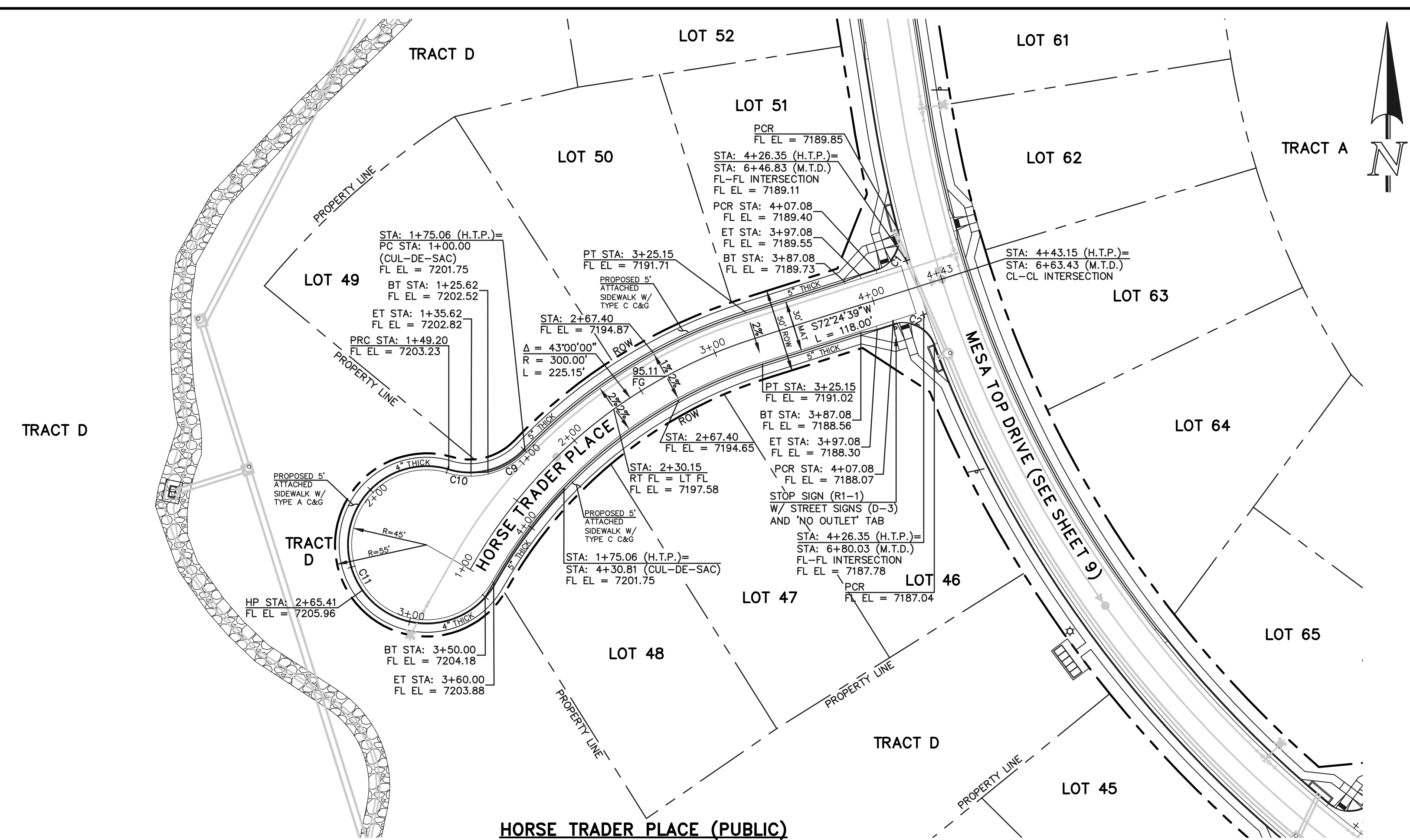
| FOREST LAKES FILING NO. 7 PUBLIC STREET IMPROVEMENT PLAN | | | |
|---|-------------|--------------|---------------|
| MESA TOP DRIVE STA: 1+00.00 - 15+50.00 EPC 5/12/2022 | | | |
| DESIGNED BY | MAL | SCALE | DATE 05/21/21 |
| DRAWN BY | MES | (H) 1" = 50' | SHEET 9 OF 31 |
| CHECKED BY | (V) 1" = 5' | JOB NO. | 1175.70 |

N:\117570\DRAWINGS\CONSTRUCTION\STREETS\09-117570-SI-02.dwg, 3/31/2022 12:22:36 PM, 1:1

UNPLATTED FOREST SERVICE DEPT. OF AGRICULTURE UNITED STATES OF AMERICA

| FLOWLINE CURVE TABLE | | | |
|----------------------|--------|--------|------------|
| CURVE # | LENGTH | RADIUS | DELTA |
| C1 | 30.41 | 20.00 | 87°07'20" |
| C2 | 30.41 | 20.00 | 87°07'20" |
| C9 | 26.09 | 45.83 | 32°37'16" |
| C10 | 13.58 | 45.00 | 17°17'24" |
| C11 | 200.80 | 47.00 | 244°47'21" |

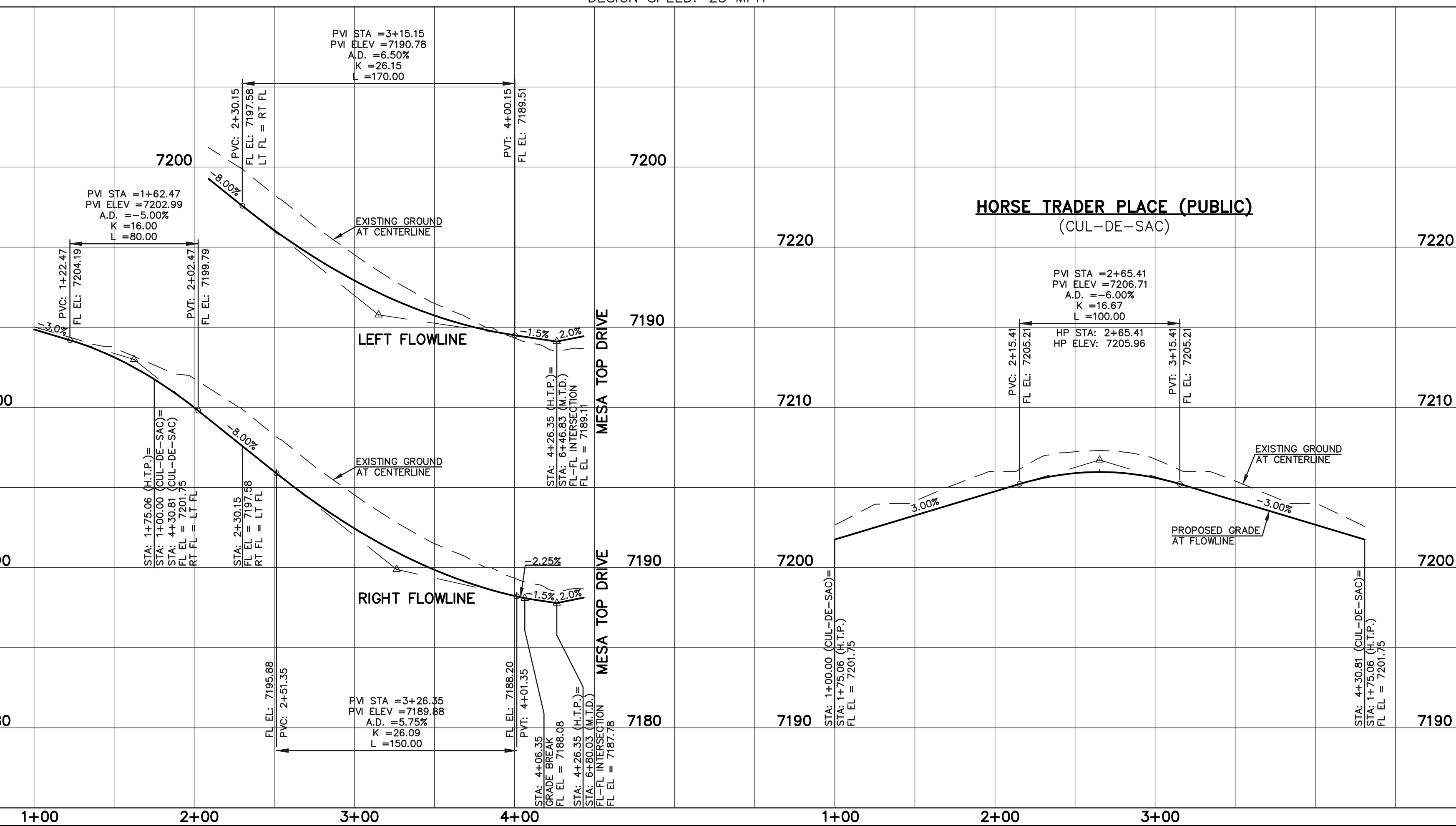
BOUNDARY LINE



HORSE TRADER PLACE (PUBLIC)
(50' R.O.W. URBAN LOCAL)
DESIGN SPEED: 25 MPH



AS-BUILTS
10/23/2023
SF-21-49



PCD FILE # SF-21-49

LEGEND

| | |
|---------------|-----|
| BOUNDARY LINE | --- |
| ROW LINE | --- |
| LOT LINE | --- |
| CURB & GUTTER | --- |
| PED RAMP | ▭ |
| LIGHT POLE | ☆ |
| SIGN | ▲ |
| TYPE R INLET | ▭ |

STREET ABBREVIATION INDEX

| | |
|--------|-----------------------|
| M.T.D. | MESA TOP DRIVE |
| H.T.P. | HORSE TRADER PLACE |
| M.L.L. | MOUNTAIN LEDGE LANE |
| U.M.C. | UTE MOUNTAIN COURT |
| F.F.C. | FOOTHILLS FLASH COURT |

50 25 0 50 100
SCALE: 1" = 50' HORIZ./5' VERT.

WALK CONSTRUCTION:

4" THICK SIDEWALK ALLOWED ALONG OPEN SPACE TRACTS & 'ESTATE LOT' FRONTAGE. 5" THICK SIDEWALK TYPICAL ALONG RESIDENTIAL LOTS PER EL PASO COUNTY DIRECTION. 6" REQUIRED AT DRIVEWAY CONNECTIONS PER DETAILS SD 2-24 & SD 2-25 ON SHEET 6. WALK NOT INSTALLED AT 6" THICKNESS WILL BE RE-CONSTRUCTED WITH DRIVEWAY PERMIT AND INSTALLATION AS REQUIRED.

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REVIEW:

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KYLE R. CAMPBELL, P.E. #29794

03/31/22



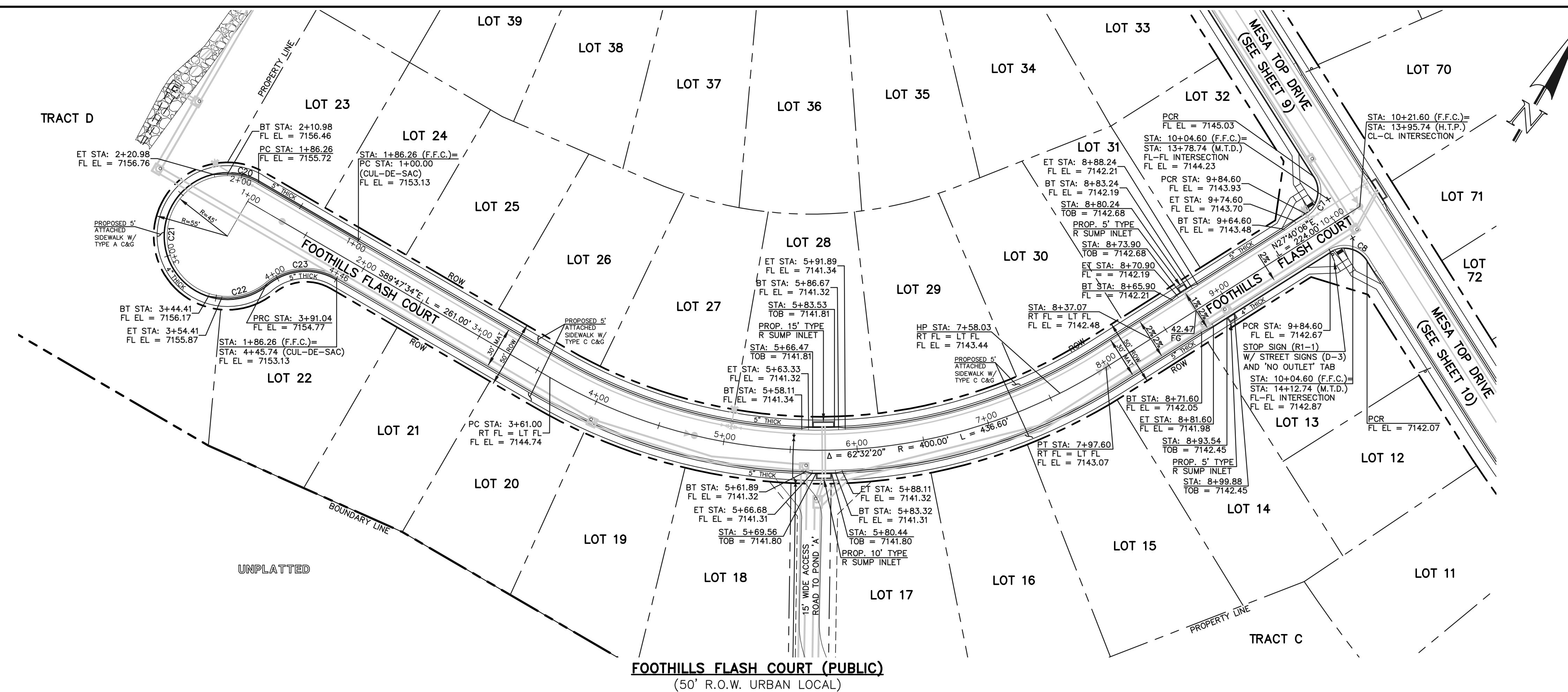
FOREST LAKES FILING NO. 7
PUBLIC STREET IMPROVEMENT PLAN
HORSE TRADER PLACE

EPC 5/12/2022

| | | | | |
|-------------|-------------|--------------|---------|----------|
| DESIGNED BY | MAL | SCALE | DATE | 05/21/21 |
| DRAWN BY | MES | (H) 1" = 50' | SHEET | 11 OF 31 |
| CHECKED BY | (V) 1" = 5' | JOB NO. | 1175.70 | |

N:\117570\DRAWINGS\CONSTRUCTION\STREETS\1-117570-S-04.dwg, 3/31/2022 12:24:18 PM, 1:1

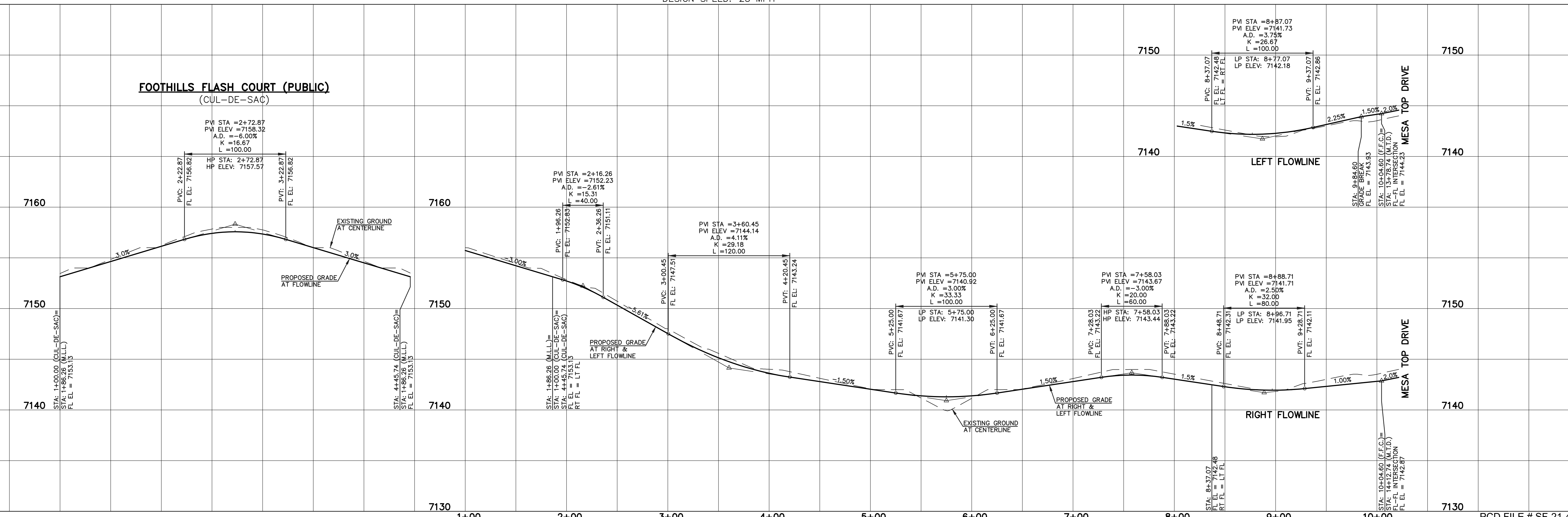
| FLOWLINE CURVE TABLE | | | |
|----------------------|--------|--------|------------|
| CURVE # | LENGTH | RADIUS | DELTA |
| C7 | 31.42 | 20.00 | 90°00'00" |
| C8 | 31.42 | 20.00 | 90°00'00" |
| C20 | 24.29 | 46.17 | 30°08'46" |
| C21 | 123.42 | 47.00 | 150°27'40" |
| C22 | 35.99 | 46.17 | 44°39'26" |
| C23 | 55.71 | 45.83 | 69°38'44" |



AS-BUILTS
10/23/2023
SF-21-49

FOOTHILLS FLASH COURT (PUBLIC)
(50' R.O.W. URBAN LOCAL)
DESIGN SPEED: 25 MPH

FOOTHILLS FLASH COURT (PUBLIC)
(CUL-DE-SAC)



LEGEND

- BOUNDARY LINE: ---
- ROW LINE: - - - -
- LOT LINE: - - - -
- CURB & GUTTER: = = = =
- PED RAMP: [Symbol]
- LIGHT POLE: [Symbol]
- SN: [Symbol]
- TYPE R INLET: [Symbol]

STREET ABBREVIATION INDEX

- M.T.D. MESA TOP DRIVE
- H.T.P. HORSE TRADER PLACE
- M.L.L. MOUNTAIN LEDGE LANE
- U.M.C. UTE MOUNTAIN COURT
- F.F.C. FOOTHILLS FLASH COURT

WALK CONSTRUCTION:
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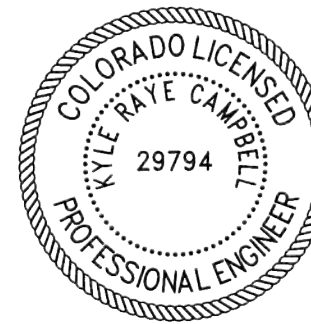
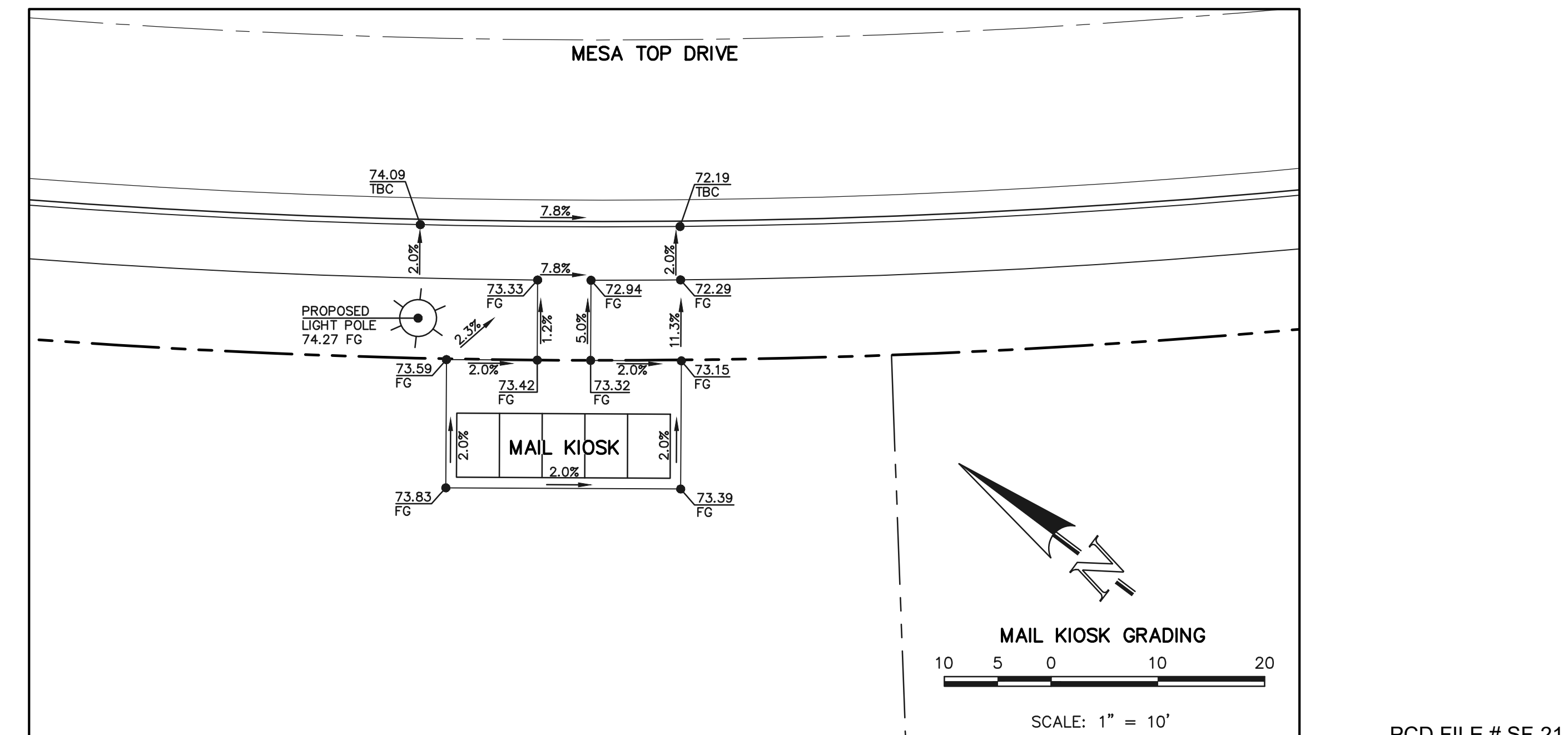
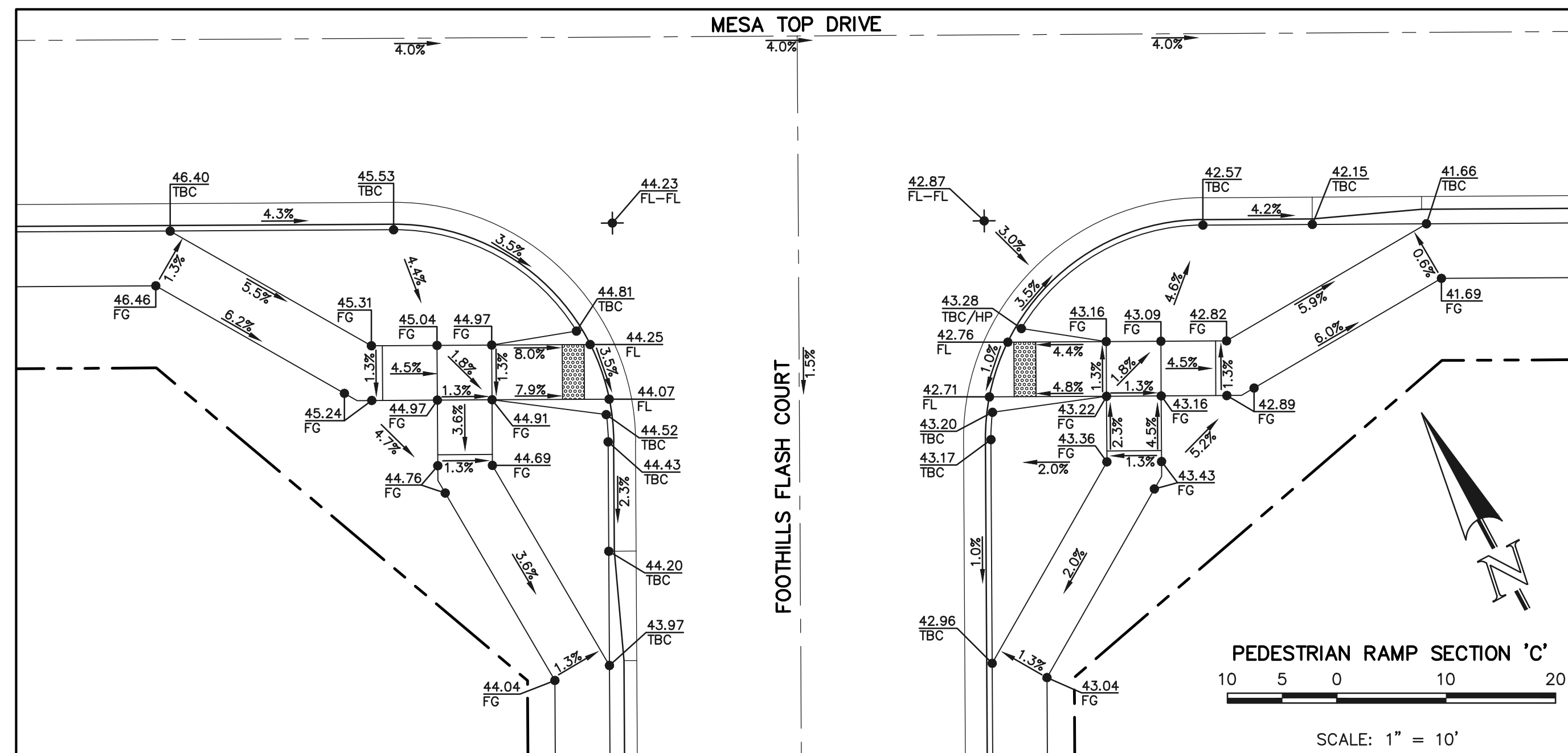
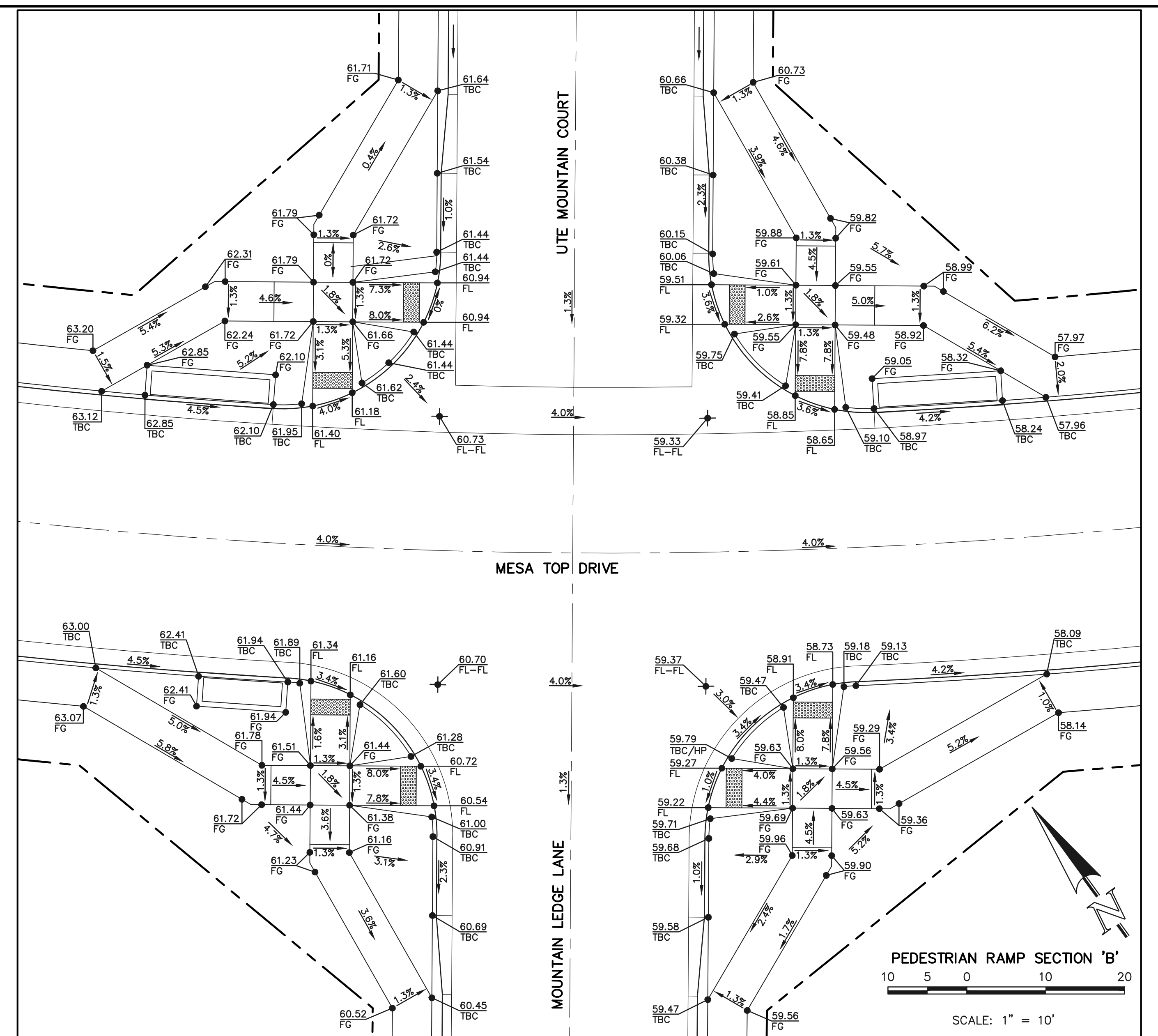
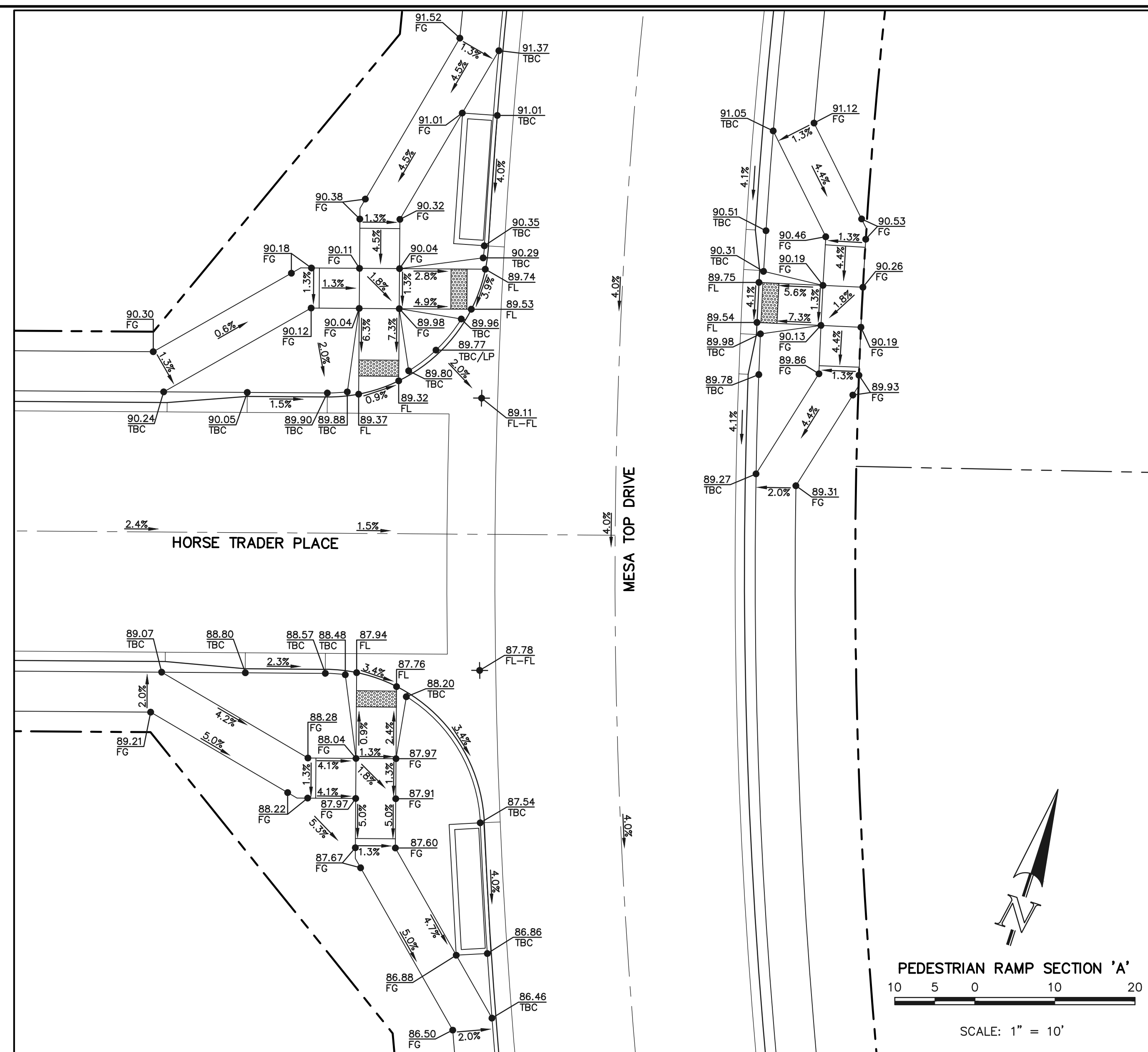
REVIEW:
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC
KYLE R. CAMPBELL, P.E. #29794
DATE: 03/31/22



FOREST LAKES FILING NO. 7
PUBLIC STREET IMPROVEMENT PLAN
FOOTHILLS FLASH COURT
EPC 5/12/2022
DESIGNED BY: MAL SCALE: DATE: 05/21/21
DRAWN BY: MES (H) 1" = 50' SHEET 13 OF 31
CHECKED BY: (V) 1" = 5' JOB NO. 1175.70



N:\117570\DRAWINGS\CONSTRUCTION\STREETS\13-117570-SI-06.dwg, 3/31/2022, 12:26:01 PM, 1:1



AS-BUILTS
10/23/2023
SF-21-49

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Kyle R. Campbell
KYLE R. CAMPBELL, P.E. #29794

03/31/22
DATE



FOREST LAKES FILING NO. 7
PUBLIC STREET IMPROVEMENT PLAN
PEDESTRIAN RAMP DESIGN
EPC 5/12/2022

| | | | | |
|-------------|-----|--------------|---------|----------|
| DESIGNED BY | MES | SCALE | DATE | 05/21/21 |
| DRAWN BY | MES | (H) 1" = 10' | SHEET | 14 OF 31 |
| CHECKED BY | (V) | 1" = N/A | JOB NO. | 1175.70 |

PCD FILE # SF-21-49

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American Revolution LED Series 247L

PRODUCT OVERVIEW



Features:

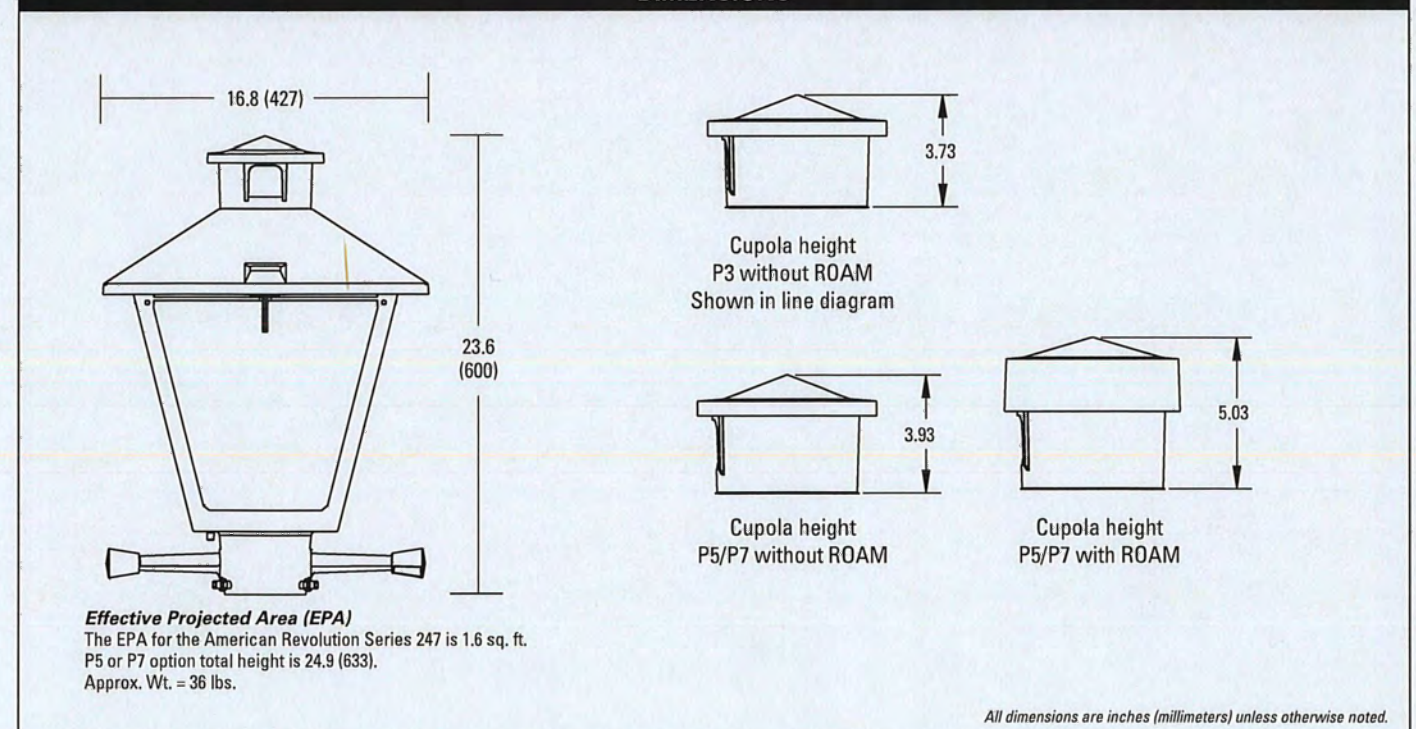
- Die-cast aluminum housing and hood for long-life performance
- Die-cast trigger latch (TL) and captive thumb screws option available for easy access to internal components
- Optical assembly designed for maximum performance, available in Type II, Type III and Type V
- Hinged hood and captive thumb screws provision afford quick, easy access to electrical and optical area for servicing
- Slipfitter with three set screws allows secure installation to pole sizes 2-3/8" or 3" O.D.
- Surge protection device (standard) exceeds ANSI C62.41 Category C1 criteria (surge tested at 10kV/5kA)
- Complies with ANSI: C136.2, C136.10, C136.15
- CSA listed and suitable for up to 30°C ambient
- Rated L70, LED life greater than 100,000 hours at 25°C
- Replaces up to 150W HPS light source incumbent models
- LED electronic 0V-10V dimmable driver
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/DPL to confirm which versions are qualified.

Applications:

- Streetscapes
- Walkways
- Pathways
- Parks

MVEA SPEC # 247L 10LEDE10 MVOLT 4K RS AY PCLL

DIMENSIONS



Note: Specifications subject to change without notice. American Revolution Series 247L LED



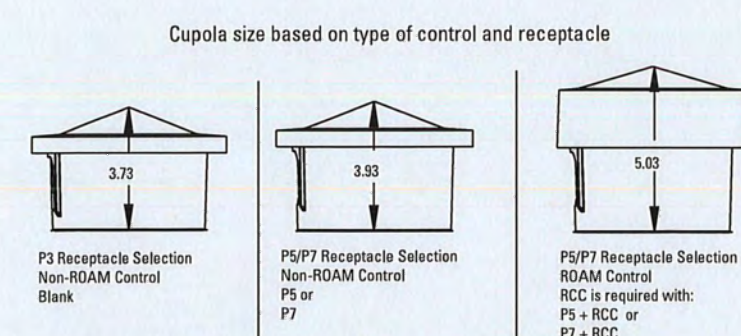
American Revolution LED Series 247L

ORDERING INFORMATION

Example: 247L 20LEDE70 MVOLT 4K R3 AY

| Series | Performance Package | Voltage | Color Temperature (CCT) |
|------------------------------|--|--|----------------------------------|
| 247L American Revolution LED | 20LEDE10 20 Chips, 1050 mA Driver, 72 input watts 20LEDE70 20 Chips, 700 mA Driver, 45 input watts 10LEDE10 10 Chips, 1050 mA Driver, 28 input watts 10LEDE70 10 Chips, 700 mA Driver, 25 input watts 10LEDE35 10 Chips, 525 mA Driver, 18 input watts 10LEDE35 10 Chips, 350 mA Driver, 13 input watts | MVOLT Multi-volt, 120-277V 347 347V 480 480V | 3K 3000K 4K 4000K 5K 5000K |

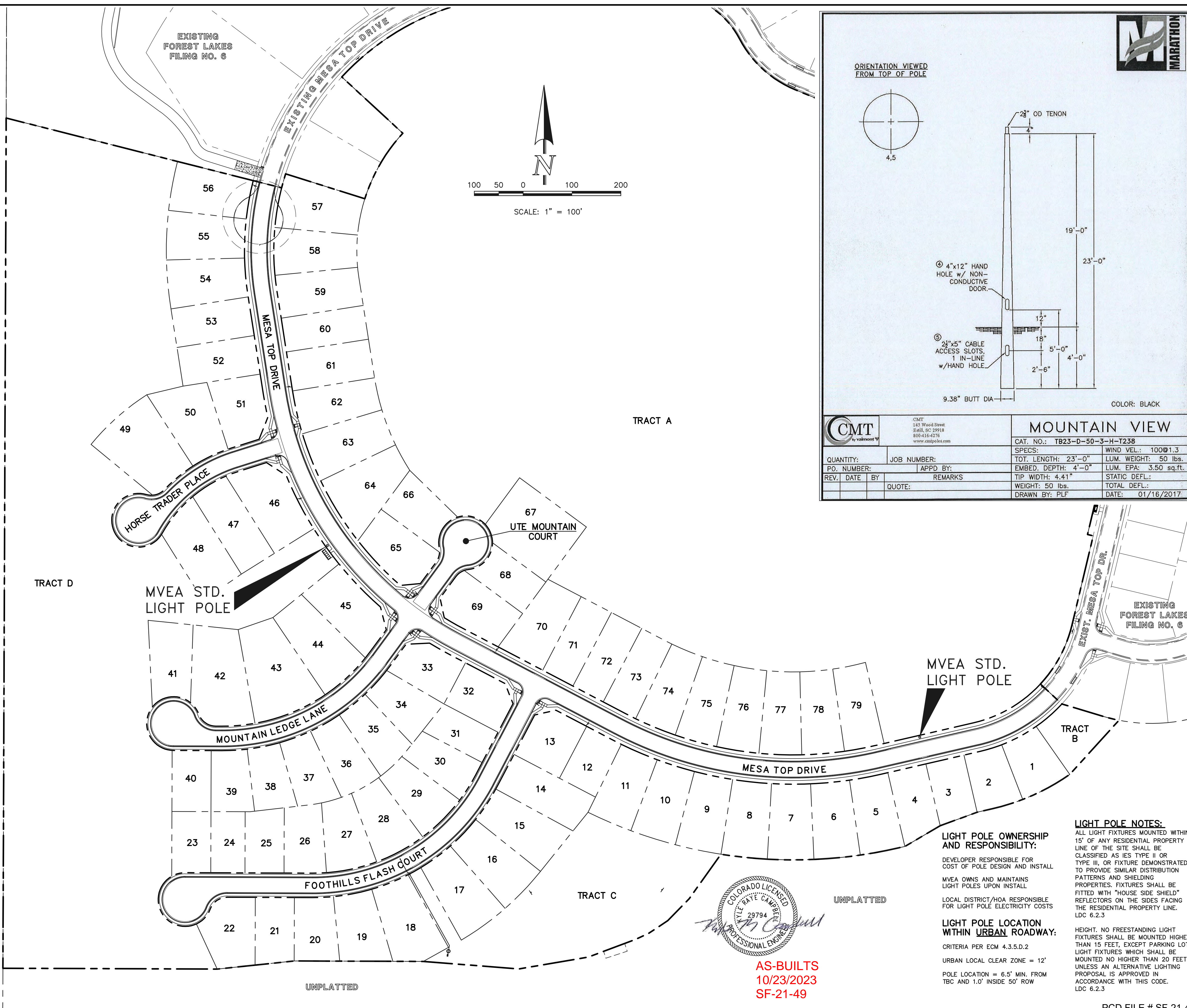
| Distribution | Optics | Options |
|--|--------------------------------|--|
| R2 Type II R3 Type III RS Type V | AY Acrylic PY Polycarbonate | Paint: (blank) Black (standard) GY Gray DOB Dark Bronze WH White BZ Bronze Photocontrol: (blank) 3 pin NEMA Photocontrol Receptacle (standard) NR 2 No Photocontrol Receptacle P5 1 5 pin NEMA Photocontrol Receptacle (dimmable driver included) P7 1 7 pin NEMA Photocontrol Receptacle (dimmable driver included) PCLL 4 Solid State Long Life Photocontrol PCSS 4A Not CSA Listed Solid State Long Life Photocontrol (120-277V) |



- Notes:
1. Other colors available, please contact factory
 2. PC and SH not available with NR option
 3. Taller cupola cover (RCC) is required when used with ROAM or other similar wireless monitoring control systems
 4. Standard failure mode: "Fail On"
 5. Photocontrols supplied with ANSI Standard Turn-On levels
 6. XL option is required
 7. Ships with unit, field installed
 8. Required when using ROAM or other similar wireless monitoring control systems



Warranty Five-year limited warranty. Complete warranty terms located at www.aelbrands.com/CustomerResources/terms_and_conditions.asp. Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice. Please contact your sales representative for the latest product information.



ORIENTATION VIEWED FROM TOP OF POLE

4.5
19'-0"
23'-0"
2 1/2" OD TENON
4"
4" x 12" HAND HOLE w/ NON-CONDUCTIVE DOOR.
2 1/2" x 5" CABLE ACCESS SLOTS, 1 IN-LINE w/ HAND HOLE.
12"
18"
5'-0"
4'-0"
2'-6"
9.38" BUTT DIA

COLOR: BLACK

| | | |
|--|------------------------------|-----------------------|
| CMT 145 Wood Street East, SC 29118 803-416-4215 www.cmtplc.com | MOUNTAIN VIEW | |
| | CAT. NO.: T823-D-50-3-H-T238 | SPECS: |
| QUANTITY: | JOB NUMBER: | WIND VEL.: 100@1.3 |
| PO. NUMBER: | APPD BY: | TOT. LENGTH: 23'-0" |
| REV. DATE BY: | REMARKS: | EMBED. DEPTH: 4'-0" |
| QUOTE: | | LUM. EPA: 3.50 sq.ft. |
| | | TIP WIDTH: 4.41" |
| | | STATIC DEFL.: |
| | | WEIGHT: 50 lbs. |
| | | TOTAL DEFL.: |
| | | DATE: 01/16/2017 |



AS-BUILTS 10/23/2023 SF-21-49

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KYLE R. CAMPBELL, P.E. #29794

03/31/22 DATE



FOREST LAKES FILING NO. 7
PUBLIC STREET IMPROVEMENT PLAN
STREET LIGHT POLE LOCATION PLAN
EPC 5/12/2022

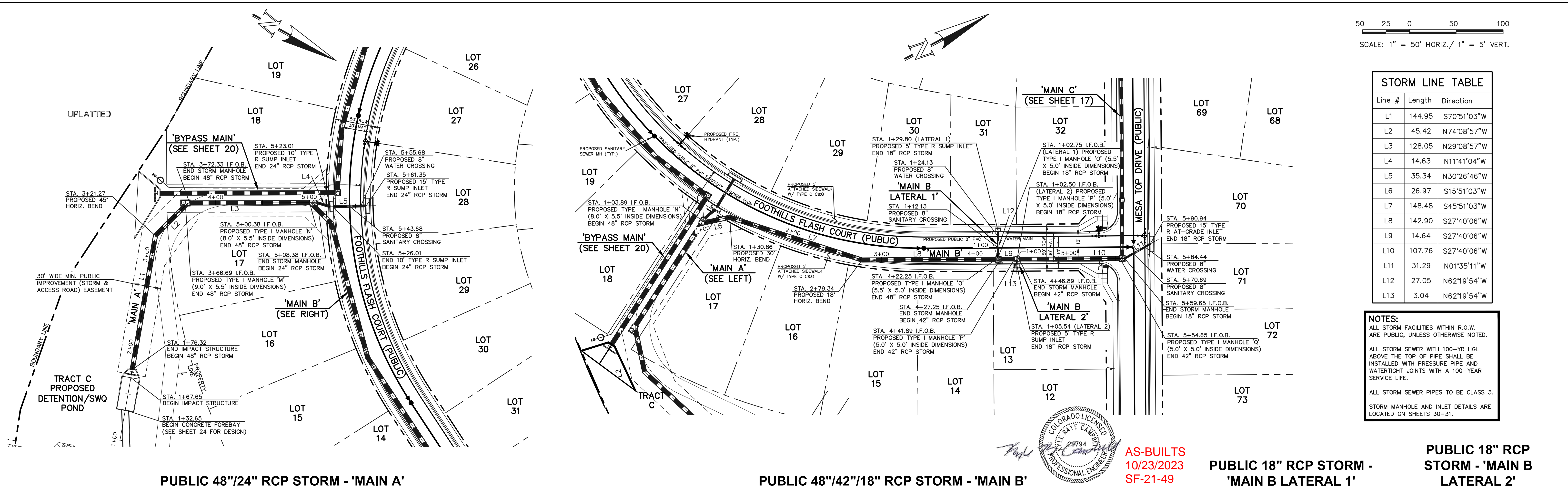
| | | | | |
|-------------|--------------|---------------|---------|----------|
| DESIGNED BY | MAL | SCALE | DATE | 05/21/21 |
| DRAWN BY | MES | (H) 1" = 100' | SHEET | 15 OF 31 |
| CHECKED BY | (V) 1" = N/A | JOB NO. | 1175.70 | |

PCD FILE # SF-21-49

N:\117570\DRAWINGS\CONSTRUCTION\STREETS\15-117570-SI-08-Street Lights.dwg, 3/23/2022 12:27:24 PM, 1:1

| Line # | Length | Direction |
|--------|--------|-------------|
| L1 | 144.95 | S70°51'03"W |
| L2 | 45.42 | N74°08'57"W |
| L3 | 128.05 | N29°08'57"W |
| L4 | 14.63 | N11°41'04"W |
| L5 | 35.34 | N30°26'46"W |
| L6 | 26.97 | S15°51'03"W |
| L7 | 148.48 | S45°51'03"W |
| L8 | 142.90 | S27°40'06"W |
| L9 | 14.64 | S27°40'06"W |
| L10 | 107.76 | S27°40'06"W |
| L11 | 31.29 | N01°35'11"W |
| L12 | 27.05 | N62°19'54"W |
| L13 | 3.04 | N62°19'54"W |

NOTES:
ALL STORM FACILITIES WITHIN R.O.W. ARE PUBLIC, UNLESS OTHERWISE NOTED.
ALL STORM SEWER WITH 100-YR HGL ABOVE THE TOP OF PIPE SHALL BE INSTALLED WITH PRESSURE PIPE AND WATERTIGHT JOINTS WITH A 100-YEAR SERVICE LIFE.
ALL STORM SEWER PIPES TO BE CLASS 3.
STORM MANHOLE AND INLET DETAILS ARE LOCATED ON SHEETS 30-31.



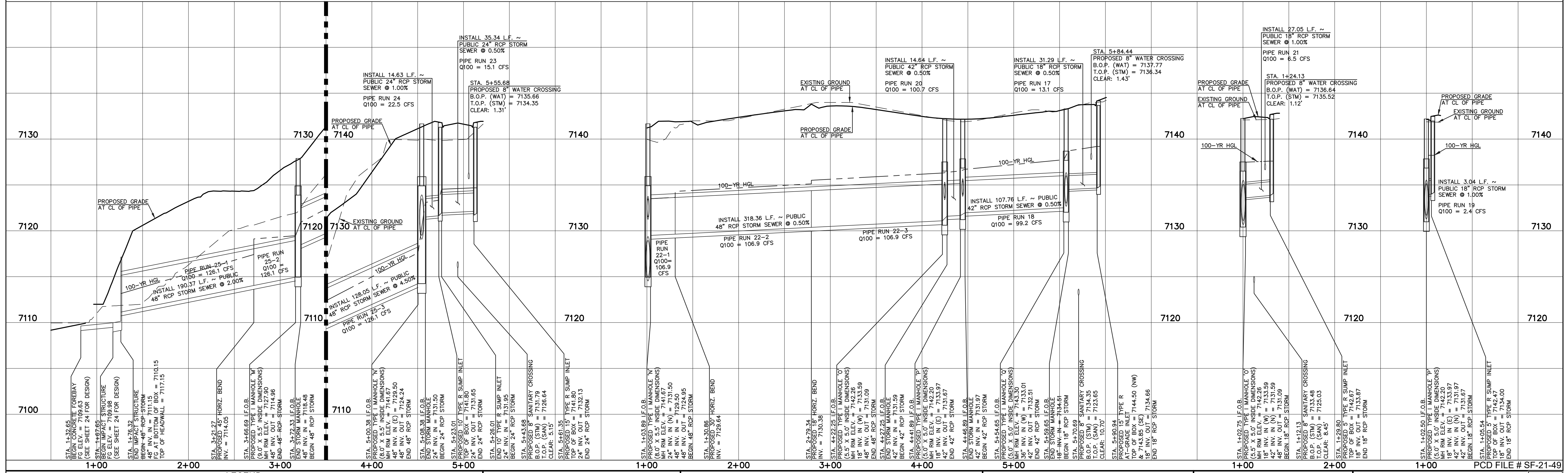
AS-BUILTS
10/23/2023
SF-21-49

PUBLIC 48"/24" RCP STORM - 'MAIN A'

PUBLIC 48"/42"/18" RCP STORM - 'MAIN B'

PUBLIC 18" RCP STORM - 'MAIN B LATERAL 1'

PUBLIC 18" RCP STORM - 'MAIN B LATERAL 2'



LEGEND

| | | | |
|--|------------------------------|--|------------------------------|
| | PROPOSED FIRE HYDRANT | | EXISTING FIRE HYDRANT |
| | PROPOSED WATER MAIN | | EXISTING WATER MAIN |
| | PROPOSED SANITARY SEWER MAIN | | EXISTING SANITARY SEWER MAIN |
| | PROPOSED STORM SEWER | | EXISTING STORM SEWER |
| | PROPOSED STORM INLET | | EXISTING STORM INLET |
| | ROW/BOUNDARY LINE | | EXISTING GAS MAIN |
| | | | EXISTING ELECTRIC |

48 HOURS BEFORE YOU DIG,
CALL UTILITY LOCATORS
811
UTILITY NOTIFICATION CENTER OF COLORADO
IT'S THE LAW
THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

| NO. | REVISION | DATE |
|-----|----------|------|
| | | |
| | | |
| | | |

REVIEW:
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC
KYLE R. CAMPBELL, P.E. #29794
DATE: 03/31/22

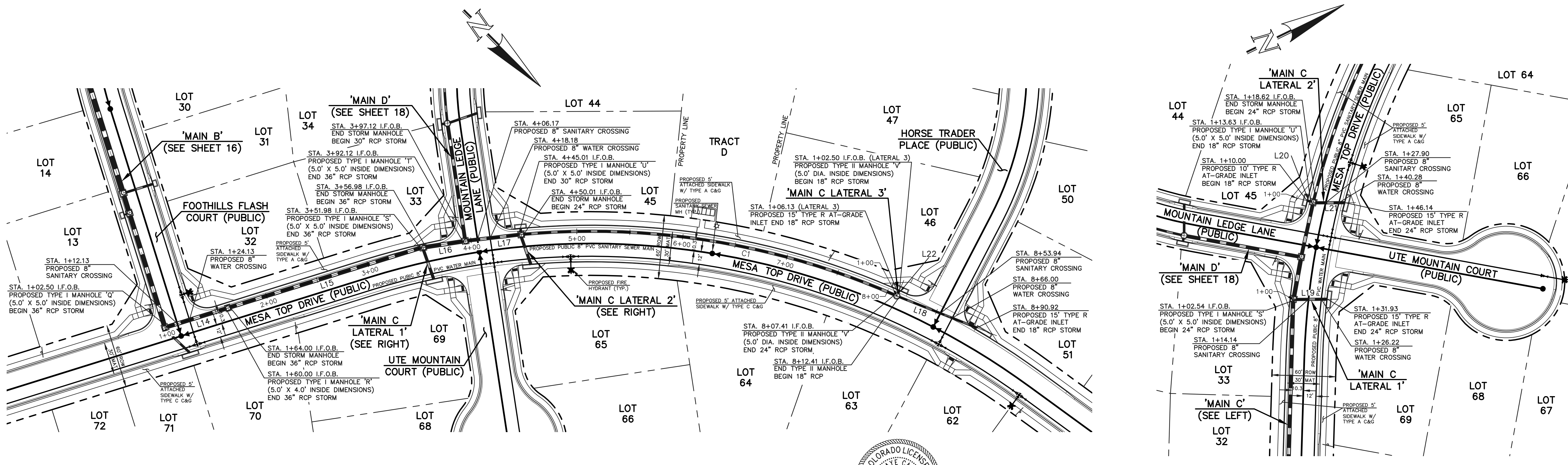


FOREST LAKES FILING NO. 7
CONSTRUCTION PLANS
PUBLIC STORM SEWER PLAN
'MAIN A'/'MAIN B'/'MAIN B LATERALS 1-2'
EPC 5/12/2022

| | | | | | |
|-------------|-----|-------------|--------------|------|----------|
| DESIGNED BY | MAL | SCALE | (H) 1" = 50' | DATE | 06/01/21 |
| DRAWN BY | MES | (V) 1" = 5' | SHEET | 16 | OF 31 |
| CHECKED BY | (V) | JOB NO. | 1175.70 | | |

50 25 0 50 100

SCALE: 1" = 50' HORIZ. / 1" = 5' VERT.



| Line # | Length | Direction |
|--------|--------|-------------|
| L14 | 57.50 | S62°19'54"E |
| L15 | 187.98 | S62°19'54"E |
| L16 | 35.14 | S53°37'49"E |
| L17 | 47.89 | S51°35'38"E |
| L18 | 78.51 | N23°17'29"W |
| L19 | 29.39 | N25°34'54"E |
| L20 | 3.63 | N39°53'59"E |
| L21 | 27.50 | S25°46'02"W |
| L22 | 3.63 | N68°52'49"E |

| Curve # | Delta | Length | Radius |
|---------|-----------|--------|--------|
| C1 | 28°46'43" | 357.39 | 711.54 |

NOTES:
 ALL STORM FACILITIES WITHIN R.O.W. ARE PUBLIC, UNLESS OTHERWISE NOTED.
 ALL STORM SEWER WITH 100-YR HGL ABOVE THE TOP OF PIPE SHALL BE INSTALLED WITH PRESSURE PIPE AND WATER TIGHT JOINTS WITH A 100-YEAR SERVICE LIFE.
 ALL STORM SEWER PIPES TO BE CLASS 3.
 STORM MANHOLE AND INLET DETAILS ARE LOCATED ON SHEETS 30-31.



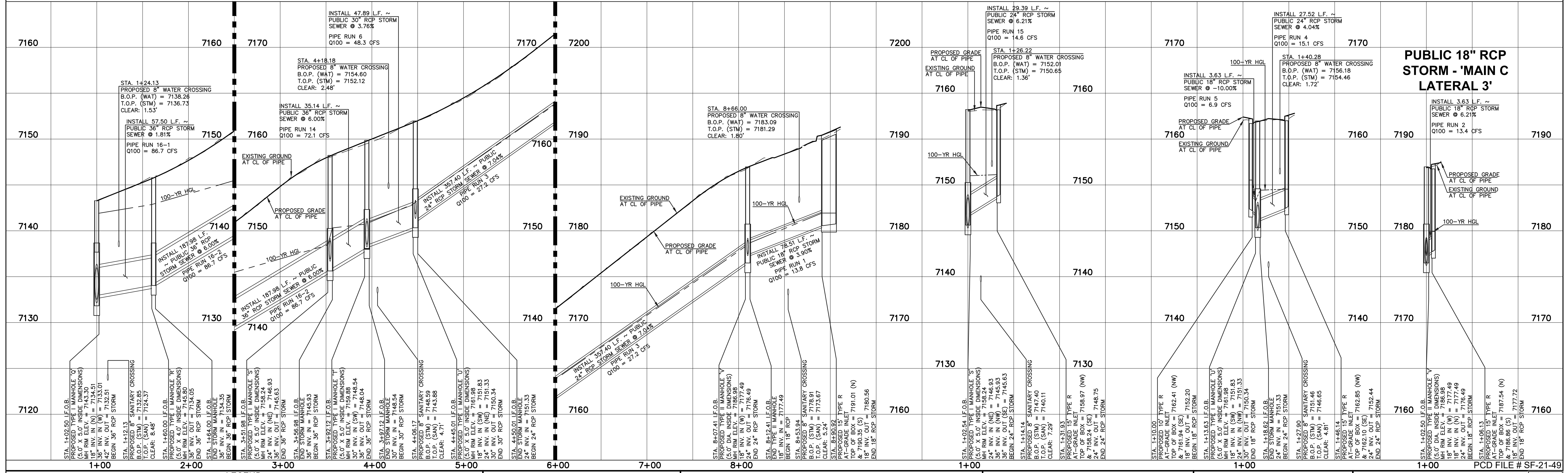
AS-BUILTS
 10/23/2023
 SF-21-49

PUBLIC 36"/30"/24"/18" RCP STORM - 'MAIN C'

PUBLIC 24" RCP STORM - 'MAIN C LATERAL 1'

PUBLIC 24"/18" RCP STORM - 'MAIN C LATERAL 2'

PUBLIC 18" RCP STORM - 'MAIN C LATERAL 3'



LEGEND

| | | | |
|--|------------------------------|--|------------------------------|
| | PROPOSED FIRE HYDRANT | | EXISTING FIRE HYDRANT |
| | PROPOSED WATER MAIN | | EXISTING WATER MAIN |
| | PROPOSED SANITARY SEWER MAIN | | EXISTING SANITARY SEWER MAIN |
| | PROPOSED STORM SEWER | | EXISTING STORM SEWER |
| | PROPOSED STORM INLET | | EXISTING STORM INLET |
| | ROW/BOUNDARY LINE | | EXISTING GAS MAIN |
| | | | EXISTING ELECTRIC |

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| NO. REVISION | DATE |
|--------------|------|
| | |
| | |

REVIEW:
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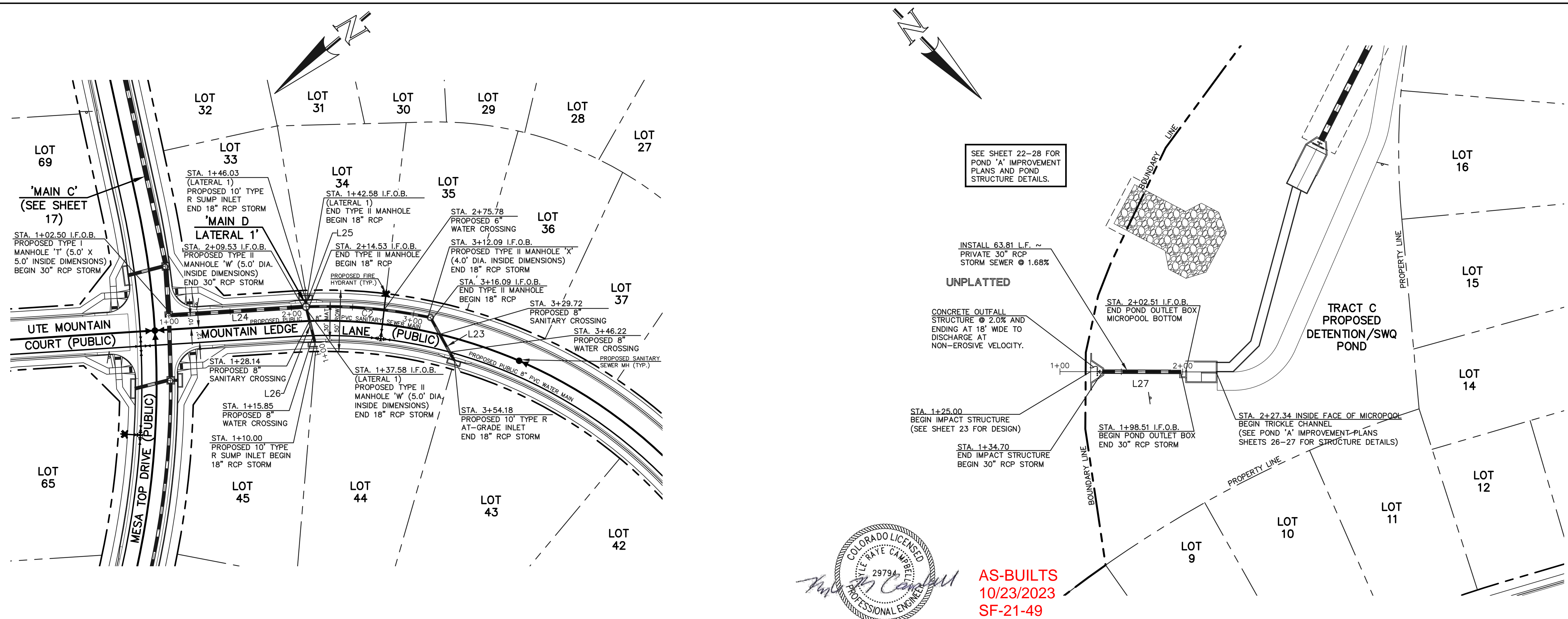
 KYLE R. CAMPBELL, P.E. #29794
 DATE: 03/31/22

CLASSIC CONSULTING
 619 N. Cascade Avenue, Suite 200
 Colorado Springs, Colorado 80903
 (719) 785-0790
 (719) 785-0799 (fax)

FOREST LAKES FILING NO. 7
 CONSTRUCTION PLANS
 PUBLIC STORM SEWER PLAN
 'MAIN C' / 'MAIN C LATERALS 1-3'
 EPC 5/12/2022

| | | | | | |
|-------------|-----|-------------|--------------|------|----------|
| DESIGNED BY | MAL | SCALE | (H) 1" = 50' | DATE | 06/01/21 |
| DRAWN BY | MES | (V) 1" = 5' | SHEET | 17 | OF 31 |
| CHECKED BY | (V) | JOB NO. | 1175.70 | | |

K:\1175\DWG\AWINGS\CONSTRUCT\CDX\STORMA17-117570-50-03.dwg, 5/11/2022 9:47:16 AM, 1:1

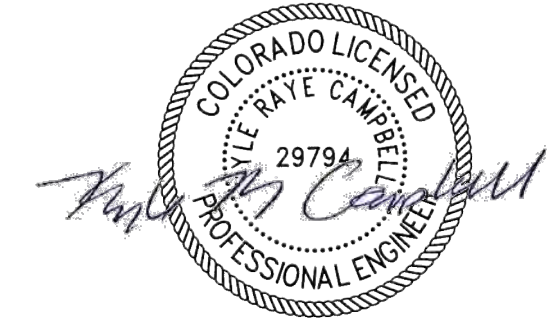


50 25 0 50 100
SCALE: 1" = 50' HORIZ./ 1" = 5' VERT.

| Line # | Length | Direction |
|--------|--------|-------------|
| L23 | 38.08 | N78°59'33"W |
| L24 | 107.03 | S36°22'11"W |
| L25 | 3.45 | N52°08'47"W |
| L26 | 27.58 | N63°58'20"W |
| L27 | 63.81 | N45°53'34"W |

| Curve # | Delta | Length | Radius |
|---------|-----------|--------|--------|
| C2 | 13°34'46" | 97.56 | 411.65 |

NOTES:
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ALL STORM SEWER PIPES TO BE CLASS 3.
STORM MANHOLE AND INLET DETAILS ARE LOCATED ON SHEETS 30-31.

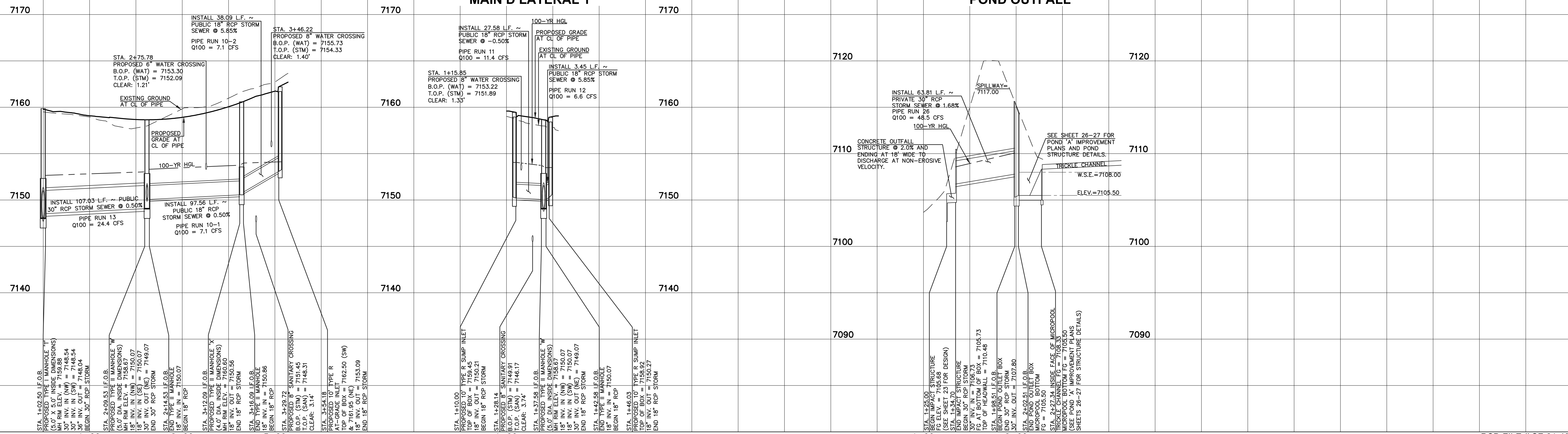


AS-BUILTS
10/23/2023
SF-21-49

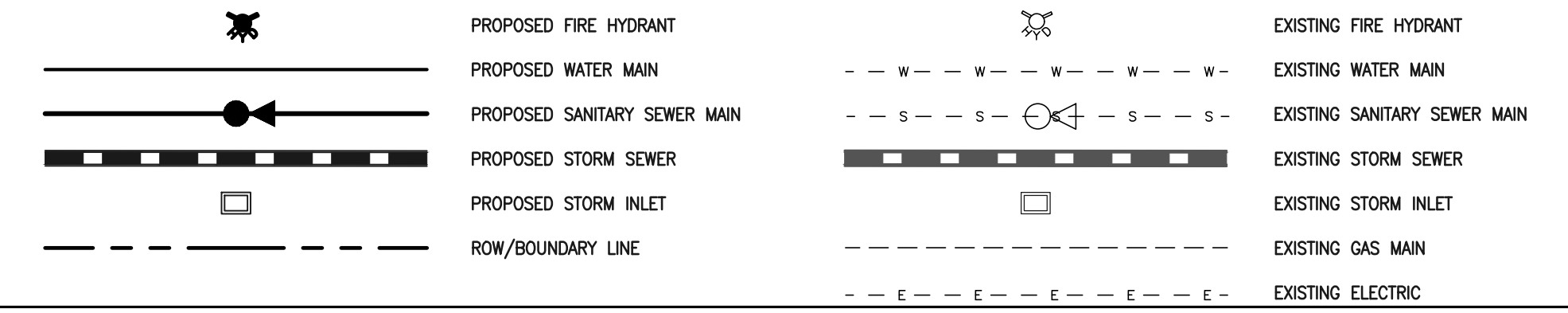
PUBLIC 30"/18" RCP STORM - 'MAIN D'

PUBLIC 18" RCP STORM - 'MAIN D LATERAL 1'

PRIVATE 30" RCP STORM - 'POND OUTFALL'



LEGEND



48 HOURS BEFORE YOU DIG,
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| NO. | REVISION | DATE |
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| | | |

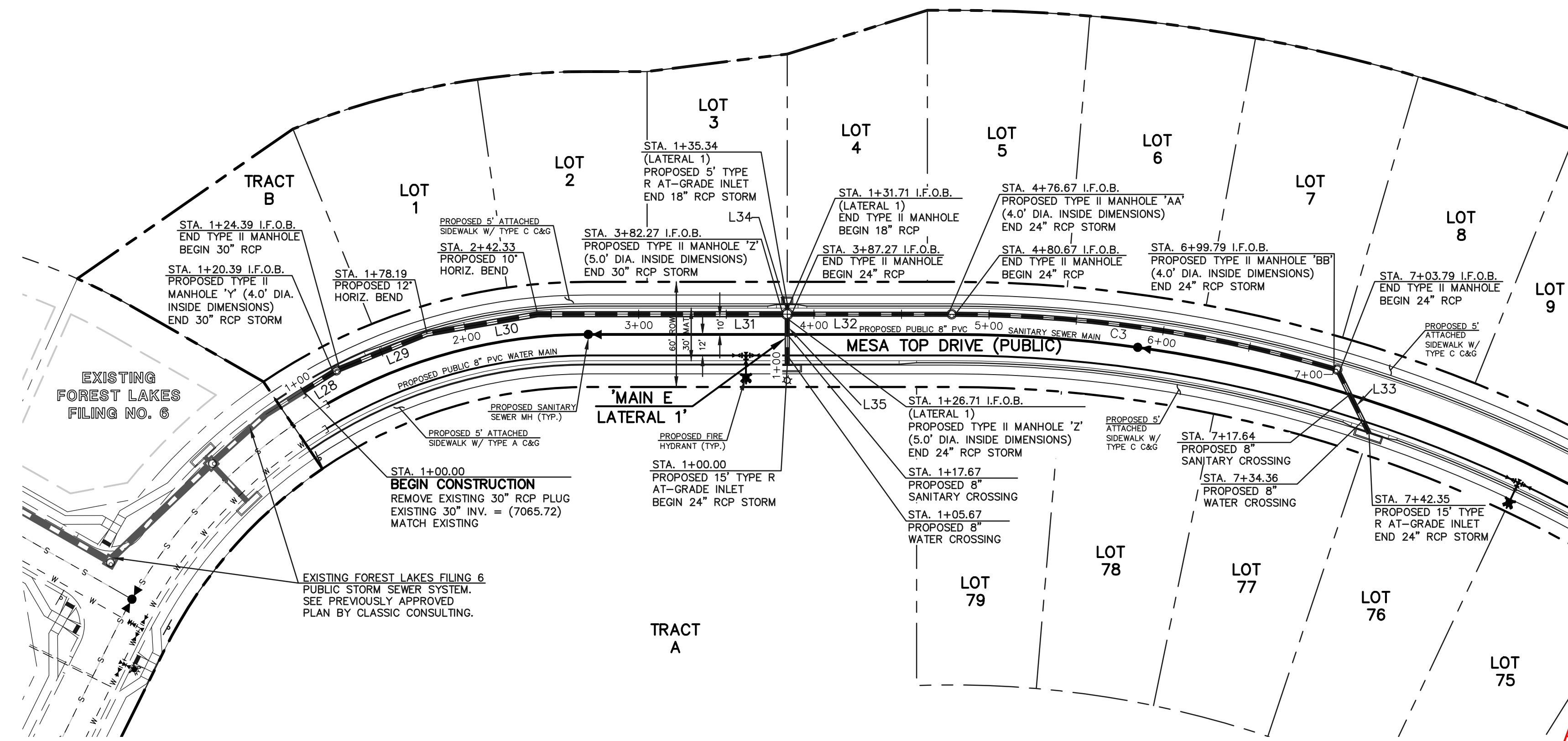
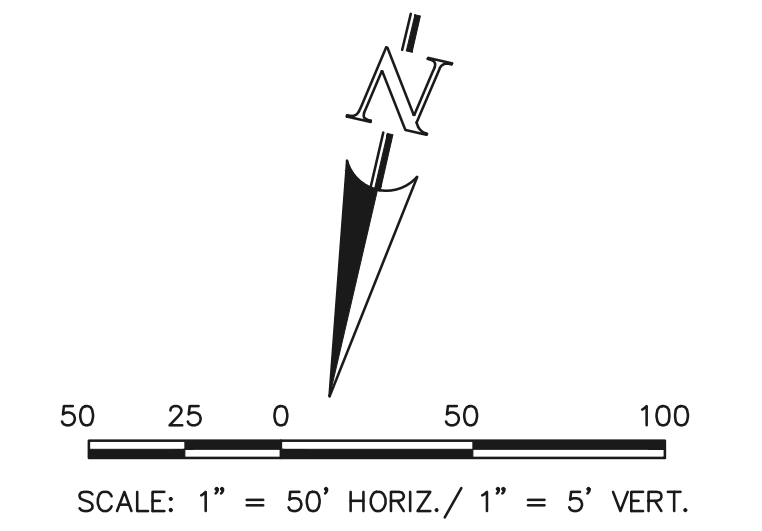
REVIEW:
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC
KYLE R. CAMPBELL, P.E. #29794
DATE: 03/31/22



PCD FILE # SF-21-49

| | | | |
|--|-------------|--------------|----------------|
| FOREST LAKES FILING NO. 7 | | | |
| CONSTRUCTION PLANS | | | |
| PUBLIC STORM SEWER PLAN | | | |
| 'MAIN D'/MAIN D LATERAL 1'/POND OUTFALL' | | | |
| EPC 5/12/2022 | | | |
| DESIGNED BY | MAL | SCALE | DATE |
| DRAWN BY | MES | (H) 1" = 50' | SHEET 18 OF 31 |
| CHECKED BY | (V) 1" = 5' | JOB NO. | 1175.70 |

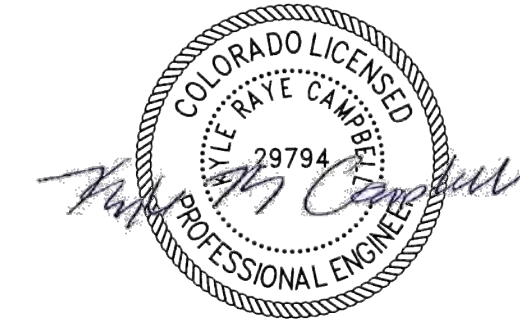
K:\1175\DWG\AWINGS\CONSTRUCT\CDX\STORMA18-117570-SW-04.dwg, 5/11/2022 9:48:59 AM, 1:1



| STORM LINE TABLE | | |
|------------------|--------|-------------|
| Line # | Length | Direction |
| L28 | 20.39 | N45°00'16"E |
| L29 | 53.80 | N55°00'16"E |
| L30 | 64.14 | N67°00'16"E |
| L31 | 139.94 | N77°00'16"E |
| L32 | 89.40 | N77°00'16"E |
| L33 | 38.56 | S39°32'06"E |
| L34 | 3.63 | N12°59'44"W |
| L35 | 26.71 | N12°59'44"W |

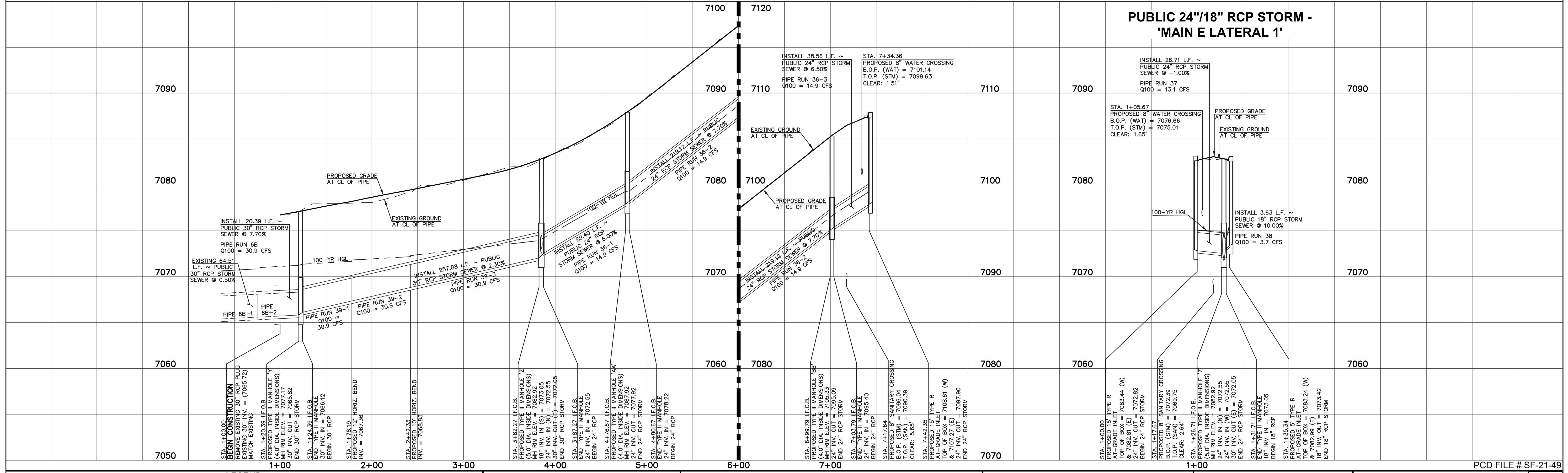
| STORM CURVE TABLE | | | |
|-------------------|-----------|--------|--------|
| Curve # | Delta | Length | Radius |
| C3 | 16°03'50" | 219.12 | 781.54 |

NOTES:
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 ALL STORM SEWER PIPES TO BE CLASS 3.
 STORM MANHOLE AND INLET DETAILS ARE LOCATED ON SHEETS 30-31.



AS-BUILTS
 10/23/2023
 SF-21-49

PUBLIC 30" / 24" RCP STORM - 'MAIN E'



| LEGEND | |
|--------|------------------------------|
| | PROPOSED FIRE HYDRANT |
| | PROPOSED WATER MAIN |
| | PROPOSED SANITARY SEWER MAIN |
| | PROPOSED STORM SEWER |
| | PROPOSED STORM INLET |
| | ROW/BOUNDARY LINE |
| | EXISTING FIRE HYDRANT |
| | EXISTING WATER MAIN |
| | EXISTING SANITARY SEWER MAIN |
| | EXISTING STORM SEWER |
| | EXISTING STORM INLET |
| | EXISTING GAS MAIN |
| | EXISTING ELECTRIC |

48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS
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| NO. | REVISION | DATE |
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| | | |
| | | |

REVIEW:
 PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

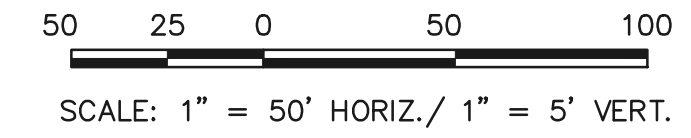
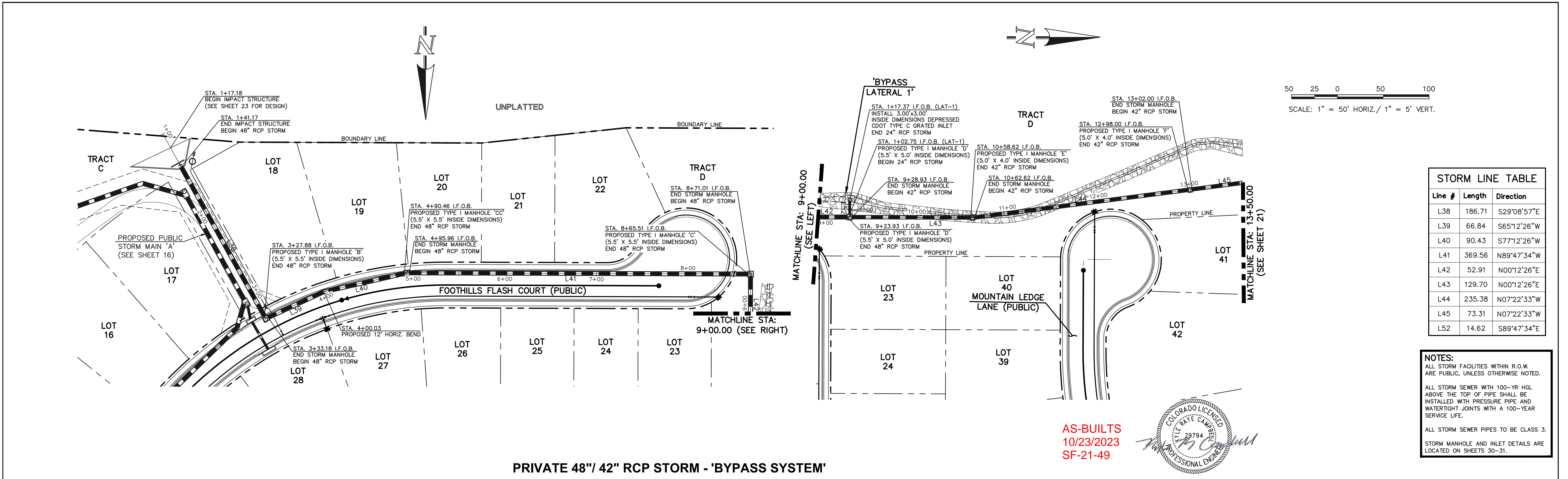
 KYLE R. CAMPBELL, P.E. #29794
 DATE: 03/31/22

CLASSIC CONSULTING
 619 N. Cascade Avenue, Suite 200
 Colorado Springs, Colorado 80903
 (719) 785-0790
 (719) 785-0799 (fax)

FOREST LAKES FILING NO. 7
CONSTRUCTION PLANS
PUBLIC STORM SEWER PLAN
'MAIN E' / 'MAIN E LATERAL 1'
 EPC 5/12/2022
 DESIGNED BY: MAL
 DRAWN BY: MES
 CHECKED BY: (V)
 SCALE: (H) 1" = 50', (V) 1" = 5'
 DATE: 06/01/21
 SHEET: 19 OF 31
 JOB NO.: 1175.70

K:\1175\DWG\CONSTRUCTION\CDX\STORMA19-117570-SW-05.dwg, 5/11/2022 9:51:43 AM, 1:1

PCD FILE # SF-21-49



| Line # | Length | Direction |
|--------|--------|--------------|
| L38 | 186.71 | S29°08'57\"E |
| L39 | 66.84 | S65°12'26\"W |
| L40 | 90.43 | S77°12'26\"W |
| L41 | 369.56 | N89°47'34\"E |
| L42 | 52.91 | N00°12'26\"E |
| L43 | 129.70 | N00°12'26\"E |
| L44 | 235.38 | N07°22'33\"W |
| L45 | 73.31 | N07°22'33\"W |
| L52 | 14.62 | S89°47'34\"E |

NOTES:

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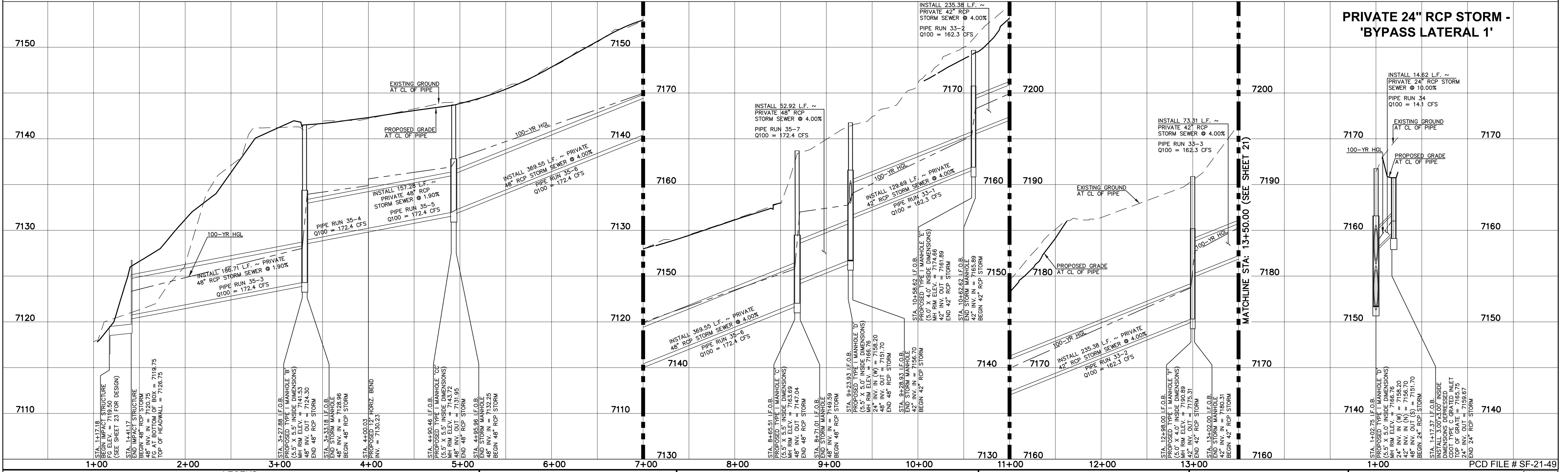
ALL STORM SEWER WITH 100-YR HGL ABOVE THE TOP OF PIPE SHALL BE INSTALLED WITH PRESSURE PIPE AND WATER TIGHT JOINTS WITH A 100-YEAR SERVICE LIFE.

ALL STORM SEWER PIPES TO BE CLASS 3.

STORM MANHOLE AND INLET DETAILS ARE LOCATED ON SHEETS 36-31.



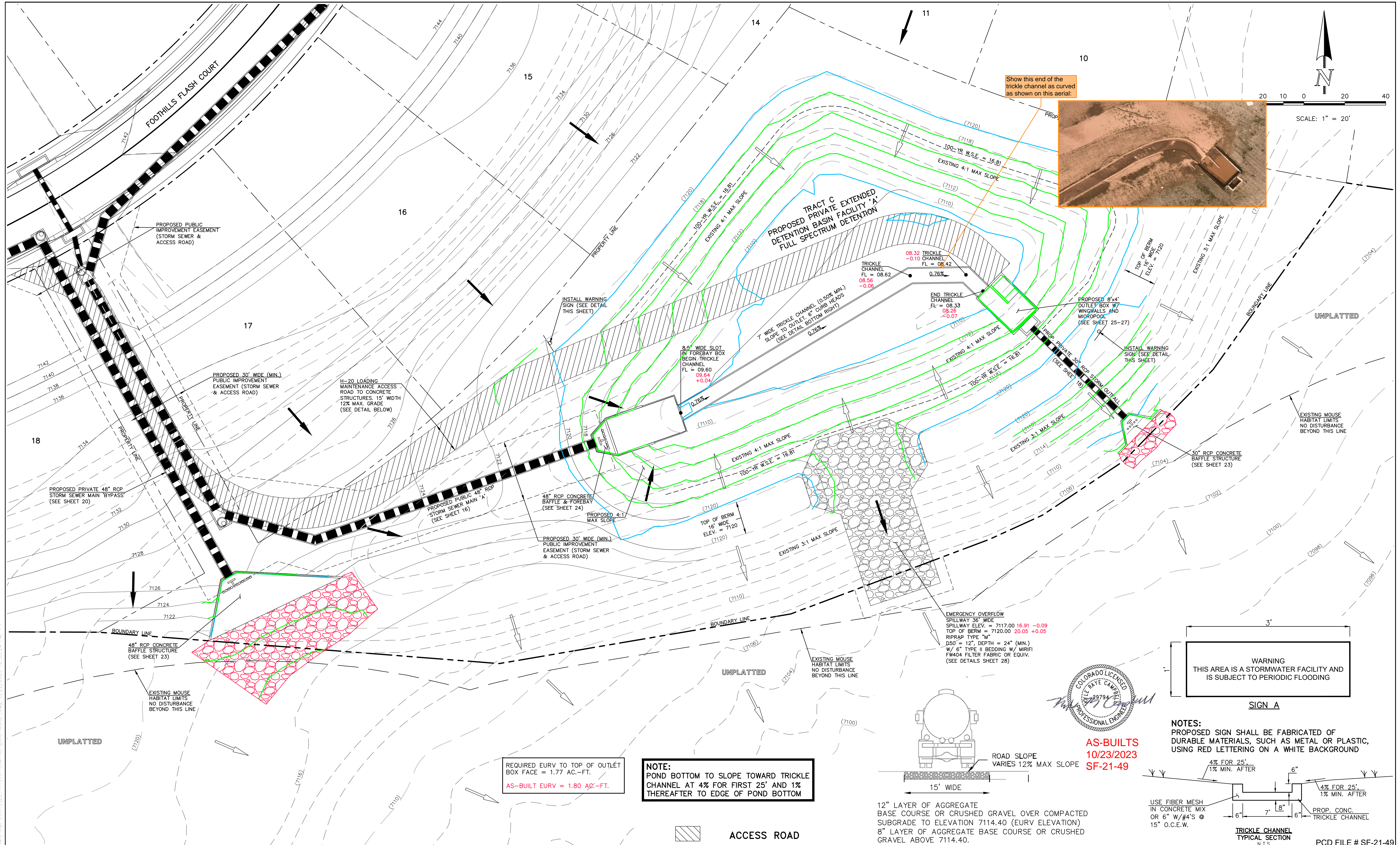
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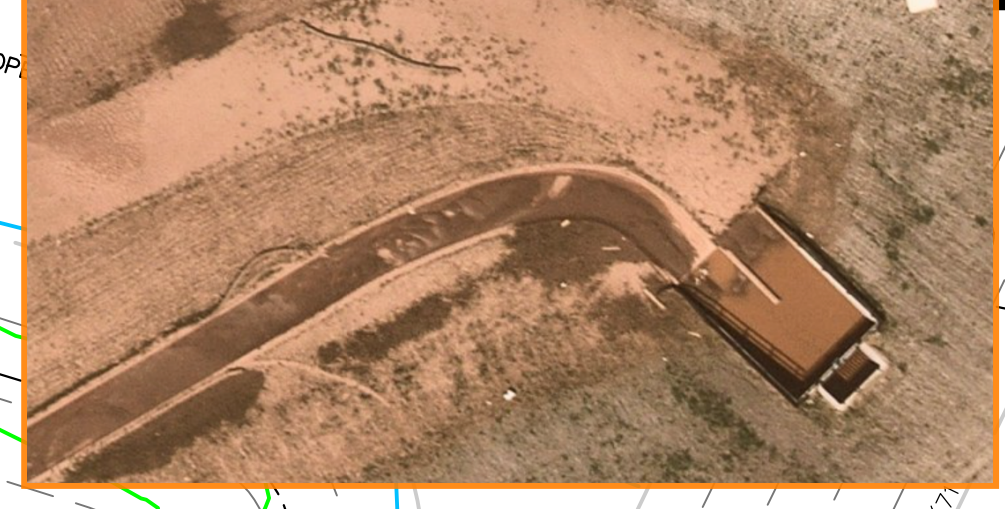
PRIVATE 24\"/>

| | | | | | | | | | | | |
|---|--|---|--|---|--|---------------------------------|--|---|--|---|--|
| <p>LEGEND</p> <p>PROPOSED FIRE HYDRANT</p> <p>PROPOSED WATER MAIN</p> <p>PROPOSED SANITARY SEWER MAIN</p> <p>PROPOSED STORM SEWER</p> <p>PROPOSED STORM INLET</p> <p>ROW/BOUNDARY LINE</p> | | <p>EXISTING FIRE HYDRANT</p> <p>EXISTING WATER MAIN</p> <p>EXISTING SANITARY SEWER MAIN</p> <p>EXISTING STORM SEWER</p> <p>EXISTING STORM INLET</p> <p>EXISTING GAS MAIN</p> <p>EXISTING ELECTRIC</p> | | <p>811</p> <p>48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS</p> <p>UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW</p> <p>THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.</p> | | <p>NO. REVISION</p> <p>DATE</p> | | <p>REVIEW:</p> <p>PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC</p> <p>KYLE R. CAMPBELL P.E. #29794</p> <p>DATE: 03/31/22</p> | | <p>CLASSIC CONSULTING</p> <p>FOREST LAKES FILING NO. 7</p> <p>CONSTRUCTION PLANS</p> <p>PUBLIC STORM SEWER PLAN</p> <p>'BYPASS SYSTEM' STA. 1+00-13+50/'BYPASS LATERAL 1' EPC 5/12/2022</p> <p>DESIGNED BY: MAL SCALE: (H) 1\"/> </p> | |
|---|--|---|--|---|--|---------------------------------|--|---|--|---|--|

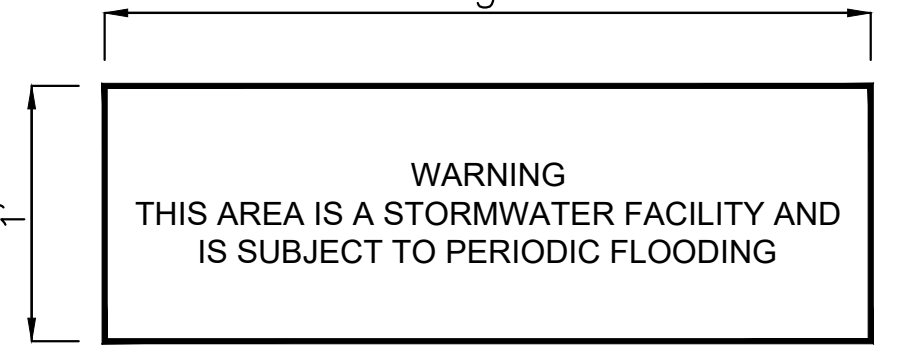
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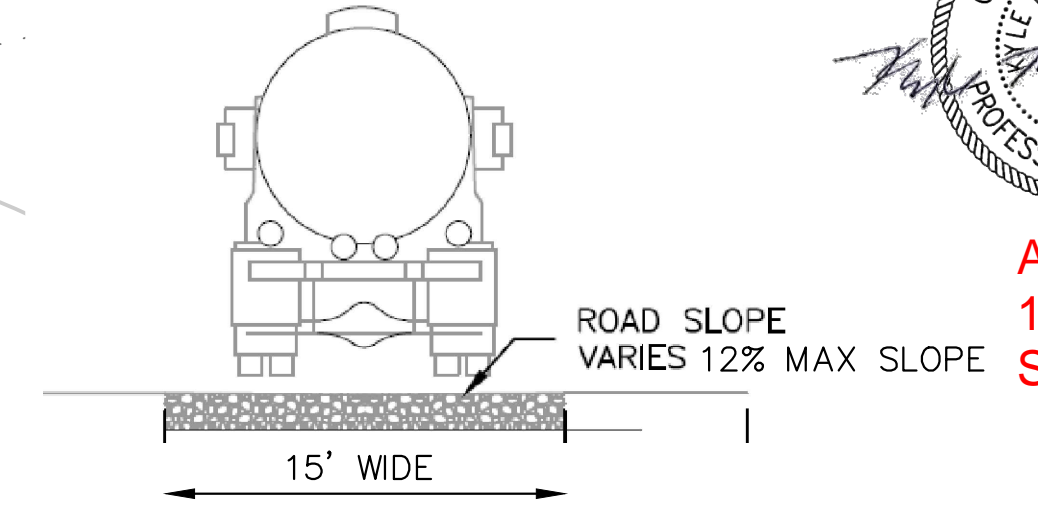
Show this end of the trickle channel as curved as shown on this aerial:



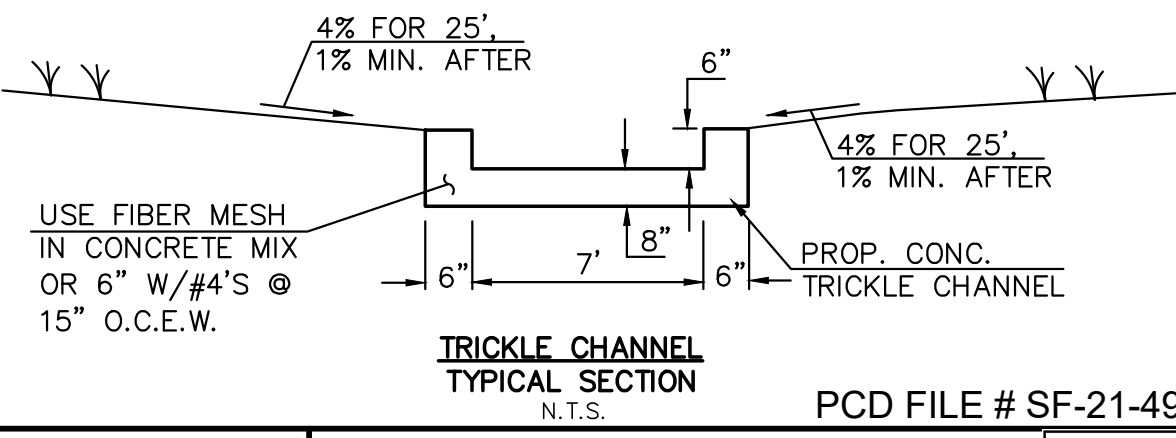
SCALE: 1" = 20'



NOTES:
PROPOSED SIGN SHALL BE FABRICATED OF DURABLE MATERIALS, SUCH AS METAL OR PLASTIC, USING RED LETTERING ON A WHITE BACKGROUND



12" LAYER OF AGGREGATE BASE COURSE OR CRUSHED GRAVEL OVER COMPACTED SUBGRADE TO ELEVATION 7114.40 (EURV ELEVATION)
8" LAYER OF AGGREGATE BASE COURSE OR CRUSHED GRAVEL ABOVE 7114.40.



TRICKLE CHANNEL TYPICAL SECTION N.T.S. PCD FILE # SF-21-49

REQUIRED EURV TO TOP OF OUTLET BOX FACE = 1.77 AC.-FT.
AS-BUILT EURV = 1.80 AC.-FT.

NOTE:
POND BOTTOM TO SLOPE TOWARD TRICKLE CHANNEL AT 4% FOR FIRST 25' AND 1% THEREAFTER TO EDGE OF POND BOTTOM

| LEGEND | |
|--------|------------------------------|
| | PROPOSED FIRE HYDRANT |
| | PROPOSED WATER MAIN |
| | PROPOSED SANITARY SEWER MAIN |
| | PROPOSED STORM SEWER |
| | PROPOSED STORM INLET |
| | ROW/BOUNDARY LINE |
| | EXISTING FIRE HYDRANT |
| | EXISTING WATER MAIN |
| | EXISTING SANITARY SEWER MAIN |
| | EXISTING STORM SEWER |
| | EXISTING STORM INLET |
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| | EXISTING ELECTRIC |

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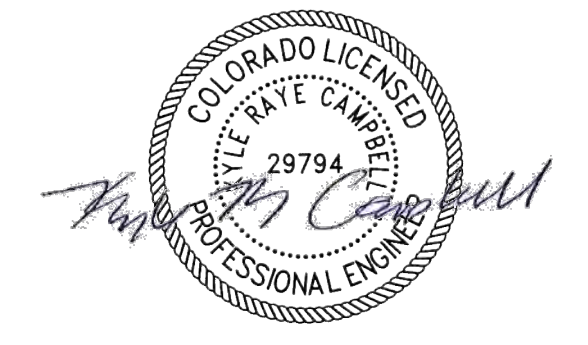
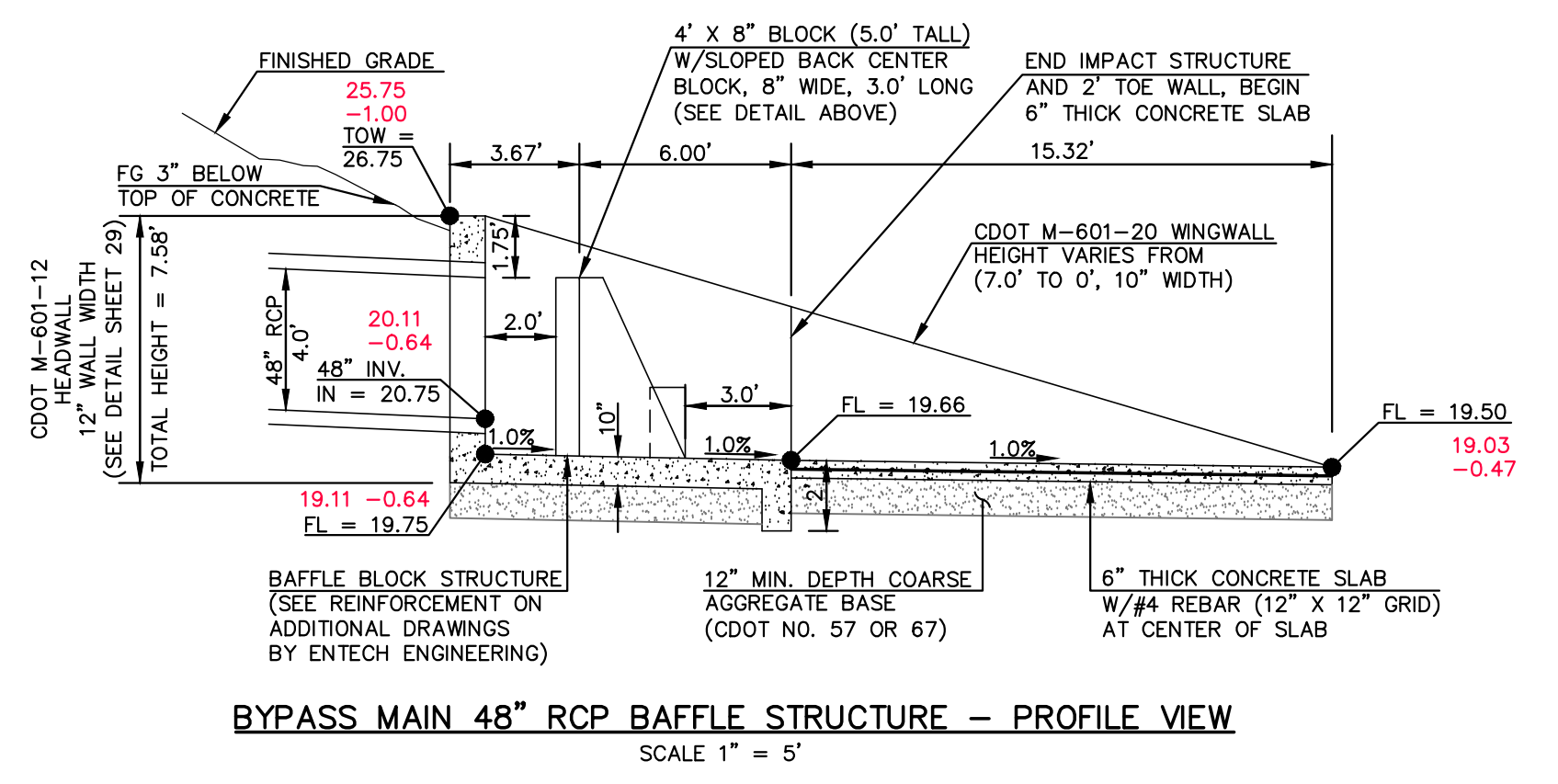
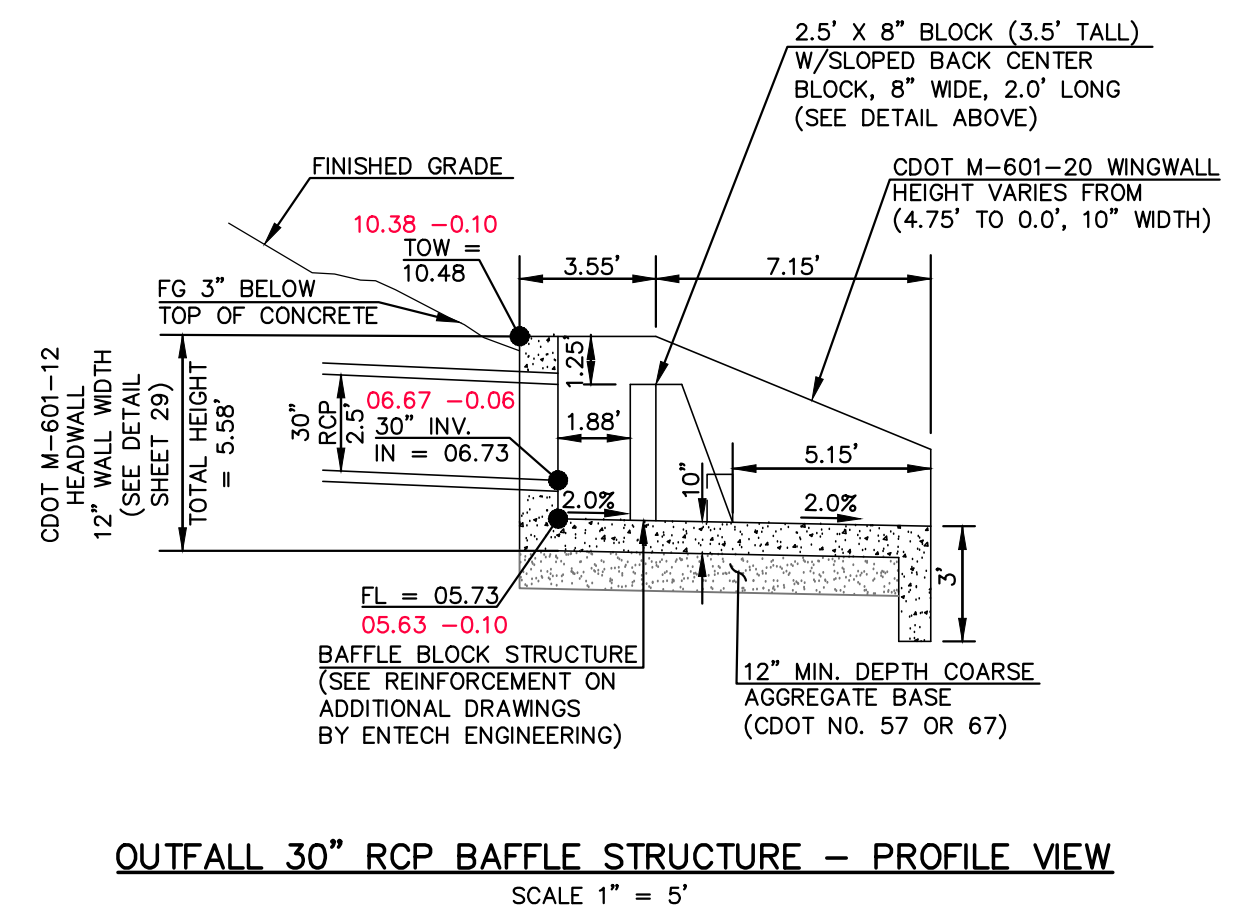
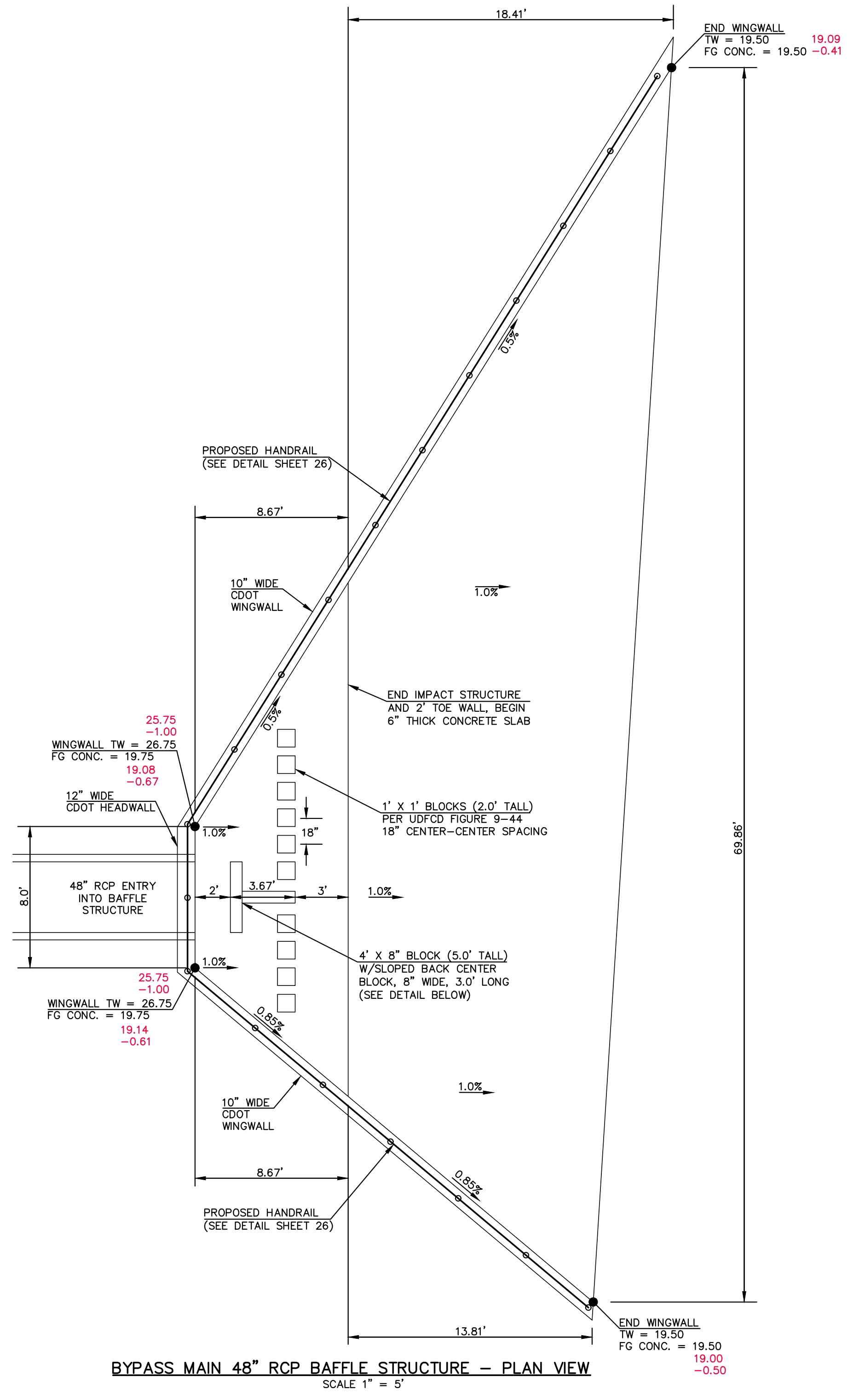
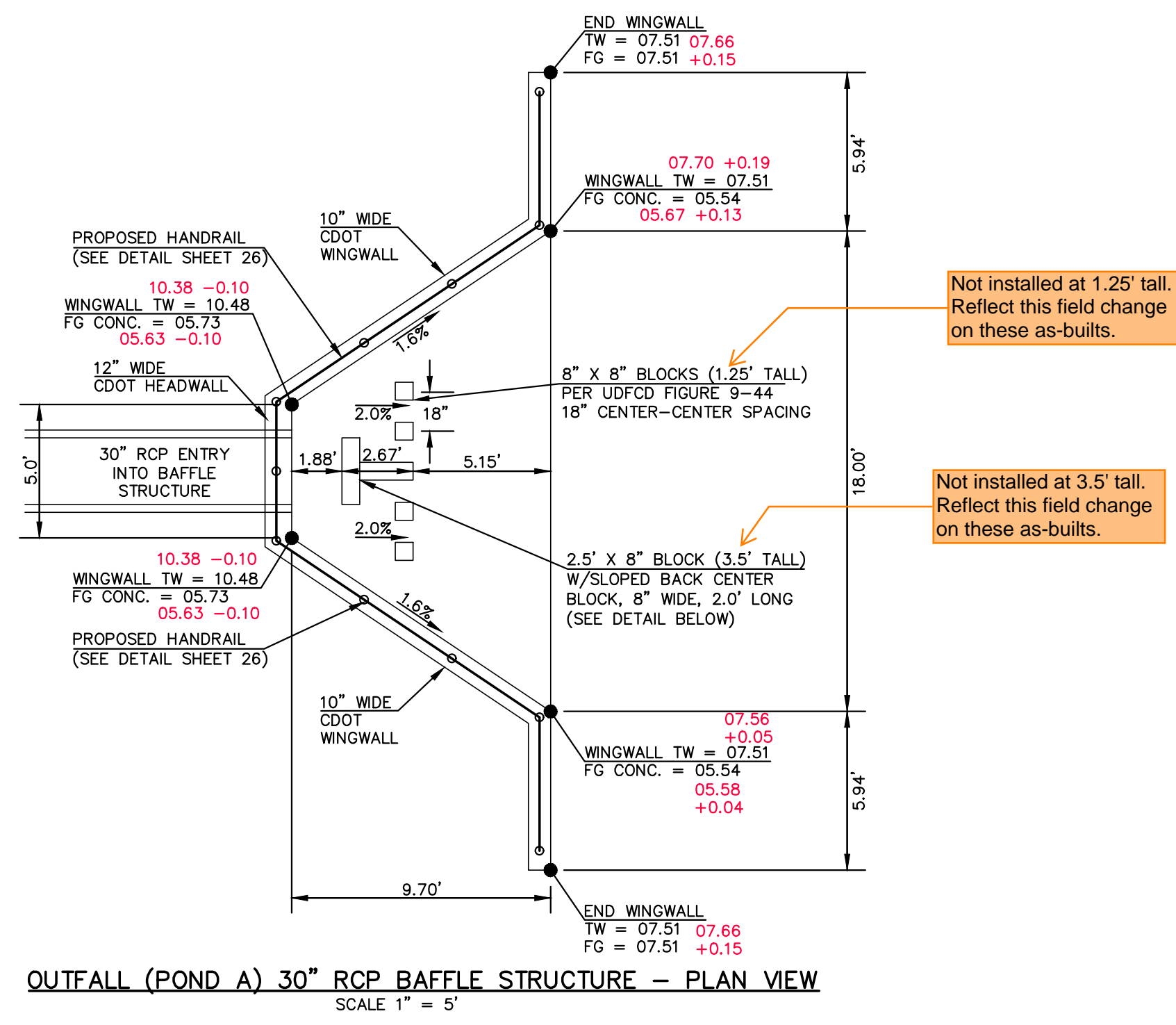
| NO. | REVISION | DATE |
|-----|----------|------|
| | | |
| | | |

REVIEW:
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC
KYLE R. CAMPBELL P.E. #29794
03/31/22 DATE



| | | | |
|-------------------------------|--------------|--------------|----------------|
| FOREST LAKES FILING NO. 7 | | | |
| CONSTRUCTION PLANS | | | |
| PRIVATE POND "A" | | | |
| EDB - FULL SPECTRUM DETENTION | | | |
| DESIGNED BY | MAL | SCALE | DATE |
| DRAWN BY | ME'S | (H) 1" = 20' | SHEET 22 OF 31 |
| CHECKED BY | (V) 1" = N/A | JOB NO. | 1175.70 |

N:\117570\DRAWINGS\CONSTRUCTION\STORMA.POND_CERTS\22-117570-STW-08-pend-AS\117570.dwg, 8/22/2023, 12:56:24 PM, 1:1



AS-BUILTS
10/23/2023
SF-21-49

PCD FILE # SF-21-49

| | | | |
|---|--------------|------|---------|
| <p>48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS</p> <p>811</p> <p>UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW</p> <p>THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.</p> | NO. REVISION | DATE | REVIEW: |
| | | | |

03/31/22

DATE

719)785-0790

719)785-0799(Fax)

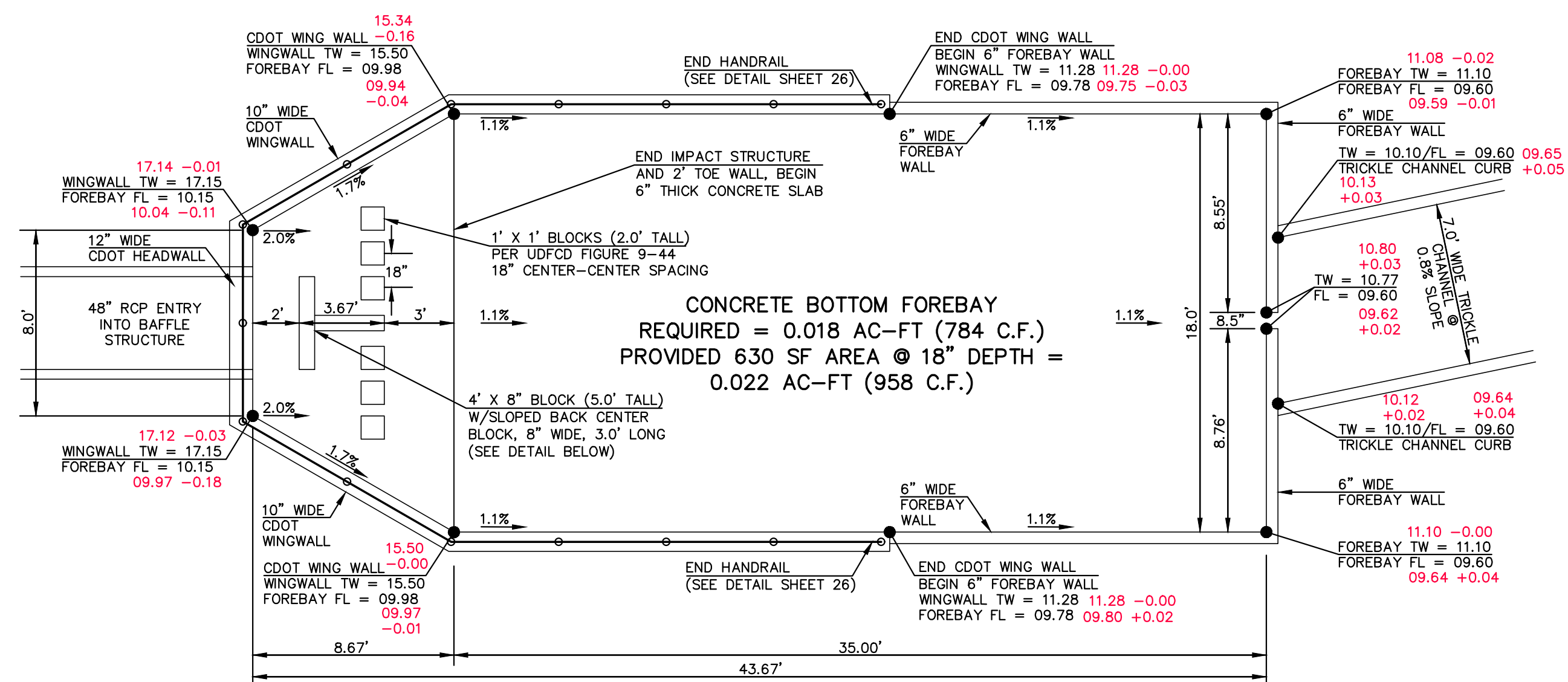
CLASSIC CONSULTING

619 N Cascade Avenue, Suite 200
Colorado Springs, Colorado 80903

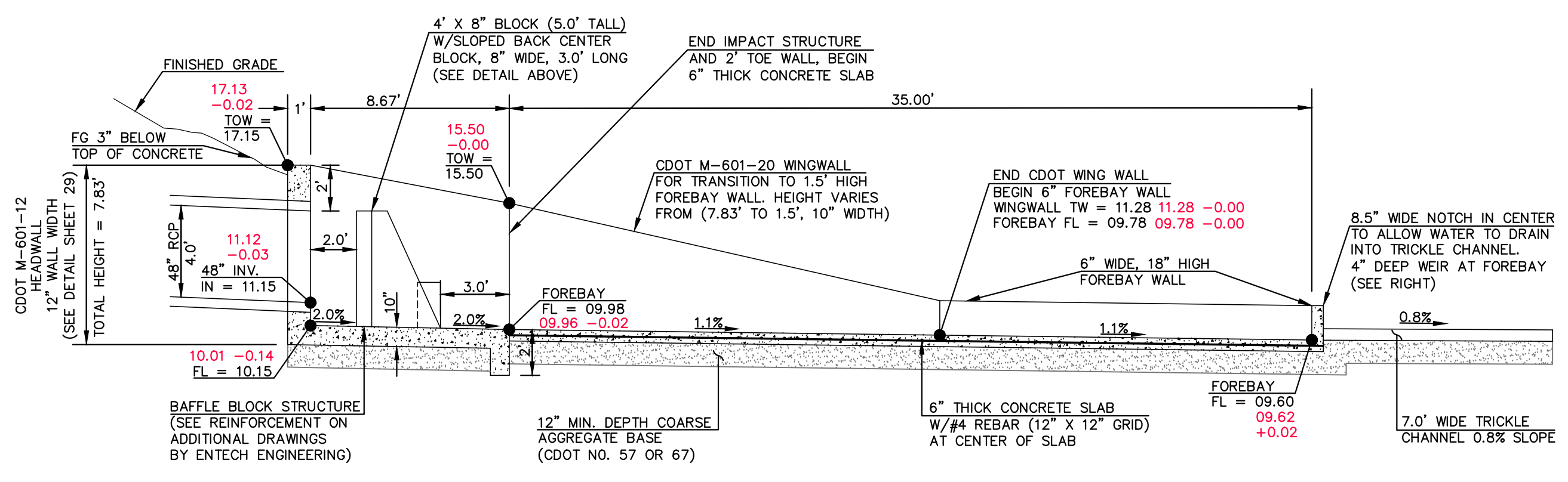
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|------------------------------------|--------------|-------------|----------------|
| FOREST LAKES FILING NO. 7 | | | |
| CONSTRUCTION PLANS | | | |
| OUTFALL L- 30" IMPACT STRUCTURE | | | |
| BYPASS MAIN - 48" IMPACT STRUCTURE | | | |
| DESIGNED BY | MAL | SCALE | DATE 11/23/21 |
| DRAWN BY | MES | (H) 1" = 5' | SHEET 23 OF 31 |
| CHECKED BY | (V) 1" = N/A | JOB NO. | 1175.70 |

N:\117570\DRAWINGS\CONSTRUCTION\STORMA POND_CERTS\23-117570-51M-09-30m-48in-baffle-ASBUILT.dwg, 6/15/2023 1:24:45 PM, 1:1

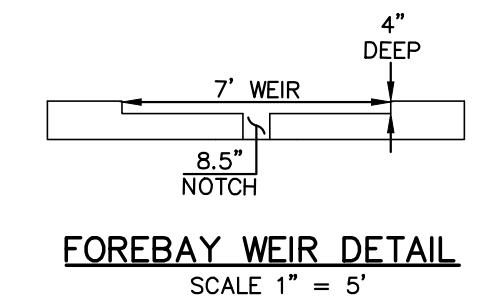
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MAIN 'A' 48" RCP FOREBAY & BAFFLE STRUCTURE - PLAN VIEW
SCALE 1" = 5'



MAIN 'A' 48" RCP FOREBAY & BAFFLE STRUCTURE - PROFILE VIEW
SCALE 1" = 5'



FOREBAY WEIR DETAIL
SCALE 1" = 5'



AS-BUILTS
10/23/2023
SF-21-49

PCD FILE # SF-21-49

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| NO. | REVISION | DATE |
|-----|----------|------|
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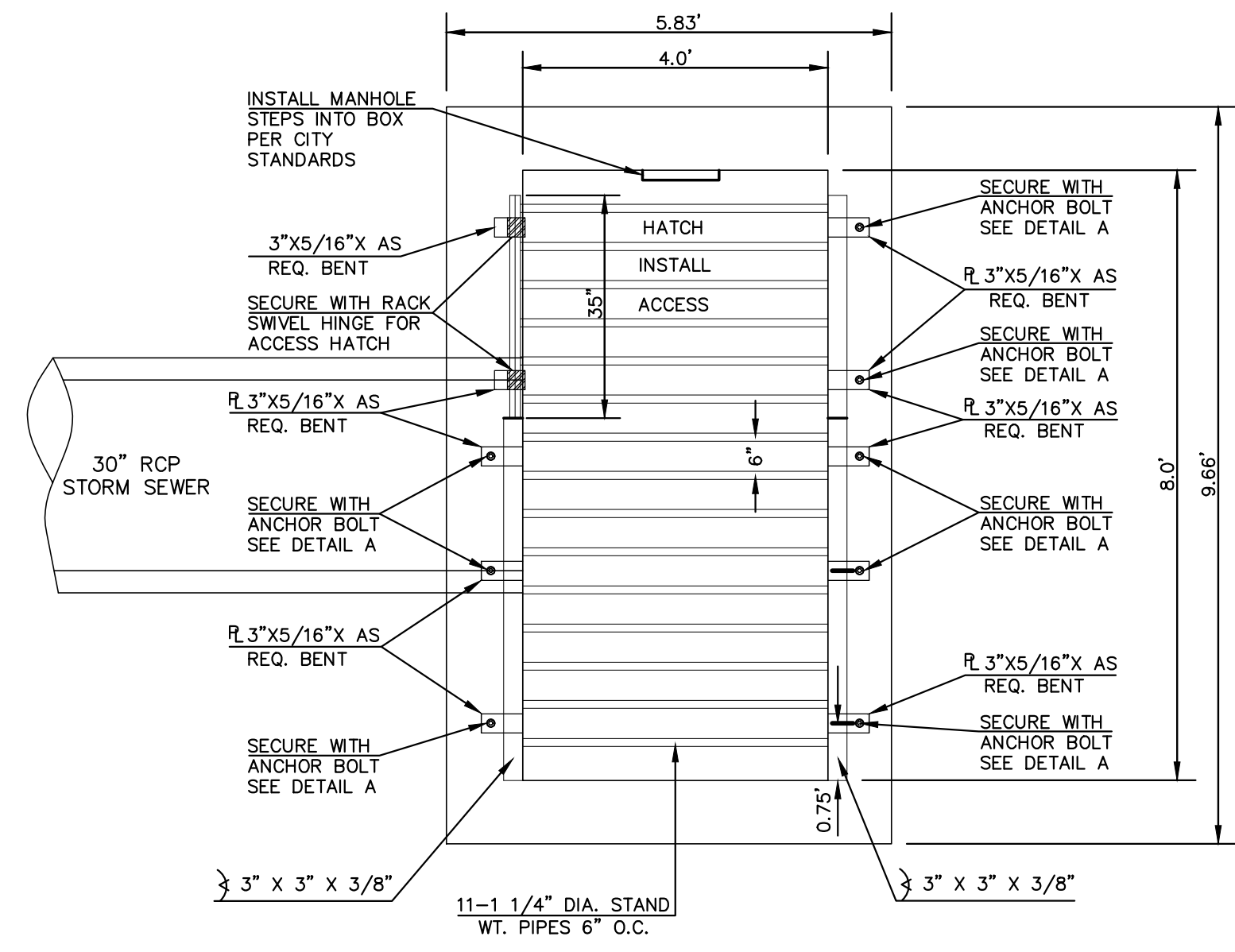
REVIEW:
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

KYLE R. CAMPBELL P.E. #29794
DATE 03/31/22

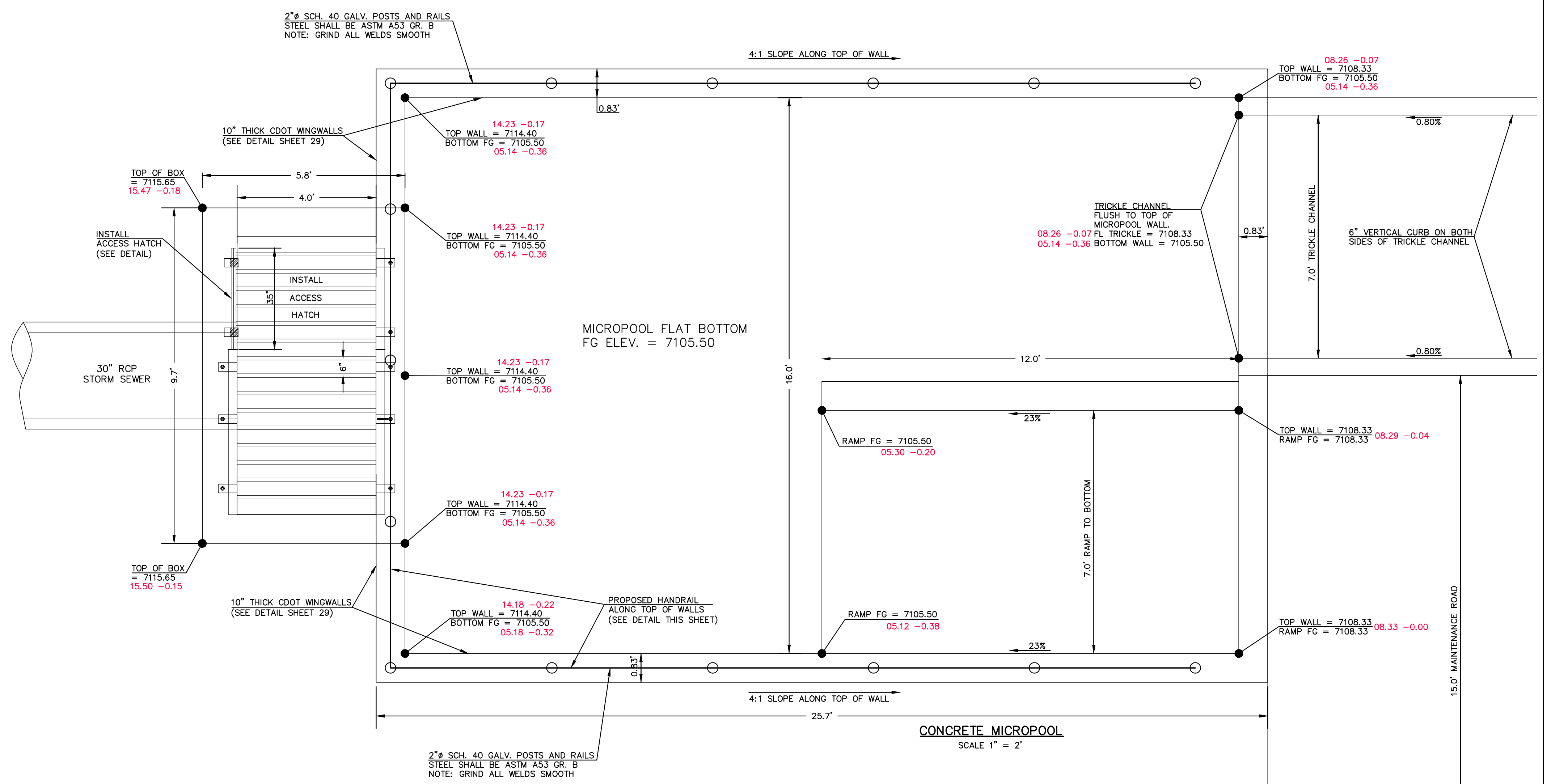
CLASSIC CONSULTING
619 N. Cascade Avenue, Suite 200
Colorado Springs, Colorado 80903
(719)785-0790
(719)785-0799(Fax)

| | | | |
|---|--------------|-------------|----------------|
| FOREST LAKES FILING NO. 7 CONSTRUCTION PLANS | | | |
| MAIN 'A' - 48" IMPACT STRUCTURE & FOREBAY | | | |
| DESIGNED BY | MAL | SCALE | DATE 11/23/21 |
| DRAWN BY | MES | (H) 1" = 5' | SHEET 24 OF 31 |
| CHECKED BY | (V) 1" = N/A | JOB NO. | 1175.70 |





8'x4' OUTLET BOX OVERFLOW TRASH RACK
SCALE 1" = 2'



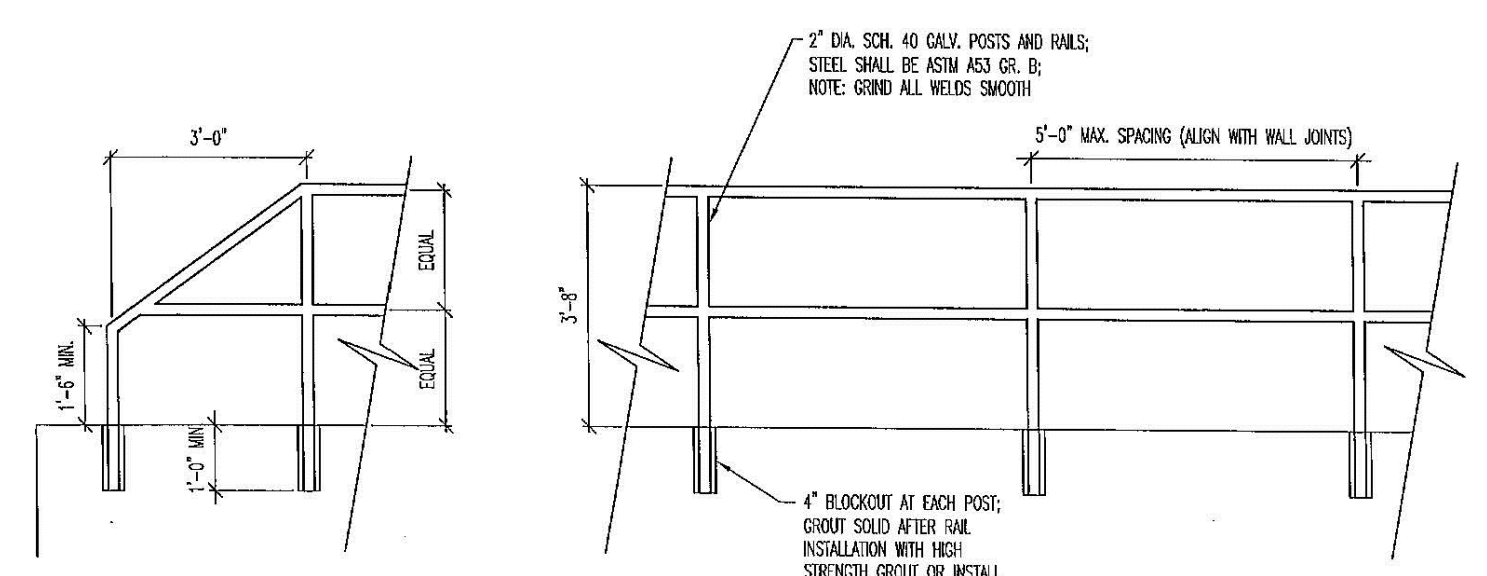
CONCRETE MICROPOOL
SCALE 1" = 2'

STEEL FABRICATION NOTES:

- FABRICATED STEEL STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH AISC AND AWS SPECIFICATIONS.
- THE OUTLET STRUCTURE BARGRATE IS DESIGNED FOR A VERTICAL LOAD OF 300 LBS./SQ. FT.
- ALL STRUCTURAL STEEL SHAPES TO INCLUDE: ANGLE, PLATE, AND BAR SHALL MEET ASTM A36 SPECIFICATIONS, FY = 36 KSI MINIMUM. STRUCTURAL TUBING SHALL MEET ASTM A500 GRADE B SPECIFICATIONS, FY = 46 KSI MINIMUM. STEEL PIPE SHALL BE STANDARD WEIGHT PIPE ASTM A53 GRADE B, FY = 35 KSI MINIMUM.
- WELDS NOT INDICATED SHALL BE 1/8" MINIMUM FILLET OR GROOVE, CONTINUOUS SO FAR AS POSSIBLE, CONSIDER VANDALISM LOADS, WELD ACCORDINGLY AT CRITICAL LOCATIONS.
- PRIOR TO PAINTING REMOVE ALL OIL, SCALE, AND SLAG, GRIND OFF BURRS AND SHARP EDGES.
- PAINT WITH ONE SHOP COAT OF ZINC RICH PRIMER AND TWO COATS OF ALUMINUM PAINT, AASHTO M-69

OVERFLOW TRASH RACKS:

- ALL TRASH RACKS SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE AND PROVIDED WITH HINGED AND LOCKABLE ACCESS PANELS (AS SHOWN)
- TRASH RACKS SHALL BE STAINLESS STEEL, ALUMINUM, OR STEEL. STEEL TRASH RACKS SHALL BE HOT DIP GALVANIZED AND MAY BE HOT POWDER COATED AFTER GALVANIZING.
- TRASH RACKS SHALL BE DESIGNED SUCH THAT THE DIAGONAL DIMENSION OF EACH OPENING IS SMALLER THAN THE DIAMETER OF THE OUTLET PIPE.
- STRUCTURAL DESIGN OF THE TRASH RACKS SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF THE RACK.

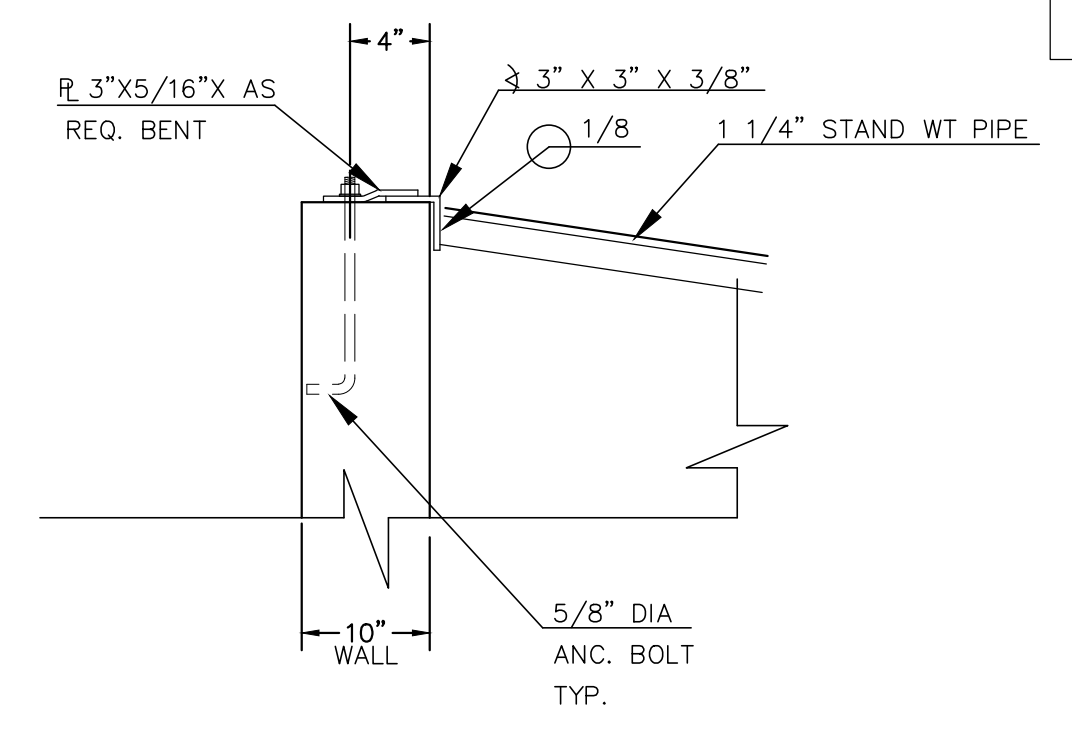


MICROPOOL RAILING

NOTES:

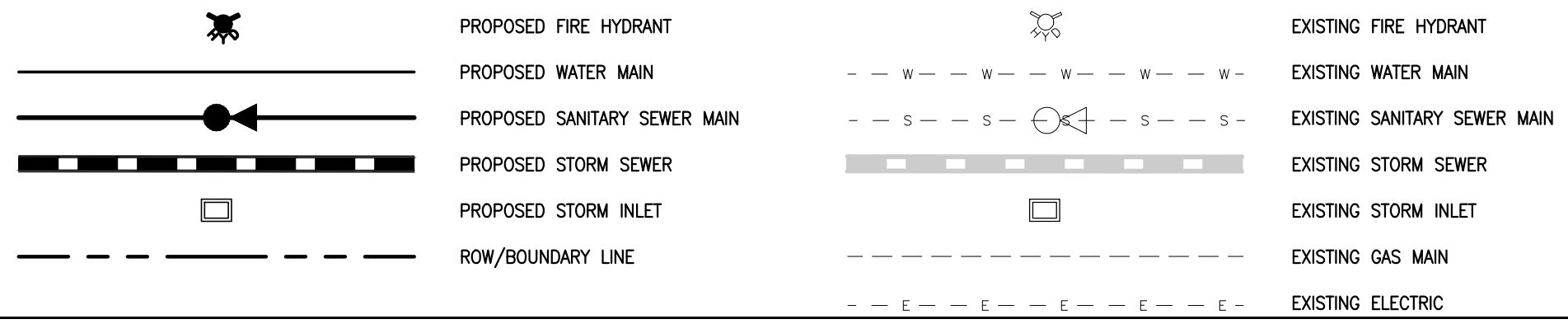
- WELD PLATES MAY BE SUBSTITUTED FOR PIPE EMBEDMENT.
- DESIGN CRITERIA SHALL BE IN ACCORDANCE WITH AASHTO STANDARDS.
- HANDRAIL DESIGN SHALL BE COMPATIBLE WITH THE DESIGN OF THE WINGWALLS AND HEADWALLS.
- RAILING POSTS SHALL BE SET TO NORMAL TO GRADE. RAILS SHALL RUN PARALLEL TO THE SLOPES OF TOPS OF THE WALLS.
- ALL RAILS SHALL HAVE EXPANSION JOINTS SPACED AT 40'-0" MAX. JOINT ENDS SHALL BE FREE OF ANY SHARP EDGES OR CORNERS.
- HANDRAIL FINISH SHALL BE ONE COAT RED METAL PRIMER AND TWO COATS ENAMEL (RUSTOLEUM OR EQUIVALENT). COLOR SHALL BE APPROVED BY ENGINEER PRIOR TO APPLICATION.

INLET/OUTLET BOX RAILING
N.T.S.



ANCHOR BOLT/GRATE DETAIL
N.T.S.

LEGEND



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| NO. | REVISION | DATE |
|-----|----------|------|
| | | |
| | | |
| | | |

REVIEW:
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

KYLE R. CAMPBELL
P.E. #29794

03/31/22



FOREST LAKES FILING NO. 7
CONSTRUCTION PLANS

POND OUTLET BOX AND MICROPOOL DETAILS

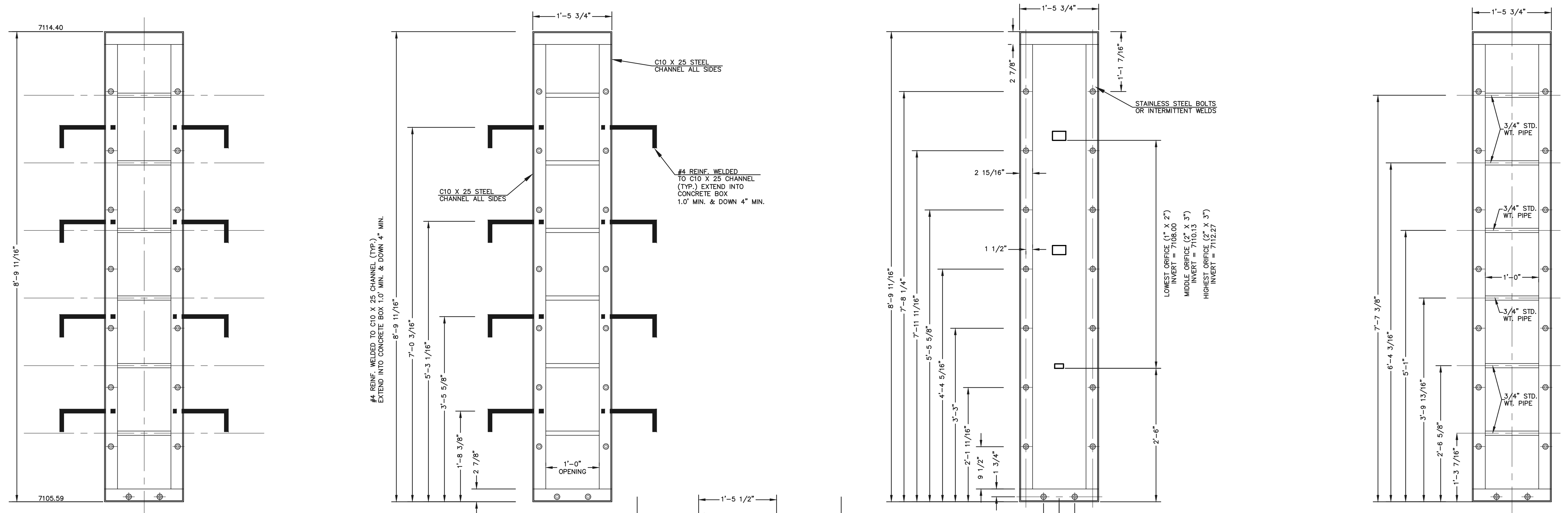
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| DESIGNED BY | MAL | SCALE | DATE | 11/23/21 |
| DRAWN BY | MES | (H) 1" = 2' | SHEET | 26 OF 31 |
| CHECKED BY | (V) 1" = N/A | JOB NO. | 1175.70 | |



AS-BUILTS
10/23/2023
SF-21-49

PCD FILE # SF-21-49

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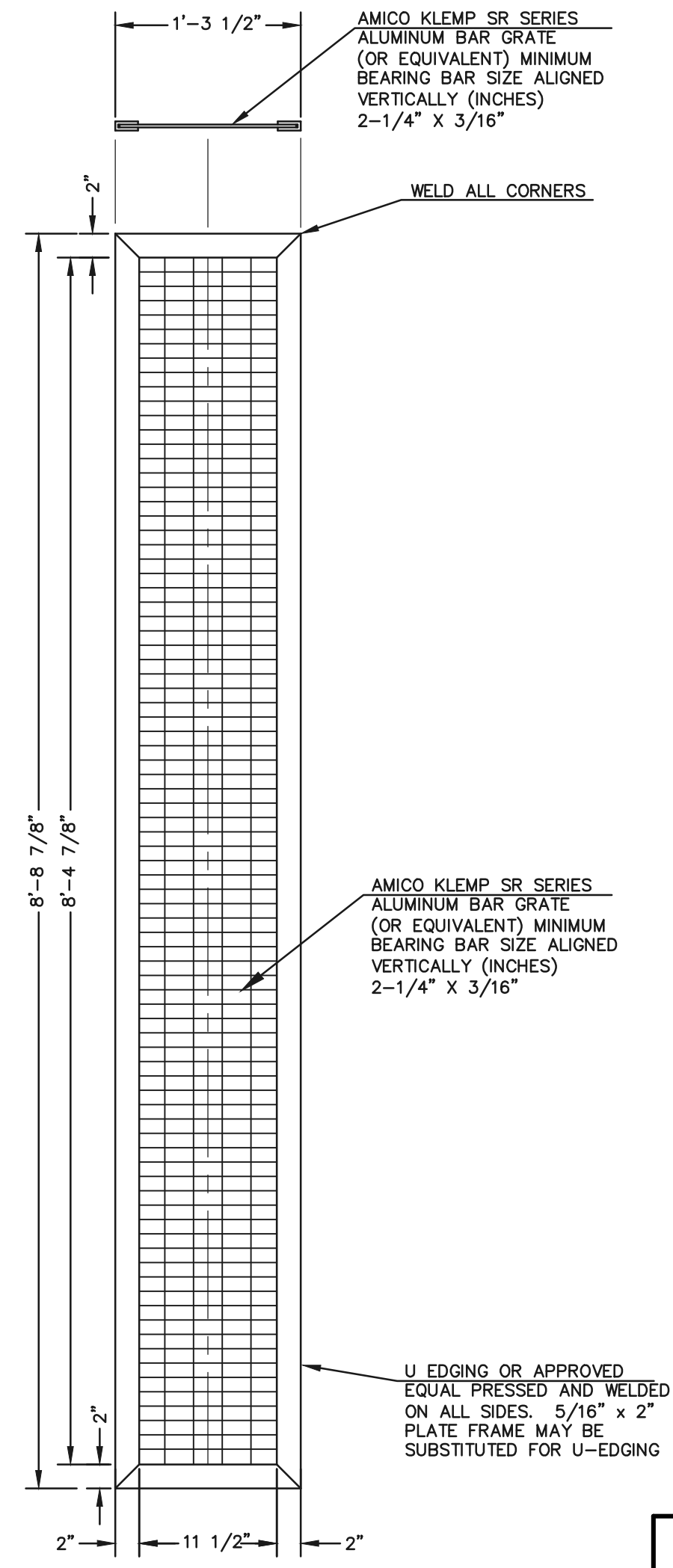


OUTLET CONTROL PLATE AND FRAME
SCALE: 1"=1'

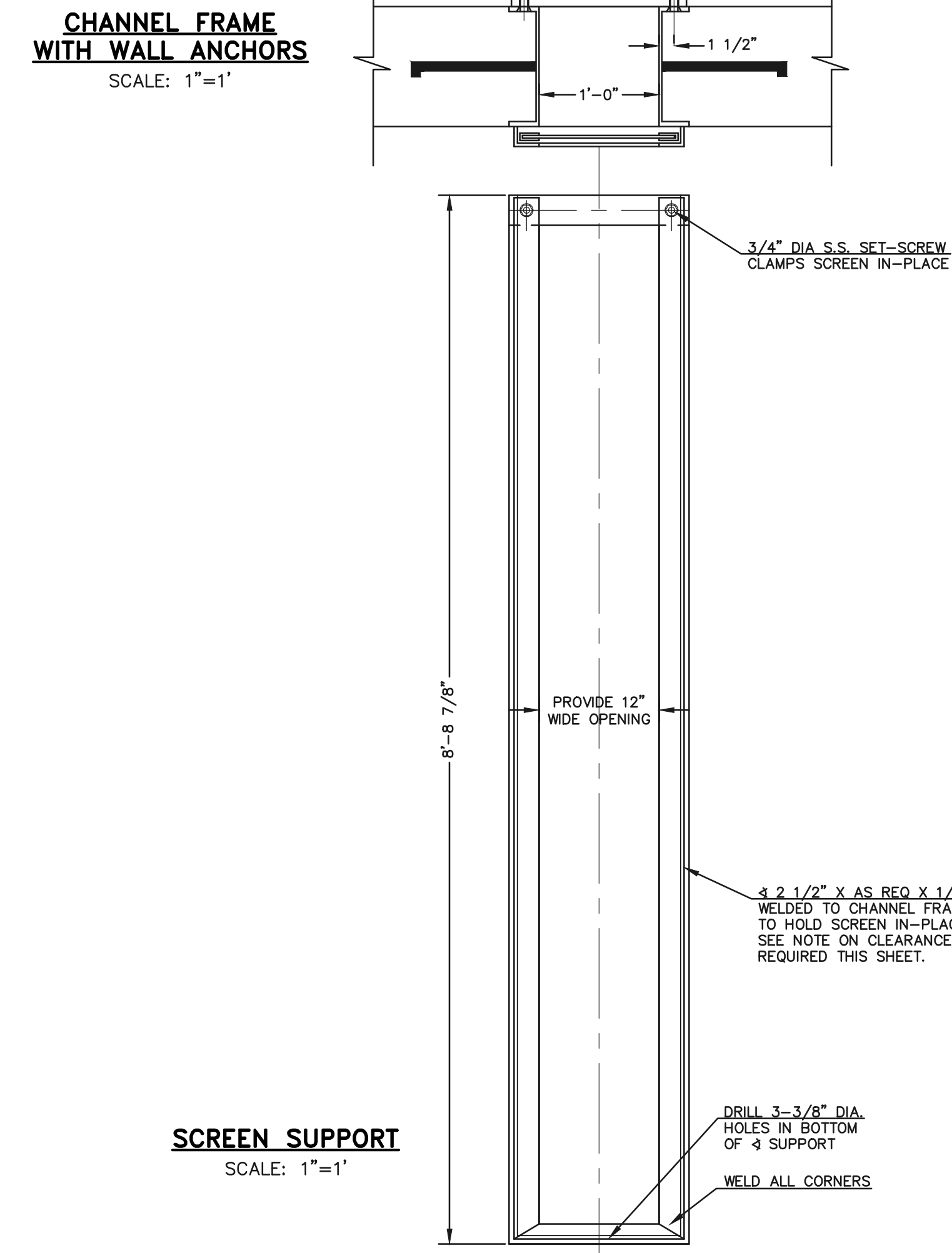
CHANNEL FRAME WITH WALL ANCHORS
SCALE: 1"=1'

1/4" THICK ORIFICE PLATE
SCALE: 1"=1'

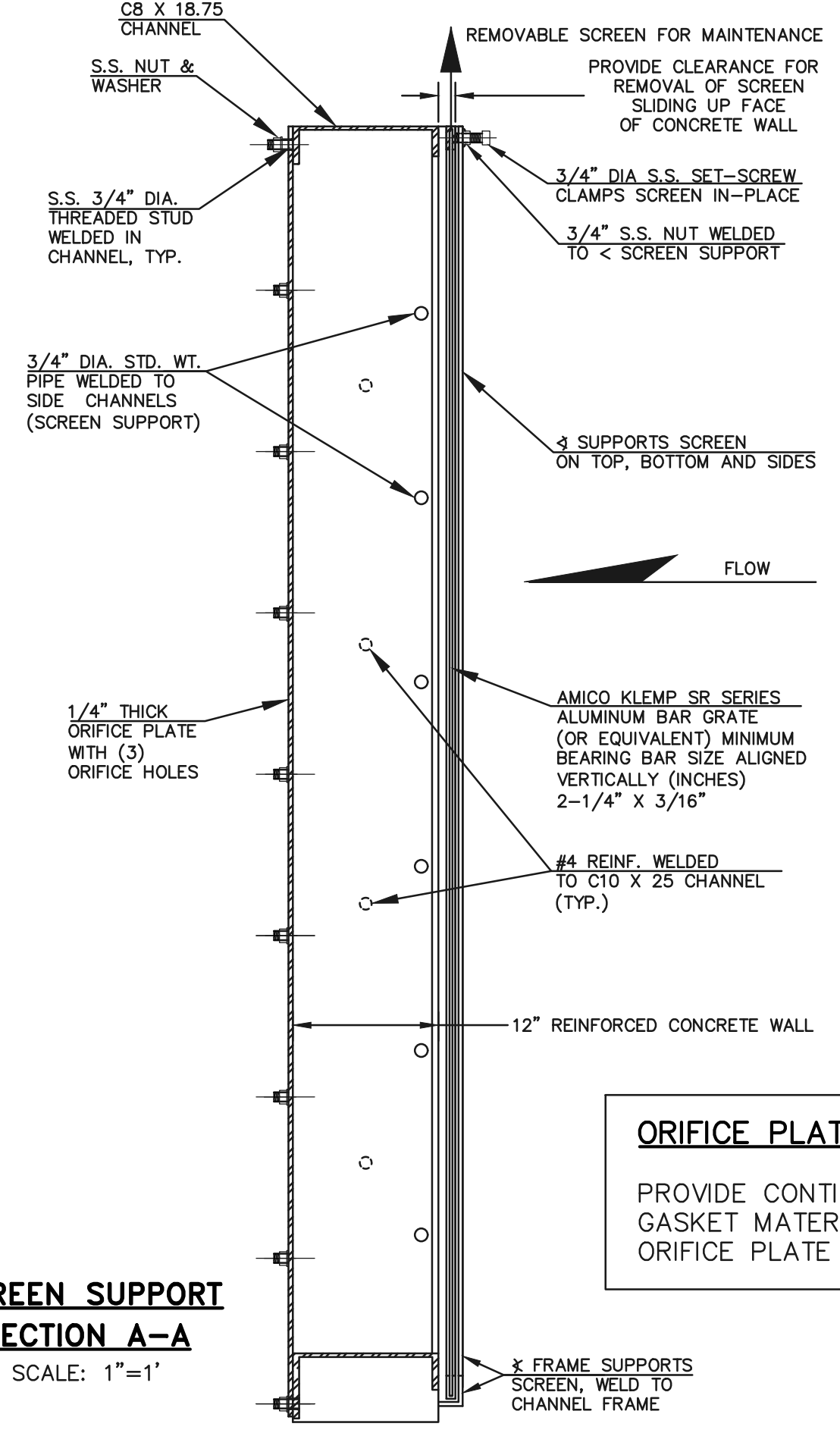
CHANNEL FRAME
SCALE: 1"=1'



TRASH SCREEN
SCALE: 1"=1'



SCREEN SUPPORT
SCALE: 1"=1'



SCREEN SUPPORT SECTION A-A
SCALE: 1"=1'

ORIFICE PLATE NOTE:
PROVIDE CONTINUOUS NEOPRENE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE



AS-BUILTS
10/23/2023
SF-21-49

PCD FILE # SF-21-49

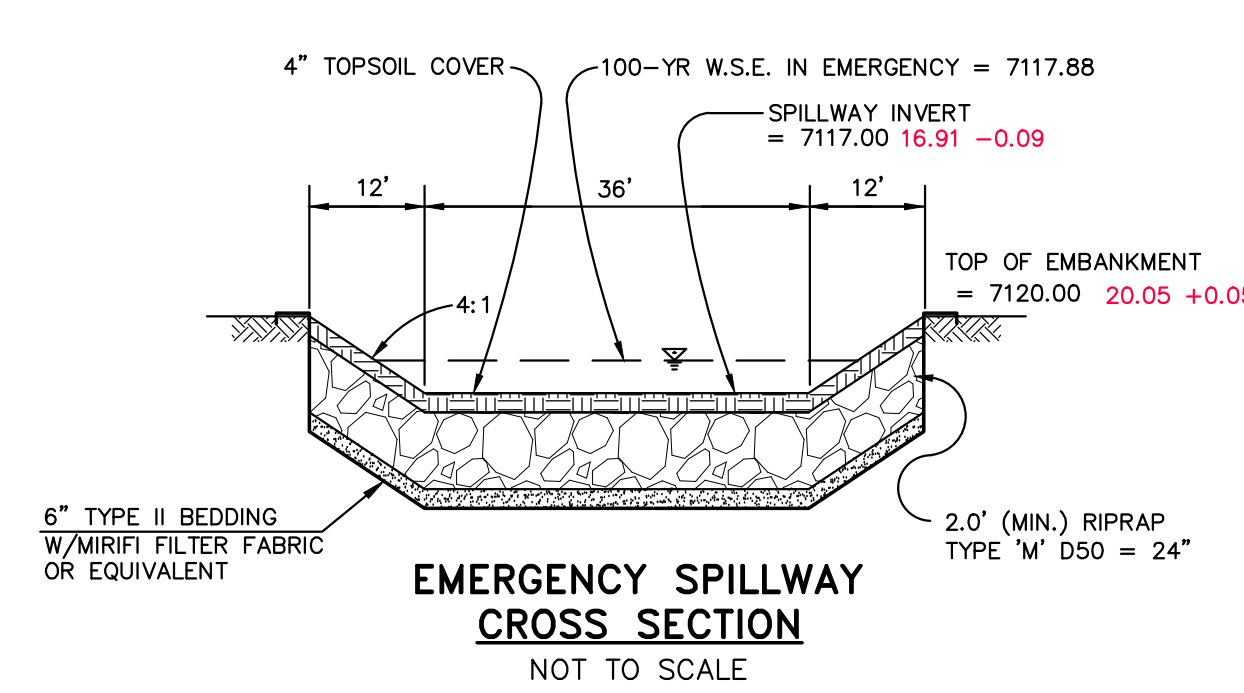
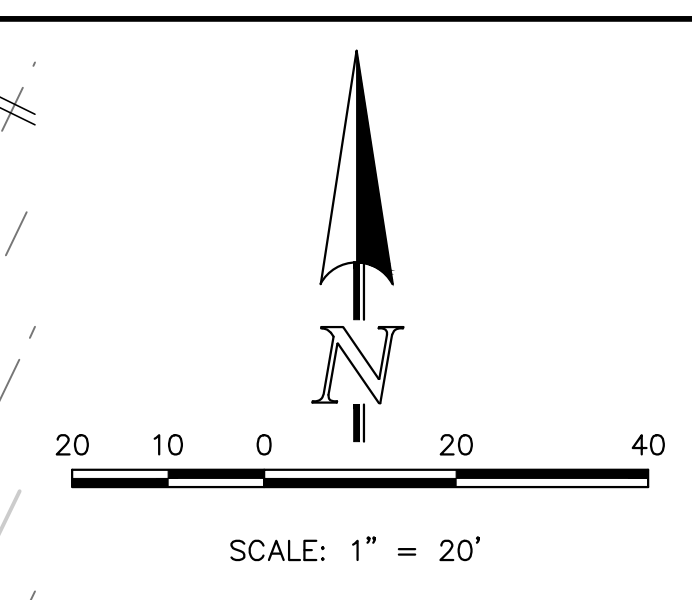
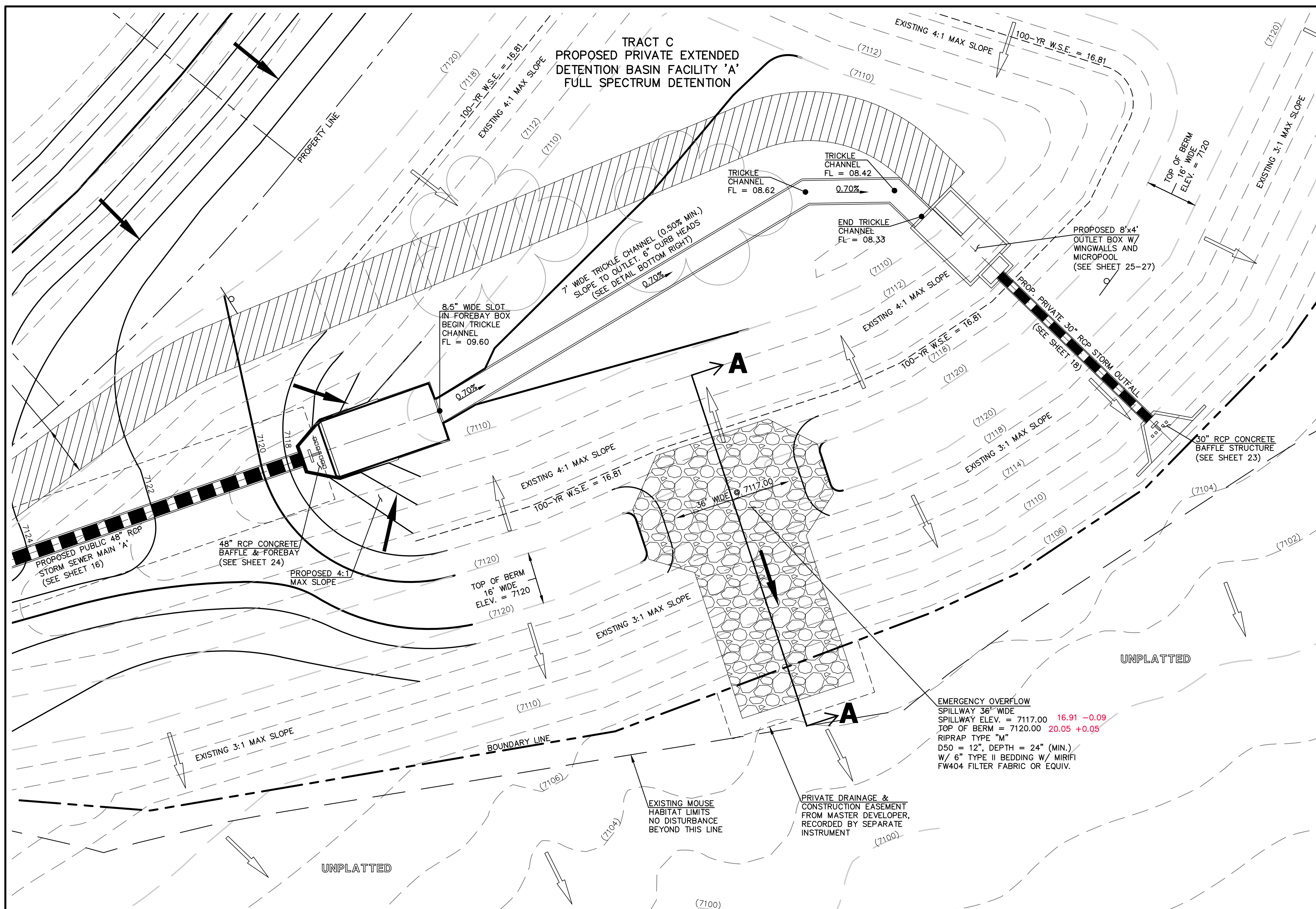
| | | | |
|--|--|--------------|------|
| 48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS 811 UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW | | NO. REVISION | DATE |
| THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. | | | |

REVIEW:
PREPARED UNDER THE SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING AND SURVEYORS, LLC
KYLE R. CAMPBELL, P.E. #29794
DATE: 03/31/22

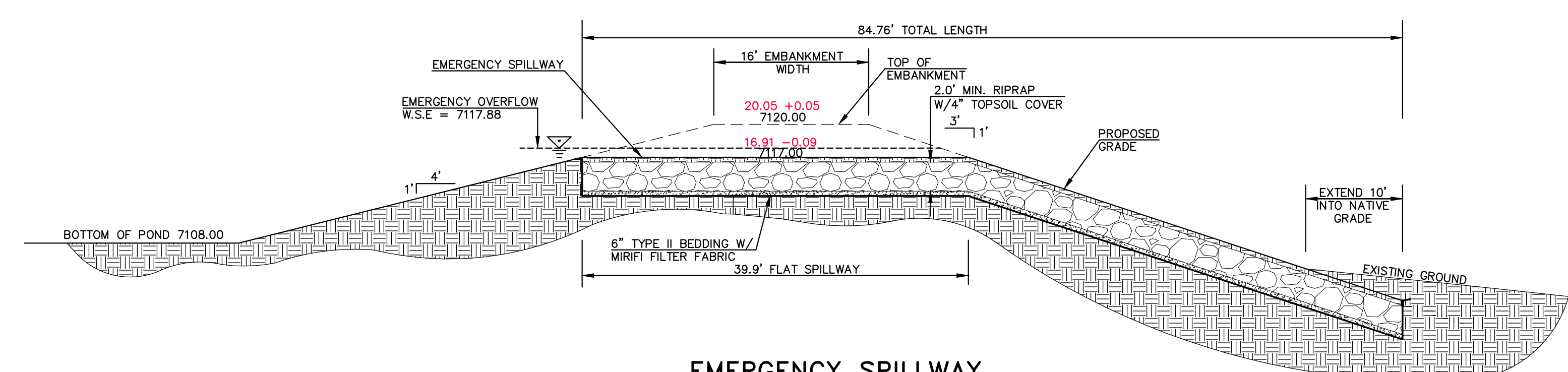


| | | | |
|---|-------------|------------|----------------|
| FOREST LAKES FILING NO. 7 CONSTRUCTION PLANS | | | |
| OUTLET BOX DETAILS EPC 5/12/2022 | | | |
| DESIGNED BY | MAL | SCALE | DATE 11/23/21 |
| DRAWN BY | MES | (H) 1"= 1' | SHEET 27 OF 31 |
| CHECKED BY | (V) 1"= N/A | JOB NO. | 1175.70 |

N:\117570\DRAWINGS\CONSTRUCTION\STORMA\27-117570-STA-13-outlet_box_details.dwg, 3/31/2022, 2:49:57 PM, 1:1



**EMERGENCY SPILLWAY,
EMBANKMENT, AND RUNDOWN
PLAN VIEW**
SCALE: 1" = 20'



**EMERGENCY SPILLWAY
PROFILE AT EMBANKMENT
SECTION A-A**
SCALE: 1" = 10'



AS-BUILTS
10/23/2023
SF-21-49

PCD FILE # SF-21-49

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| NO. | REVISION | DATE |
|-----|----------|------|
| | | |
| | | |
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REVIEW:
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

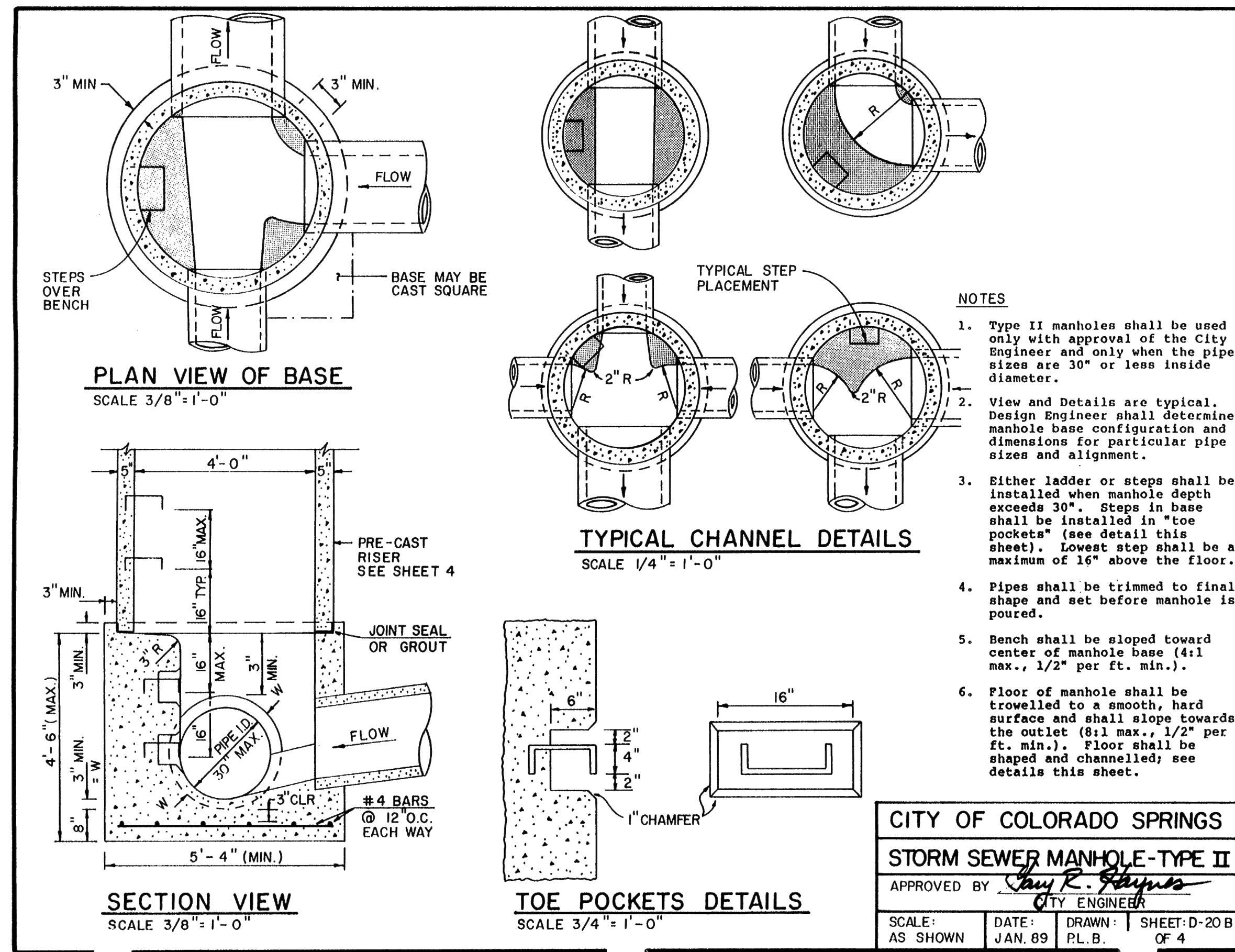
Kyle R. Campbell
KYLE R. CAMPBELL, P.E. #29794

03/31/22
DATE



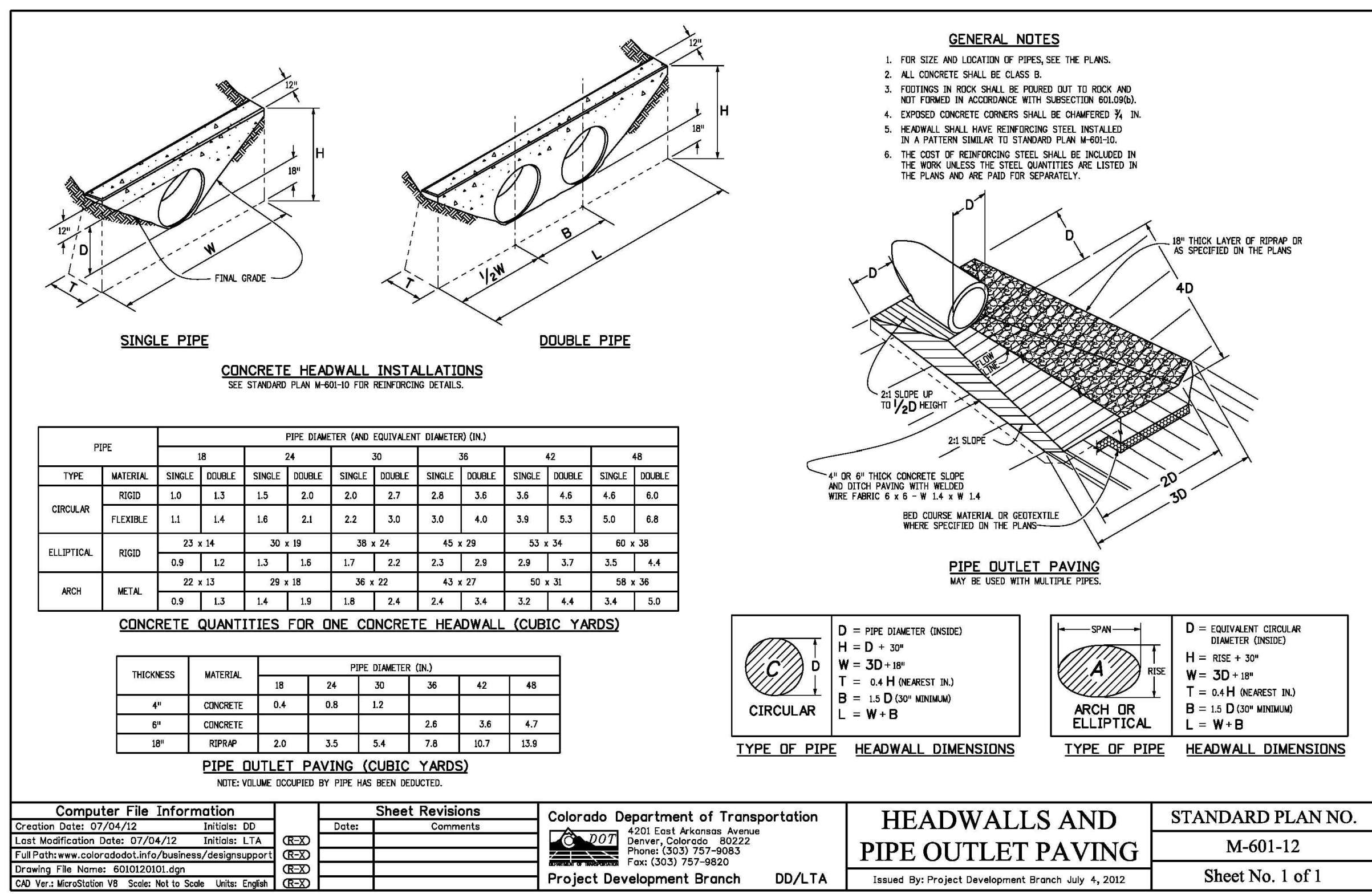
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| POND SPILLWAY DETAILS | | | |
| DESIGNED BY | MAL | SCALE | DATE 11/23/21 |
| DRAWN BY | MES | (H) 1"=VARIES | SHEET 28 OF 31 |
| CHECKED BY | (V) 1"= N/A | JOB NO. | 1175.70 |

N:\17570\DRAWINGS\CONSTRUCTION\STORM\POND_CERTS\28-117570-STM-14-spillway_details-ASBUILT.dwg, 8/15/2023 1:28:14 PM, 1:1



CITY OF COLORADO SPRINGS
STORM SEWER MANHOLE-TYPE II
APPROVED BY: *Jay R. Stephens*
CITY ENGINEER

SCALE: AS SHOWN DATE: JAN. 89 PL. B. SHEET: D-20B OF 4

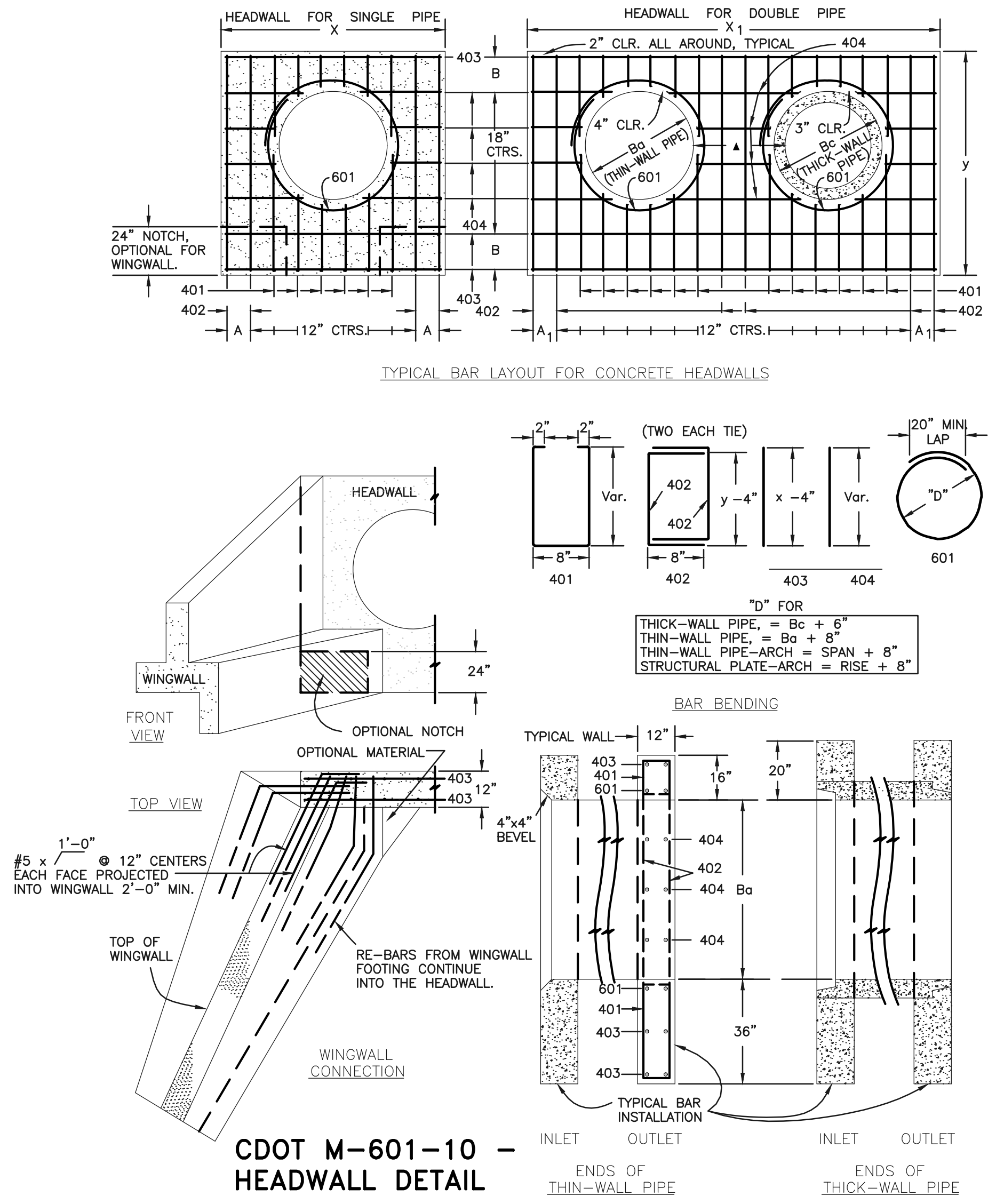


CDOT M-601-12 HEADWALL DETAIL

GENERAL NOTES

- ALL EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 3/4".
- WINGWALL FOOTINGS AND FLOOR OF BOX CULVERT SHALL BE PLACED MONOLITHICALLY.
- DIMENSIONS "H", "B", "R", "T", "L", "M" AND ANGLES FOR WINGWALLS SHALL BE AS SHOWN ON THE PLANS.
- REINFORCING STEEL SHALL BE GRADE 60.
- THE MINIMUM SPLICE LENGTH FOR COMMON BAR SIZES SHALL BE:

| BAR | #4 | #5 | #6 |
|---------------|-------|-------|-------|
| SPLICE LENGTH | 1'-3" | 1'-7" | 2'-0" |



DIMENSIONS

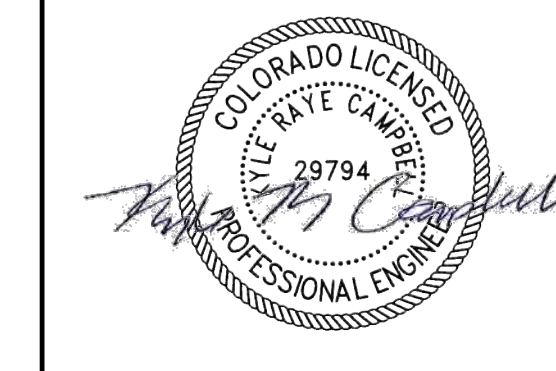
| Ba | Bc | X | A | X1 | A1 | y | B | X2 | SGL | DBL | SGL | DBL |
|-----|-----|---------|--------|---------|--------|---------|-----|-----|--------|--------|--------|--------|
| in. | in. | ft.-in. | in. | ft.-in. | in. | ft.-in. | in. | in. | cu.yd. | cu.yd. | cu.yd. | cu.yd. |
| 54 | 65 | 8-9 | 8 1/2 | 15-6 | 7 | 9-2 | 17 | 20 | 2.12 | 3.55 | 2.09 | 3.04 |
| 60 | 72 | 9-6 | 7 | 17-0 | 10 | 9-8 | 11 | 21 | 2.35 | 3.99 | 2.36 | 4.14 |
| 66 | 79 | 10-3 | 11 1/2 | 18-6 | 7 | 10-2 | 14 | 22 | 2.60 | 4.44 | 2.49 | 4.53 |
| 72 | 86 | 11-0 | 10 | 20-0 | 10 | 10-8 | 17 | 23 | 2.85 | 4.91 | 2.70 | 4.76 |
| 78 | 93 | 11-9 | 8 1/2 | 21-3 | 11 | 11-2 | 11 | 24 | 3.11 | 5.29 | 3.06 | 5.27 |
| 84 | 100 | 12-6 | 7 | 22-6 | 7 | 11-8 | 14 | 25 | 3.38 | 5.68 | 3.33 | 5.72 |
| 90 | 107 | 13-3 | 11 1/2 | 23-9 | 8 1/2 | 12-2 | 17 | 26 | 3.66 | 6.09 | 3.59 | 5.93 |
| 96 | 114 | 14-0 | 10 | 25-0 | 10 | 12-8 | 11 | 27 | 3.94 | 6.48 | 3.79 | 6.49 |
| 102 | 121 | 14-9 | 8 1/2 | 26-3 | 11 1/2 | 13-2 | 14 | 28 | 4.24 | 6.89 | 4.00 | 6.64 |
| 108 | 128 | 15-6 | 7 | 27-6 | 7 | 13-8 | 17 | 29 | 4.54 | 7.30 | 4.24 | 7.07 |

QUANTITIES

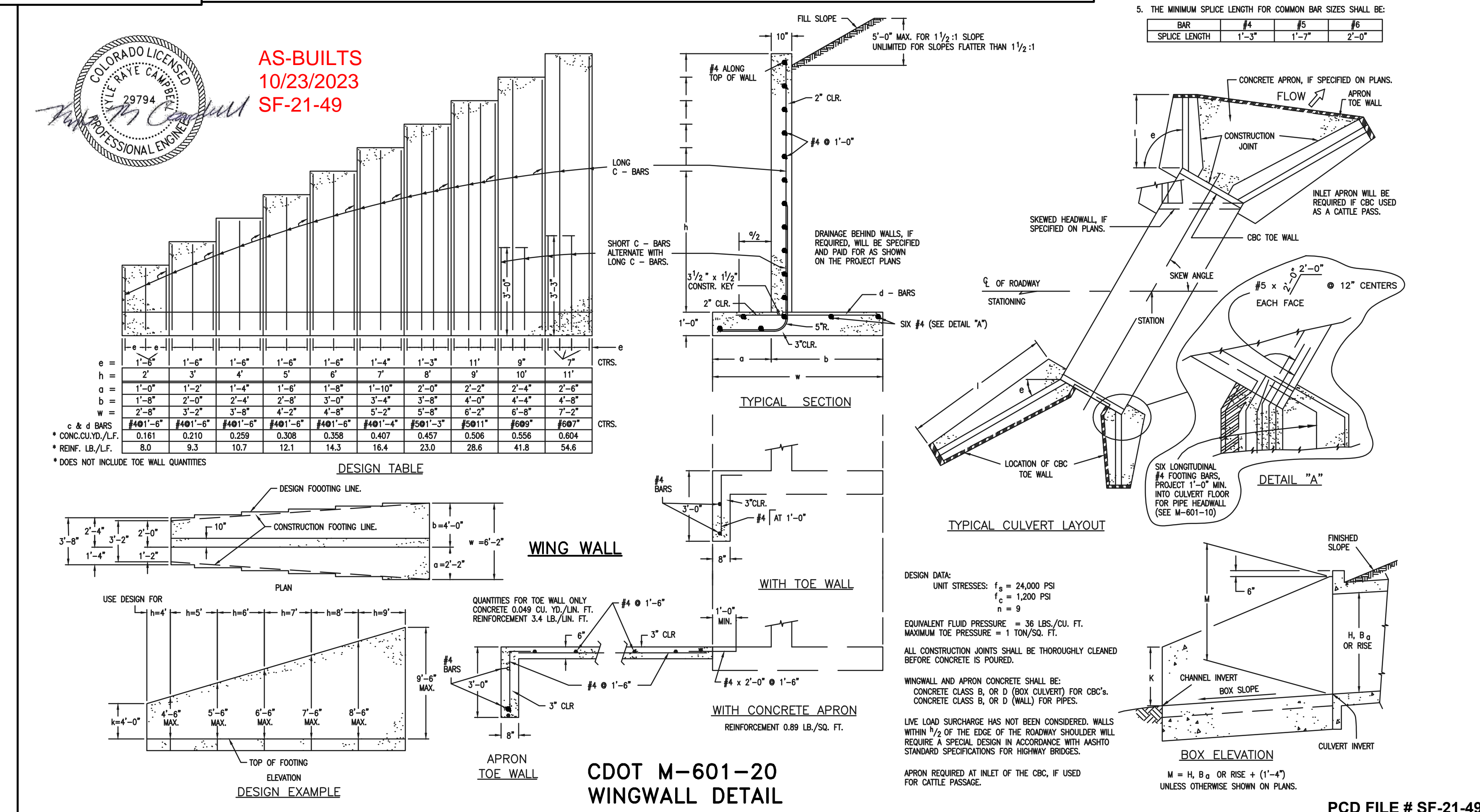
CONCRETE

STEEL

- GENERAL NOTES**
- CONCRETE SHALL BE CLASS B.
 - HEADWALL SHALL BE PERPENDICULAR TO THE CULVERT Q UNLESS OTHERWISE SHOWN ON THE PLANS. TABULATED DIMENSIONS AND QUANTITIES MUST BE ADJUSTED FOR SKEWED INSTALLATIONS.
 - FOR WINGWALL DETAILS, SEE STANDARD M-601-20.
 - VOLUME OCCUPIED BY PIPE HAS BEEN DEDUCTED FROM STEEL AND CONCRETE QUANTITIES.
 - EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 3/4".
 - ALL BARS SHALL HAVE A 2" MINIMUM CLEARANCE.
 - WHEN TWO OR MORE CONDUITS ARE LAID SIDE BY SIDE, THEY SHALL BE PLACED SO THAT THE ADJACENT PIPES WILL BE 1/2 INSIDE DIAMETER OR 1/2 INSIDE SPAN OR 3 FEET APART (INCLUDING WALL THICKNESS) WHICHEVER IS LESS.
 - ADD 0.89 X (X OR X1) (LB) WHEN APRON IS REQUIRED.



AS-BUILTS
10/23/2023
SF-21-49



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|-----|----------|------|
| | | |
| | | |
| | | |

REVIEW:

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

CLASSIC CONSULTING

KYLE R. CONNOR, P.E. #29794

03/31/22

CLASSIC CONSULTING

619 N. Cascade Avenue, Suite 200
Colorado Springs, Colorado 80903

(719)785-0790
(719)785-0799(fax)

FOREST LAKES FILING NO. 7
CONSTRUCTION PLANS

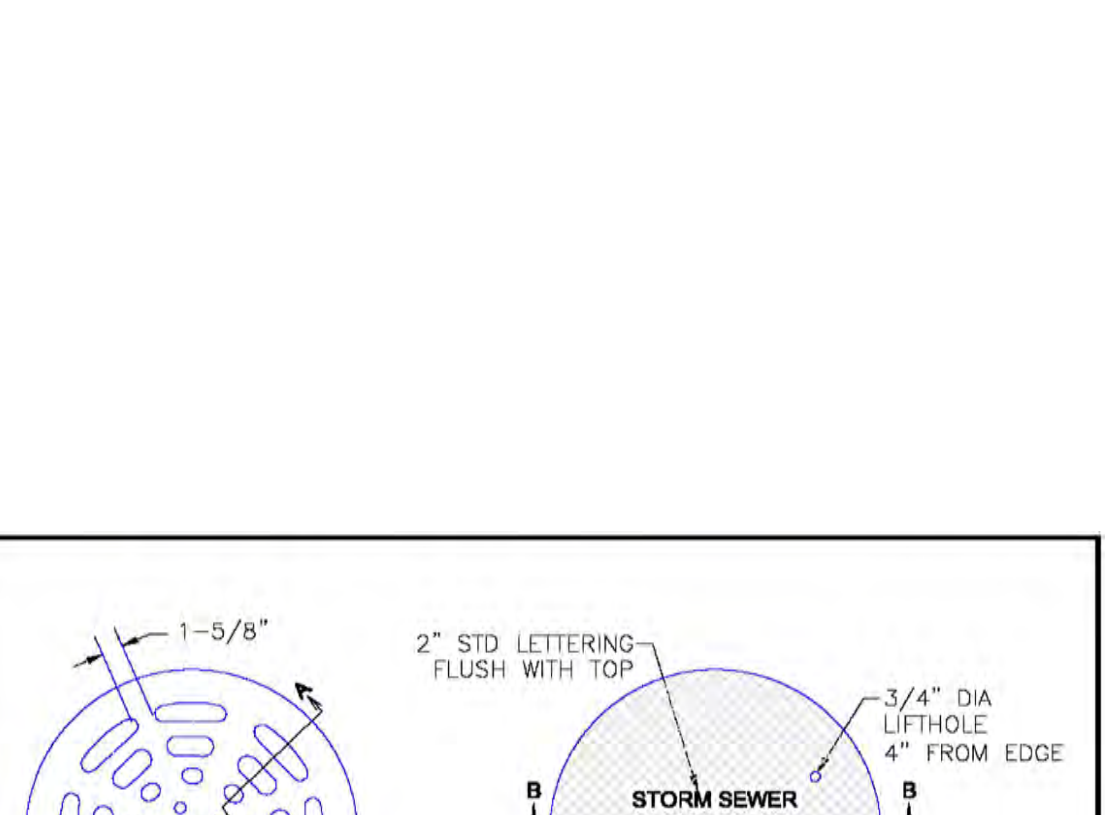
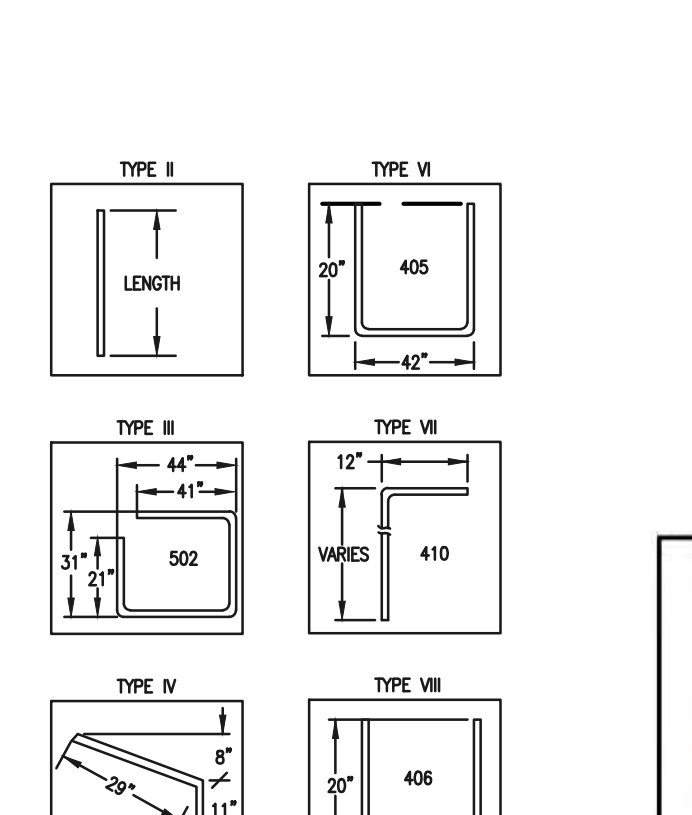
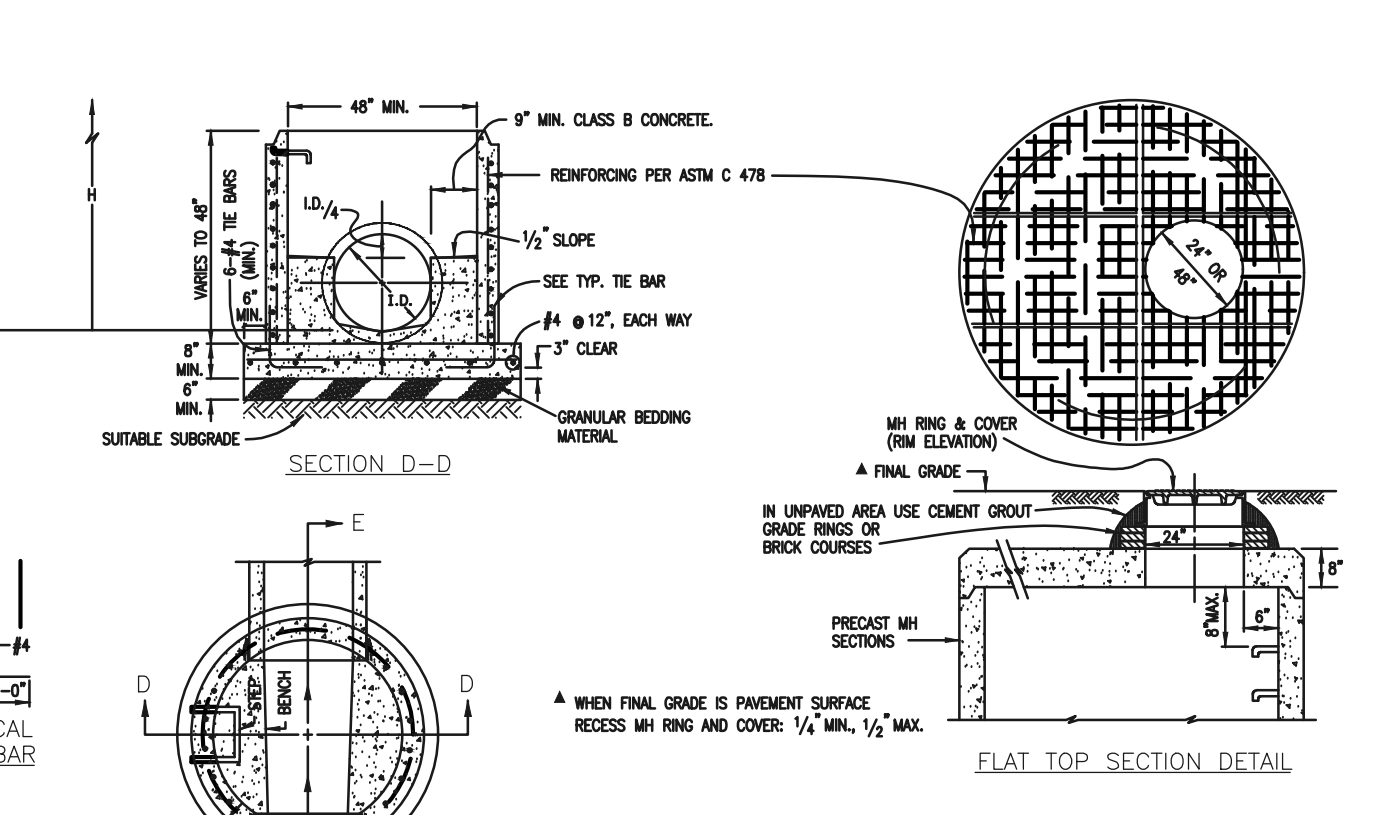
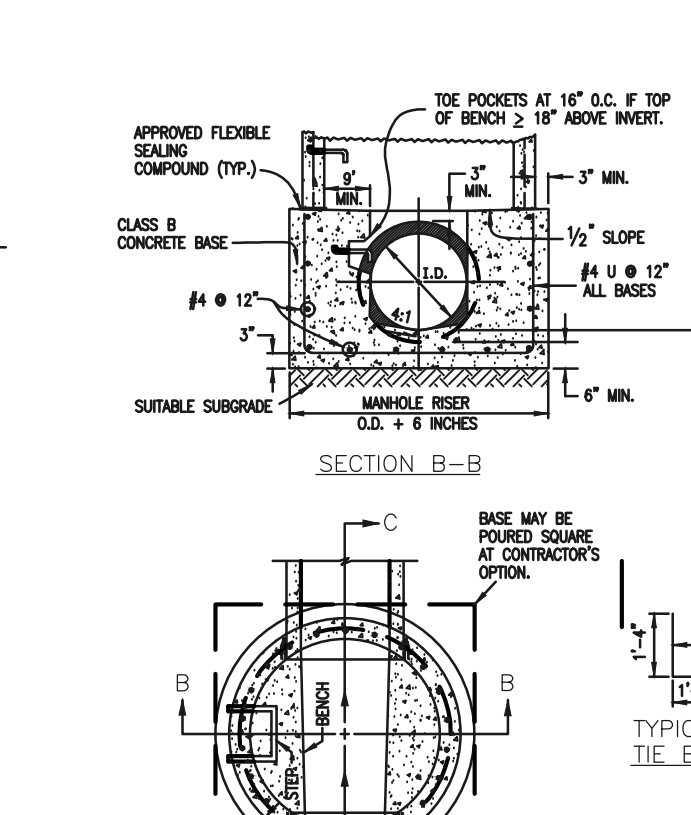
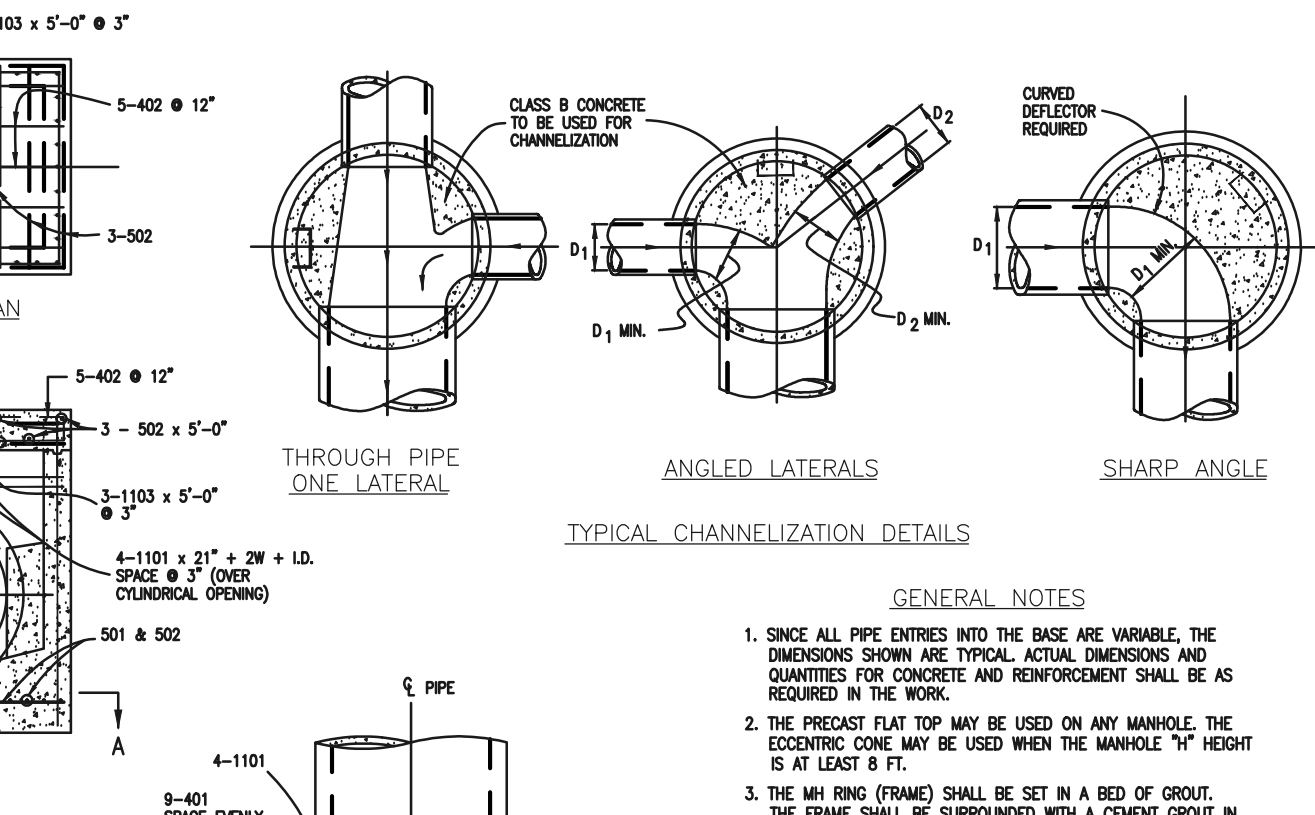
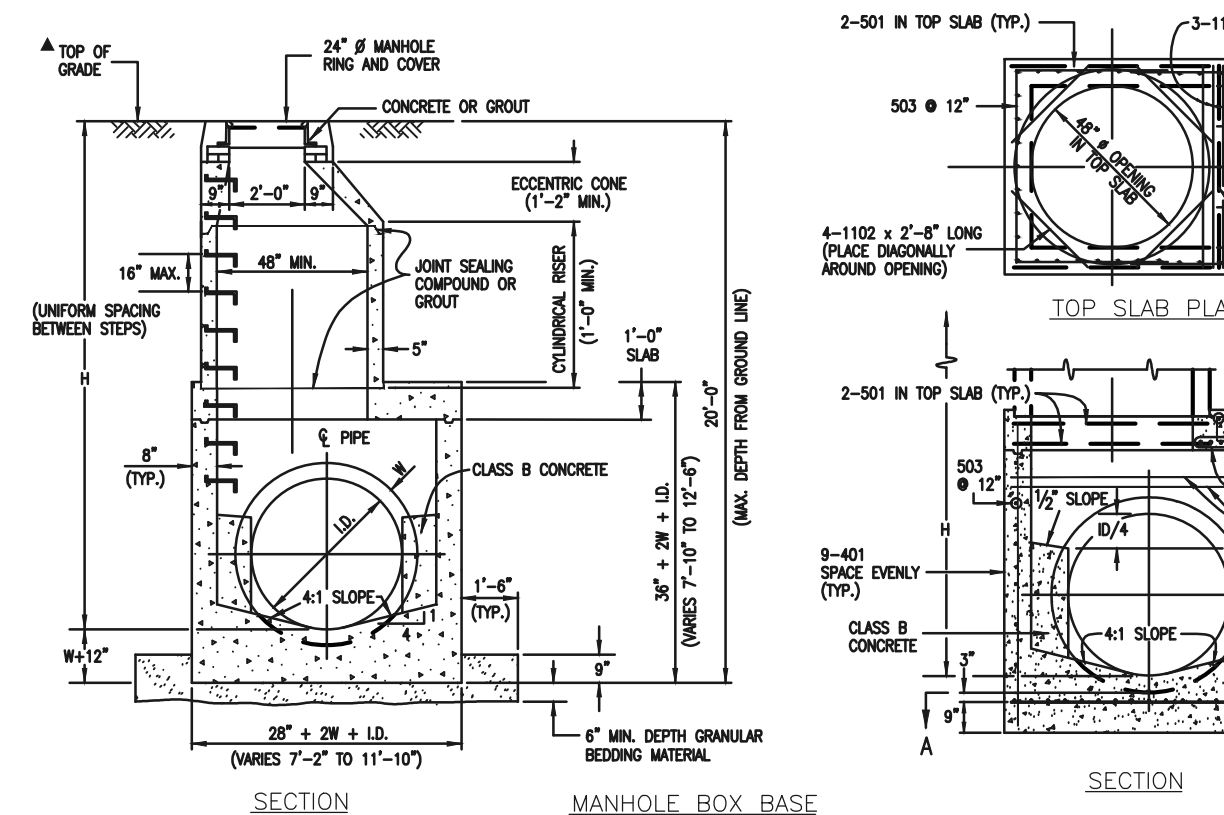
DETAILS SHEET EPC 5/12/2022

| DESIGNED BY | SCALE | DATE |
|-------------|--------------|----------|
| MES | (H) 1" = N/A | 11/23/21 |

| DRAWN BY | SCALE | SHEET | OF |
|----------|--------------|-------|----|
| MES | (V) 1" = N/A | 29 | 31 |

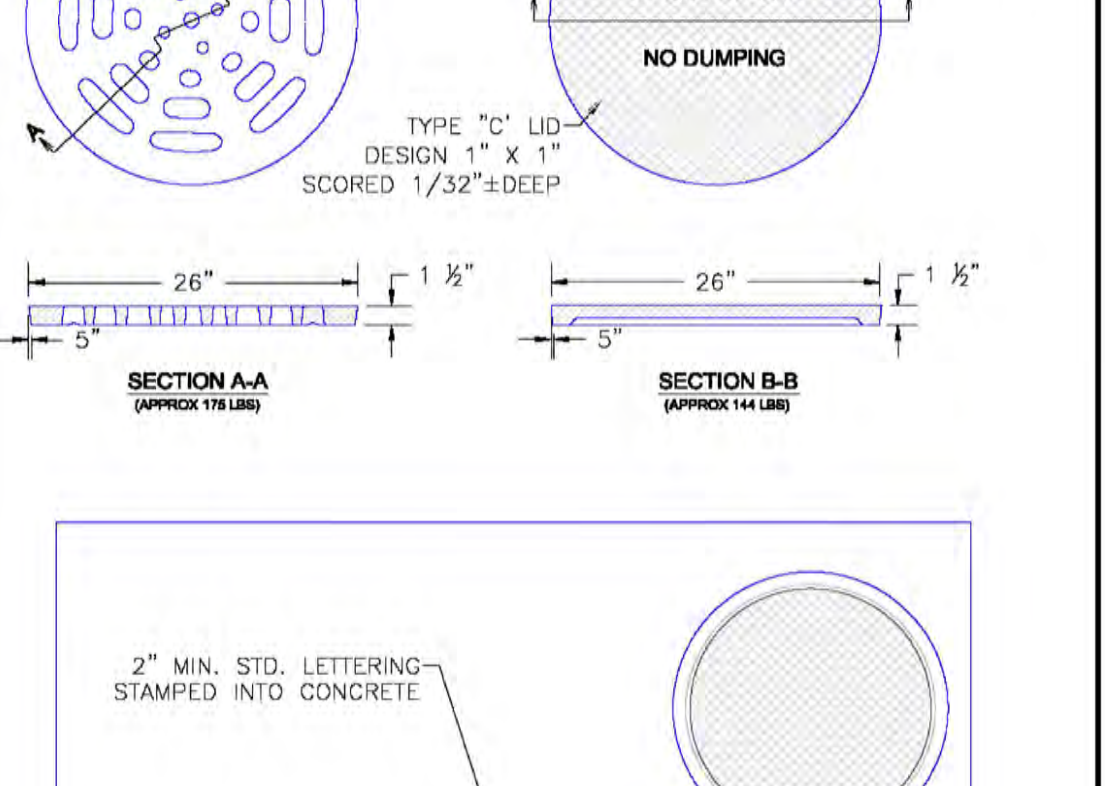
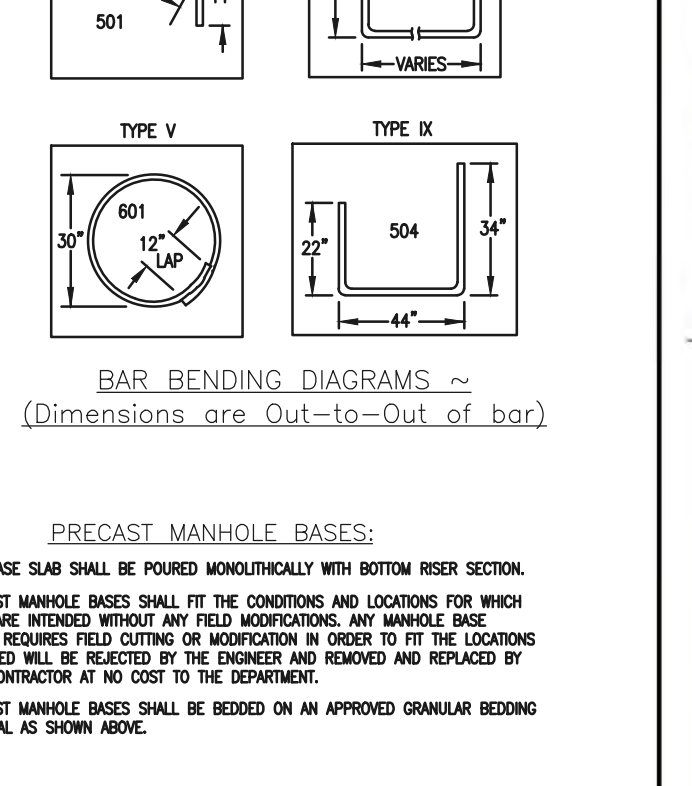
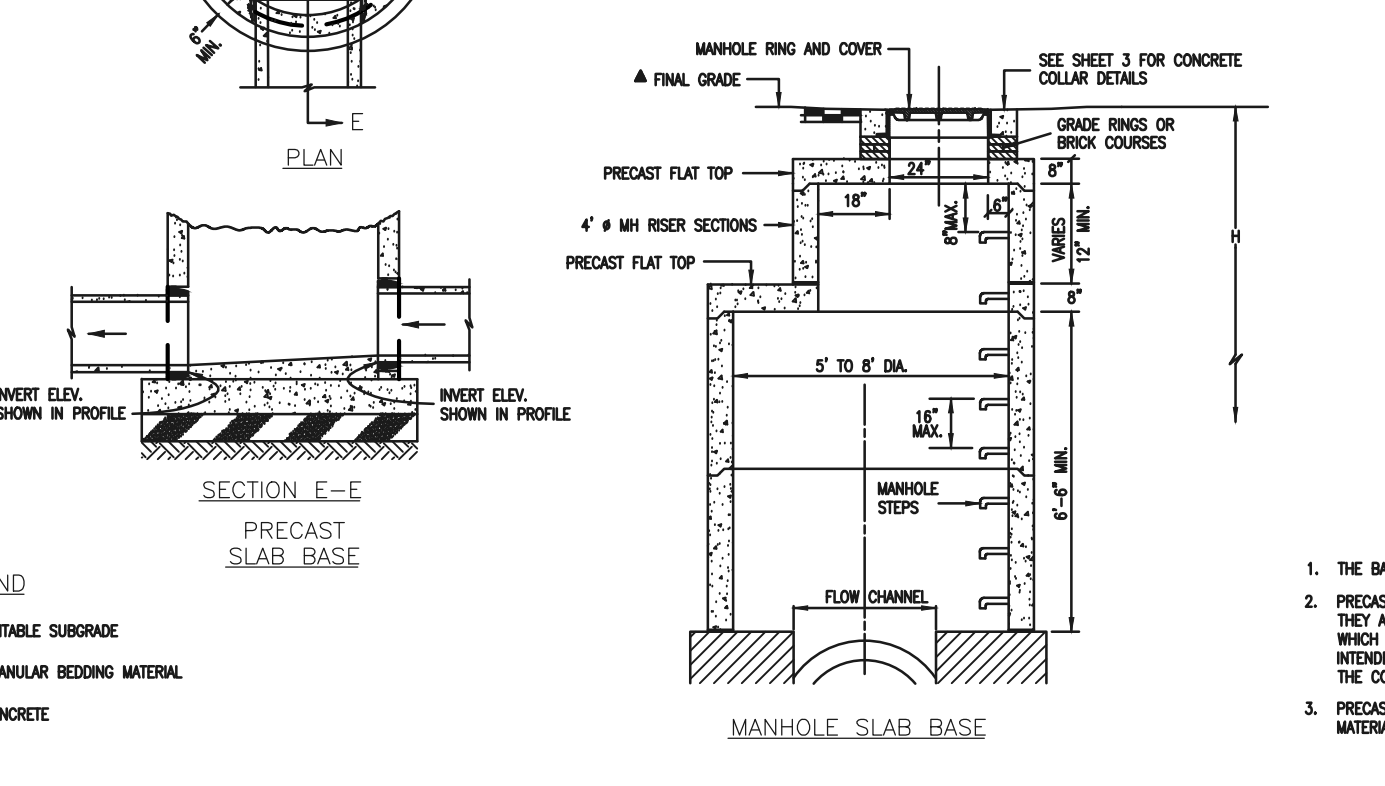
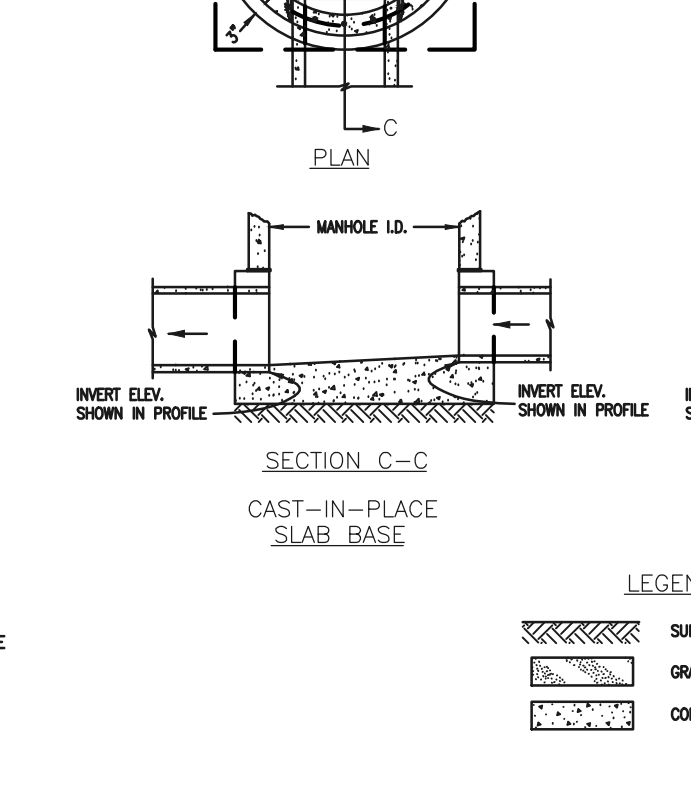
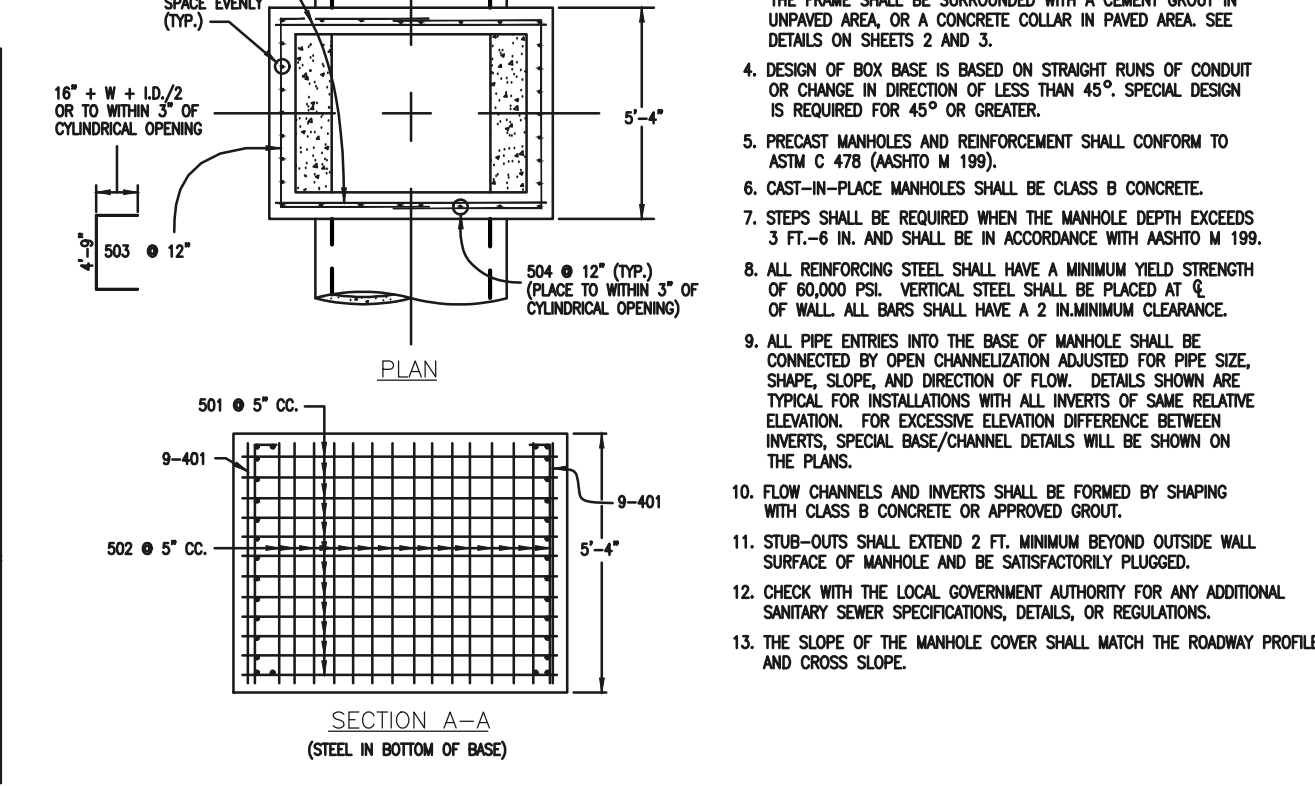
| CHECKED BY | SCALE | JOB NO. |
|------------|--------------|---------|
| | (V) 1" = N/A | 1175.70 |





QUANTITIES FOR CONCRETE MANHOLE BOX BASE

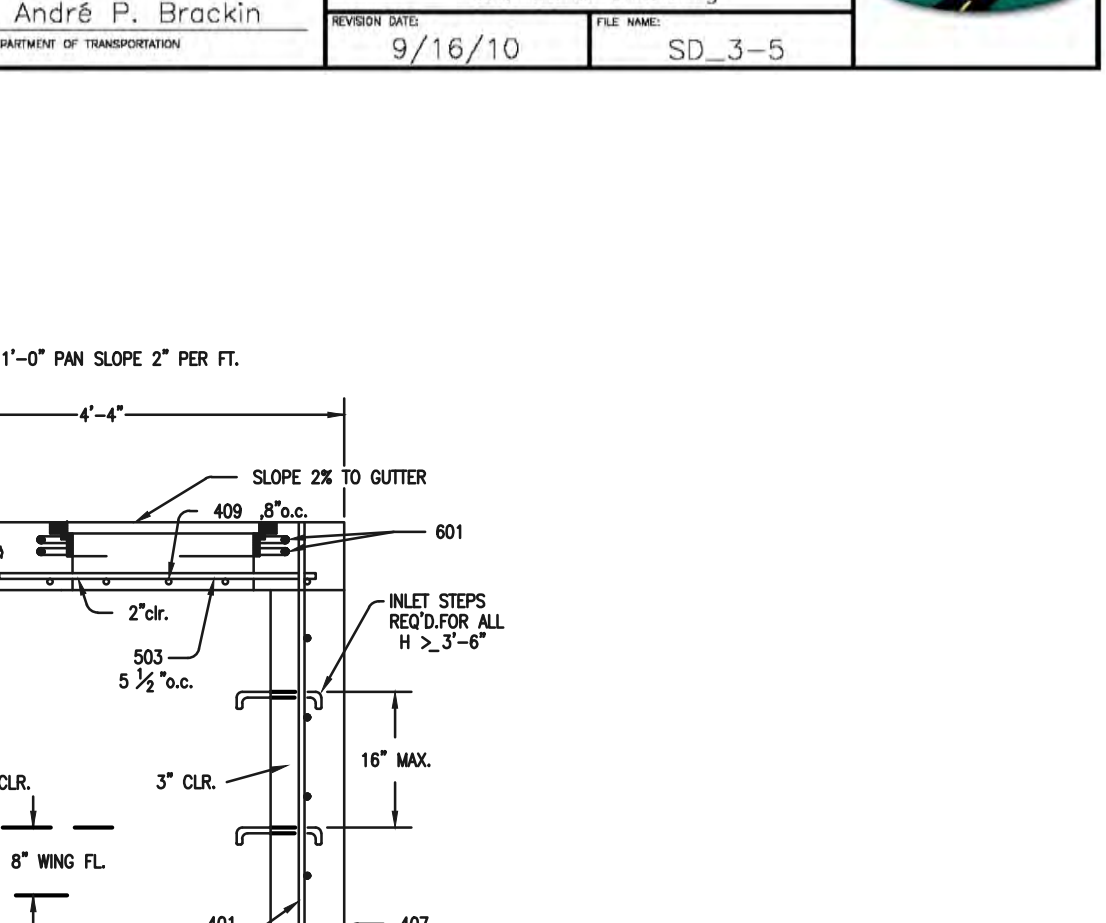
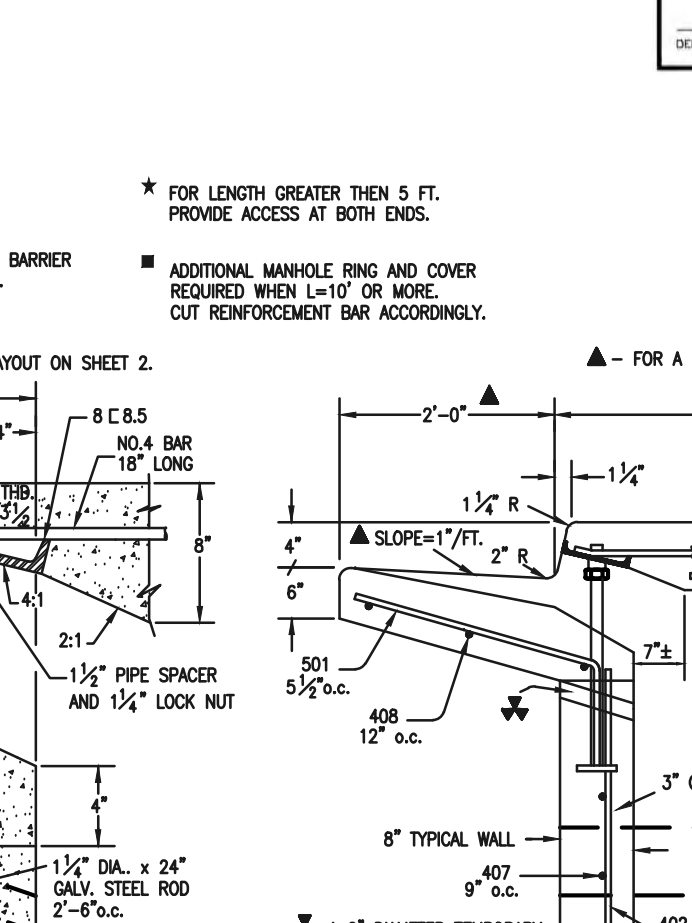
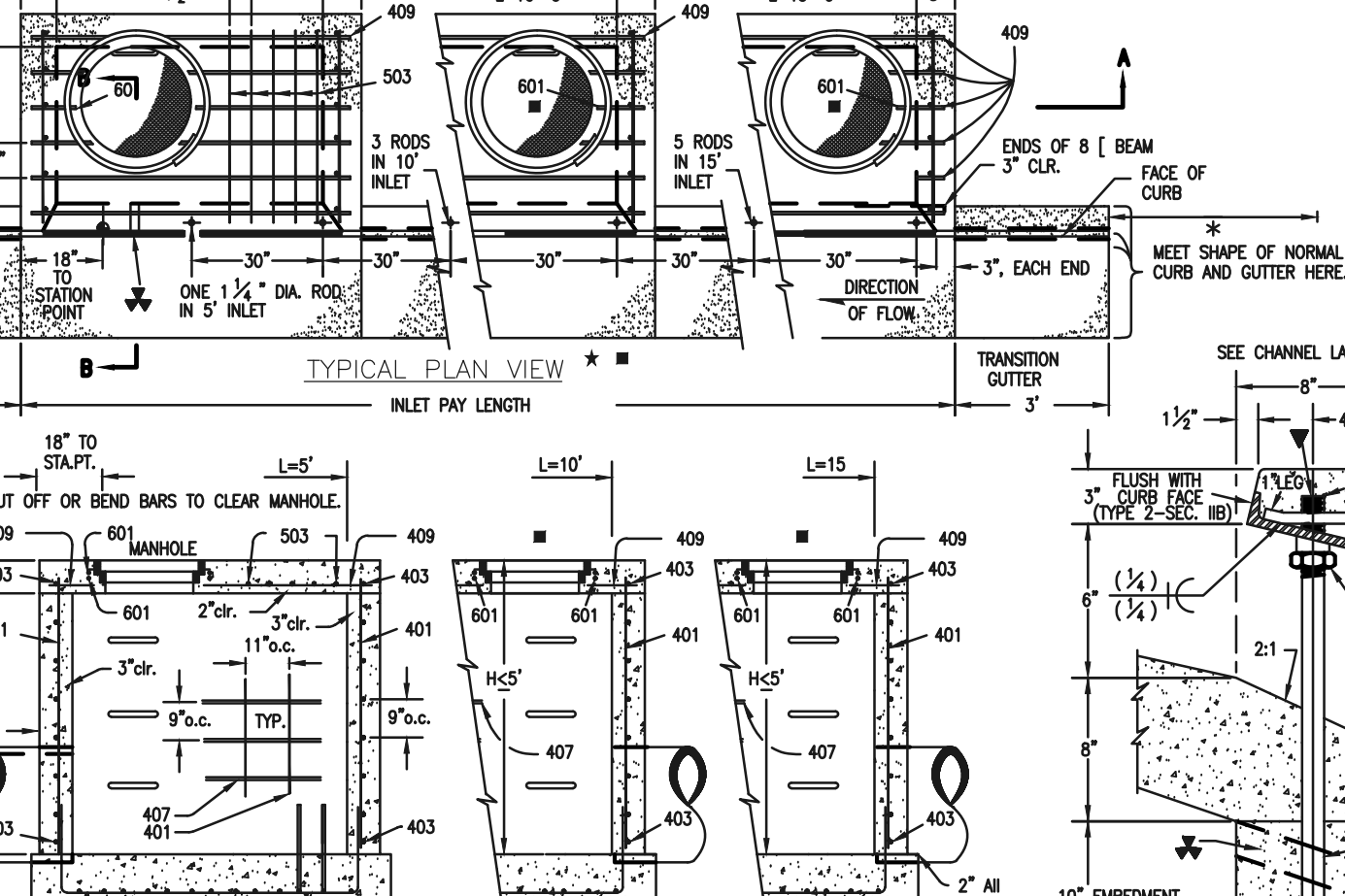
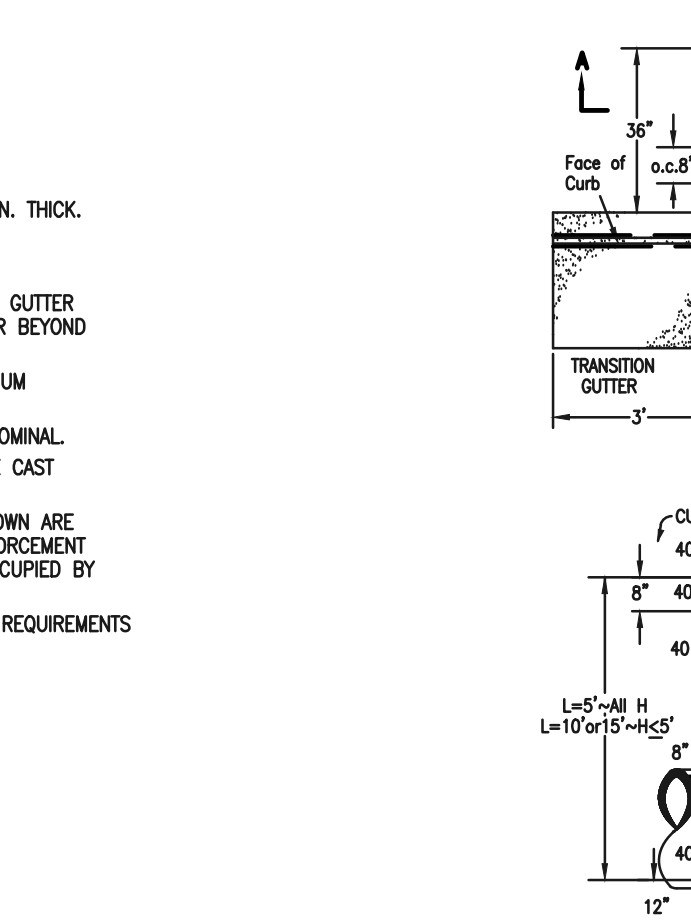
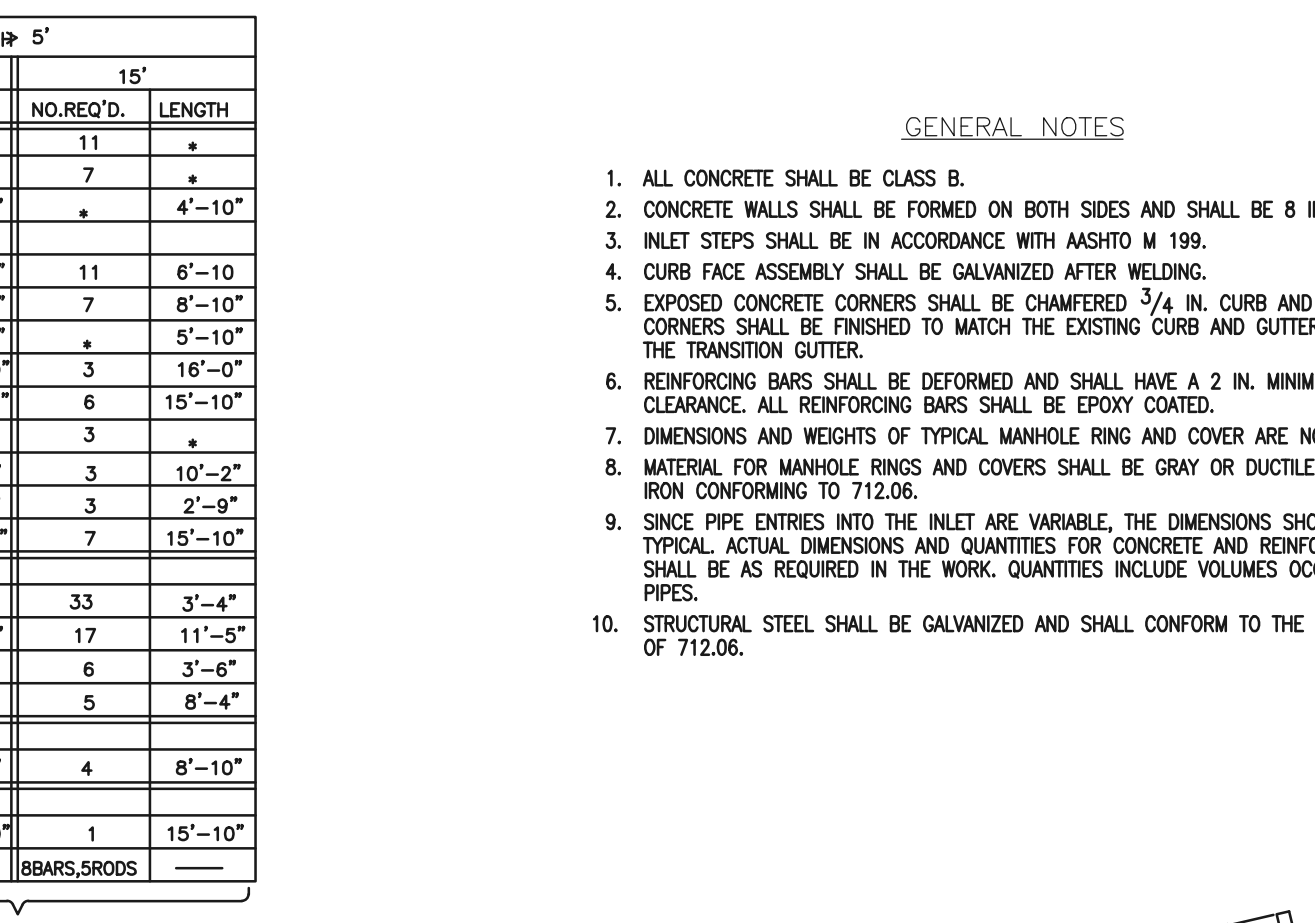
| MARK | SIZE | TYPE | WT. #/FT. | NO. REQ'D. | 5'x7' | 6'x8' | 7'x7' | 8'x8' | 9'x9' | FORMULAS |
|------|------|------|-----------|------------|-------|-------|-------|-------|-------|--|
| 401 | 4 | I | 0.668 | 18 | 18 | 18 | 18 | 18 | 18 | 401 BAR LENGTH = 32'+2W+L.D. |
| 402 | 4 | III | 0.668 | 18 | 18 | 18 | 18 | 18 | 18 | 402 BAR LENGTH = L.D. + 2W |
| 501 | 5 | I | 1.043 | 17 | 17 | 17 | 17 | 17 | 17 | 501 BAR LENGTH = 24'+L.D. + 2W |
| 502 | 5 | II | 1.043 | 17 | 17 | 17 | 17 | 17 | 17 | 502 NUMBER BARS REQ'D. = 3 + (24'+L.D.+2W+L) / 5 |
| 503 | 5 | III | 1.043 | 17 | 17 | 17 | 17 | 17 | 17 | 503 NUMBER BARS REQ'D. = 2 + (33'+L.D.+2W+L) / 5 |
| 504 | 5 | IV | 1.043 | 17 | 17 | 17 | 17 | 17 | 17 | 504 NUMBER BARS REQ'D. = 2 + (28'+L.D.+2W+L) / 5 |
| 1101 | 11 | I | 5.313 | 4 | 4 | 4 | 4 | 4 | 4 | 1101 BAR LENGTH = 32'+2W+L.D. |
| 1102 | 11 | II | 5.313 | 4 | 4 | 4 | 4 | 4 | 4 | 1102 BAR LENGTH = 21'+L.D. + 2W |
| 1103 | 11 | III | 5.313 | 4 | 4 | 4 | 4 | 4 | 4 | 1103 BAR LENGTH = 16'+W+L.D./2 |



**CDOT MANHOLES
STD. PLAN NO: M-604-20**

TABLE ONE ~ BAR LIST FOR CURB INLETS, TYPE "R"

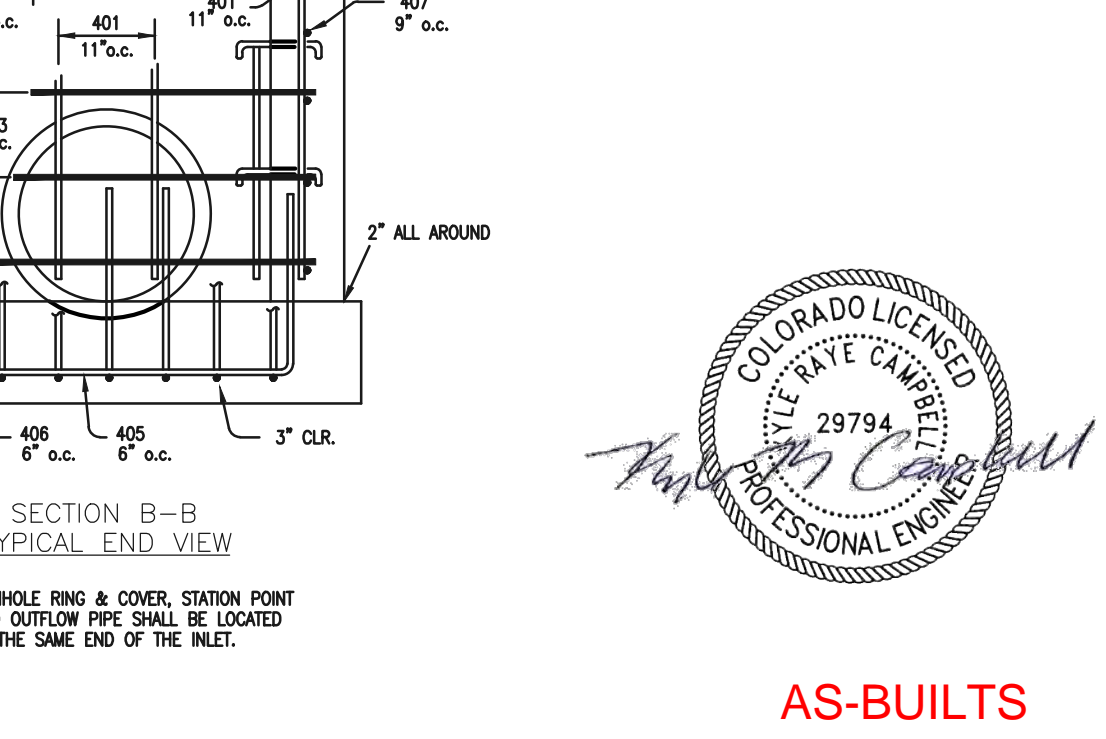
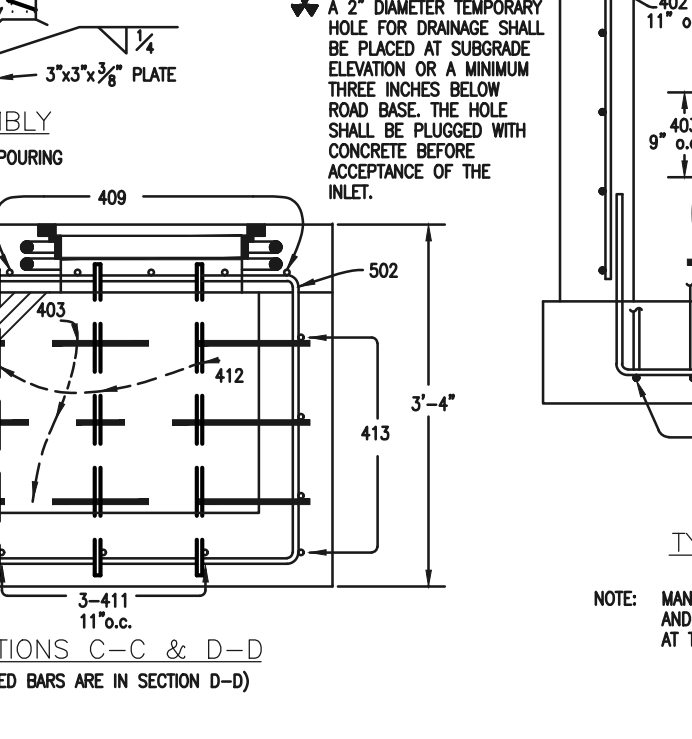
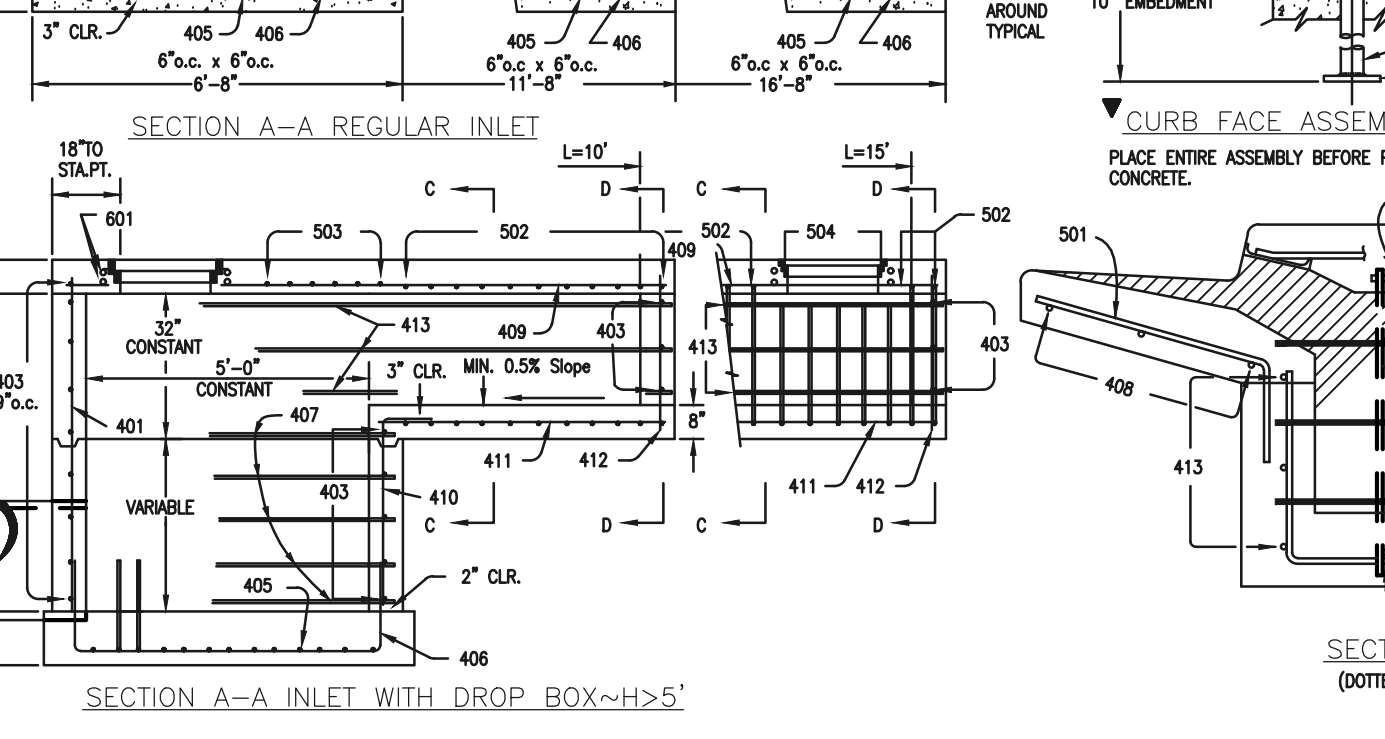
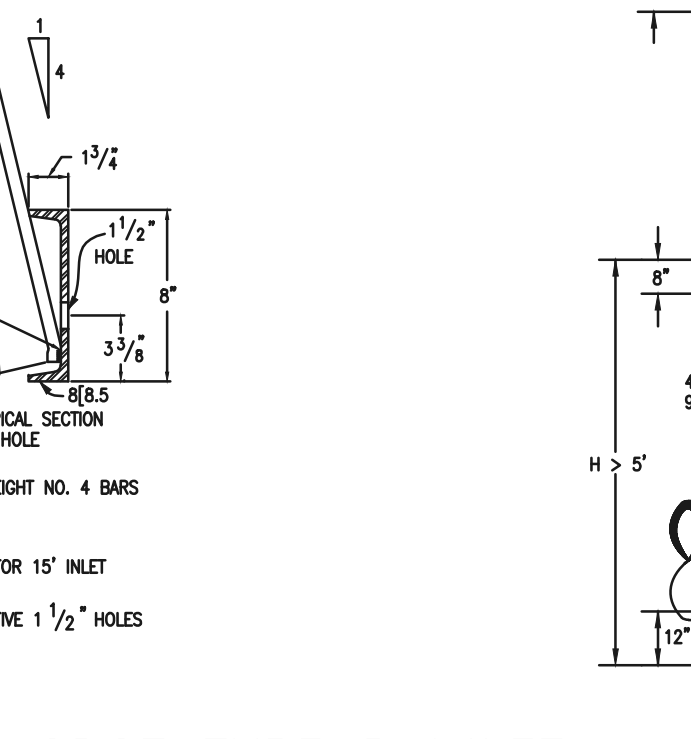
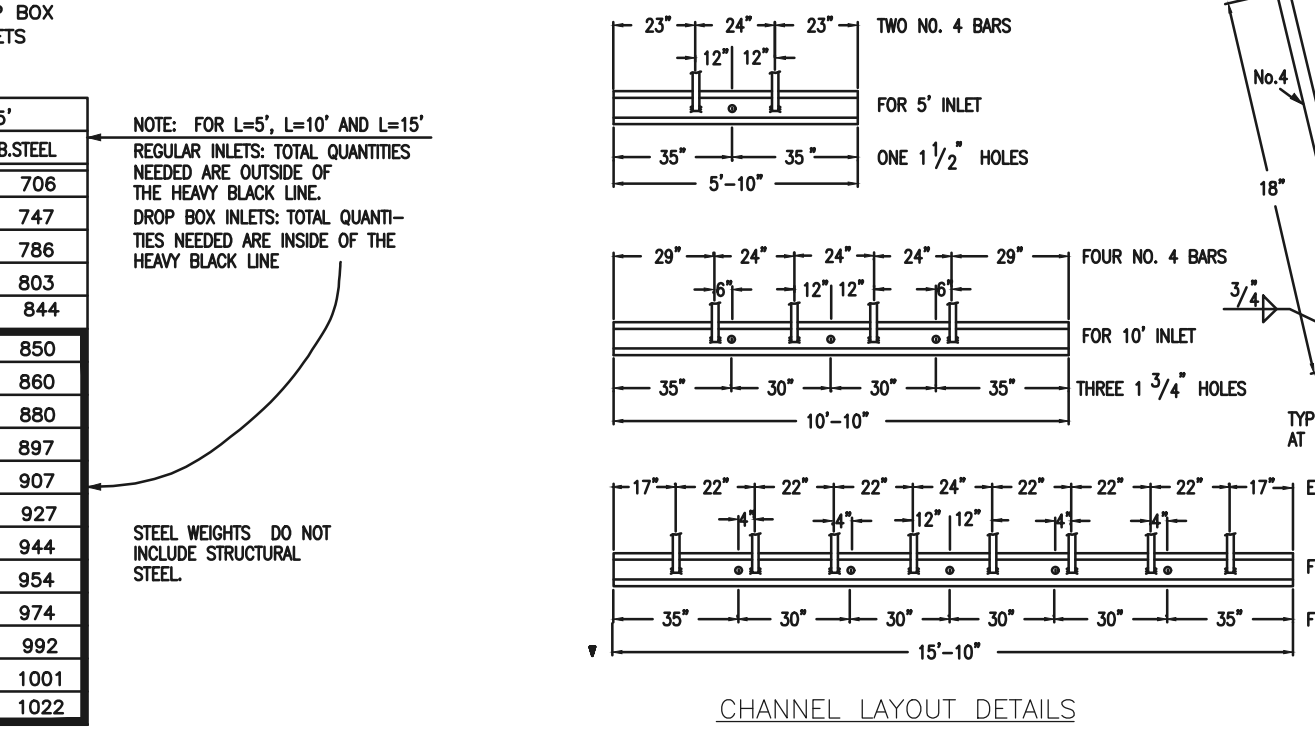
| MARK | DIA. IN. | O.C. SPACING | TYPE | ALL INLETS | | | INLETS, H ≤ 5' | | | INLETS, H > 5' | | |
|------|----------|--------------|------|------------|-----|-----|----------------|-----|-----|----------------|-----|-----|
| | | | | L=5' | 10' | 15' | L=10' | 15' | 20' | L=15' | 20' | 25' |
| 401 | 1 1/2" | 11" | II | 15 | 21 | 28 | 11 | 11 | 11 | 11 | 11 | |
| 402 | 1 1/2" | 11" | II | 7 | 13 | 18 | 7 | 7 | 7 | 7 | 7 | |
| 403 | 9" | 11" | II | 4 | 6 | 8 | 4 | 4 | 4 | 4 | 4 | |
| 405 | 6" | VI | II | 11 | 16 | 21 | 11 | 11 | 11 | 11 | 11 | |
| 406 | 6" | VIII | II | 7 | 13 | 17 | 7 | 7 | 7 | 7 | 7 | |
| 407 | 6" | II | II | 5 | 10 | 14 | 5 | 5 | 5 | 5 | 5 | |
| 408 | 6" | II | II | 3 | 6 | 9 | 3 | 3 | 3 | 3 | 3 | |
| 409 | 8" | II | II | 6 | 10 | 14 | 6 | 6 | 6 | 6 | 6 | |
| 410 | 1 1/2" | VII | II | 3 | 6 | 9 | 3 | 3 | 3 | 3 | 3 | |
| 411 | 1 1/2" | II | II | 3 | 6 | 9 | 3 | 3 | 3 | 3 | 3 | |
| 412 | 1 1/2" | II | II | 3 | 6 | 9 | 3 | 3 | 3 | 3 | 3 | |
| 413 | 9" | II | II | 2 | 6 | 9 | 2 | 2 | 2 | 2 | 2 | |
| 501 | 5 1/2" | IV | II | 11 | 16 | 21 | 11 | 11 | 11 | 11 | 11 | |
| 502 | 5 1/2" | III | II | 7 | 13 | 17 | 7 | 7 | 7 | 7 | 7 | |
| 503 | 5 1/2" | II | II | 5 | 10 | 14 | 5 | 5 | 5 | 5 | 5 | |
| 504 | 5 1/2" | IX | II | 3 | 6 | 9 | 3 | 3 | 3 | 3 | 3 | |
| 601 | 2 1/2" | V | II | 2 | 6 | 9 | 2 | 2 | 2 | 2 | 2 | |



**CDOT TYPE R INLET
STD. PLAN NO: M-604-12**

TABLE TWO ~ BARS AND QUANTITIES VARIABLE WITH "H"

| H' | L=5' | | L=10' | | L=15' | |
|--------|------------|------------|------------|------------|------------|------------|
| | NO. REQ'D. | WT. (LBS.) | NO. REQ'D. | WT. (LBS.) | NO. REQ'D. | WT. (LBS.) |
| 3'-0" | 10 | 3.2 | 285 | 5.3 | 497 | 7.4 |
| 3'-6" | 10 | 3.4 | 305 | 5.7 | 528 | 7.9 |
| 4'-0" | 12 | 3.7 | 326 | 6.0 | 559 | 8.4 |
| 4'-6" | 12 | 3.9 | 334 | 6.4 | 571 | 8.8 |
| 5'-0" | 14 | 4.1 | 354 | 6.7 | 602 | 9.3 |
| 5'-6" | 14 | 4.4 | 375 | 7.0 | 637 | 9.7 |
| 6'-0" | 16 | 4.6 | 382 | 6.2 | 618 | 7.8 |
| 6'-6" | 16 | 4.8 | 402 | 6.4 | 637 | 7.8 |
| 7'-0" | 18 | 4.8 | 423 | 6.6 | 654 | 8.0 |
| 7'-6" | 19 | 5.0 | 423 | 6.6 | 654 | 8.0 |
| 8'-0" | 20 | 5.3 | 430 | 6.9 | 664 | 8.3 |
| 8'-6" | 20 | 5.5 | 451 | 7.1 | 684 | 8.5 |
| 9'-0" | 21 | 5.7 | 471 | 7.3 | 702 | 8.7 |
| 9'-6" | 21 | 6.0 | 479 | 7.6 | 711 | 9.0 |
| 10'-0" | 23 | 6.2 | 499 | 7.8 | 732 | 9.2 |
| 10'-6" | 23 | 6.4 | 520 | 8.0 | 749 | 9.4 |
| 11'-0" | 25 | 6.7 | 527 | 8.3 | 759 | 9.7 |
| 11'-6" | 25 | 6.9 | 547 | 8.5 | 779 | 9.9 |



**CDOT TYPE R INLET
STD. PLAN NO: M-604-12**

48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS

811
UTILITY NOTIFICATION CENTER OF COLORADO
IT'S THE LAW

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

| NO. | REVISION | DATE |
|-----|----------|------|
| | | |
| | | |

REVIEW:

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

KYLE R. O'NEILL
PROFESSIONAL ENGINEER
P.E. #29794

03/31/22

CLASSIC CONSULTING

619 N. Cascade Avenue, Suite 200
Colorado Springs, Colorado 80903

(719)785-0790
(719)785-0799(Fax)

**FOREST LAKES FILING NO. 7
CONSTRUCTION PLANS**

DETAILS SHEET EPC 5/12/2022

DESIGNED BY: SCALE: DATE: 11/23/21

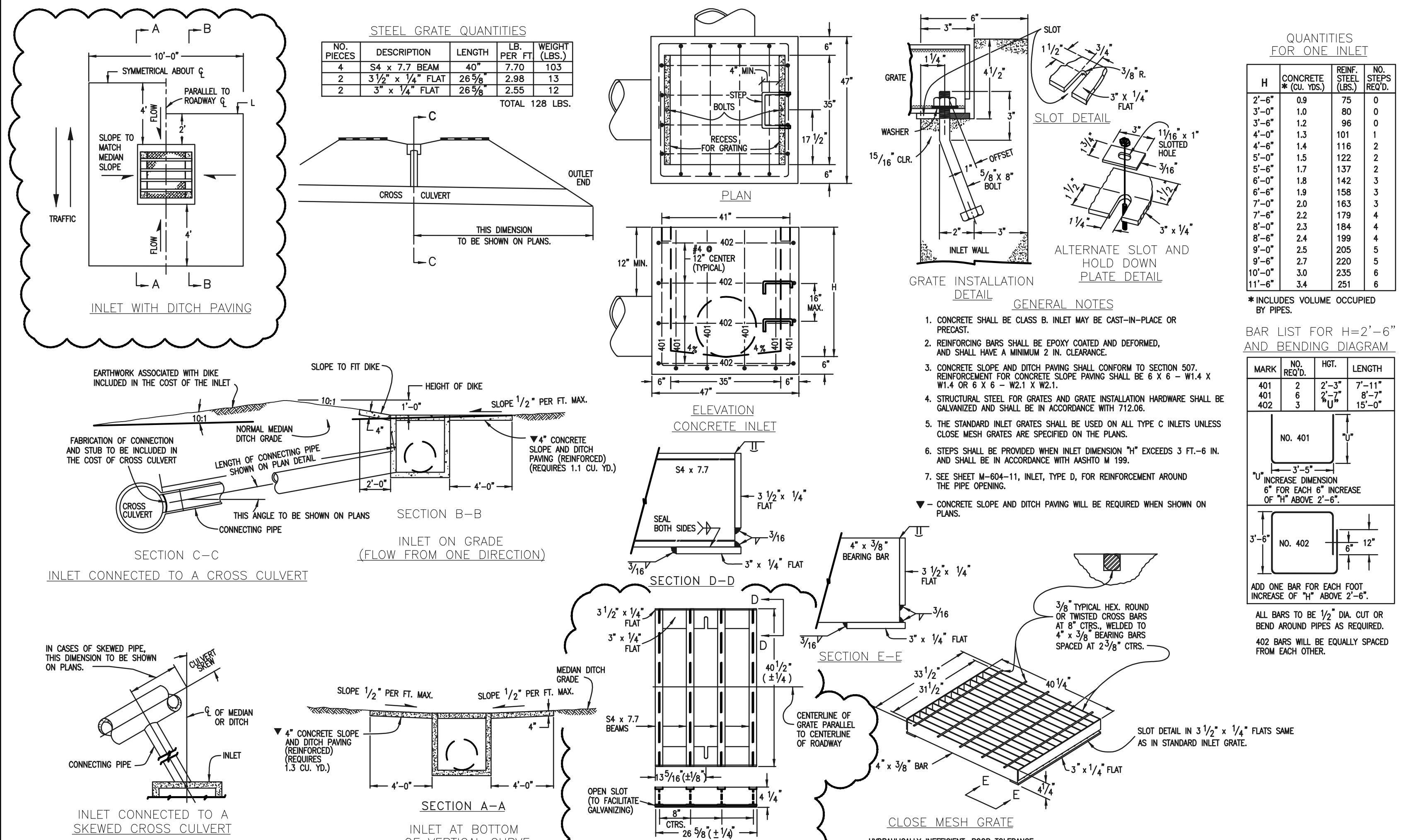
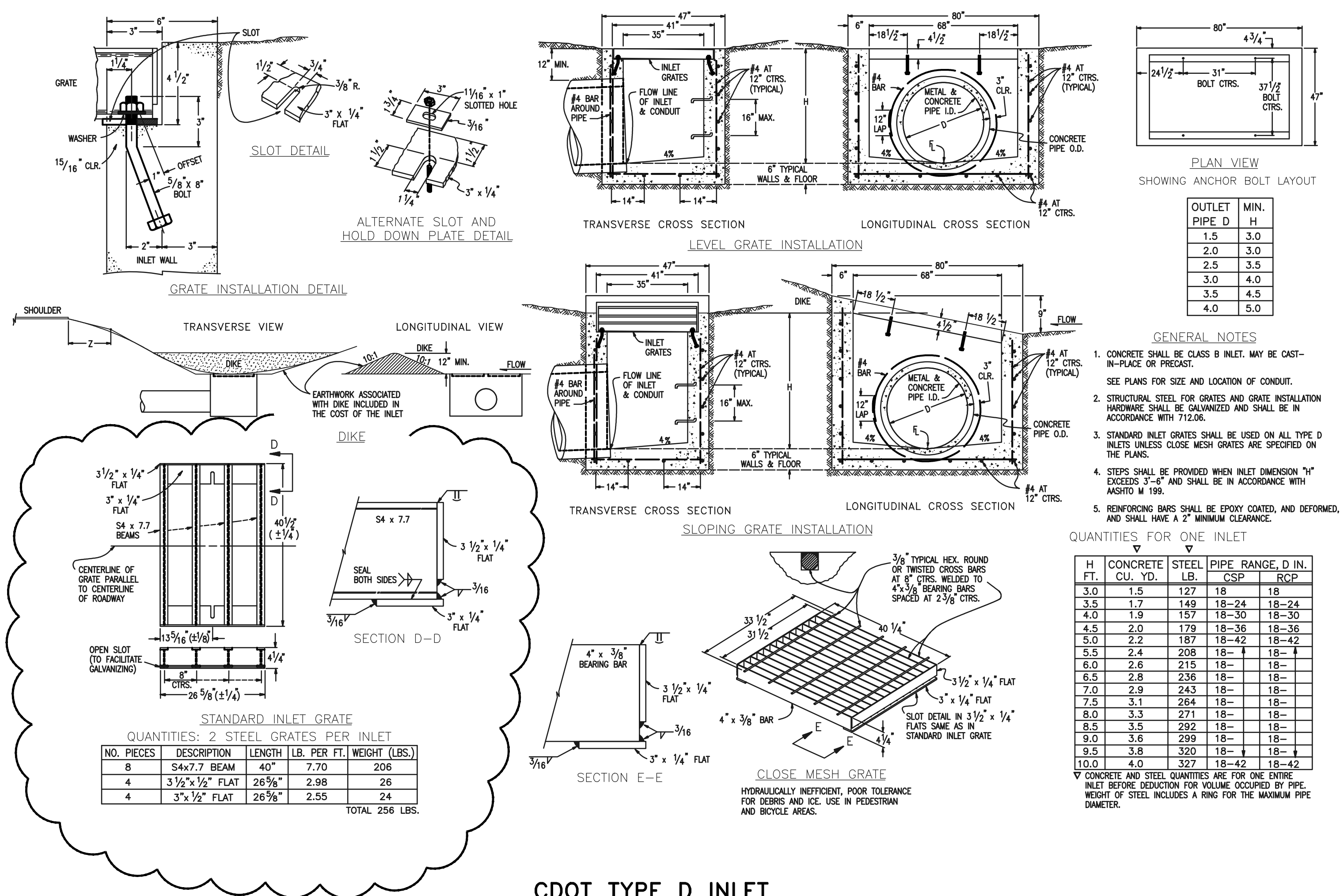
DRAWN BY: MES (H) 1"= N/A SHEET 30 OF 31

CHECKED BY: (V) 1"= N/A JOB NO. 1175.70

PCD FILE # SF-21-49



AS-BUILTS
10/23/2023
SF-21-49



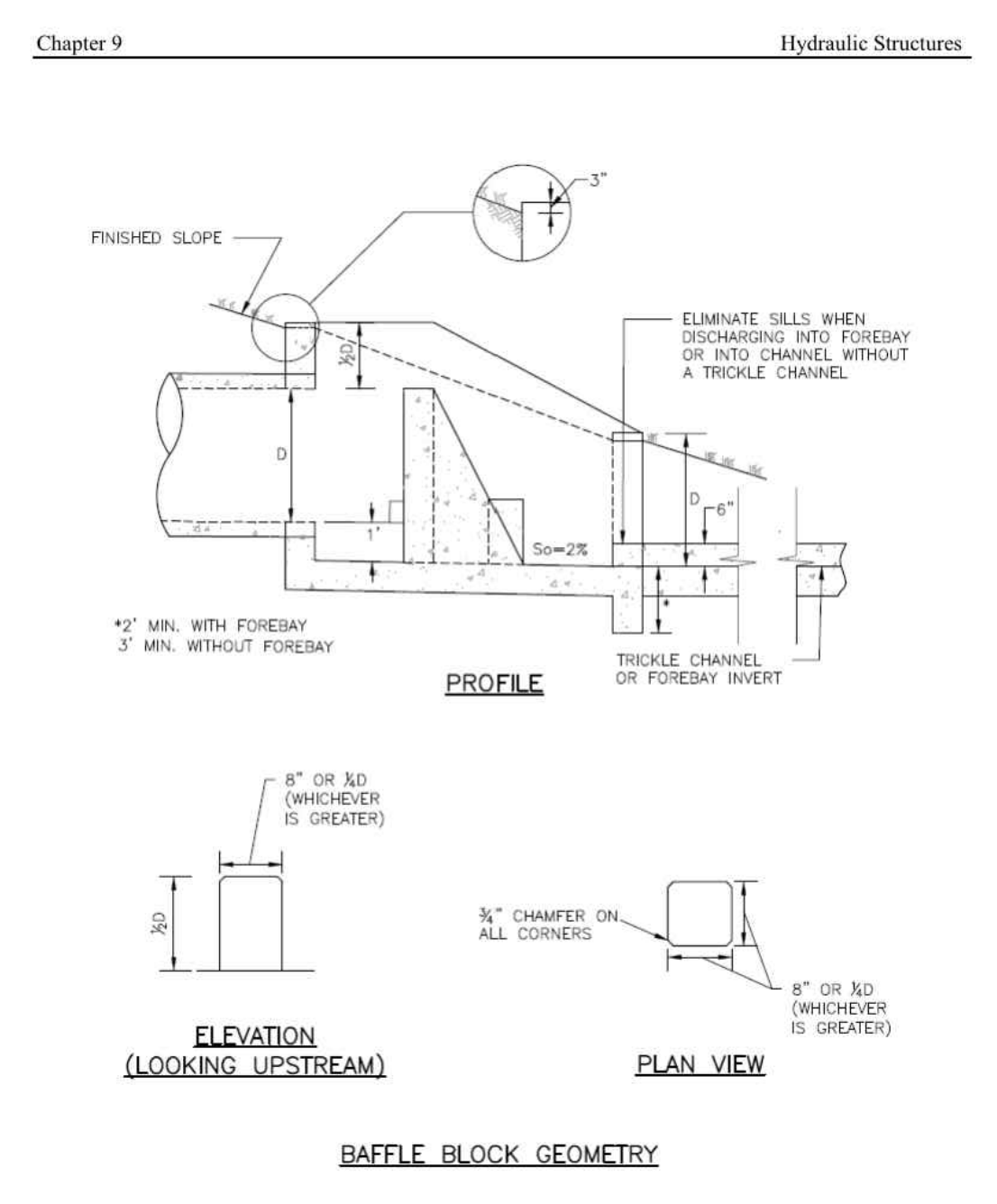
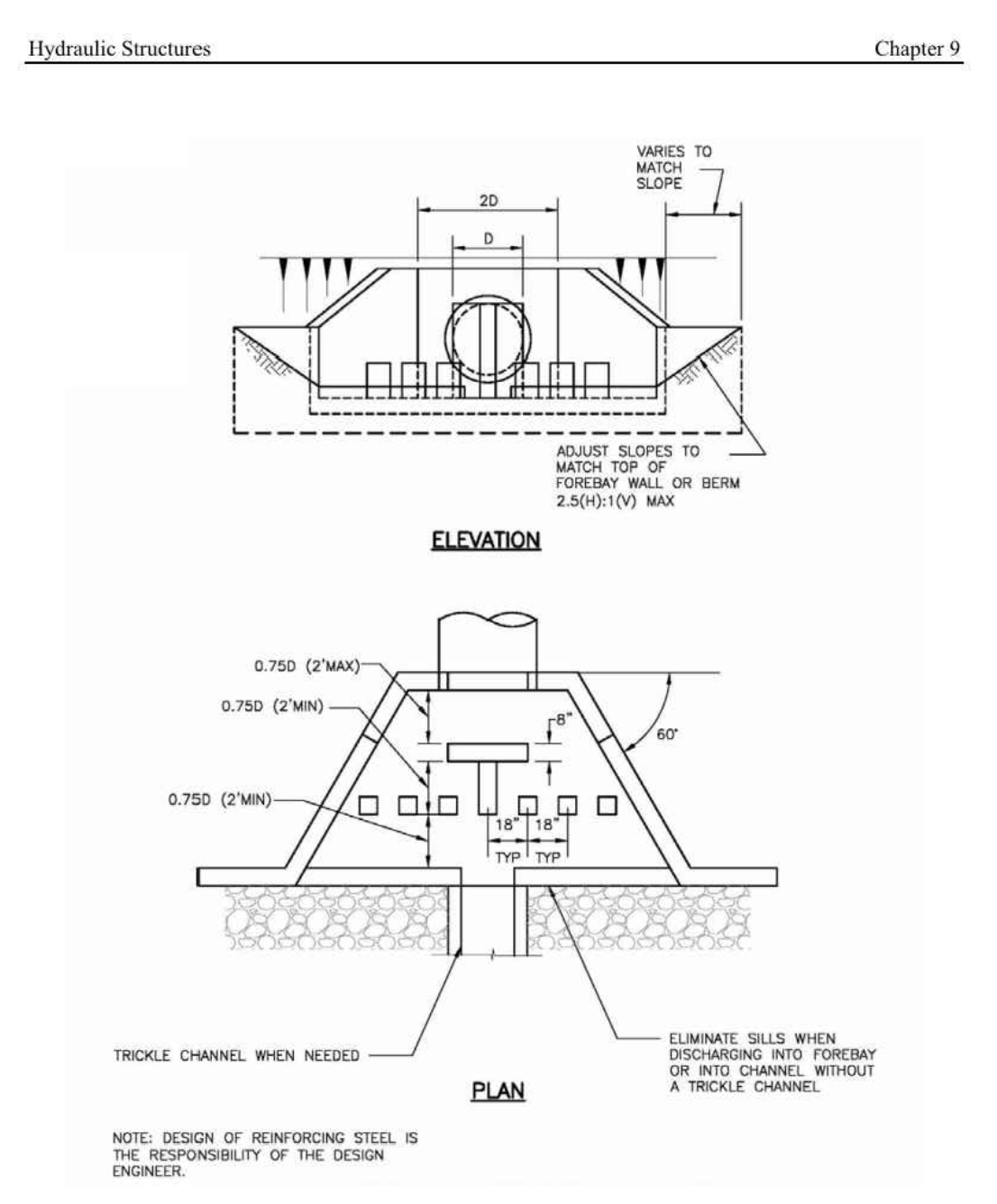
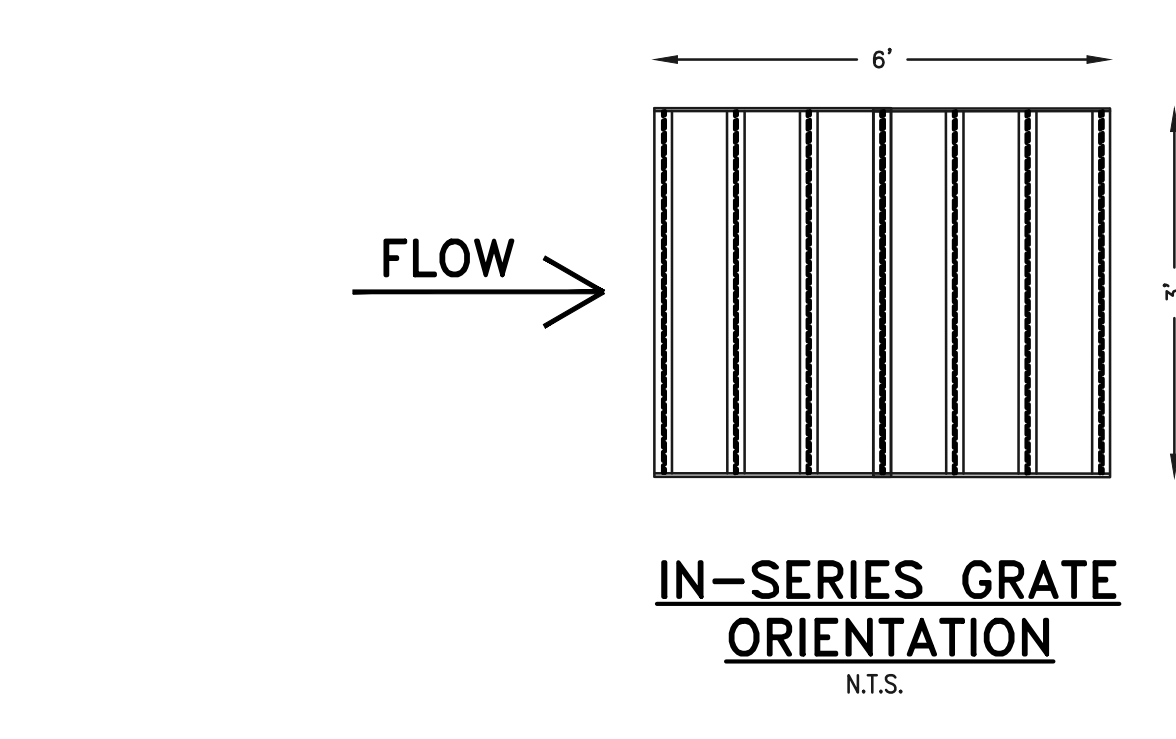
STANDARD INLET GRATE
QUANTITIES: 2 STEEL GRATES PER INLET

| NO. PIECES | DESCRIPTION | LENGTH | LB. PER FT. | WEIGHT (LBS.) |
|------------|--------------------|---------|-------------|---------------|
| 8 | S4x7.7 BEAM | 40" | 7.70 | 206 |
| 4 | 3 1/2" x 1/2" FLAT | 26 5/8" | 2.98 | 26 |
| 4 | 3" x 1/2" FLAT | 26 5/8" | 2.55 | 24 |

TOTAL 256 LBS.

QUANTITIES FOR ONE INLET

| H FT. | CONCRETE CU. YD. | STEEL LB. | PIPE RANGE, D IN. | RCP |
|-------|------------------|-----------|-------------------|-------|
| 3.0 | 1.5 | 127 | 18 | 18 |
| 3.5 | 1.7 | 149 | 18-24 | 18-24 |
| 4.0 | 1.9 | 157 | 18-30 | 18-30 |
| 4.5 | 2.0 | 179 | 18-36 | 18-36 |
| 5.0 | 2.2 | 187 | 18-42 | 18-42 |
| 5.5 | 2.4 | 208 | 18-4 | 18- |
| 6.0 | 2.6 | 215 | 18- | 18- |
| 6.5 | 2.8 | 236 | 18- | 18- |
| 7.0 | 2.9 | 243 | 18- | 18- |
| 7.5 | 3.1 | 264 | 18- | 18- |
| 8.0 | 3.3 | 271 | 18- | 18- |
| 8.5 | 3.5 | 292 | 18- | 18- |
| 9.0 | 3.6 | 299 | 18- | 18- |
| 9.5 | 3.8 | 320 | 18- | 18- |
| 10.0 | 4.0 | 327 | 18-42 | 18-42 |



9-82 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 2
September 2017

9-83 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 2
September 2017

| | | |
|--|---|------|
| 48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS 811 UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW | NO. REVISION | DATE |
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| | PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC | |

CLASSIC CONSULTING
619 N. Cascade Avenue, Suite 200
Colorado Springs, Colorado 80903
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(719)785-0799(Fax)

**FOREST LAKES FILING NO. 7
CONSTRUCTION PLANS**

DETAILS SHEET EPC 5/12/2022

| | | | |
|-------------|--------------|---------|----------|
| DESIGNED BY | SCALE | DATE | 11/23/21 |
| DRAWN BY | (H) 1" = N/A | SHEET | 31 OF 31 |
| CHECKED BY | (V) 1" = N/A | JOB NO. | 1175.60 |



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10/23/2023
SF-21-49

PCD FILE # SF-21-49