

FLYING HORSE NORTH FILING NO. 1  
COUNTY OF EL PASO, STATE OF COLORADO  
CONSTRUCTION DRAWINGS  
MARCH 2018

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 LOCATED 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 DEVELOPMENT SERVICES ENGINEERING DIVISION.
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 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 DEVELOPMENT SERVICES DEPARTMENT 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.

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 DSD. 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 DSD.
10. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY DSD 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 DOT AND MUTCD CRITERIA.
14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DOT, 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.

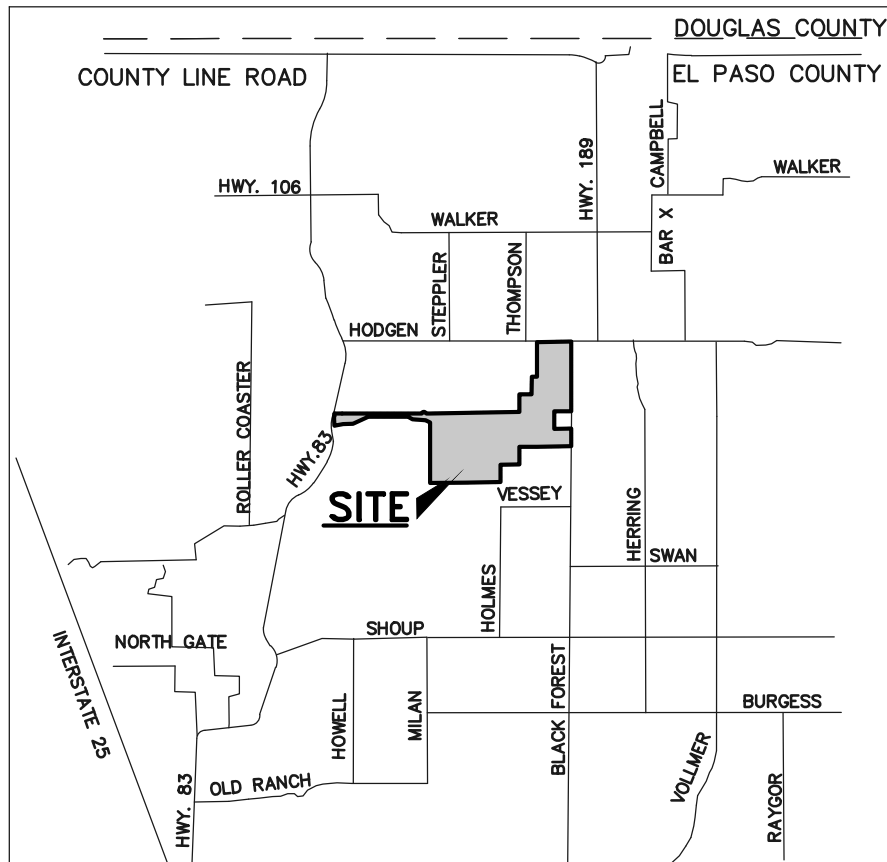
SIGNING AND STRIPING NOTES:

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 DEVELOPMENT SERVICES.
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 "11" 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-B REGARDING USE OF THE P2 TUBULAR STEEL POST SUBBASE DESIGN.
10. ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.100" MINIMUM THICKNESS.
11. ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS SHALL BE A MINIMUM 125 MIL THICKNESS PREFORMED THERMOPLASTIC PAVEMENT MARKINGS WITH TAPERED LEADING EDGES PER CDOT STANDARD S-627-1. WORD AND SYMBOL MARKINGS SHALL BE THE NARROW TYPE. STOP BARS SHALL BE 24" IN WIDTH. CROSSWALKS LINES SHALL BE 12" WIDE AND 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 DEVELOPMENT SERVICES (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 PUBLIC SERVICES DEPARTMENT (PSD) PRIOR TO ANY SIGNAGE OR STRIPING WORK WITHIN AN EXISTING EL PASO COUNTY ROADWAY.

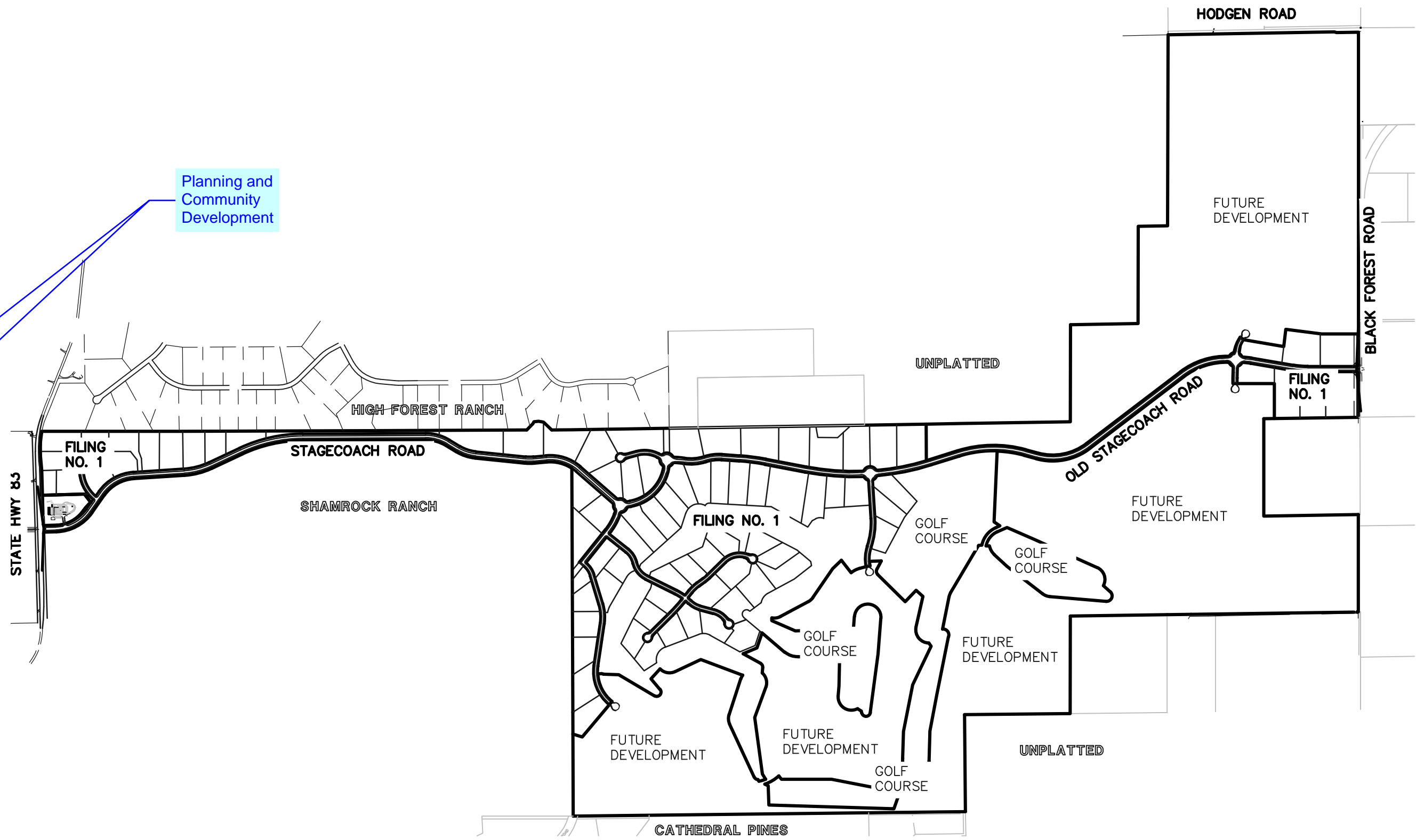
BENCHMARKS

Missing.  
Unresolved

Department of Public  
Works



VICINITY MAP  
N.T.S.



KEY MAP  
SCALE: N.T.S.

AGENCIES:

OWNER/DEVELOPER:	PRI #2 6385 CORPORATE DRIVE, SUITE 200 COLORADO SPRINGS, CO 80919 MR. DREW BALSICK, (719) 592-9333
CIVIL ENGINEER:	CLASSIC CONSULTING ENGINEERS & SURVEYORS 619 N. CASCADE AVENUE, SUITE 200 COLORADO SPRINGS, COLORADO 80903 MR. MARC A. WHORTON, P.E. (719) 785-2802
COUNTY ENGINEERING:	EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT 2880 INTERNATIONAL CIRCLE, SUITE 110 COLORADO SPRINGS, COLORADO 80910 MR. GILBERT LAFORCE (719) 520-7945
GAS COMPANY:	BLACKHILLS ENERGY 37 WIDEFIELD BOULEVARD WIDEFIELD, COLORADO 80911 MR. GEORGE M. PETERSON, (719) 392-3491
ELECTRIC COMPANY:	MOUNTAIN VIEW ELECTRIC P.O. BOX 1600 LIMON, COLORADO 80828 MR. LES ULFERS, (719) 495-2283
FIRE DISTRICT:	DONALD WESCOTT FIRE PROTECTION DISTRICT 15415 GLENEAGLE DRIVE COLORADO SPRINGS, CO 80921 CHIEF VINNY BURNS, (719) 488-8680
FIRE DISTRICT:	BLACK FOREST FIRE PROTECTION DISTRICT 11445 TEACOUT ROAD COLORADO SPRINGS, CO 80908 CHIEF BRYAN JACK, (719) 495-4300
TELEPHONE COMPANY:	CENTURY LINK (LOCATORS) 811  AT & T (LOCATORS) 811

SHEET INDEX

SHEET 1 OF 58	TITLE SHEET
SHEET 2 OF 58	INDEX SHEET
SHEET 2A OF 58	TYPICAL ROADWAY SECTIONS
SHEETS 3-17 OF 58	STAGECOACH RD. / OLD STAGECOACH RD. / SHORTWALL DR. PLAN AND PROFILES
SHEETS 18-25 OF 58	LOCAL ROAD PLAN AND PROFILES
SHEETS 26-37 OF 58	ROUND-ABOUT PLANS
SHEETS 38-44 OF 58	CULVERT PLAN AND PROFILES
SHEETS 45-54 OF 58	DETENTION FACILITY PLANS
SHEETS 55-58 OF 58	DETAIL SHEETS

Update the total.

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 CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY DIRECTLY CAUSED BY THE NEGLIGENT ACTS, ERRORS, OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

MARC A. WHORTON, COLORADO P.E. #37155  
FOR AND ON THE BEHALF OF CLASSIC CONSULTING ENGINEERS & SURVEYORS

DATE

OWNER/DEVELOPER'S STATEMENT:

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

MR. DREW BALSICK  
Pri #2

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.

JENNIFER IRVINE, P.E.  
COUNTY ENGINEER / ECM ADMINISTRATOR

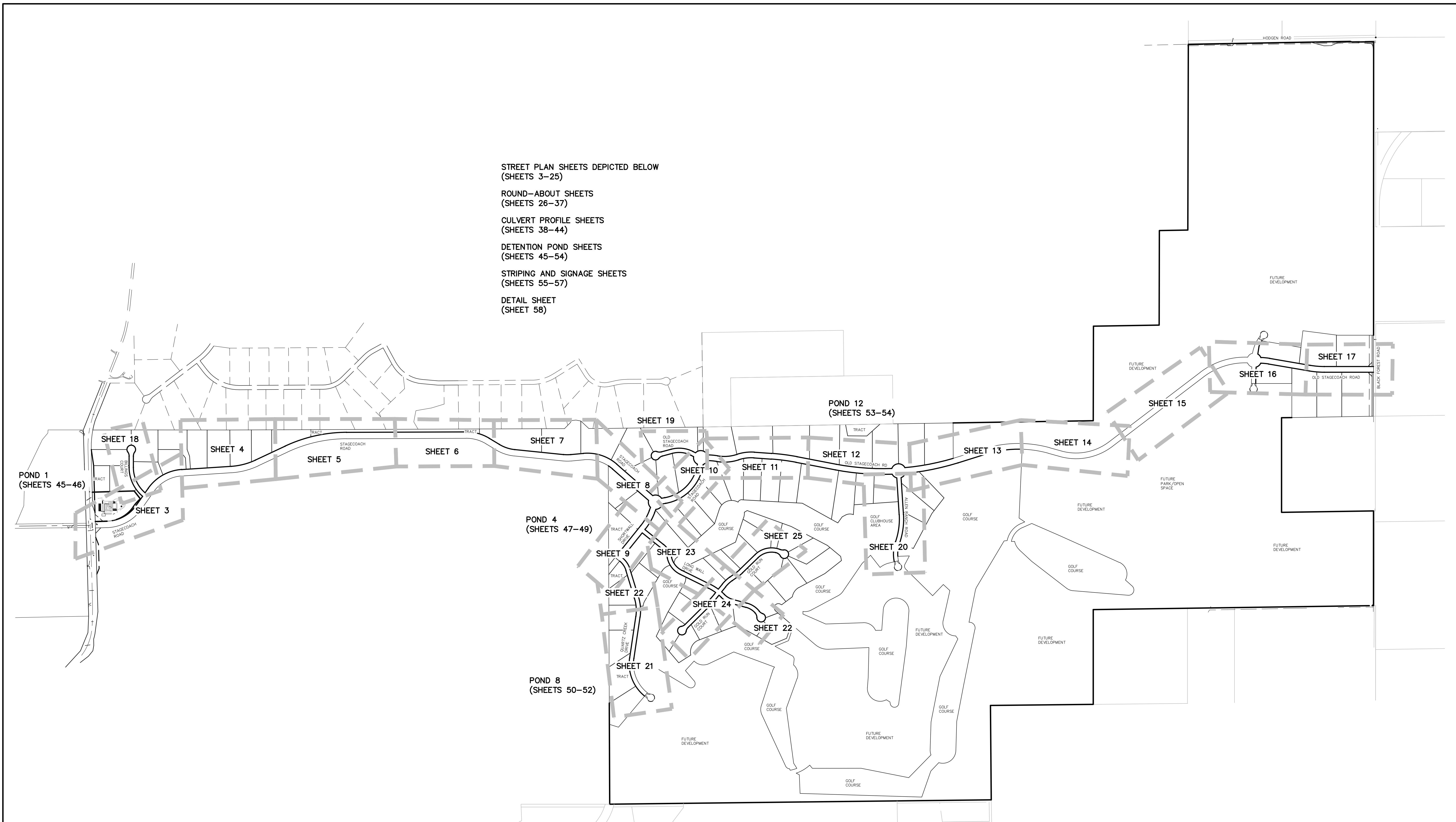
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PCD No. SF-18-001

48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS <b>811</b> UTILITY NOTIFICATION 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 1 REVISED PER COUNTY COMMENTS DATE 4-4-18	REVIEW: PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC  MARC A. WHORTON, COLORADO P.E. #37155 DATE	<div>CLASSIC CONSULTING ENGINEERS &amp; SURVEYORS</div> <div>619 N. Cascade Avenue, Suite 200 Colorado Springs, Colorado 80903 (719)785-0790 (719)785-0799(Fax)</div>	FLYING HORSE NORTH FILING NO. 1 CONSTRUCTION DRAWINGS TITLE SHEET <table><tr><td>DESIGNED BY</td><td>MAW</td><td>SCALE</td><td>DATE</td><td>10-2-17</td></tr><tr><td>DRAWN BY</td><td>MAW</td><td>(H) 1"= N/A</td><td>SHEET 1 OF 58</td><td></td></tr><tr><td>CHECKED BY</td><td></td><td>(V) 1"= N/A</td><td>JOB NO.</td><td>1096.11</td></tr></table>	DESIGNED BY	MAW	SCALE	DATE	10-2-17	DRAWN BY	MAW	(H) 1"= N/A	SHEET 1 OF 58		CHECKED BY		(V) 1"= N/A	JOB NO.	1096.11
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STREET PLAN SHEETS DEPICTED BELOW  
(SHEETS 3–25)

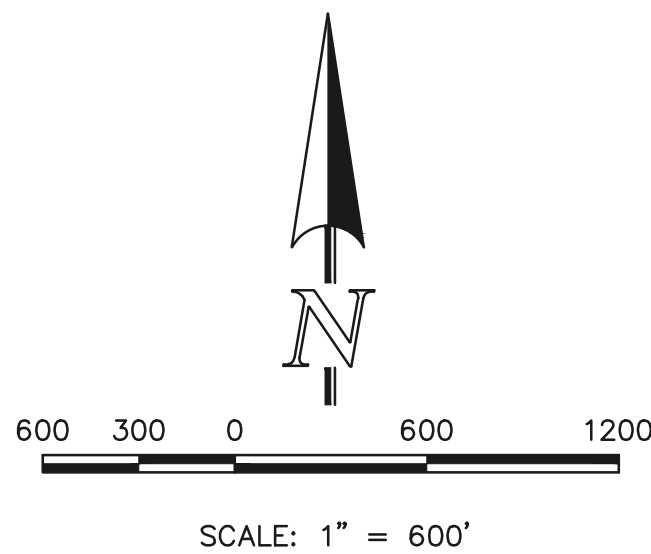
ROUND-ABOUT SHEETS  
(SHEETS 26–37)

CULVERT PROFILE SHEETS  
(SHEETS 38–44)

DETENTION POND SHEETS  
(SHEETS 45–54)

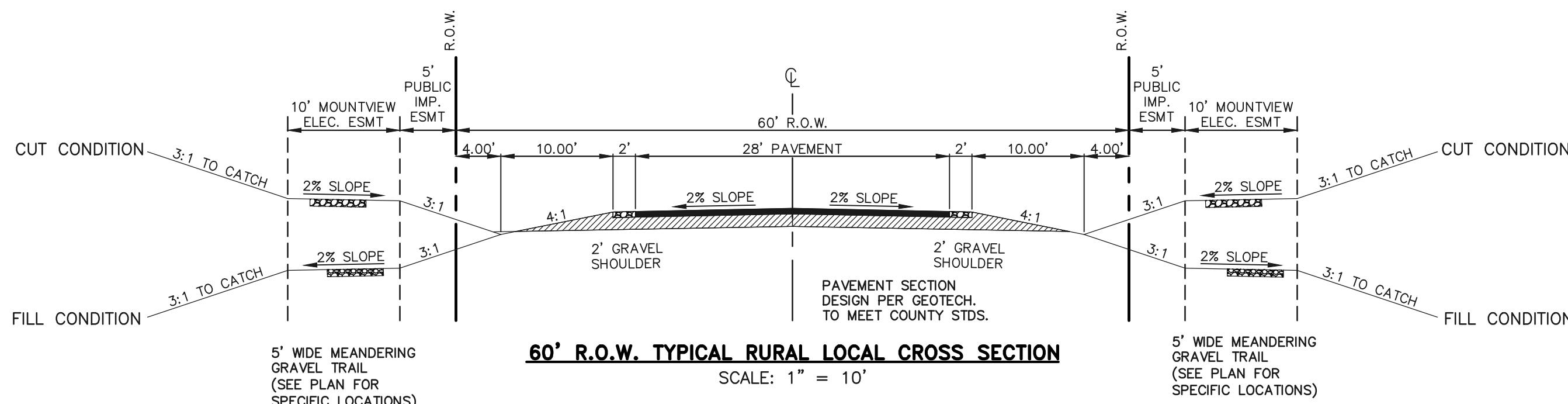
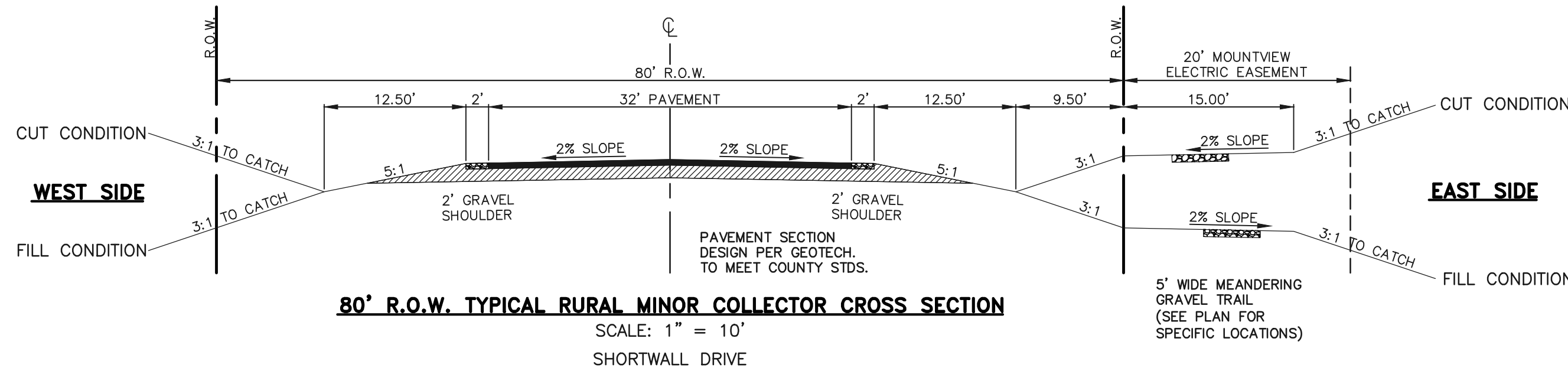
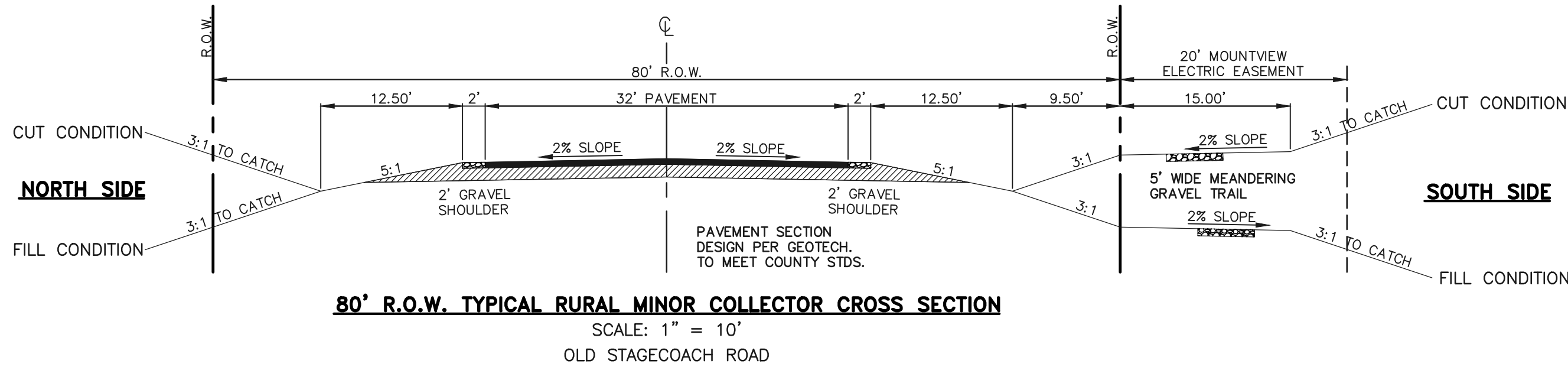
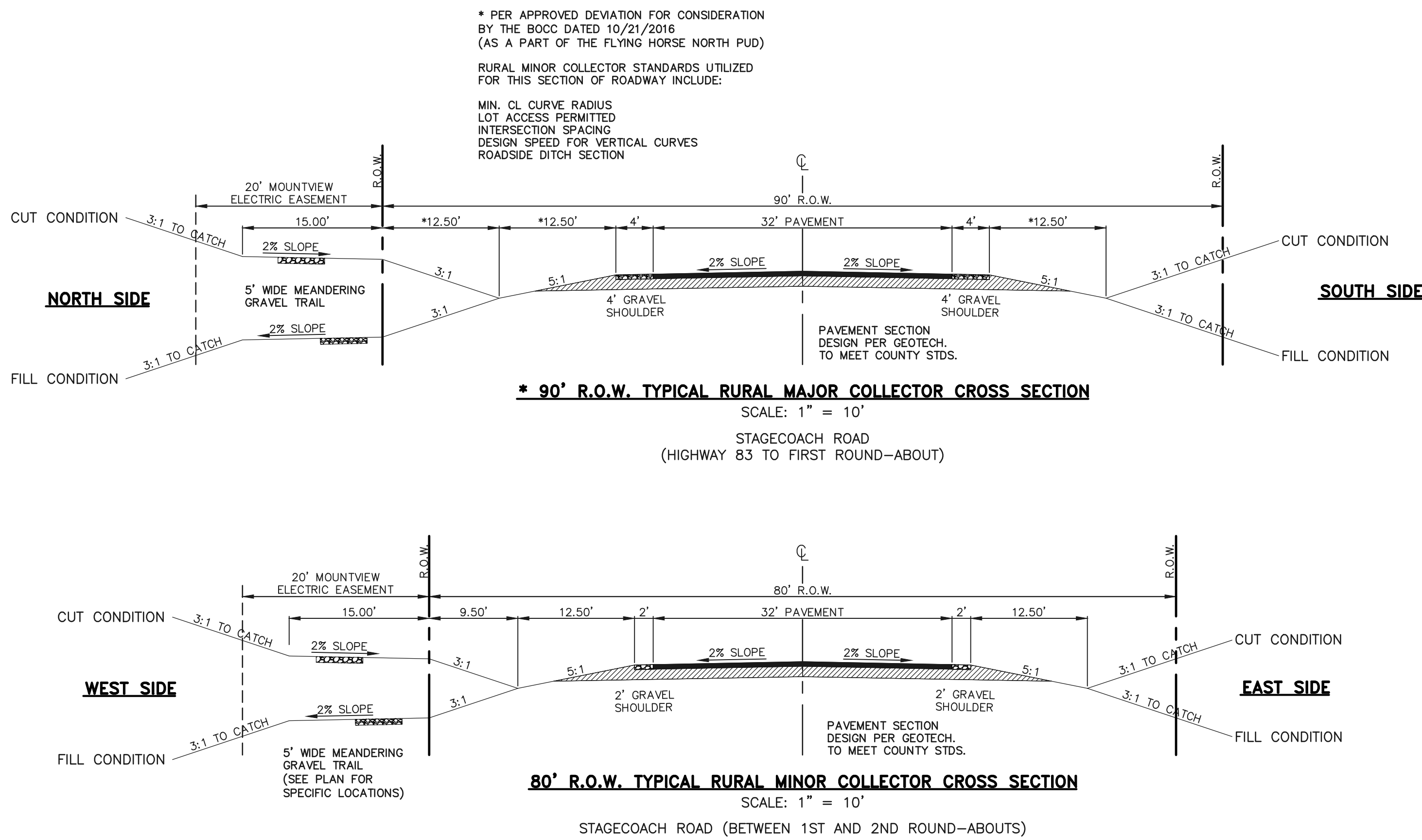
STRIPING AND SIGNAGE SHEETS  
(SHEETS 55–57)

DETAIL SHEET  
(SHEET 58)



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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  
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NO. REVISION

DATE

REVIEW:

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

MARC A. WHORTON, COLORADO P.E. #37155

DATE



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

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

FLYING HORSE NORTH FILING NO. 1  
CONSTRUCTION DRAWINGS  
TYPICAL ROADWAY CROSS SECTION DETAILS

DESIGNED BY	MAW	SCALE	DATE	5/14/18
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CHECKED BY		(V) 1"= N/A	JOB NO.	1096.11



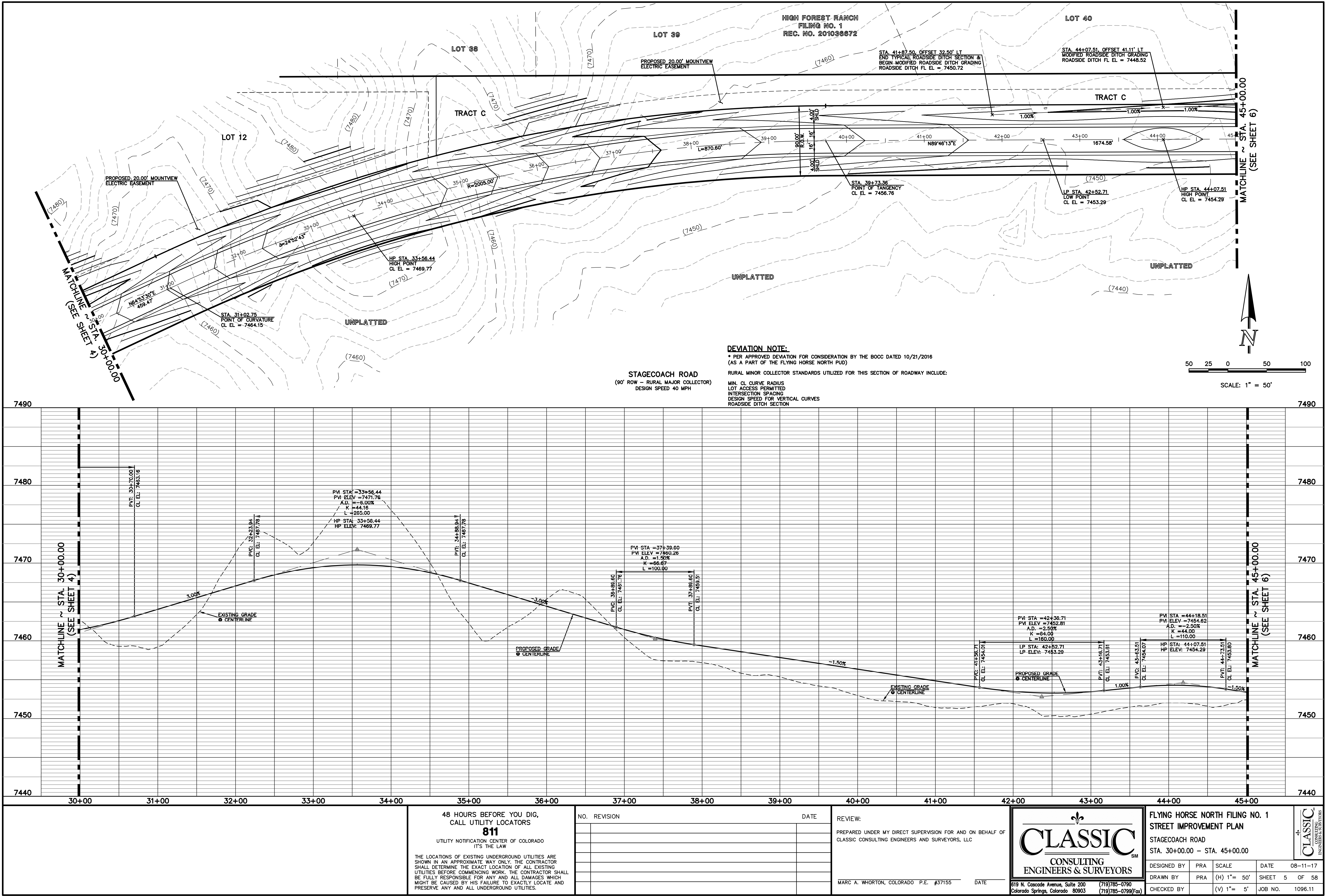




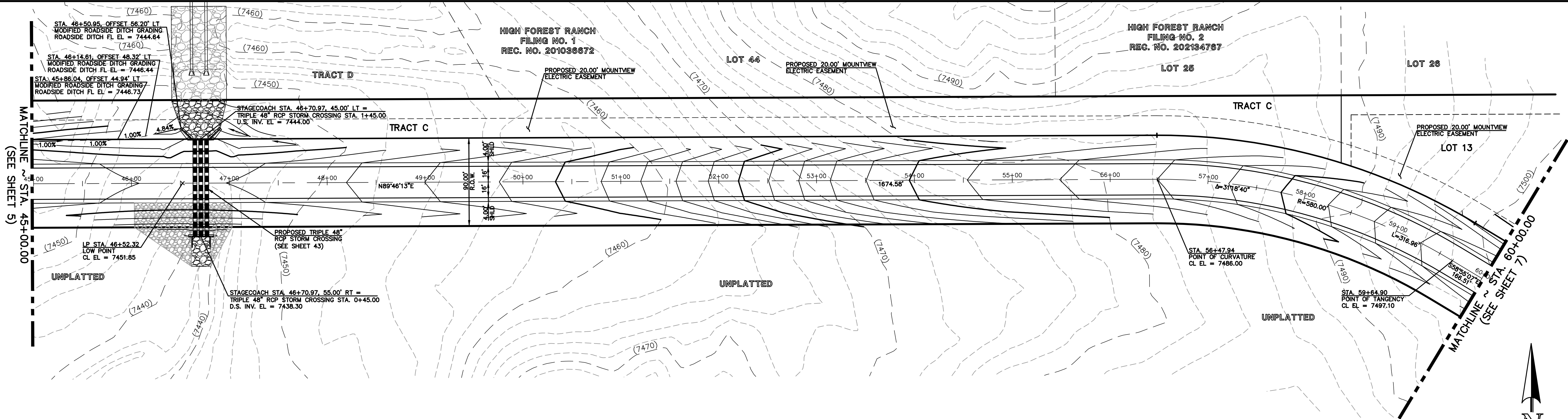




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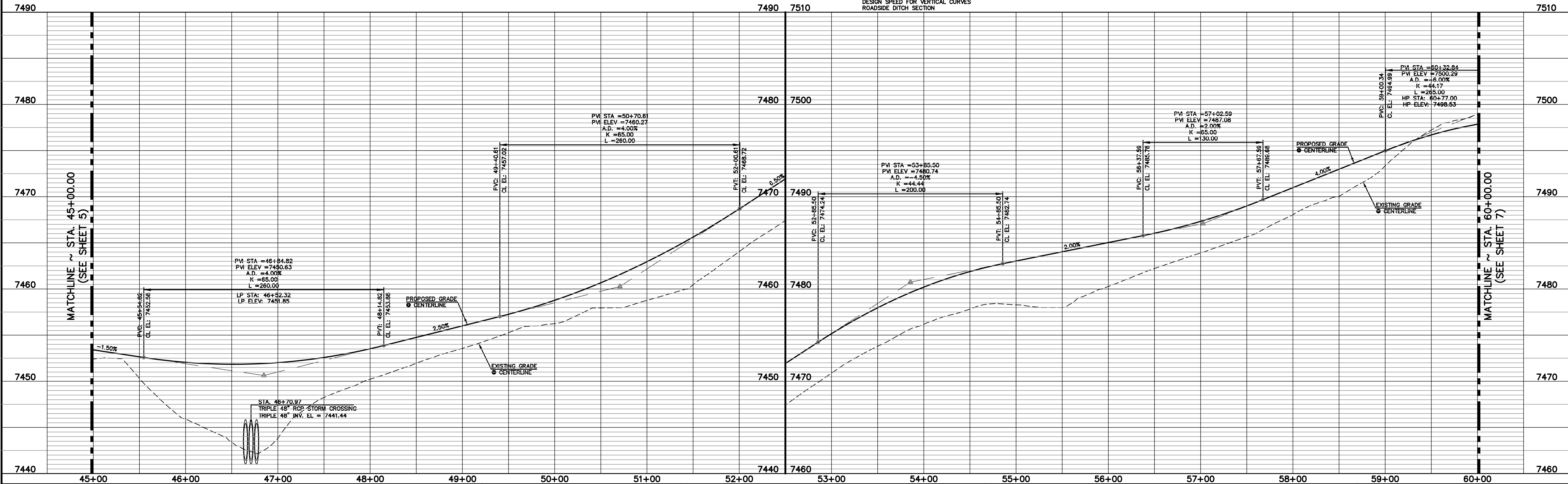
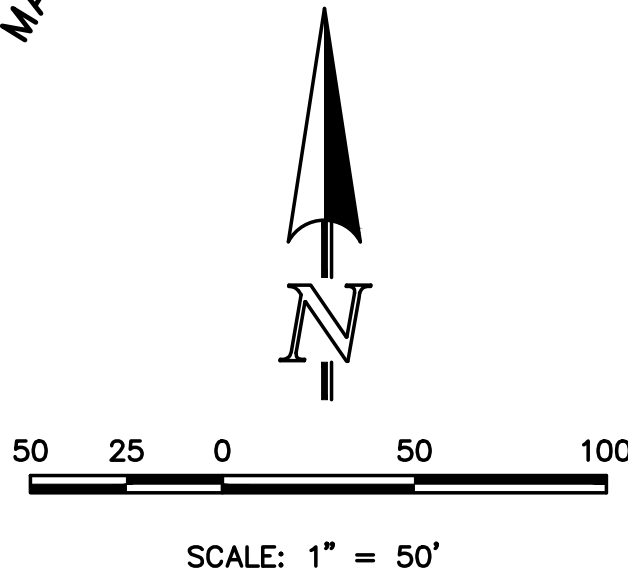




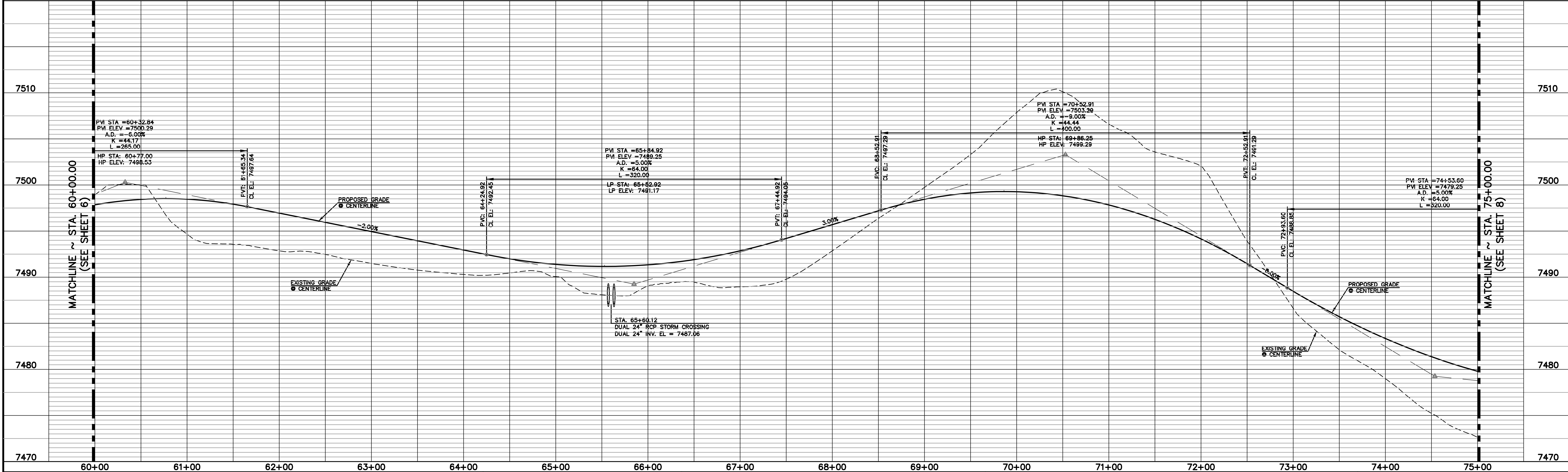
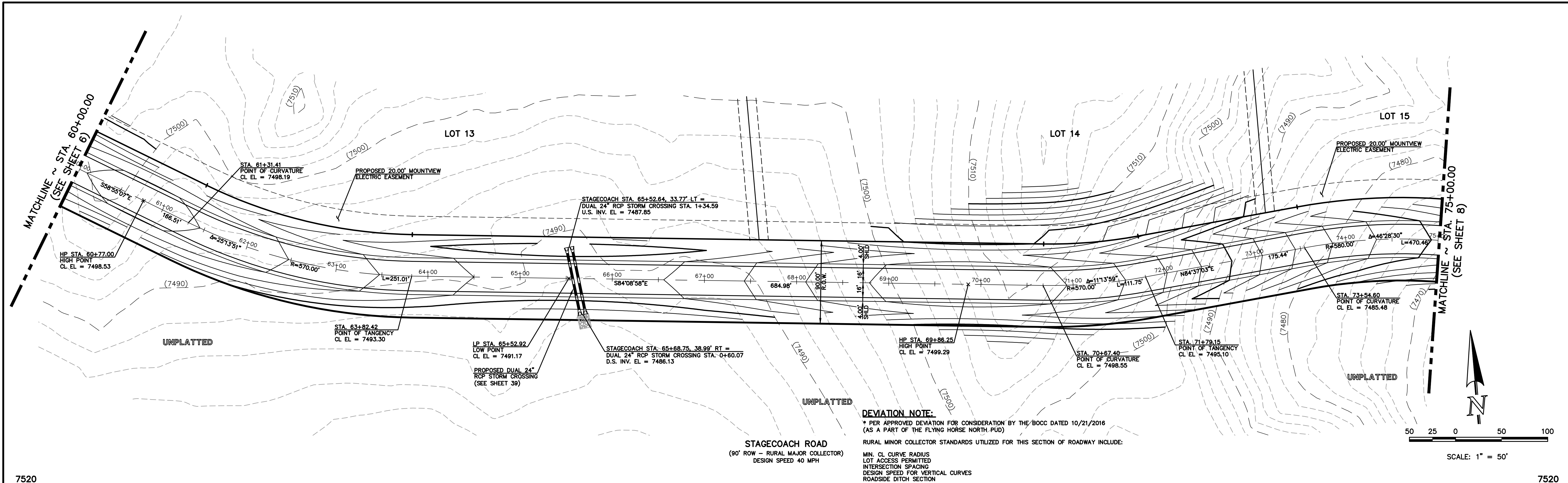


**DEVIATION NOTE:**  
\* PER APPROVED DEVIATION FOR CONSIDERATION BY THE BOCC DATED 10/21/2016  
(AS A PART OF THE FLYING HORSE NORTH PUD)  
RURAL MINOR COLLECTOR STANDARDS UTILIZED FOR THIS SECTION OF ROADWAY INCLUDE:  
MIN. CL CURVE RADIUS  
LOT ACCESS PERMITTED  
INTERSECTION SPACING  
DESIGN SPEED FOR VERTICAL CURVES  
ROADSIDE DITCH SECTION

**STAGECOACH ROAD**  
(90' ROW - RURAL MAJOR COLLECTOR)  
DESIGN SPEED 40 MPH



<p>48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS <b>811</b> 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> <table border="1"><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr></table>										<p>DATE</p> <table border="1"><tr><td> </td></tr><tr><td> </td></tr><tr><td> </td></tr><tr><td> </td></tr></table>					<p>REVIEW:</p> <p>PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC</p> <p>MARC A. WHORTON, COLORADO P.E. #37155</p> <p>DATE</p>	<p><b>CLASSIC</b> CONSULTING ENGINEERS &amp; SURVEYORS</p> <p>619 N. Cascade Avenue, Suite 200 Colorado Springs, Colorado 80903</p> <p>(719)785-0790 (719)785-0799(Fax)</p>	<p>FLYING HORSE NORTH FILING NO. 1 STREET IMPROVEMENT PLAN STAGECOACH ROAD STA. 45+00.00 - STA. 60+00.00</p> <table border="1"><tr><td>DESIGNED BY</td><td>PRA</td><td>SCALE</td><td>DATE</td><td>08-11-17</td></tr><tr><td>DRAWN BY</td><td>PRA</td><td>(H) 1"= 50'</td><td>SHEET</td><td>6 OF 58</td></tr><tr><td>CHECKED BY</td><td> </td><td>(V) 1"= 5'</td><td>JOB NO.</td><td>1096.11</td></tr></table>	DESIGNED BY	PRA	SCALE	DATE	08-11-17	DRAWN BY	PRA	(H) 1"= 50'	SHEET	6 OF 58	CHECKED BY		(V) 1"= 5'	JOB NO.	1096.11
DESIGNED BY	PRA	SCALE	DATE	08-11-17																													
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REVIEW:

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

MARC A. WHORTON, COLORADO P.E. #37155      DATE

CLASSIC

CONSULTING ENGINEERS & SURVEYORS

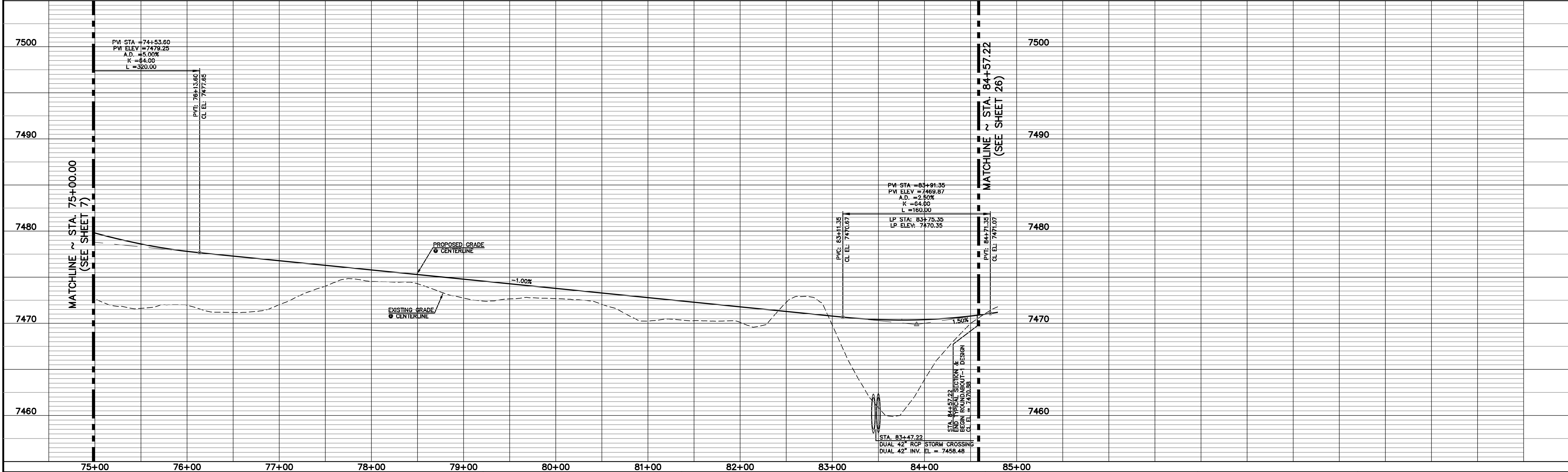
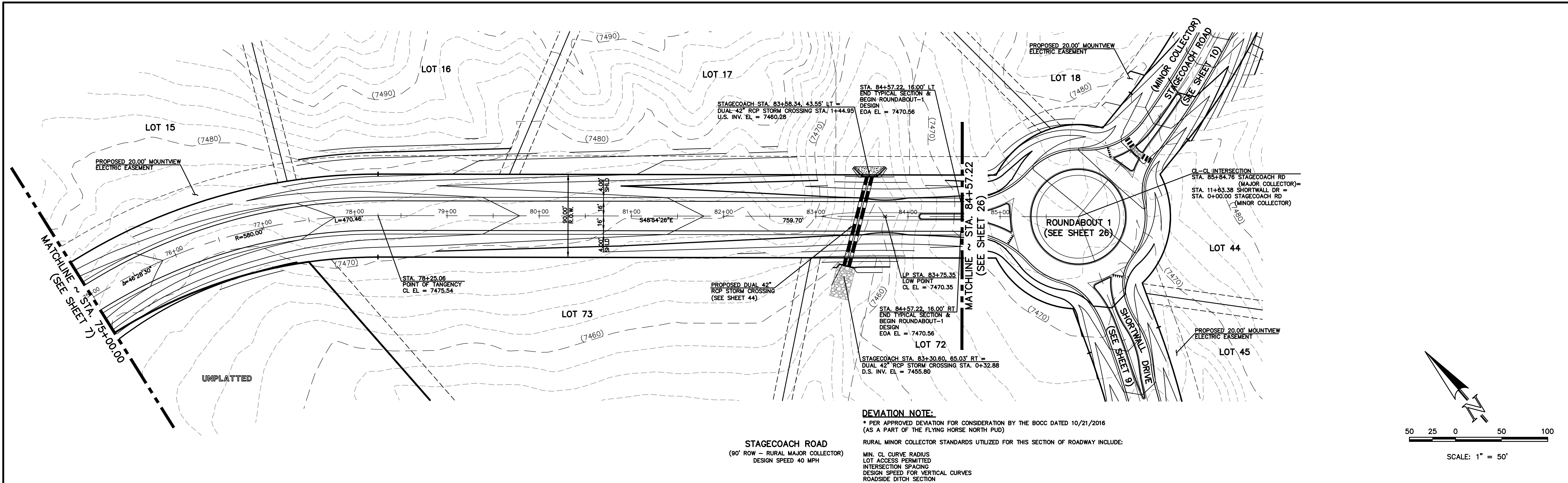
619 N. Cascade Avenue, Suite 200  
Colorado Springs, Colorado 80903

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

FLYING HORSE NORTH FILING NO. 1  
STREET IMPROVEMENT PLAN  
STAGECOACH ROAD  
STA. 60+00.00 - STA. 75+00.00

DESIGNED BY	PRA	SCALE	DATE
DRAWN BY	PRA	(H) 1"= 50'	SHEET 7 OF 58
CHECKED BY		(V) 1"= 5'	JOB NO. 1096.11





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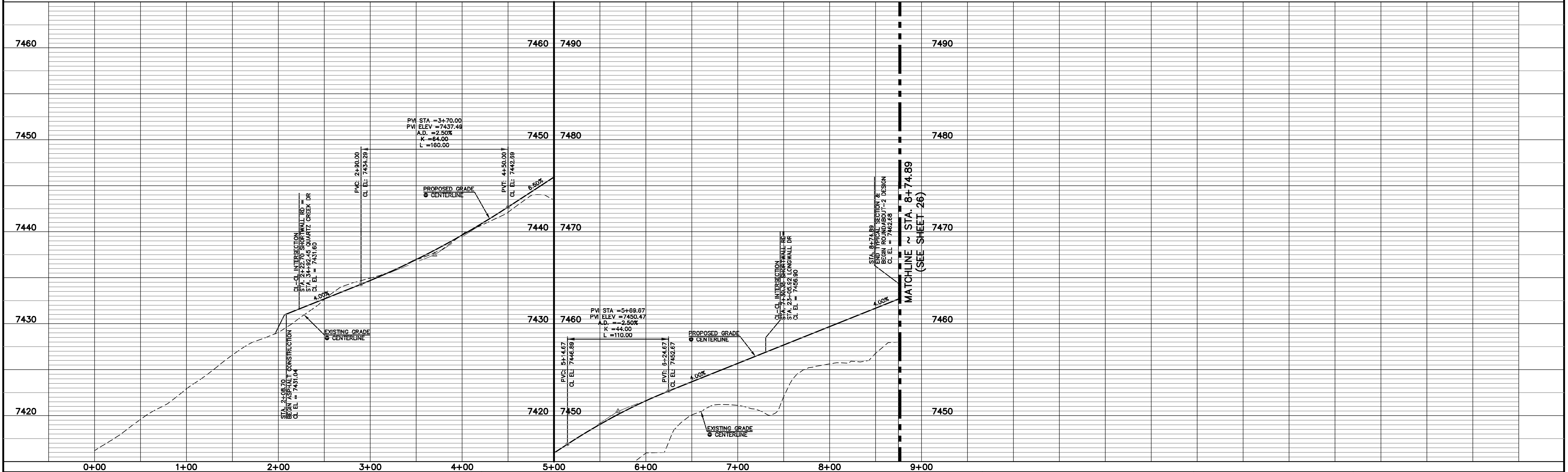
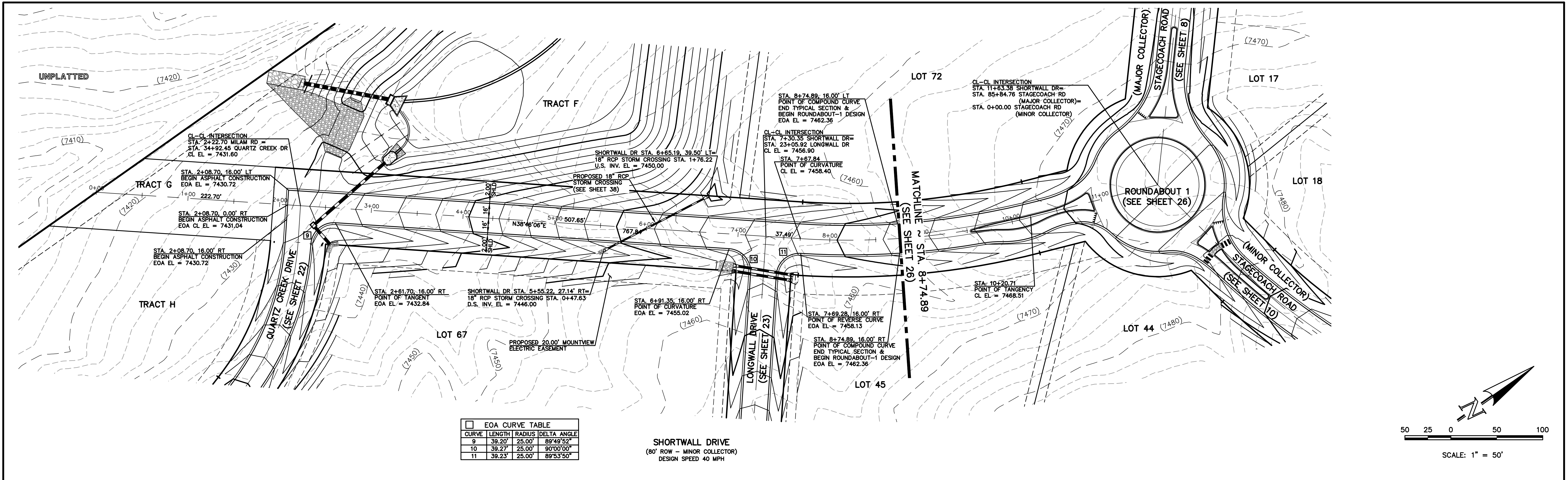
619 N. Cascade Avenue, Suite 200  
Colorado Springs, Colorado 80903

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(719) 785-0799 (Fax)

FLYING HORSE NORTH FILING NO. 1  
STREET IMPROVEMENT PLAN  
STAGECOACH ROAD  
STA. 75+00.00 - STA. 84+57.22

DESIGNED BY	PRA	SCALE	DATE	08-11-17
DRAWN BY	PRA	(H) 1"= 50'	SHEET	8 OF 58
CHECKED BY		(V) 1"= 5'	JOB NO.	1096.11

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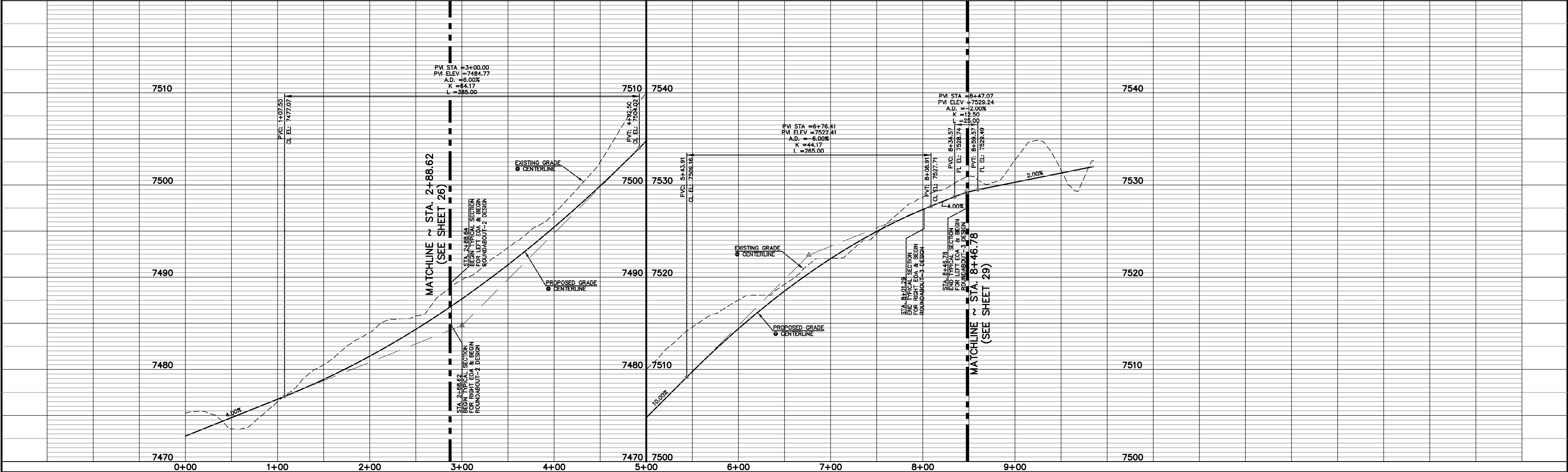
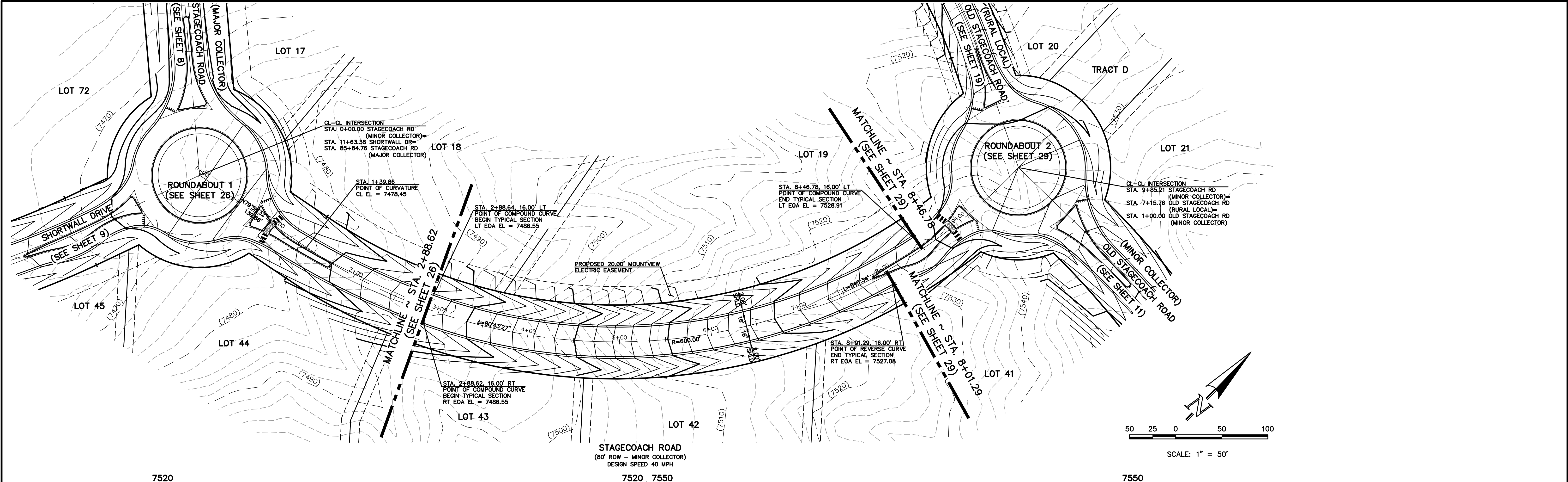
MARC A. WHORTON, COLORADO P.E. #37155 DATE



FLYING HORSE NORTH FILING NO. 1  
STREET IMPROVEMENT PLAN  
SHORTWALL DRIVE  
STA. 2+08.70 - STA. 8+74.89

DESIGNED BY	PRA	SCALE	DATE	08-11-17
DRAWN BY	PRA	(H) 1"= 50'	SHEET	9 OF 58
CHECKED BY	(V) 1"= 5'	JOB NO.	1096.11	





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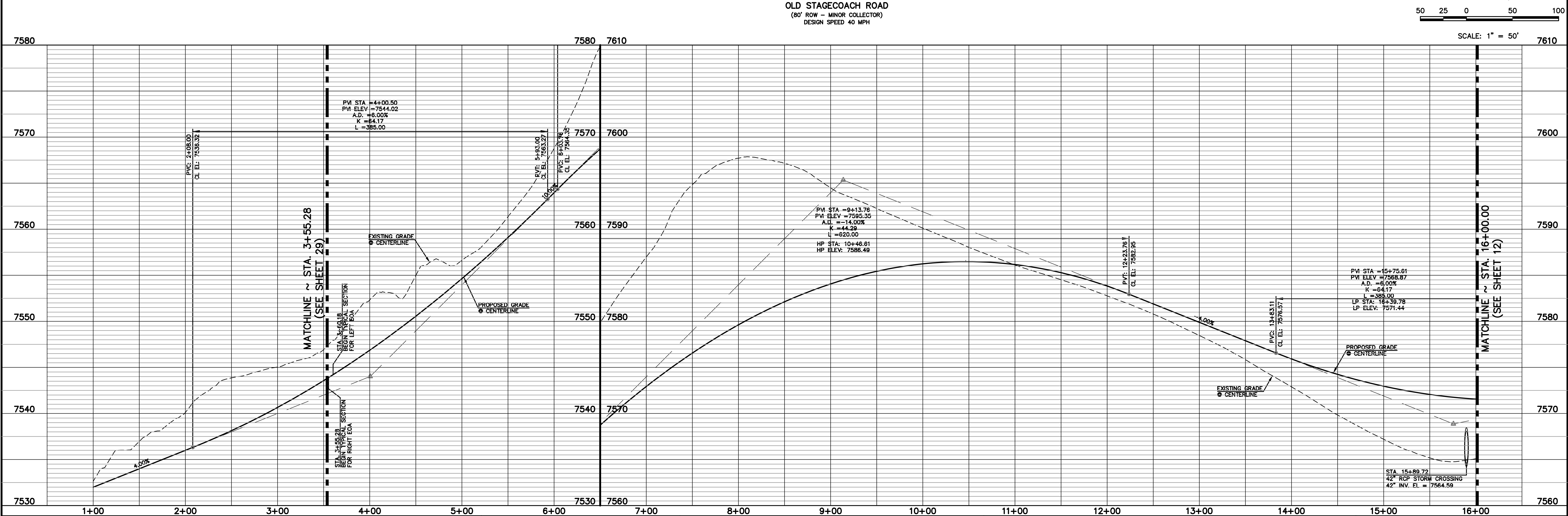
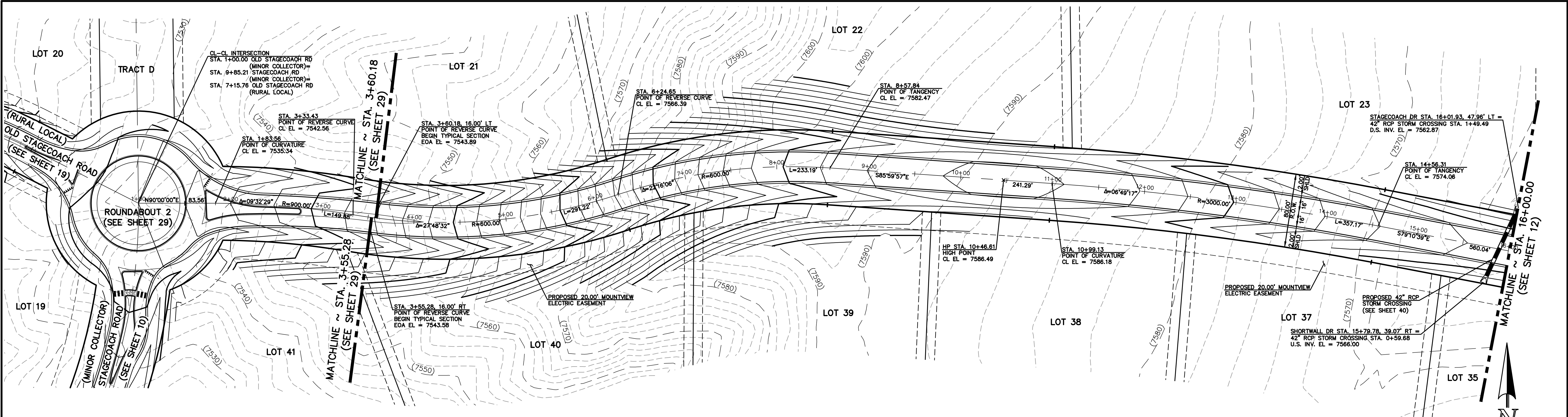
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Colorado Springs, Colorado 80903

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

FLYING HORSE NORTH FILING NO. 1  
STREET IMPROVEMENT PLAN  
STAGECOACH ROAD - MINOR COLLECTOR  
STA. 2+88.62 - STA. 8+46.78

DESIGNED BY	PRA	SCALE	DATE	08-11-17
DRAWN BY	PRA	(H) 1"= 50'	SHEET	10 OF 58
CHECKED BY	(V) 1"= 5'	JOB NO.	1096.11	



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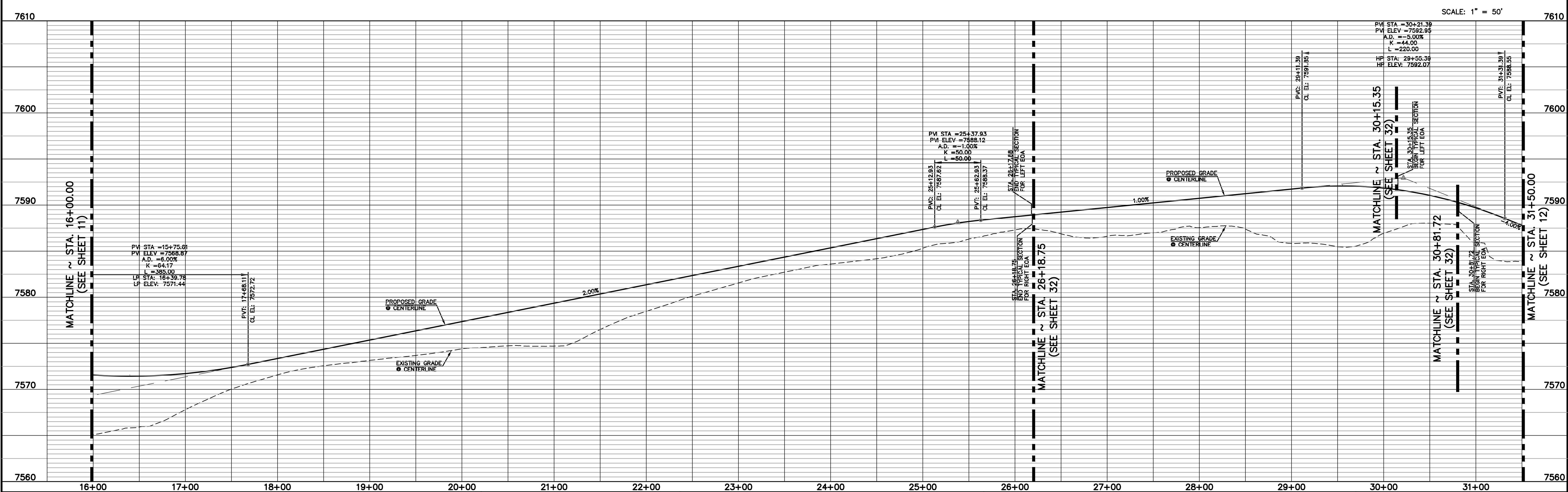
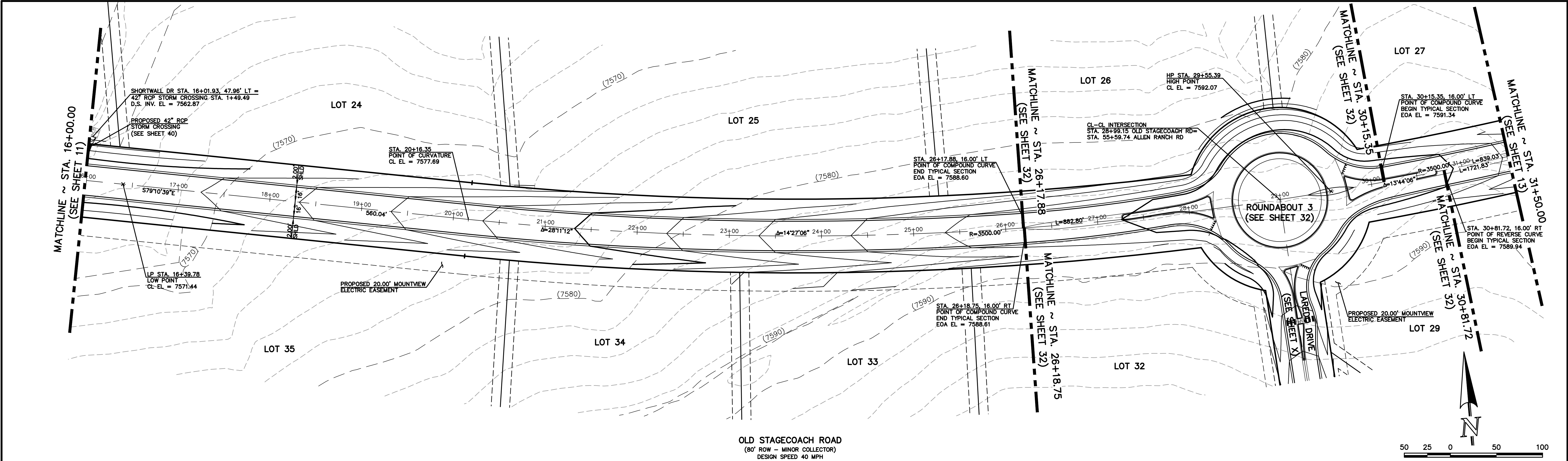
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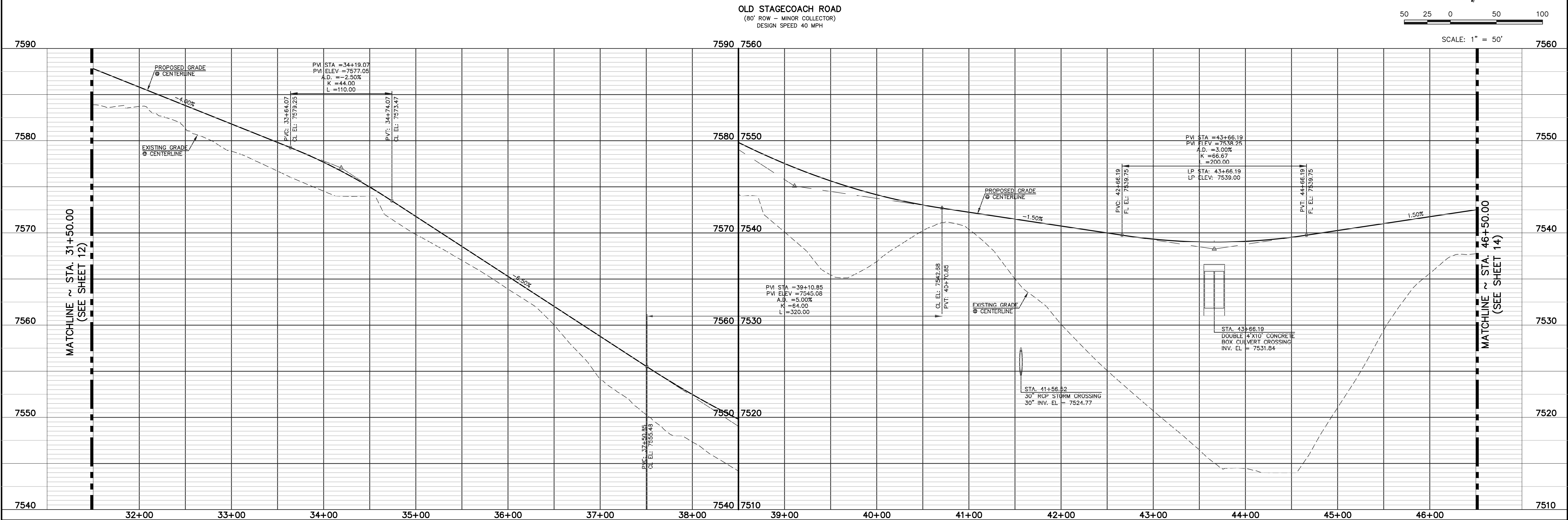
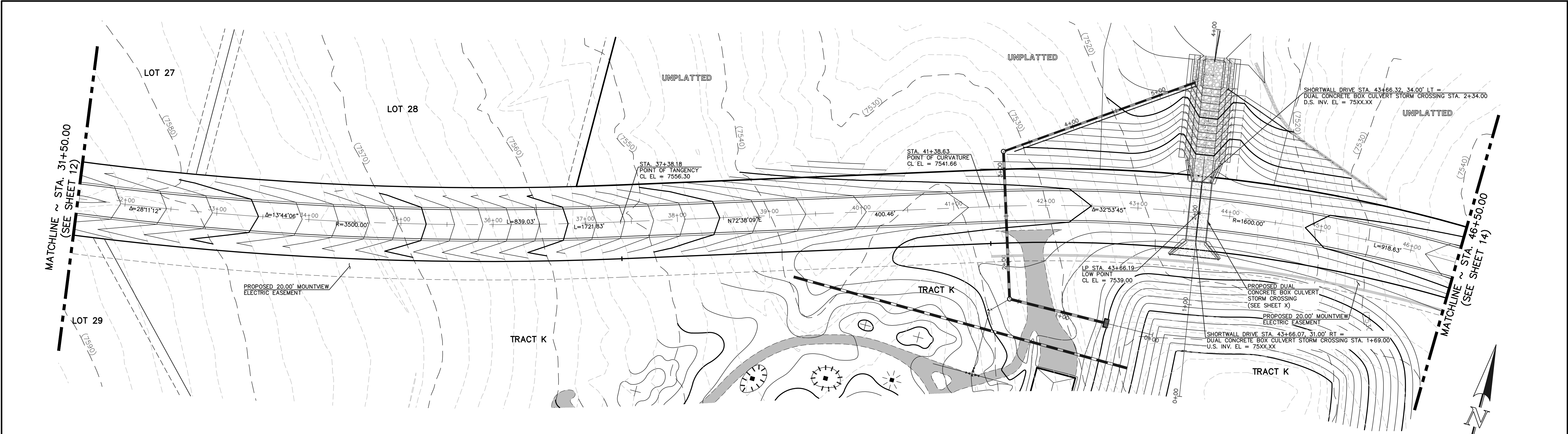
FLYING HORSE NORTH FILING NO. 1  
STREET IMPROVEMENT PLAN  
OLD STAGECOACH ROAD - MINOR COLLECTOR  
STA. 3+55.28 - STA. 16+00.00


DESIGNED BY	PRA	SCALE	DATE	08-11-17
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CHECKED BY	(V) 1"= 5'	JOB NO.	1096.11	



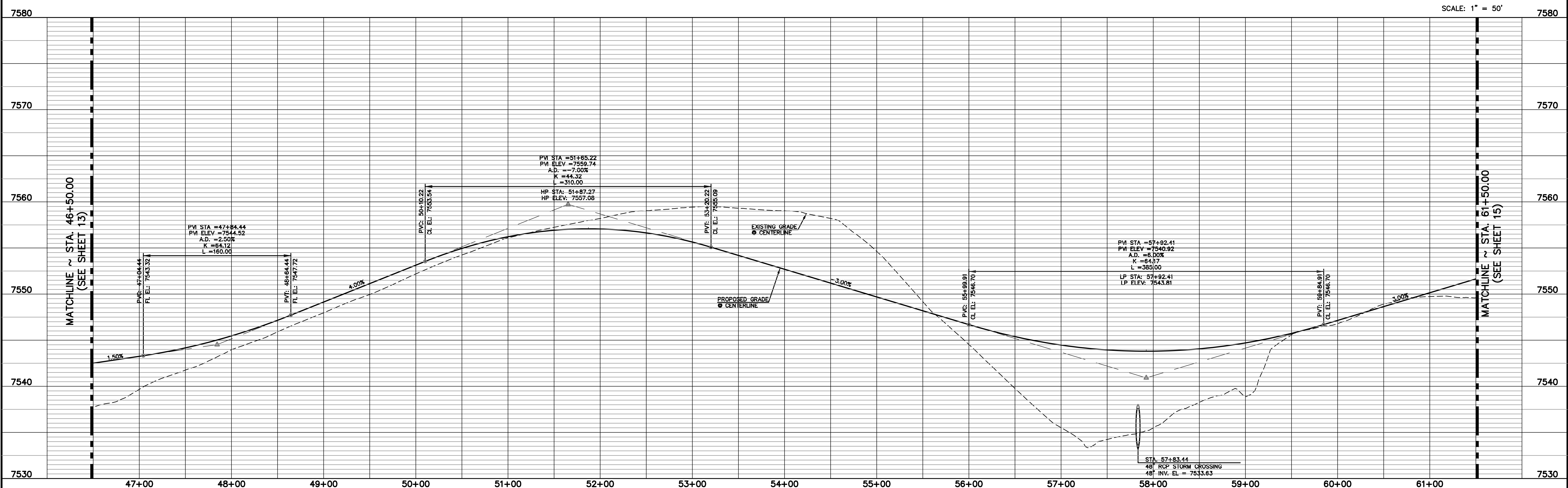
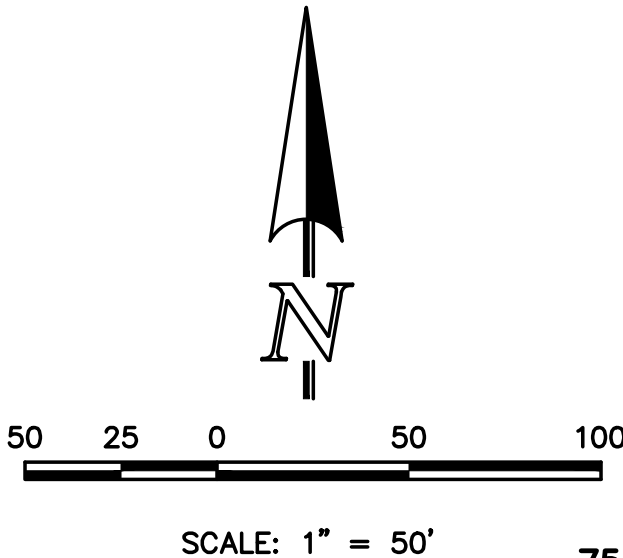
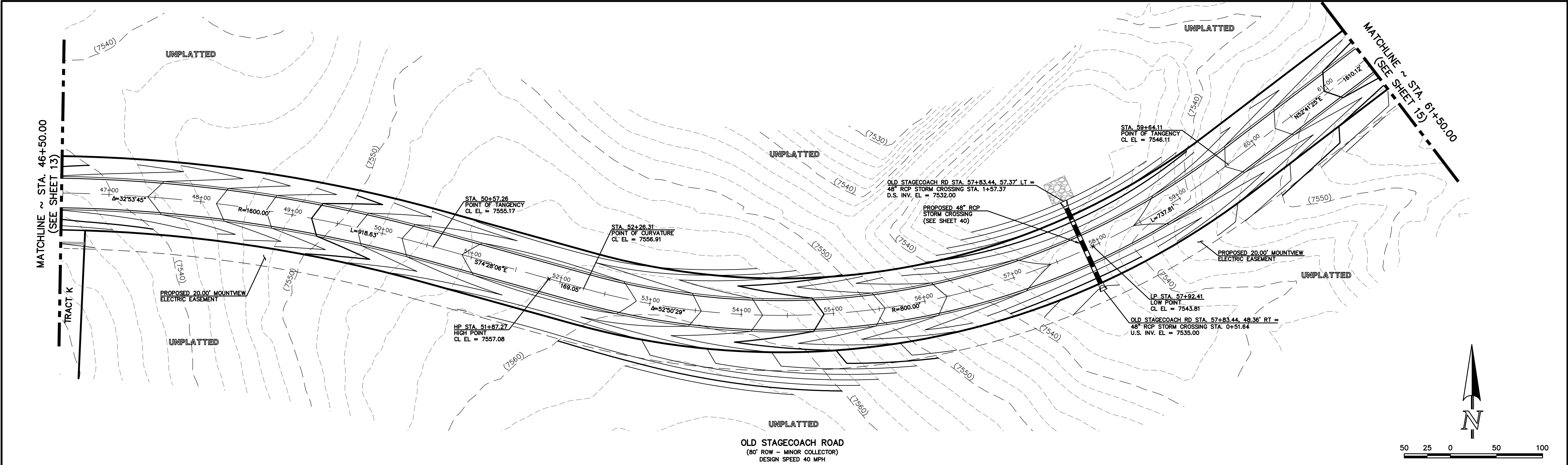


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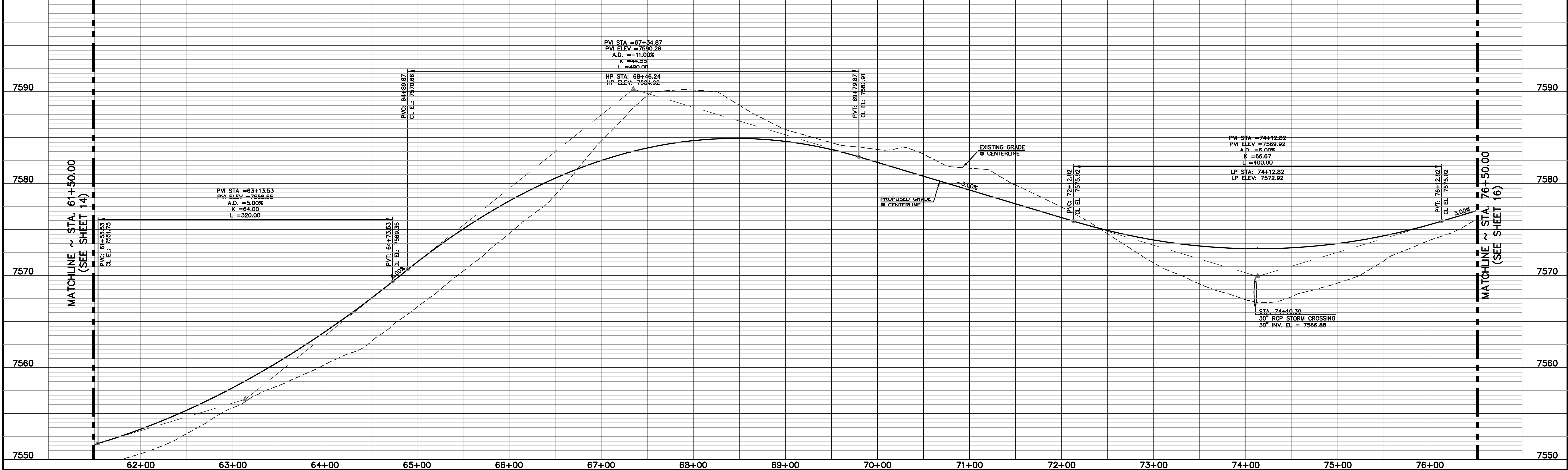
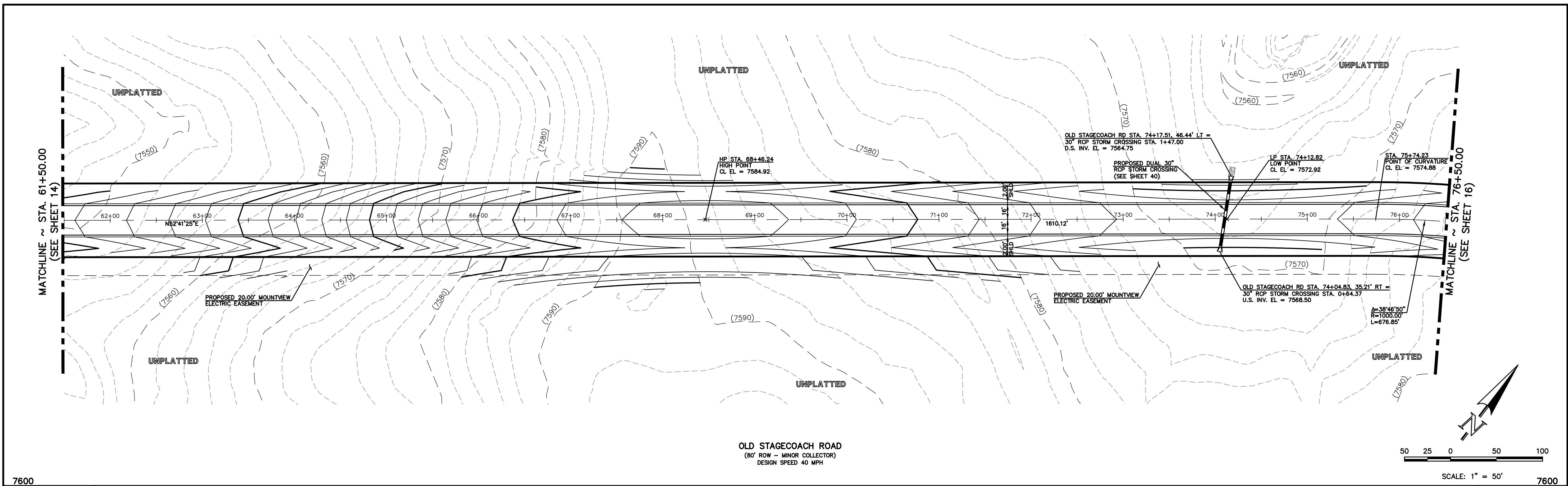


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DATE \_\_\_\_\_



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Colorado Springs, Colorado 80903 (719)785-0799(Fax)

FLYING HORSE NORTH FILING NO. 1  
STREET IMPROVEMENT PLAN

OLD STAGECOACH ROAD - MINOR COLLECTOR  
STA. 61+50.00 - STA. 76+50.00

DESIGNED BY	PRA	SCALE	DATE	08-11-17
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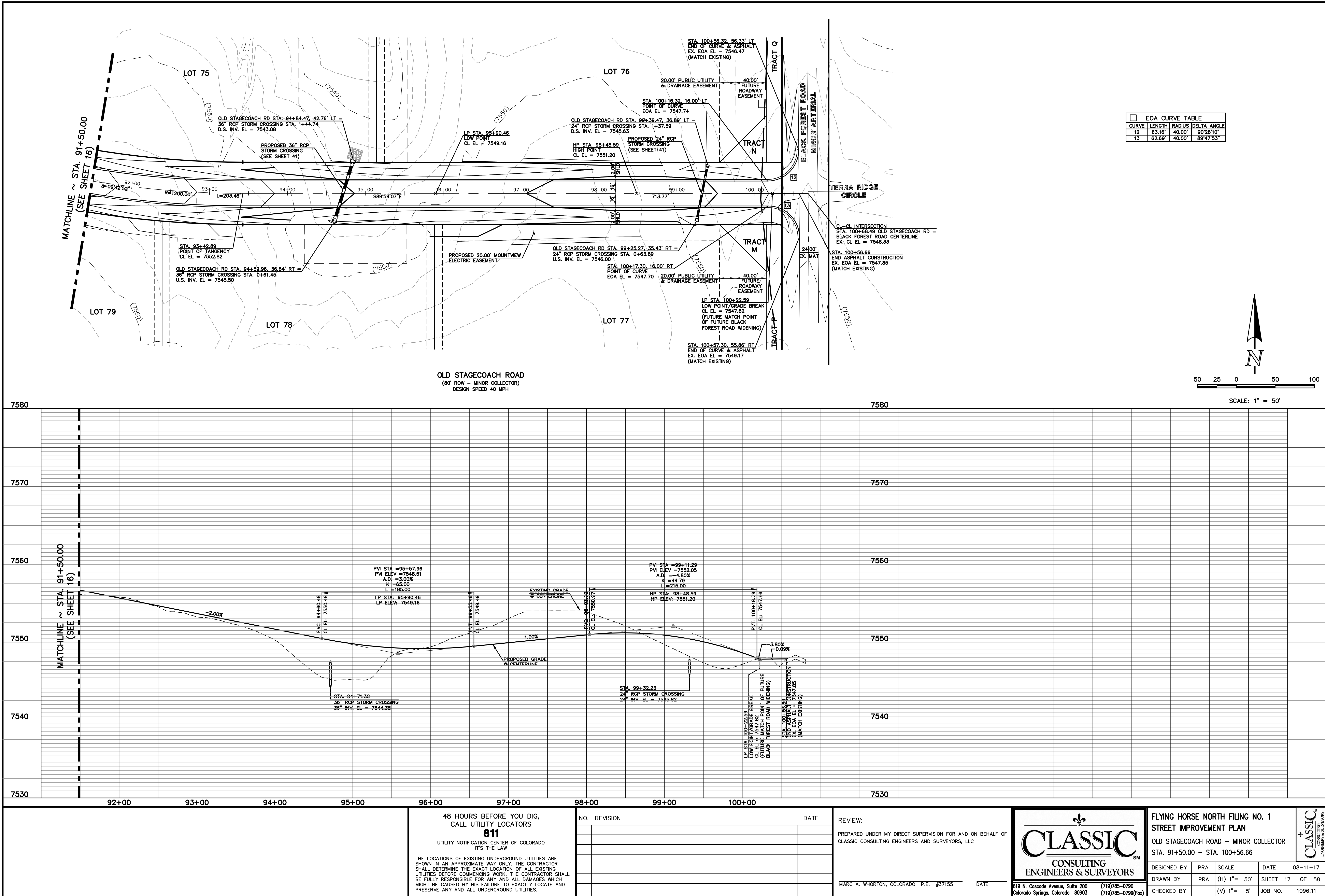
DRAWN BY	PRA	(H) 1" = 50'	SHEET 15 OF 58
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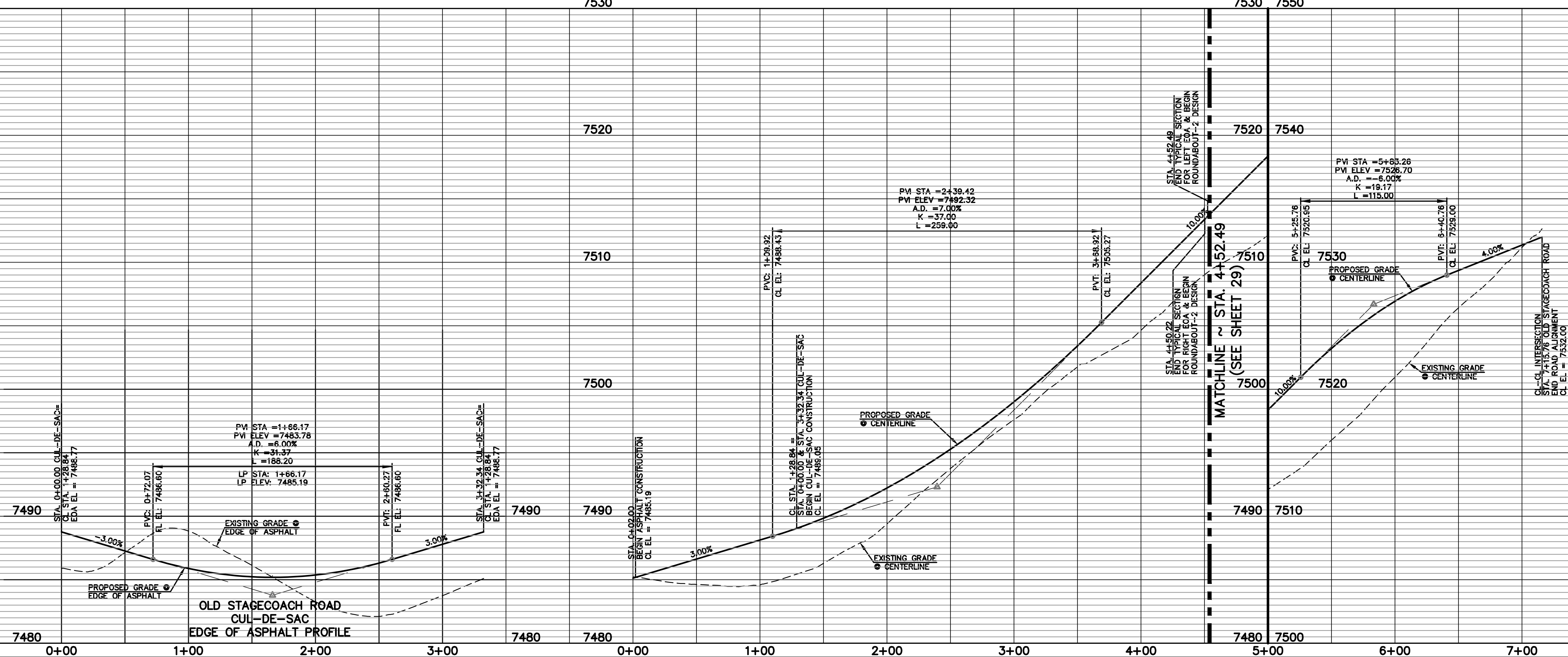
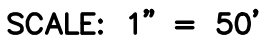
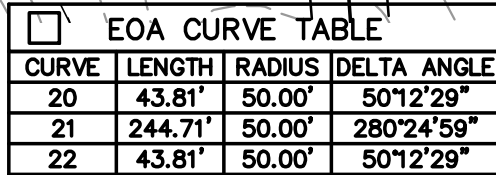
OLD STAGECOACH ROAD - MINOR COLLECTOR  
STA. 91+50.00 - STA. 100+56.66

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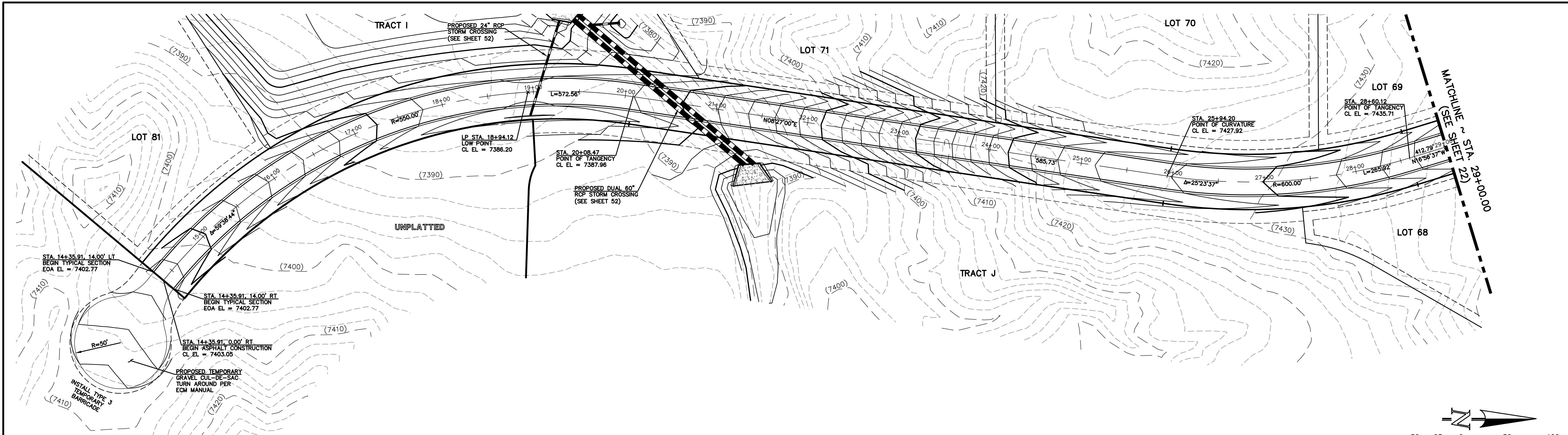
MARC A. WHORTON, COLORADO P.E. #37155



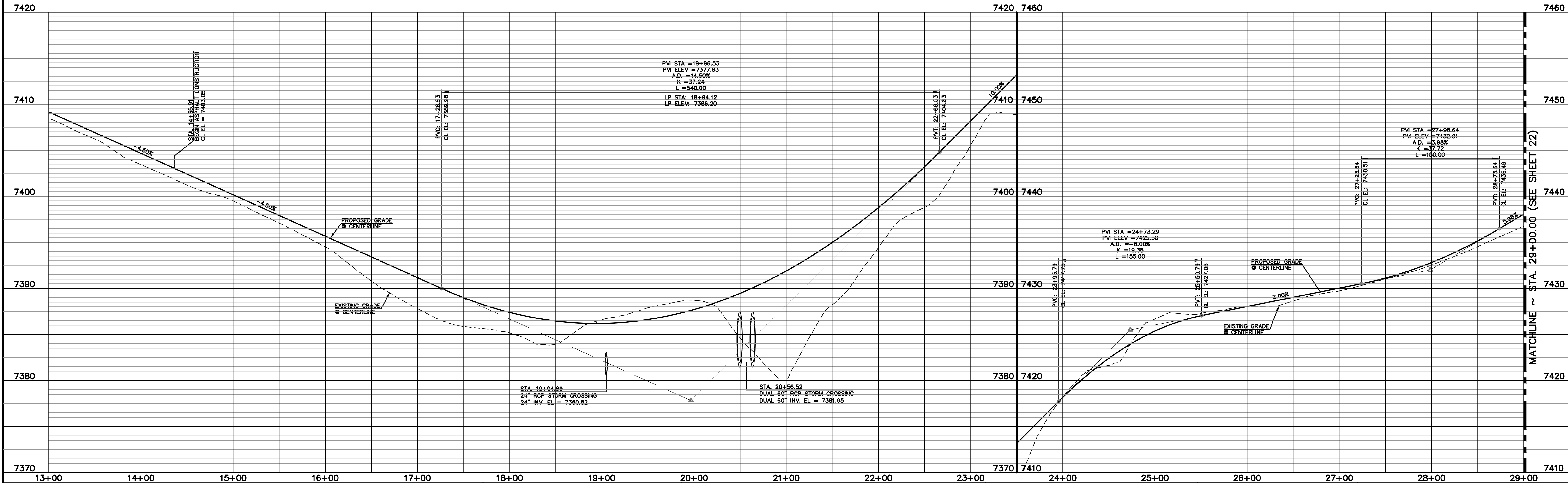
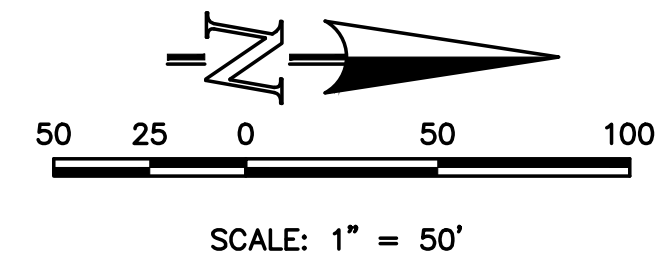
DESIGNED BY	PRA	SCALE	DATE	08-11-17
DRAWN BY	PRA	(H) 1" = 50'	SHEET	19 OF 58
CHECKED BY		(V) 1" = 5'	JOB NO.	1096.11








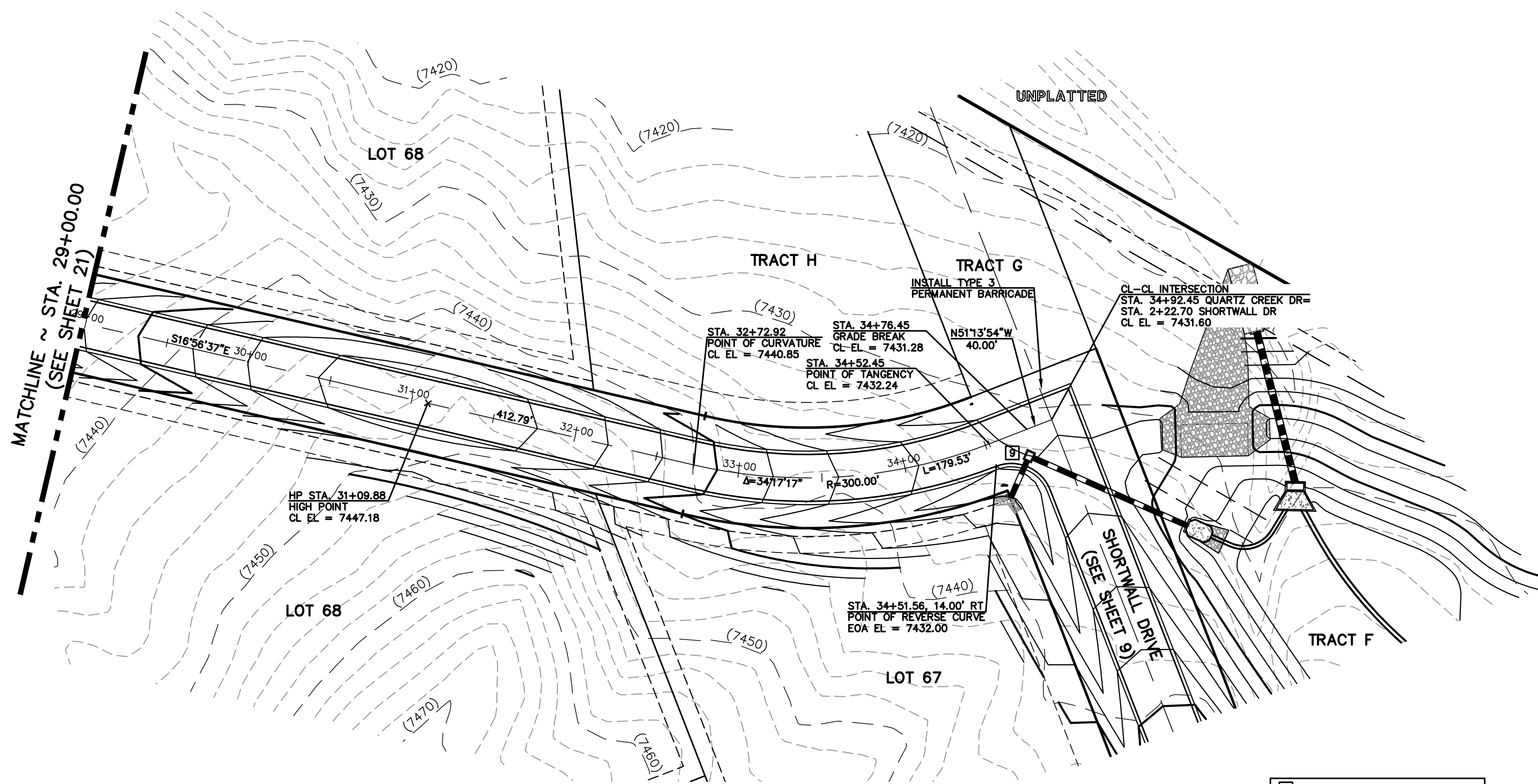
QUARTZ CREEK DRIVE  
(60' ROW - RURAL LOCAL)  
DESIGN SPEED 30 MPH



<p>48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS <b>811</b> 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>	<table border="1"><thead><tr><th>NO.</th><th>REVISION</th><th>DATE</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>	NO.	REVISION	DATE																<p>REVIEW:</p> <p>PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC</p> <p>MARC A. WHORTON, COLORADO P.E. #37155      DATE:      </p>	<div><p>CLASSIC CONSULTING ENGINEERS &amp; SURVEYORS</p></div> <p>619 N. Cascade Avenue, Suite 200 Colorado Springs, Colorado 80903</p> <p>(719) 785-0790 (719) 785-0799 (Fax)</p>	<p>FLYING HORSE NORTH FILING NO. 1 STREET IMPROVEMENT PLAN QUARTZ CREEK DRIVE (STA. 14+35.91 - STA. 29+00.00)</p> <table border="1"><thead><tr><th>DESIGNED BY</th><th>PRA</th><th>SCALE</th><th>DATE</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td><td>08-11-17</td></tr></tbody></table> <table border="1"><thead><tr><th>DRAWN BY</th><th>PRA</th><th>(H) 1"= 50'</th><th>SHEET 21 OF 58</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td><td> </td></tr></tbody></table> <table border="1"><thead><tr><th>CHECKED BY</th><th>(V) 1"= 5'</th><th>JOB NO.</th><th>1096.11</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td><td> </td></tr></tbody></table>	DESIGNED BY	PRA	SCALE	DATE				08-11-17	DRAWN BY	PRA	(H) 1"= 50'	SHEET 21 OF 58					CHECKED BY	(V) 1"= 5'	JOB NO.	1096.11				
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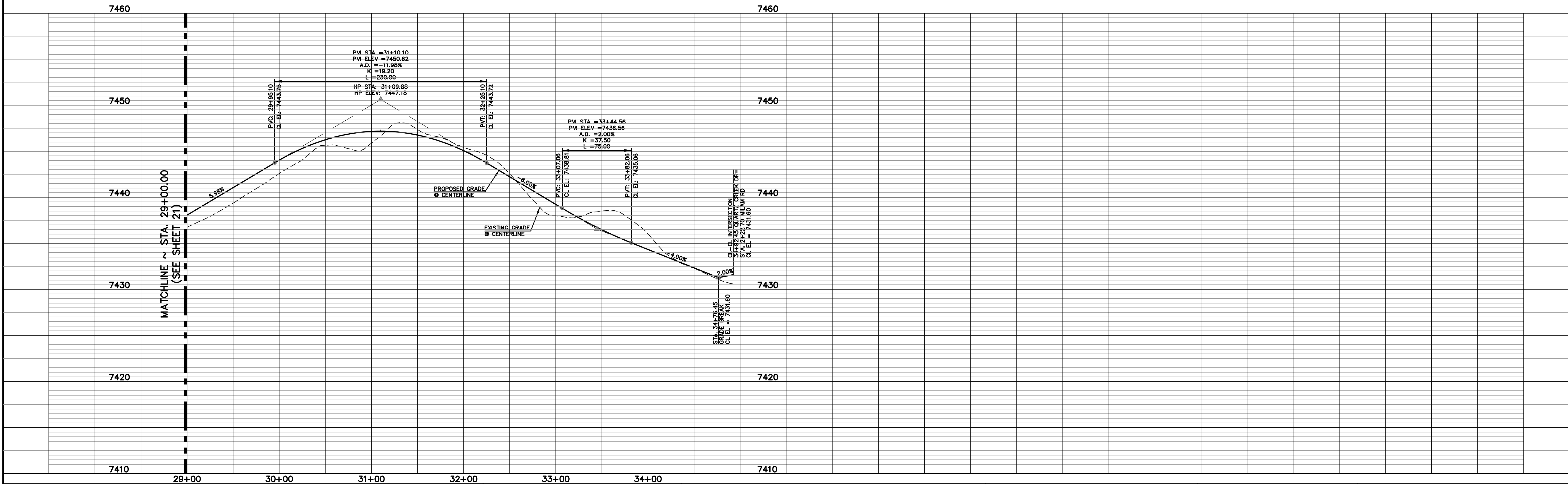
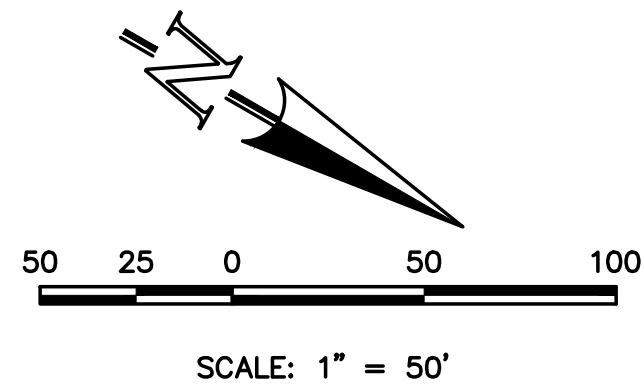


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QUARTZ CREEK DRIVE  
(60' ROW - RURAL LOCAL)  
DESIGN SPEED 30 MPH

EOA CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA ANGLE
9	39.20'	25.00'	89°49'52"



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NO. REVISION

DATE

REVIEW:

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

MARC A. WHORTON, COLORADO P.E. #37155

DATE



FLYING HORSE NORTH FILING NO. 1  
STREET IMPROVEMENT PLAN  
QUARTZ CREEK DRIVE  
(STA. 29+00.00-ST.A. 34+92.45)

DESIGNED BY	PRA	SCALE	DATE	08-11-17
DRAWN BY	PRA	(H) 1"= 50'	SHEET	22 OF 58
CHECKED BY		(V) 1"= 5'	JOB NO.	1096.11

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

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



CL STA. 1+02.00, 0.00' RT=  
STA. 1+67.92 CUL-DE-SAC  
BEGIN ASPHALT CONSTRUCTION  
CL EL = 7475.55

CL STA. 1+52.00, 50.00' LT=  
STA. 0+89.38 CUL-DE-SAC  
POINT ON CURVE  
EOA EL = 7475.78

CL STA. 1+52.00, 0.00' RT  
CENTER OF CUL-DE-SAC  
CL EL = 7476.05

CL STA. 1+90.34, 32.09' LT=  
STA. 0+45.69 CUL-DE-SAC  
POINT OF REVERSE CURVE  
EOA EL = 7476.11

CL STA. 2+31.24, 14.00' LT=  
STA. 0+00.00 CUL-DE-SAC  
POINT OF COMPOUND CURVE  
EOA EL = 7476.56

STA. 4+29.45  
POINT OF TANGENCY  
CL EL = 7477.14

STA. 6+28.98  
POINT OF CURVATURE  
CL EL = 7472.15

LONGWALL DR STA. 7+58.28, 28.99' LT =  
DUAL 18" RCP STORM CROSSING STA. 0+68.11  
U.S. INV. EL = 7465.95

STA. 8+32.78, 14.00' LT  
POINT OF COMPOUND CURVE  
EOA EL = 7469.61

STA. 7+87.74  
POINT OF TANGENCY  
CL EL = 7469.55

LP STA. 7+79.54  
LOW POINT  
CL EL = 7469.55

HP STA. 8+97.44  
HIGH POINT  
CL EL = 7470.44

STA. 10+95.92, 14.00' LT  
END TRANS.  
EOA EL = 7465.80

STA. 10+70.92, 26.00' LT  
BEGIN TRANS.  
EOA EL = 7464.50

STA. 9+04.28, 14.00' LT  
POINT OF COMPOUND CURVE  
EOA EL = 7470.15

STA. 10+45.92, 26.00' LT  
END TRANS.  
EOA EL = 7465.50

STA. 10+20.92, 14.00' LT  
BEGIN TRANS.  
EOA EL = 7466.75

STA. 10+20.92  
POINT OF TANGENCY  
CL EL = 7467.03

STA. 9+00.97, 14.00' RT  
POINT OF REVERSE CURVE  
EOA EL = 7470.16

CL-CL INTERSECTION  
STA. 8+68.53 LONGWALL DR =  
STA. 8+98.53 GOLD RUN CT  
CL EL = 7470.25

STA. 7+89.66  
POINT OF CURVATURE  
CL EL = 7469.56

STA. 8+36.09, 14.00' RT  
POINT OF REVERSE CURVE  
EOA EL = 7469.65

PROPOSED DUAL 18"  
RCP STORM CROSSING  
(SEE SHEET 42)

A=30°19'12"  
R=300.00'  
L=158.75'

A=18°55'43"  
R=231.26'

LONGWALL DR STA. 7+80.33, 27.68' RT =  
DUAL 18" RCP STORM CROSSING STA. 1+29.85  
D.S. INV. EL = 7466.66

N44°48'10"W  
1.92'

CL STA. 2+27.24, 14.00' RT=  
STA. 3+32.93 CUL-DE-SAC  
POINT OF REVERSE CURVE  
EOA EL = 7476.52

CL STA. 1+90.47, 31.94' RT=  
STA. 2+90.36 CUL-DE-SAC  
POINT OF REVERSE CURVE  
EOA EL = 7476.10

CL STA. 2+19.24  
POINT OF CURVATURE  
CL EL = 7476.72

HP STA. 3+66.30  
HIGH POINT  
CL EL = 7478.09

STA. 7+89.66  
POINT OF CURVATURE  
CL EL = 7469.56

STA. 8+36.09, 14.00' RT  
POINT OF REVERSE CURVE  
EOA EL = 7469.65

CL STA. 1+52.00, 50.00' RT=  
STA. 2+46.46 CUL-DE-SAC  
POINT ON CURVE  
EOA EL = 7475.77

CL STA. 1+52.00, 50.00' LT=  
STA. 0+89.38 CUL-DE-SAC  
POINT ON CURVE  
EOA EL = 7475.78

CL STA. 1+90.34, 32.09' LT=  
STA. 0+45.69 CUL-DE-SAC  
POINT OF REVERSE CURVE  
EOA EL = 7476.11

CL STA. 2+31.24, 14.00' LT=  
STA. 0+00.00 CUL-DE-SAC  
POINT OF COMPOUND CURVE  
EOA EL = 7476.56

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POINT OF TANGENCY  
CL EL = 7469.55

LP STA. 7+79.54  
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STA. 10+20.92, 14.00' LT  
BEGIN TRANS.  
EOA EL = 7466.75

STA. 10+20.92  
POINT OF TANGENCY  
CL EL = 7467.03

STA. 9+00.97, 14.00' RT  
POINT OF REVERSE CURVE  
EOA EL = 7470.16

CL-CL INTERSECTION  
STA. 8+68.53 LONGWALL DR =  
STA. 8+98.53 GOLD RUN CT  
CL EL = 7470.25

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POINT OF CURVATURE  
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D.S. INV. EL = 7466.66

N44°48'10"W  
1.92'

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POINT OF REVERSE CURVE  
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EOA EL = 7476.10

CL STA. 2+19.24  
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POINT OF CURVATURE  
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EOA EL = 7464.50

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POINT OF COMPOUND CURVE  
EOA EL = 7470.15

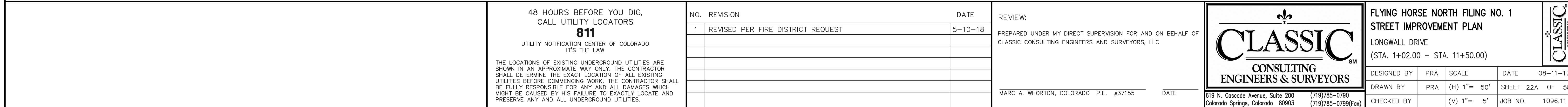
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END TRANS.  
EOA EL = 7465.50

STA. 10+20.92, 14.00' LT  
BEGIN TRANS.  
EOA EL = 7466.75

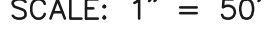
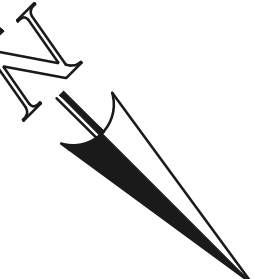
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POINT OF TANGENCY  
CL EL = 7467.03


STA. 9+00.97, 14.00' RT  
POINT OF REVERSE CURVE  
EOA EL = 7470.16

CL-CL INTERSECTION  
STA. 8+68.53 LONGWALL DR =  
STA. 8+98.53 GOLD RUN CT  
CL EL = 7470.2







FLYING HORSE NORTH FILING NO. 1 STREET IMPROVEMENT PLAN LONGWALL DRIVE (STA. 11+50.00—STA. 23+05.92)					
DESIGNED BY	PRA	SCALE	DATE 08—11—17		
DRAWN BY	PRA	(H) 1"= 50'	SHEET	23	OF 58
CHECKED BY	(V)	1"= 5'	JOB NO.	1096.11	

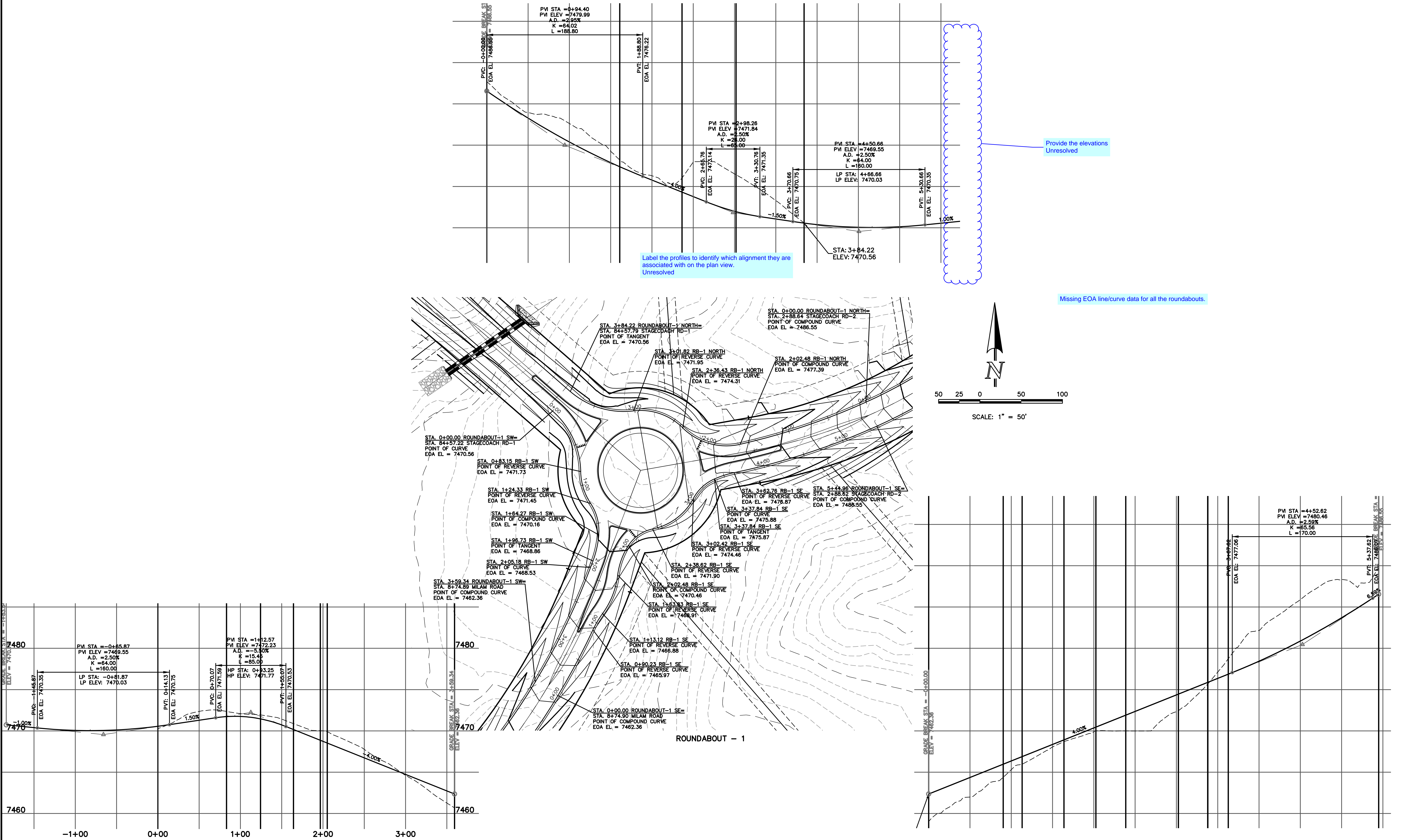








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NO. REVISION

DATE

REVIEW:

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

MARC A. WHORTON, COLORADO P.E. #37155

DATE

**CLASSIC**  
CONSULTING  
ENGINEERS & SURVEYORS

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

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

FLYING HORSE NORTH FILING NO. 1  
STREET IMPROVEMENT PLAN  
ROUNDABOUT 1  
PLAN AND PROFILE PLAN

DESIGNED BY	PRA	SCALE	DATE	08-11-17
DRAWN BY	PRA	(H) 1"= 50'	SHEET	26 OF 58
CHECKED BY		(V) 1"= 5'	JOB NO.	1096.11

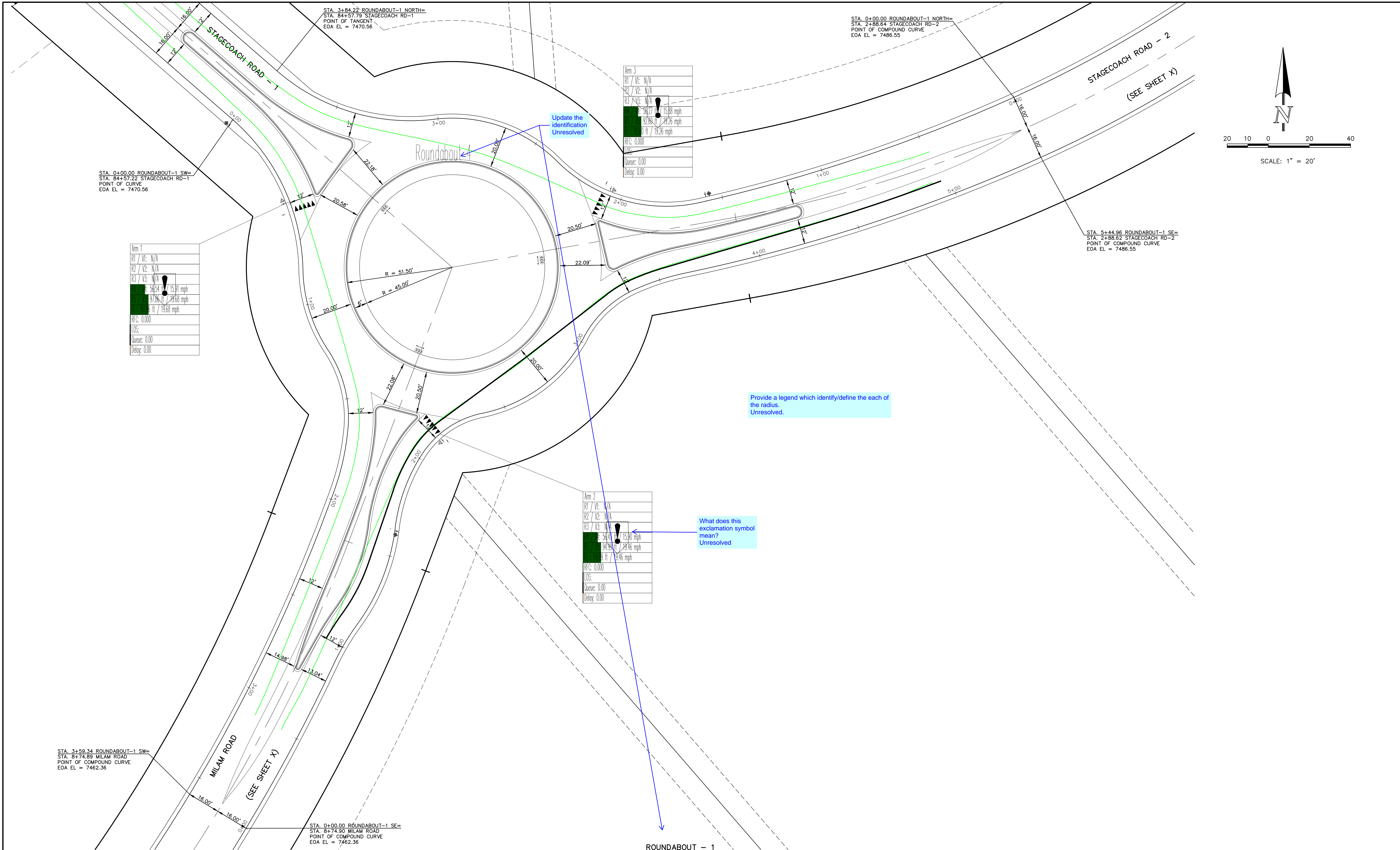
**CLASSIC**  
CONSULTING  
ENGINEERS & SURVEYORS







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48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS <b>811</b> UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW		NO. REVISION		DATE		REVIEW:	
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						MARC A. WHORTON, COLORADO P.E. #37155	
						DATE	

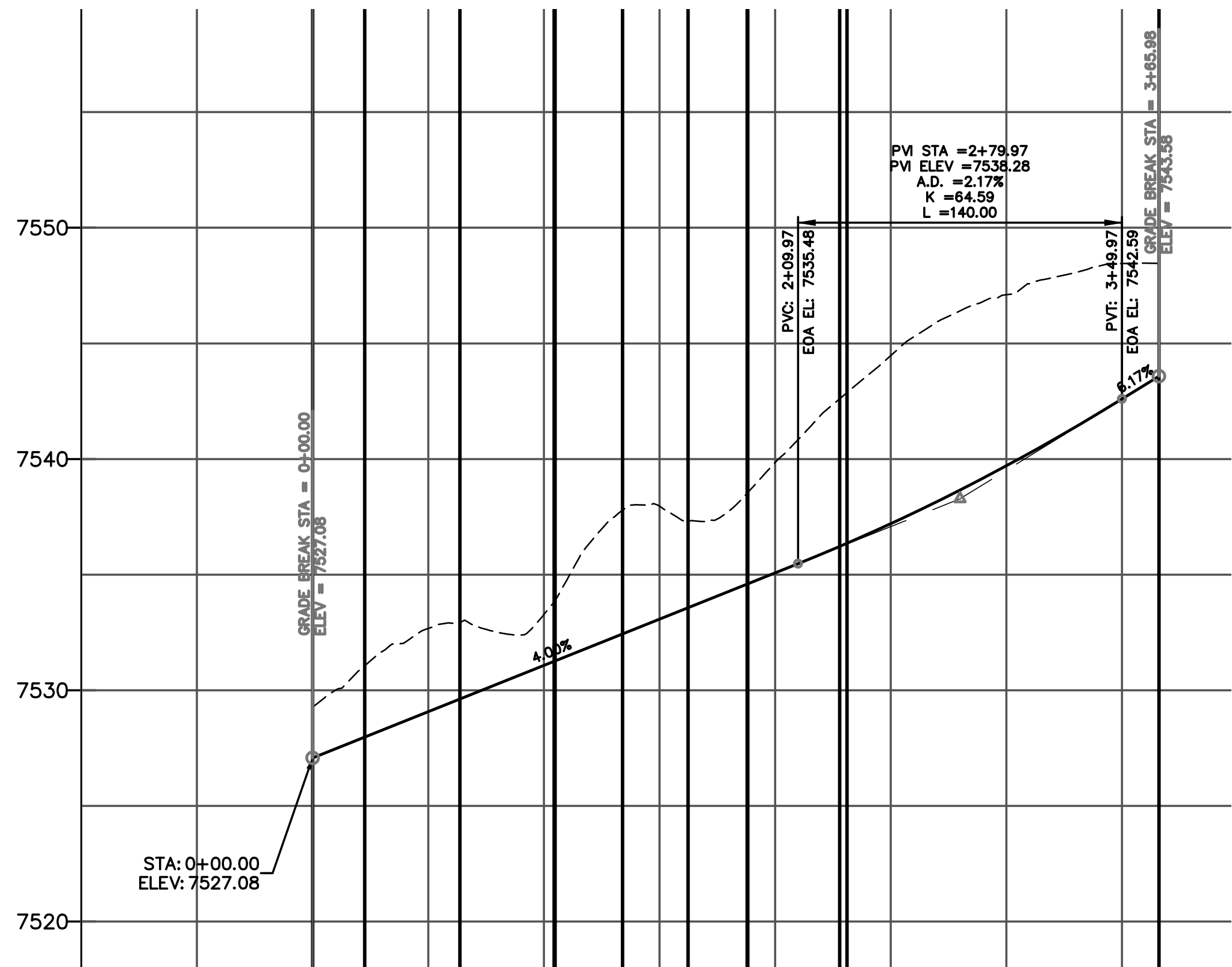
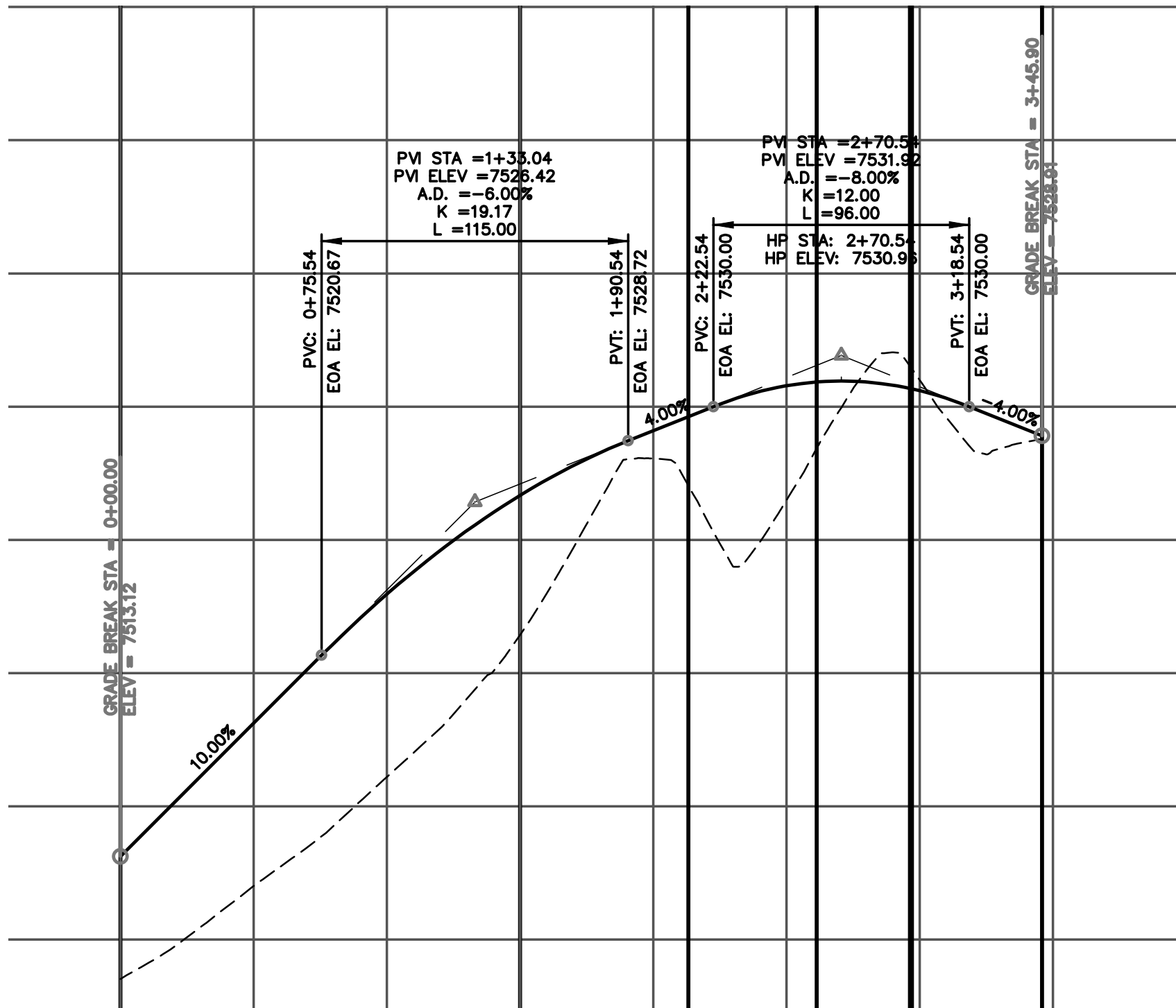
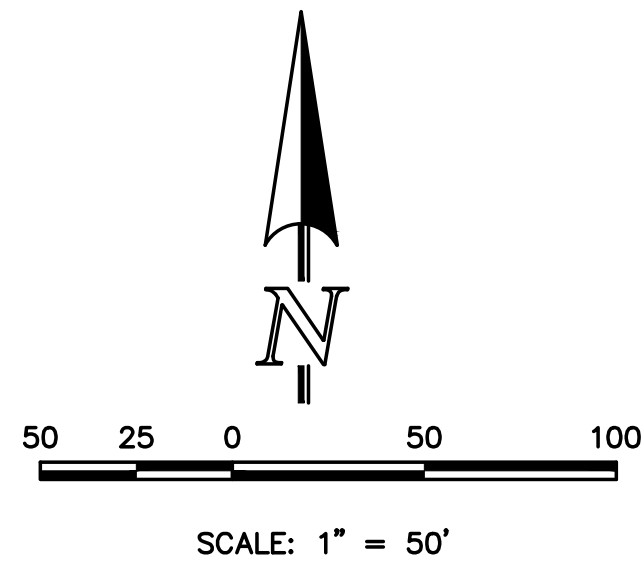
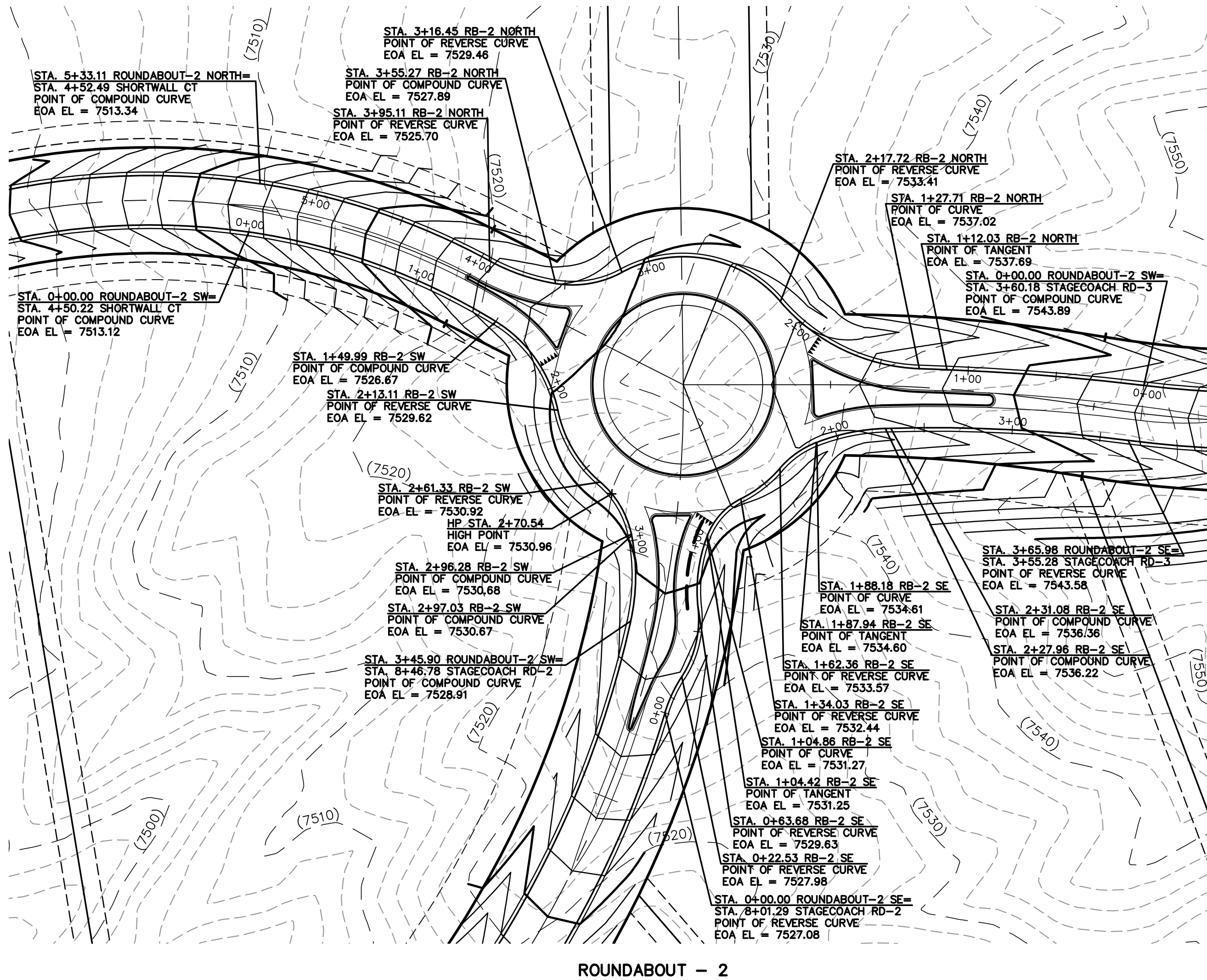
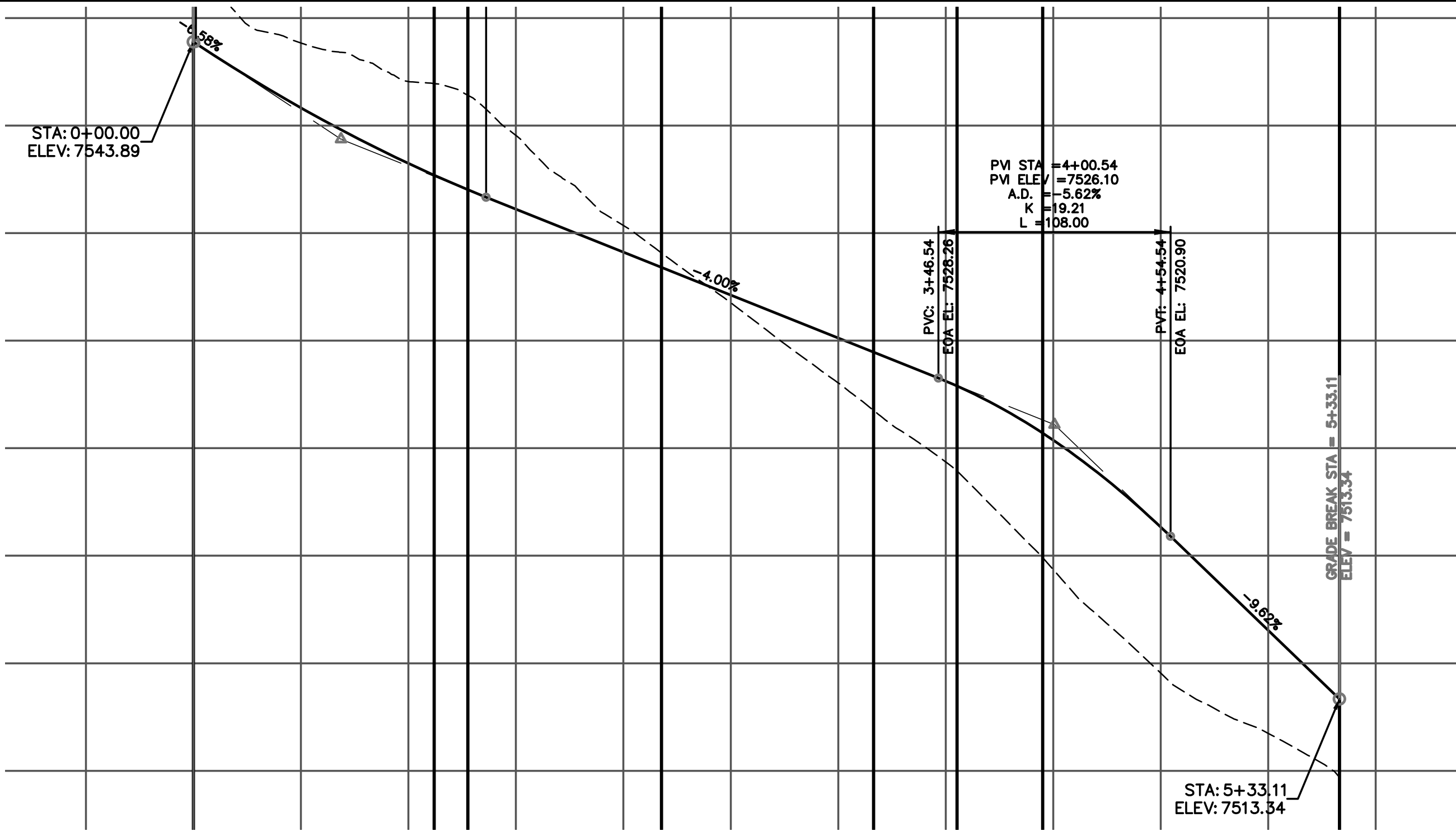
DESIGNED BY		PRA		SCALE		DATE	
DRAWN BY		PRA		(H) 1"= 20'		SHEET 28 OF 58	
CHECKED BY				(V) 1"= N/A		JOB NO. 1096.11	

FLYING HORSE NORTH FILING NO. 1 STREET IMPROVEMENT PLAN ROUNDBOUT 1 FASTEST PATHS	
619 N. Cascade Avenue, Suite 200 Colorado Springs, Colorado 80903	
(719) 785-0790 (719) 785-0799 (Fax)	

**CLASSIC**  
CONSULTING  
ENGINEERS & SURVEYORS



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

FLYING HORSE NORTH FILING NO. 1

STREET IMPROVEMENT PLAN

ROUNDABOUT-2

PLAN AND PROFILE PLAN

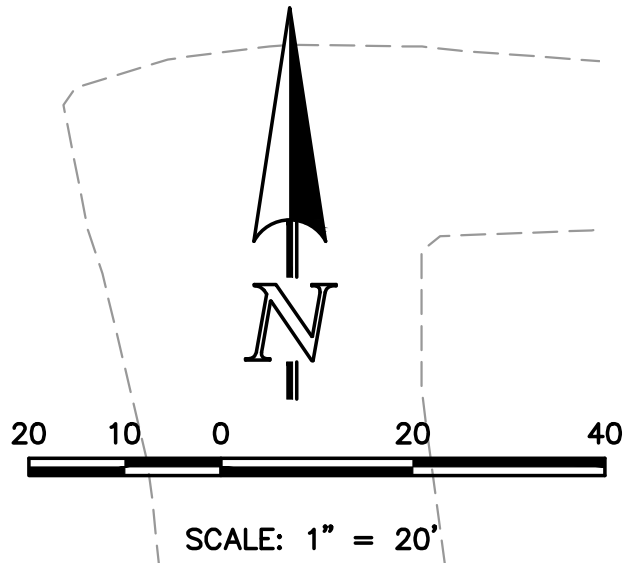
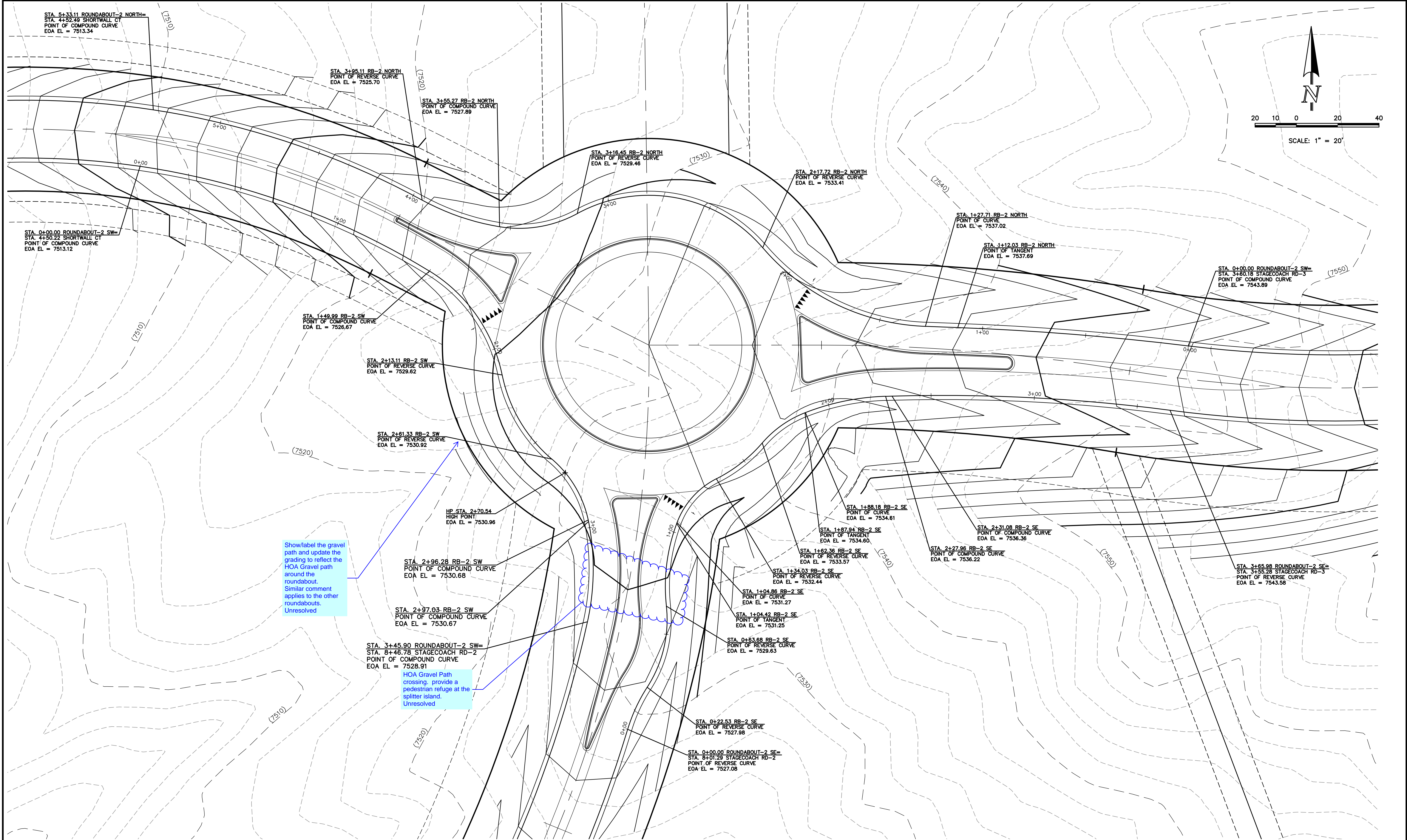
DESIGNED BY PRA SCALE DATE 08-11-17

DRAWN BY PRA (H) 1"= 50' SHEET 29 OF 58

CHECKED BY (V) 1"= 5' JOB NO. 1096.11

CLASSIC  
ENGINEERS & SURVEYORS





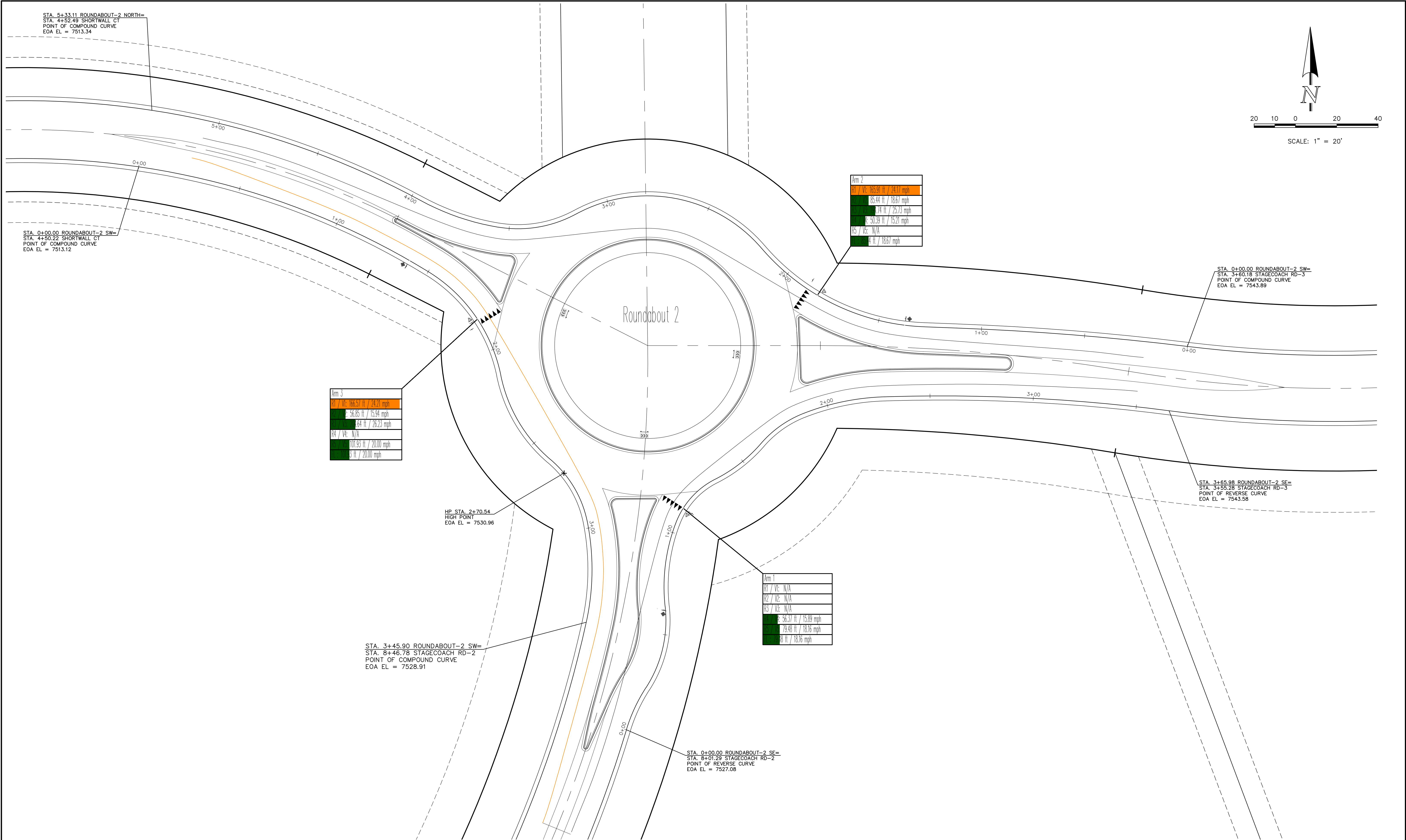
ROUNDABOUT - 2

<b>48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS 811</b> 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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<b>CLASSIC</b> CONSULTING ENGINEERS & SURVEYORS 619 N. Cascade Avenue, Suite 200 Colorado Springs, Colorado 80903 (719)785-0790 (719)785-0799(Fax)	FLYING HORSE NORTH FILING NO. 1 STREET IMPROVEMENT PLAN ROUNDABOUT-2 DETAILED GRADING PLAN			
	DESIGNED BY	PRA	SCALE	DATE
	DRAWN BY	PRA	(H) 1"= 20'	SHEET 30 OF 58
	CHECKED BY	(V) 1"= N/A	JOB NO.	1096.11



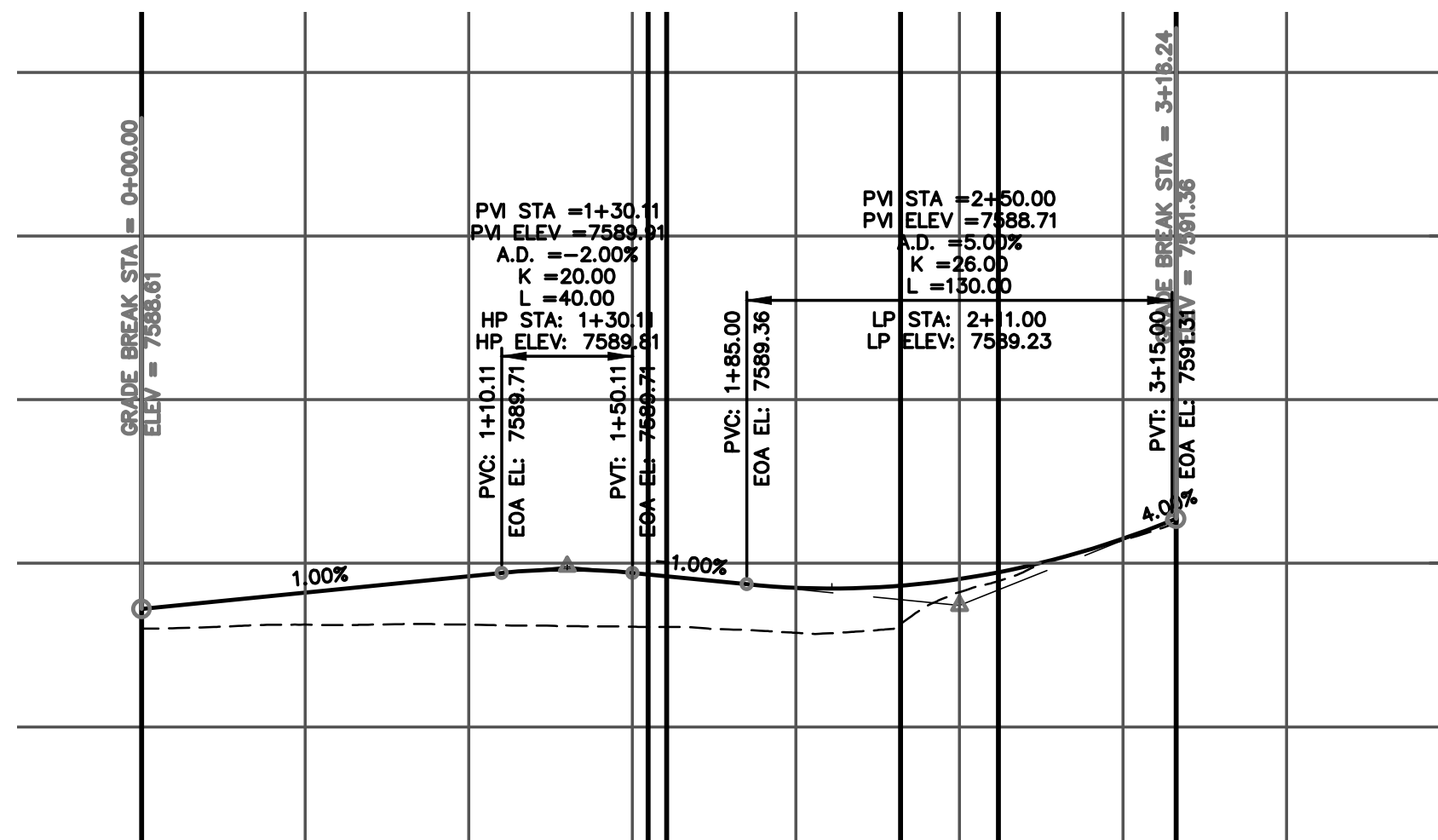
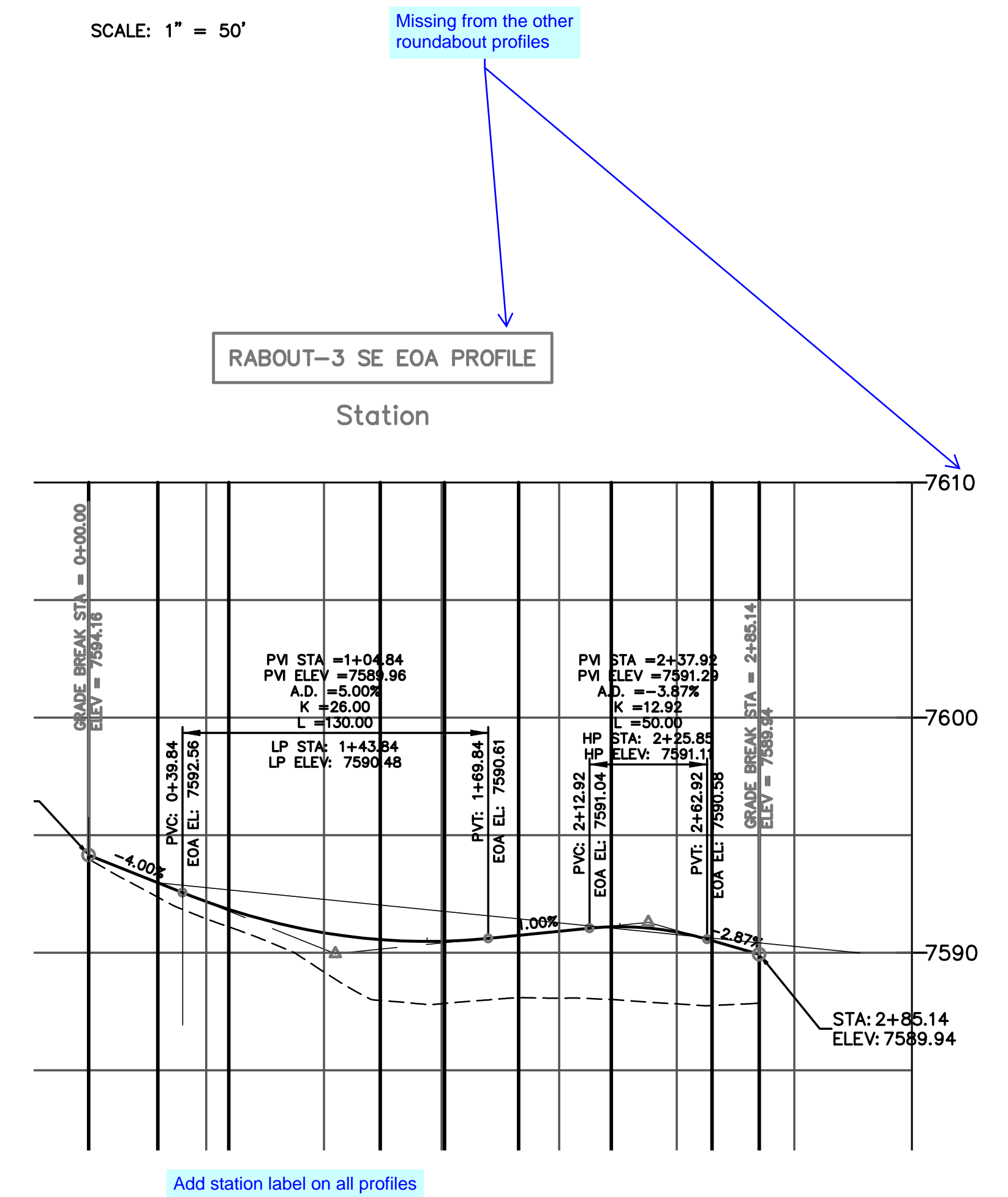
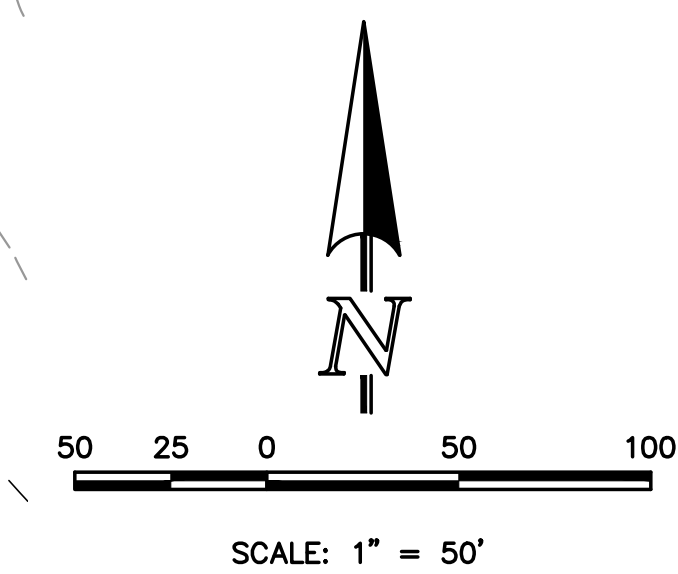
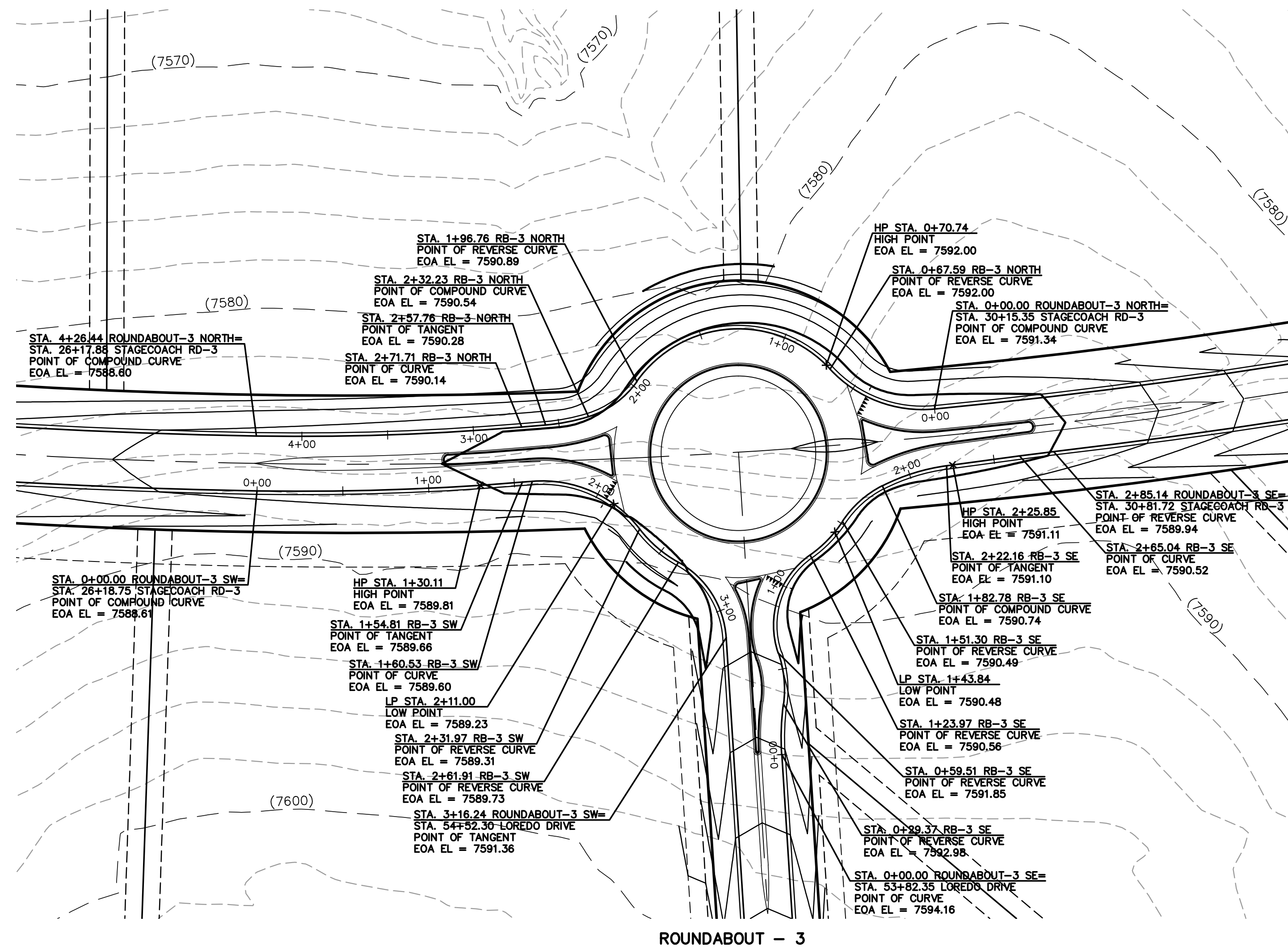
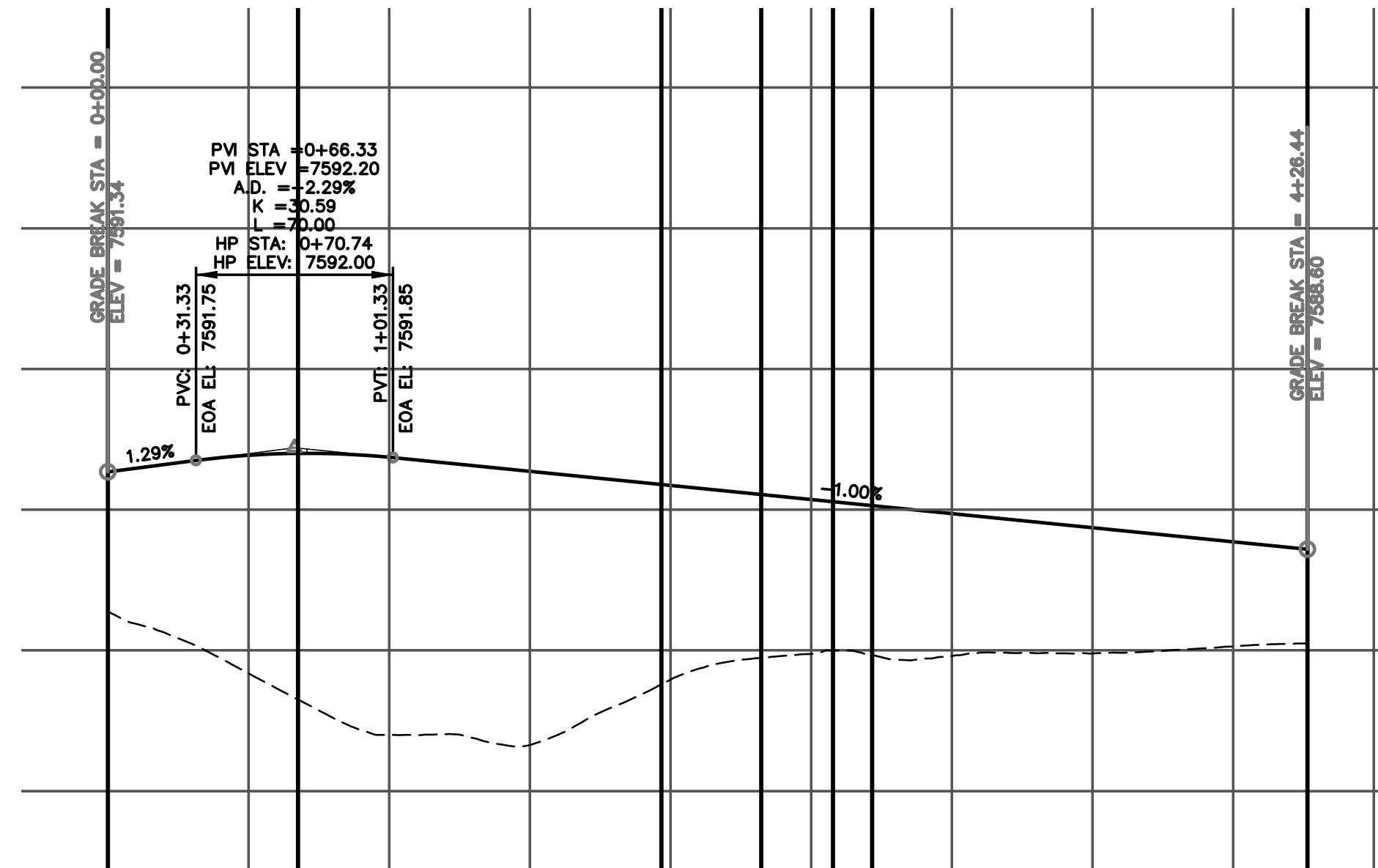


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<p>48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS</p> <p><b>811</b></p> <p>UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW</p> <p>THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE 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>	<table><tr><th>NO.</th><th>REVISION</th><th>DATE</th></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></table>	NO.	REVISION	DATE																			<p>REVIEW:</p> <p>PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC</p> <p>MARC A. WHORTON, COLORADO P.E. #37155      DATE</p>	<div></div> <p>619 N. Cascade Avenue, Suite 200 Colorado Springs, Colorado 80903</p> <p>(719) 785-0790 (719) 785-0799 (Fax)</p>	<p>FLYING HORSE NORTH FILING NO. 1 STREET IMPROVEMENT PLAN</p> <p>ROUNDABOUT-2 FASTEST PATHS</p> <table><tr><td>DESIGNED BY</td><td>PRA</td><td>SCALE</td><td>DATE</td><td>08-11-17</td></tr><tr><td>DRAWN BY</td><td>PRA</td><td>(H) 1"= 20'</td><td>SHEET</td><td>31 OF 58</td></tr><tr><td>CHECKED BY</td><td> </td><td>(V) 1"= N/A</td><td>JOB NO.</td><td>1096.11</td></tr></table>	DESIGNED BY	PRA	SCALE	DATE	08-11-17	DRAWN BY	PRA	(H) 1"= 20'	SHEET	31 OF 58	CHECKED BY		(V) 1"= N/A	JOB NO.	1096.11
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DRAWN BY	PRA	(H) 1"= 20'	SHEET	31 OF 58																																				
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NO. REVISION

DATE \_\_\_\_\_

REVIEW:

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

MARC A WHORTON COLORADO RE #37155

DATE \_\_\_\_\_



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

FLYING HORSE NORTH FILING NO. 1  
STREET IMPROVEMENT PLAN  
ROUNDABOUT-3  
PLAN AND PROFILE PLAN

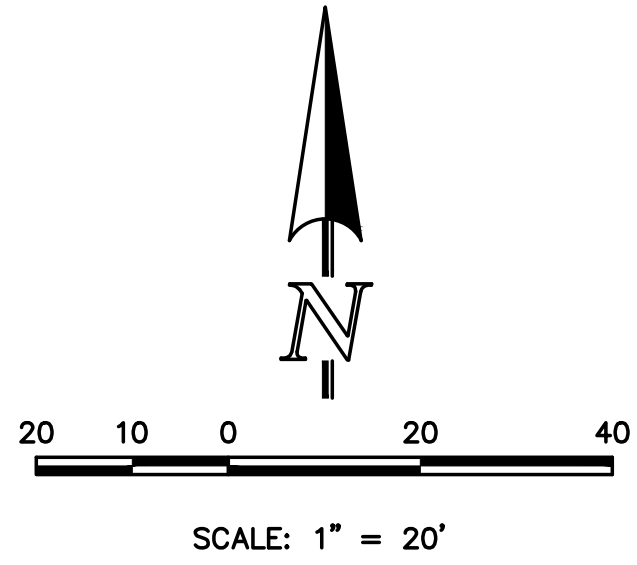
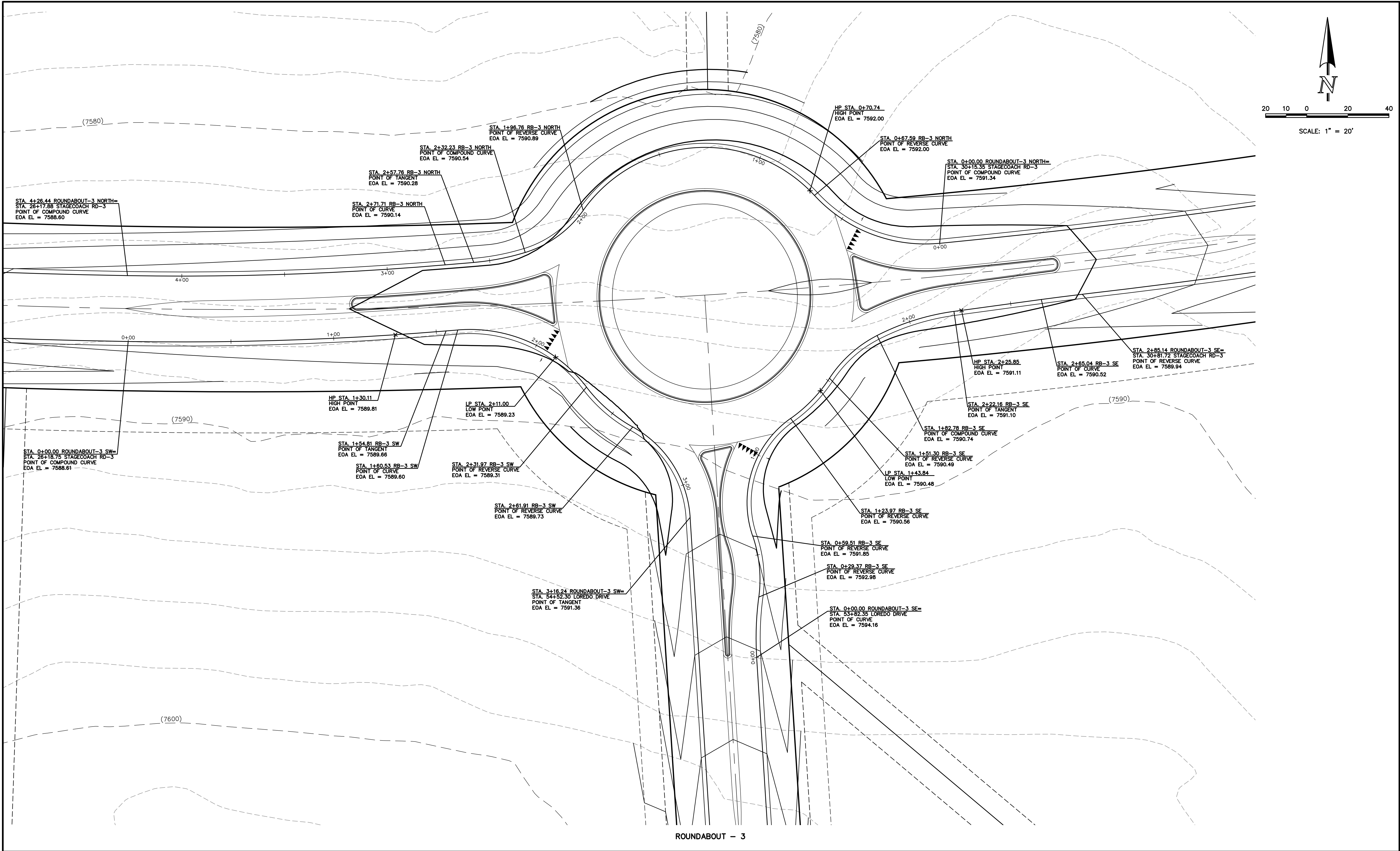
DESIGNED BY	PRA	SCALE	DATE	08-11-17
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DRAWN BY	PRA	(H) 1" = 50'	SHEET 32 OF 58
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CHECKED BY	(10) 1" = 5'	JOB NO	1026 11
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**CLASSIC**  
CONSULTING  
ENGINEERS & SURVEYORS





ROUNDABOUT - 3

48 HOURS BEFORE YOU DIG,  
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MARC A. WHORTON, COLORADO P.E. #37155

DATE



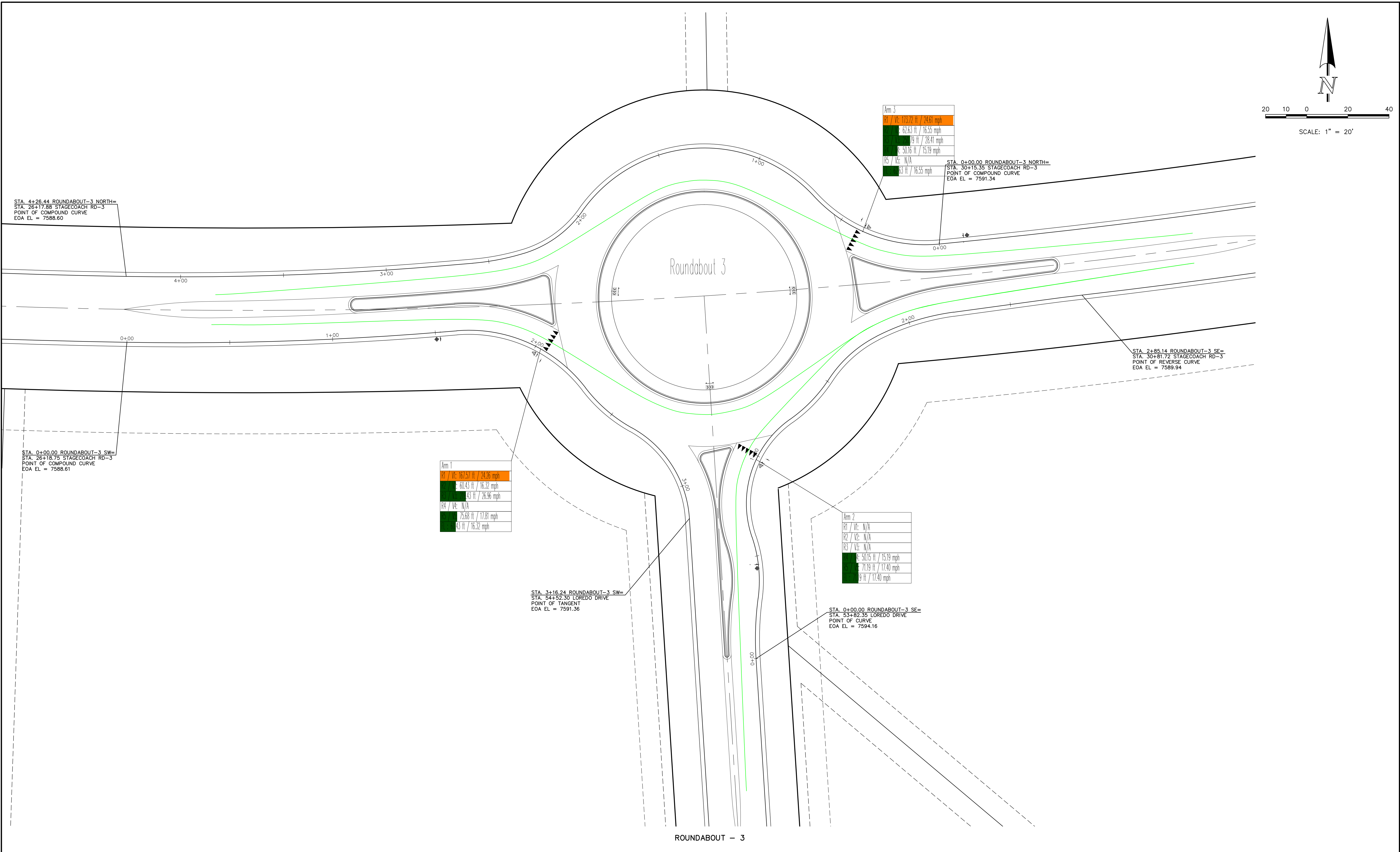
619 N. Cascade Avenue, Suite 200  
Colorado Springs, Colorado 80903  
(719)785-0790  
(719)785-0799(fax)

FLYING HORSE NORTH FILING NO. 1  
STREET IMPROVEMENT PLAN  
ROUNDABOUT-3  
DETAILED GRADING PLAN

DESIGNED BY	PRA	SCALE	DATE	08-11-17
DRAWN BY	PRA	(H) 1"= 20'	SHEET 33	OF 58
CHECKED BY		(V) 1"= N/A	JOB NO.	1096.11



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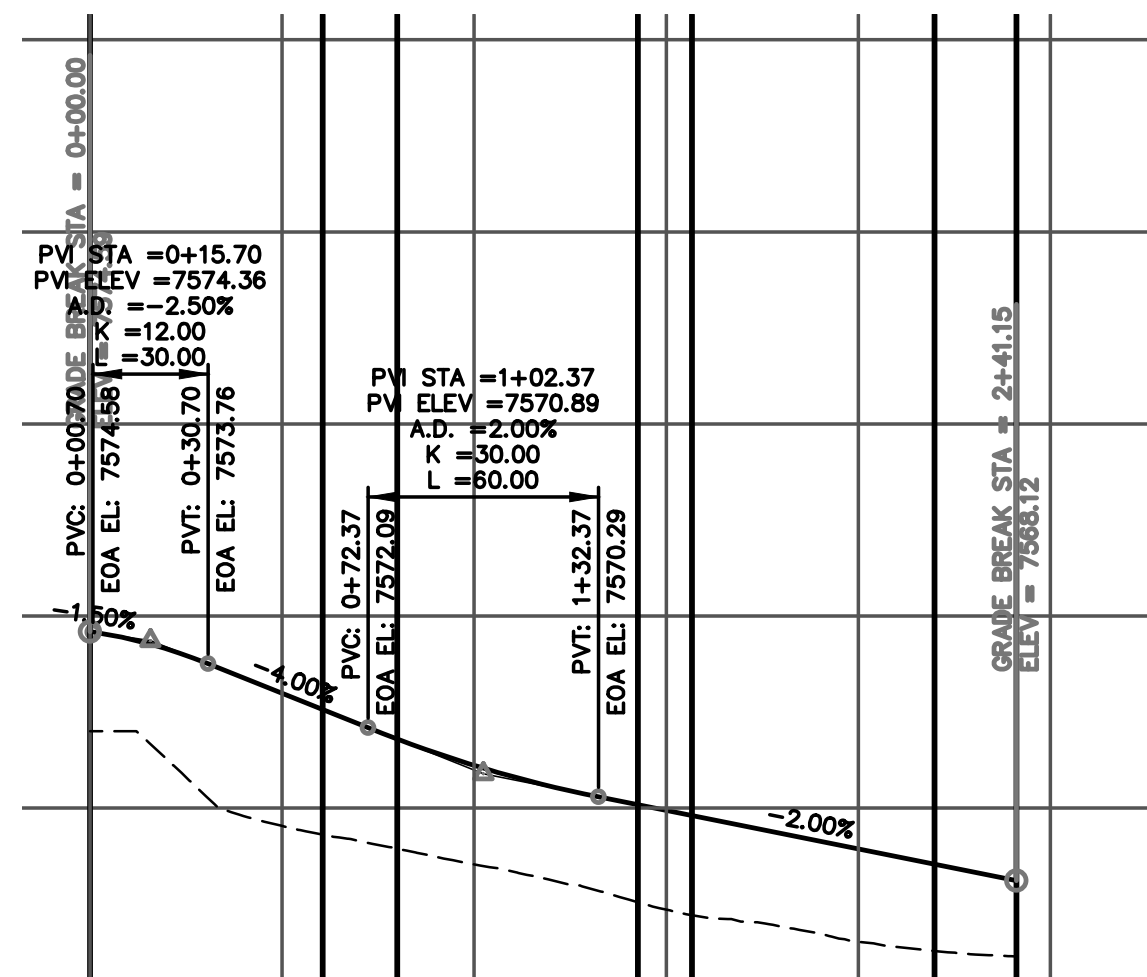
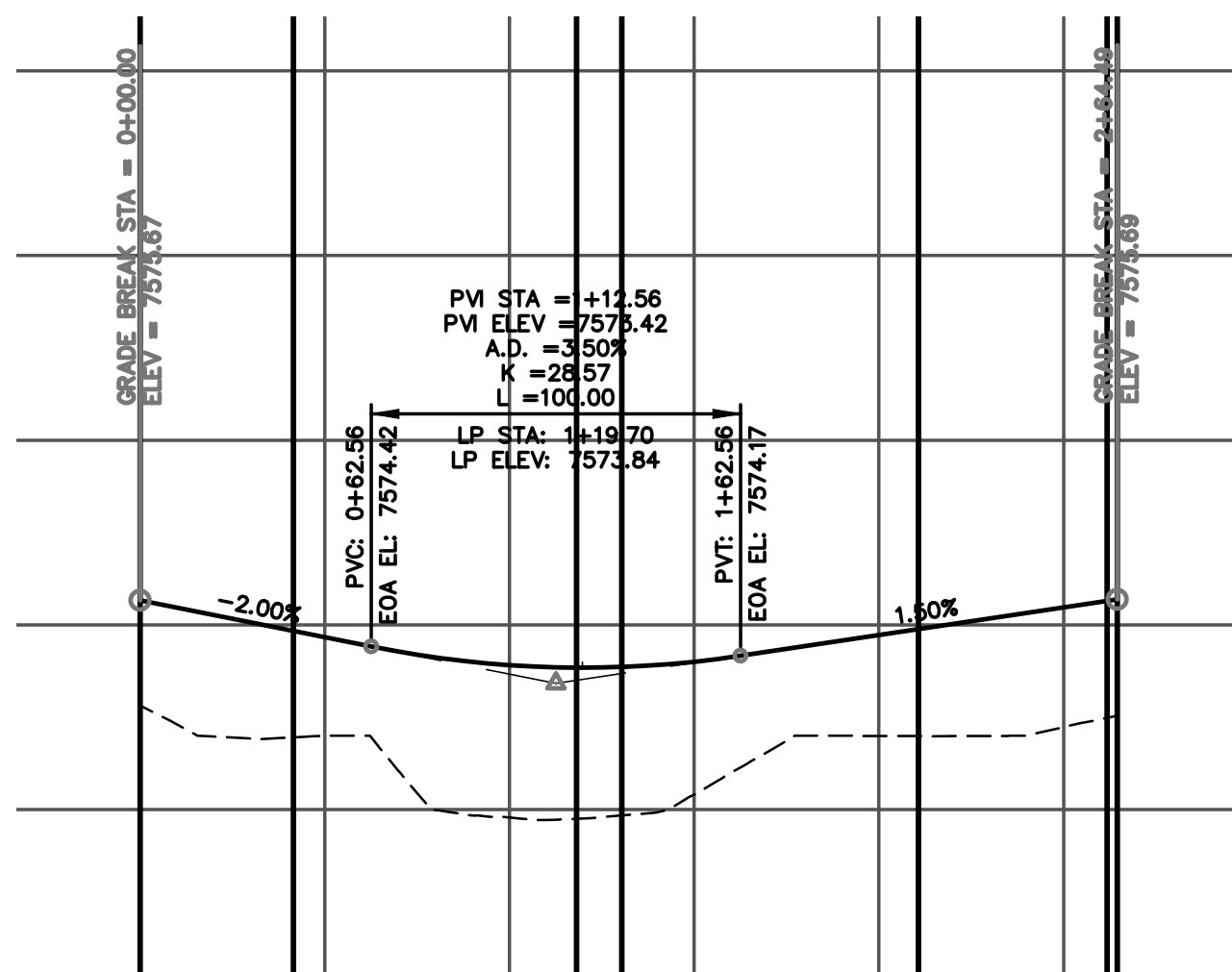
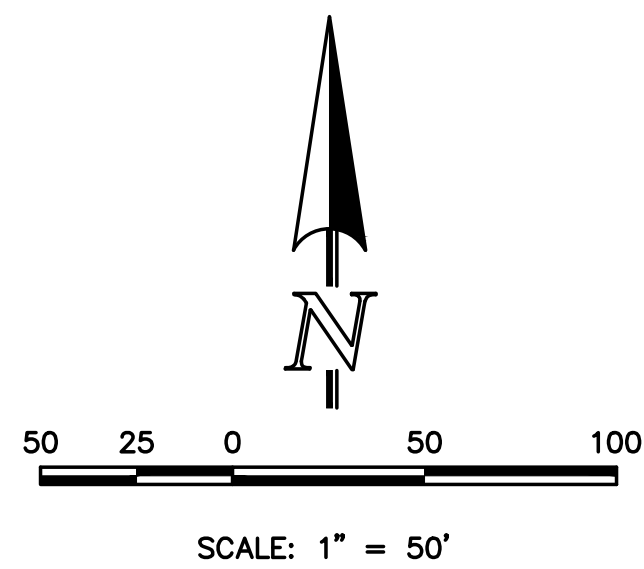
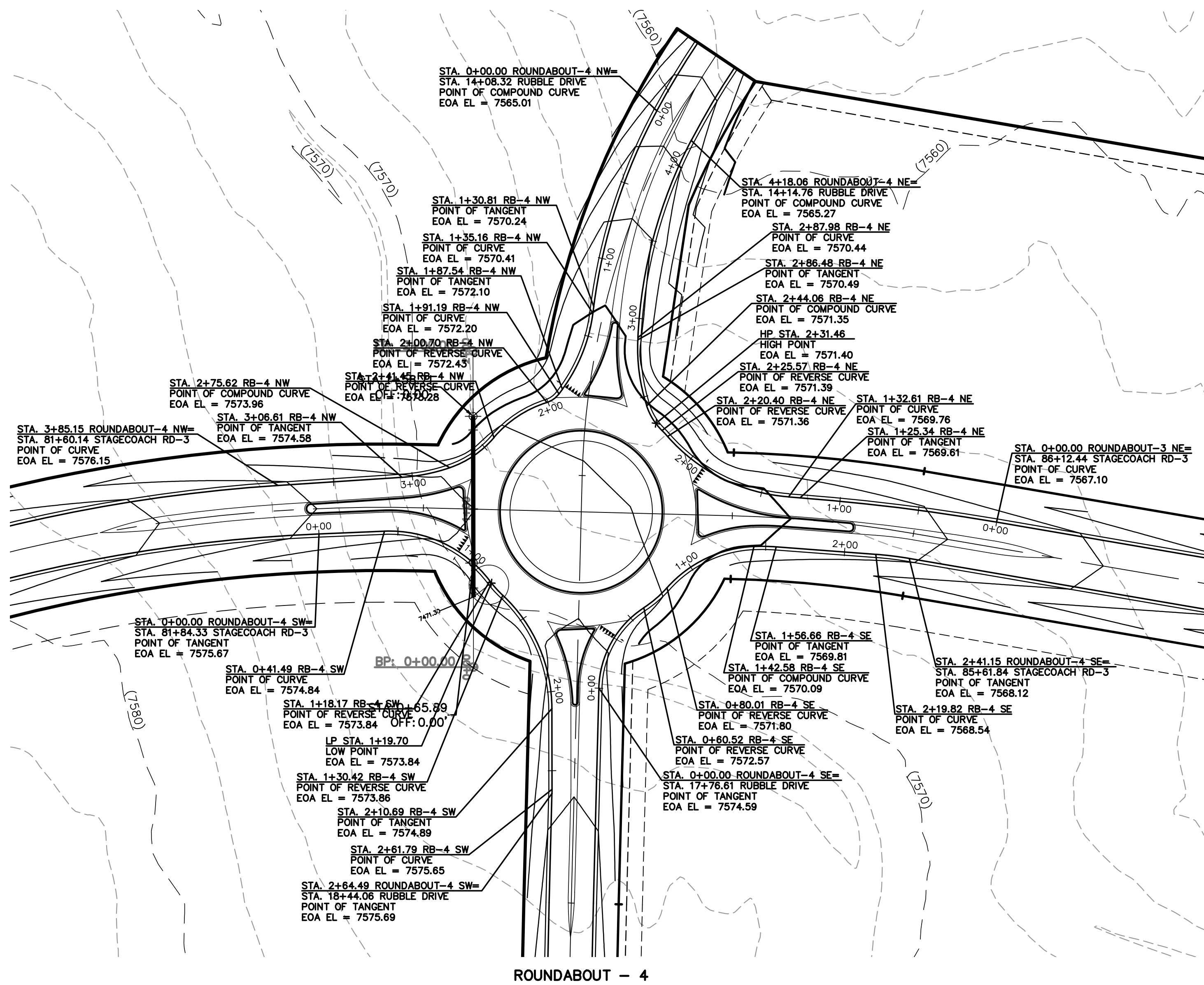
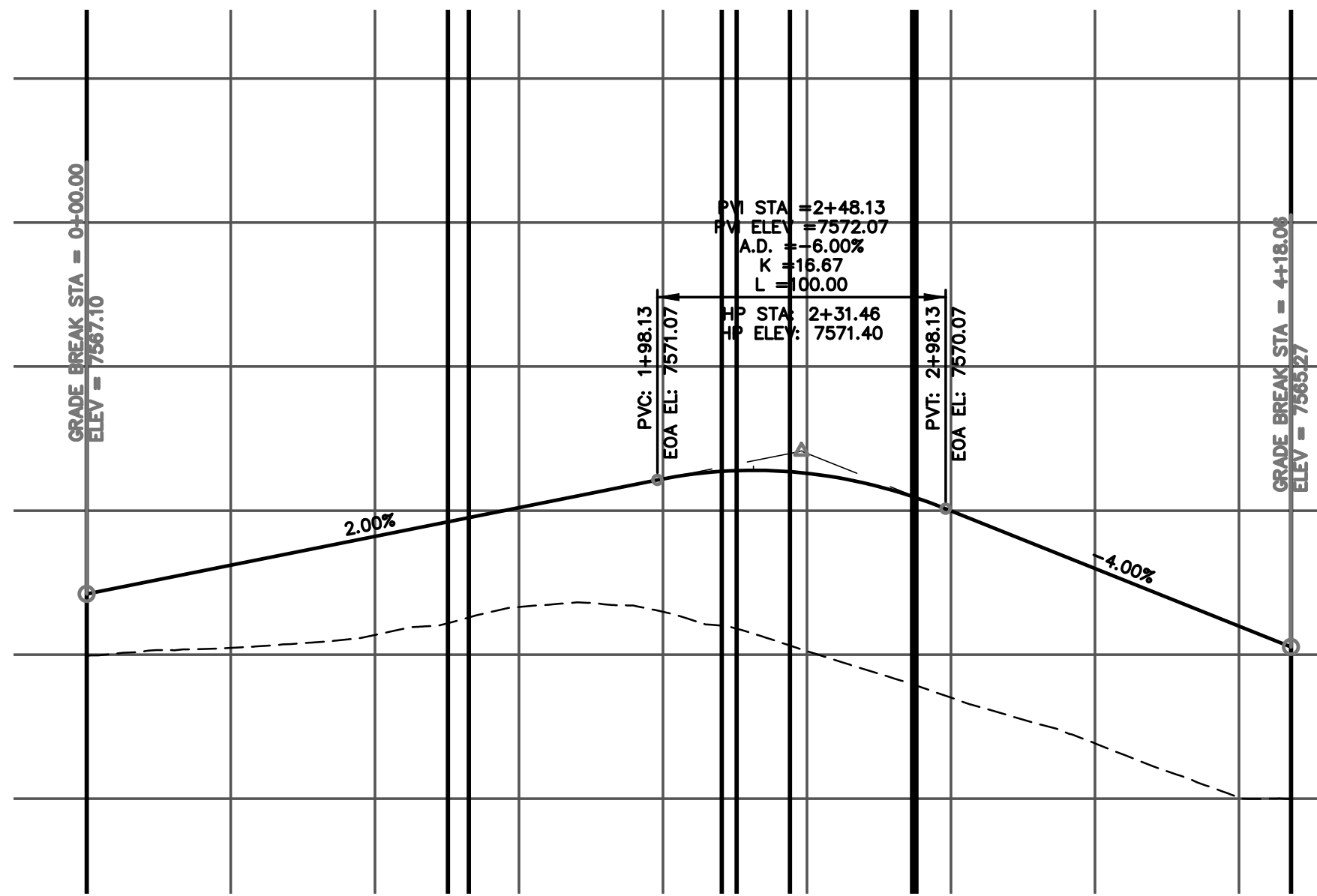
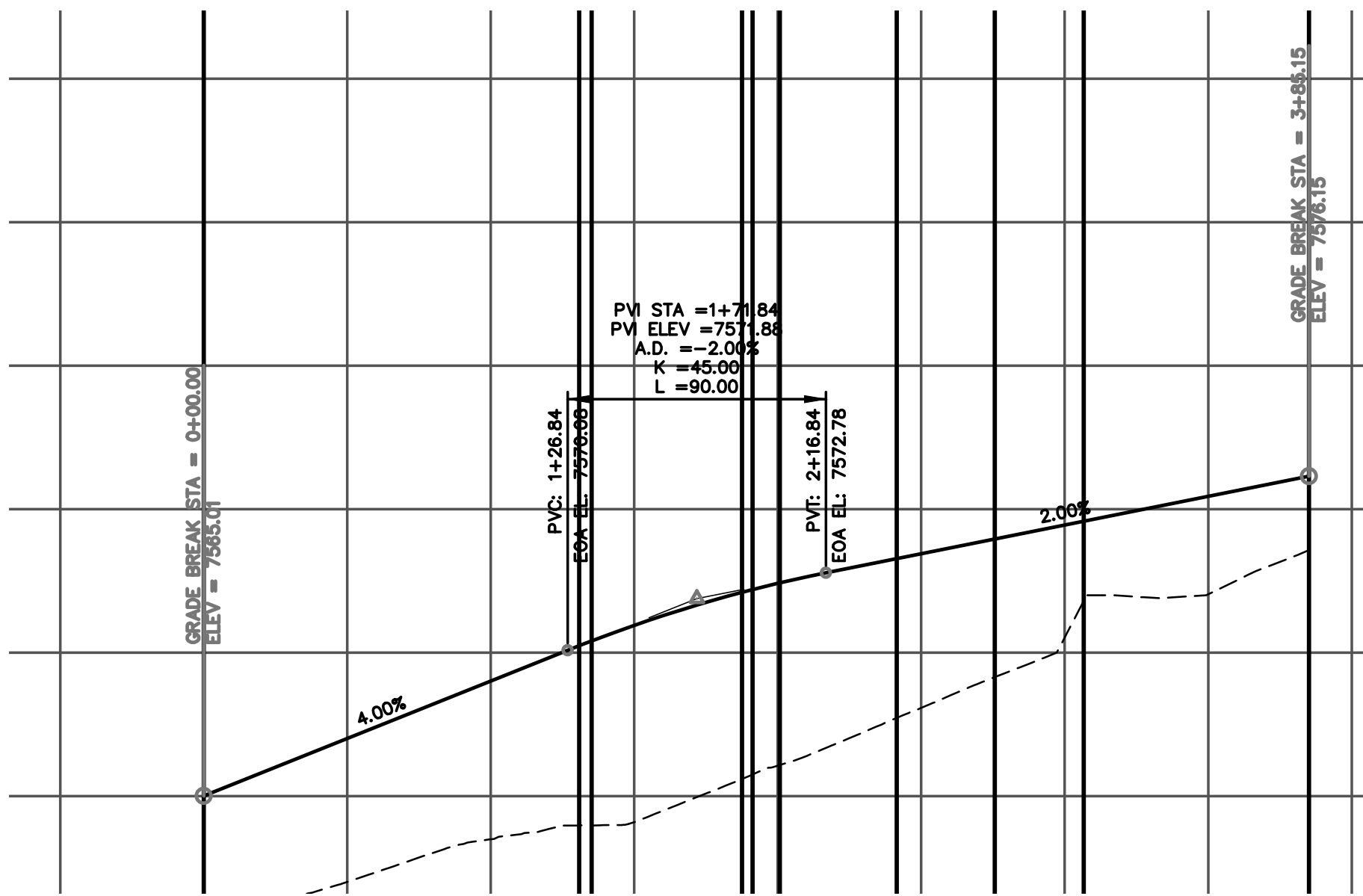


ROUNDABOUT - 3

<p>48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS <b>811</b> 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:
			PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC
			MARC A. WHORTON, COLORADO P.E. #37155
			DATE
<div><div><p>619 N. Cascade Avenue, Suite 200 Colorado Springs, Colorado 80903</p></div><div><p>(719) 785-0790 (719) 785-0799 (Fax)</p></div></div>			

FLYING HORSE NORTH FILING NO. 1 STREET IMPROVEMENT PLAN ROUNDABOUT-3 FASTEST PATHS			
DESIGNED BY	PRA	SCALE	DATE 08-11-17
DRAWN BY	PRA	(H) 1"= 20'	SHEET 34 OF X
CHECKED BY		(V) 1"= N/A	JOB NO. 1096.11





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NO. REVISION

DATE

REVIEW:

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DATE



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

(719)785-0790  
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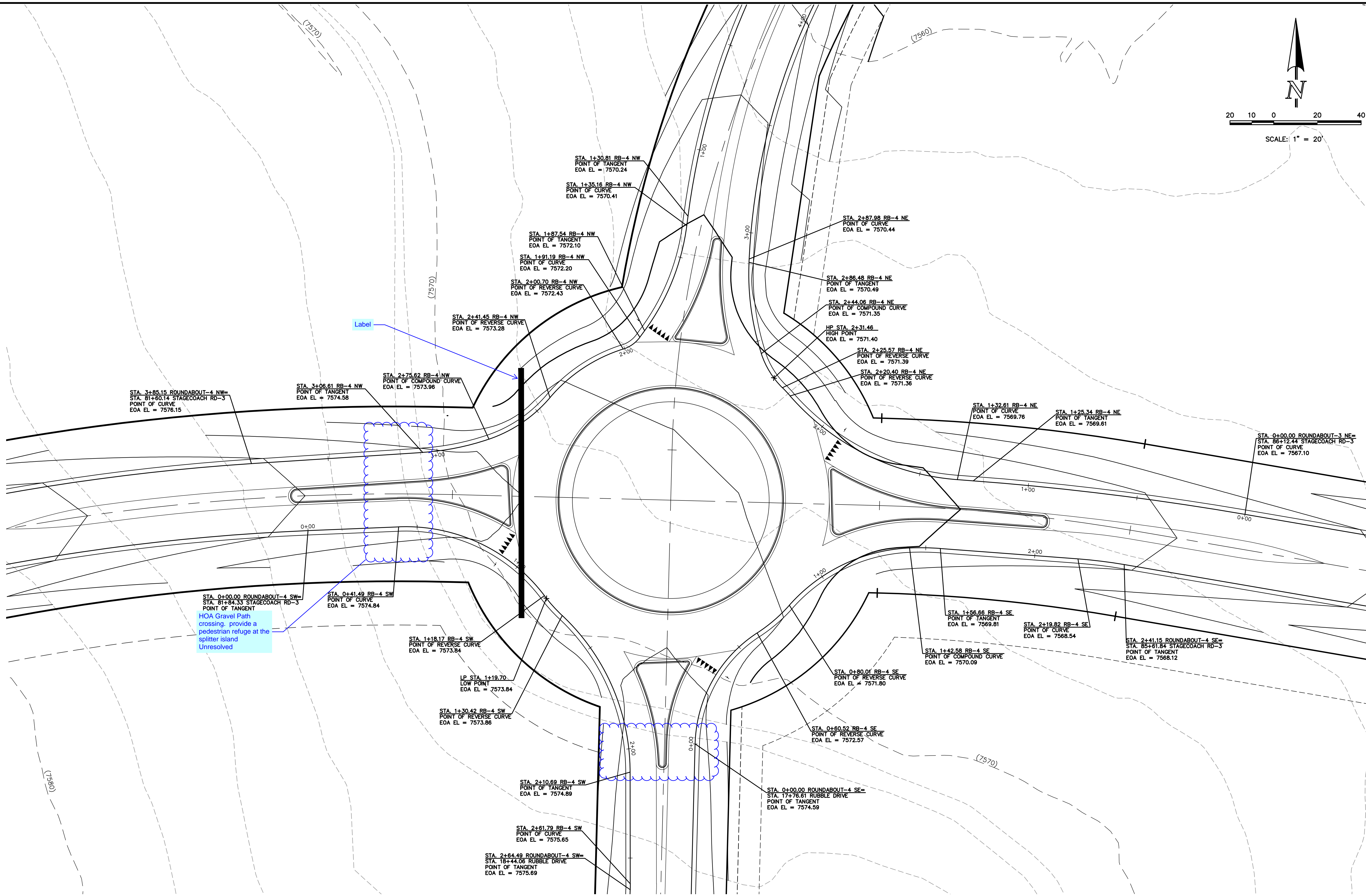
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STREET IMPROVEMENT PLAN  
ROUNDABOUT-4  
PLAN AND PROFILE PLAN

DESIGNED BY	PRA	SCALE	DATE	08-11-17
DRAWN BY	PRA	(H) 1"= 50'	SHEET	35 OF 58
CHECKED BY		(V) 1"= 5'	JOB NO.	1096.11





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ROUNDABOUT - 4

48 HOURS BEFORE YOU DIG,  
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619 N. Cascade Avenue, Suite 200  
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(719)785-0790  
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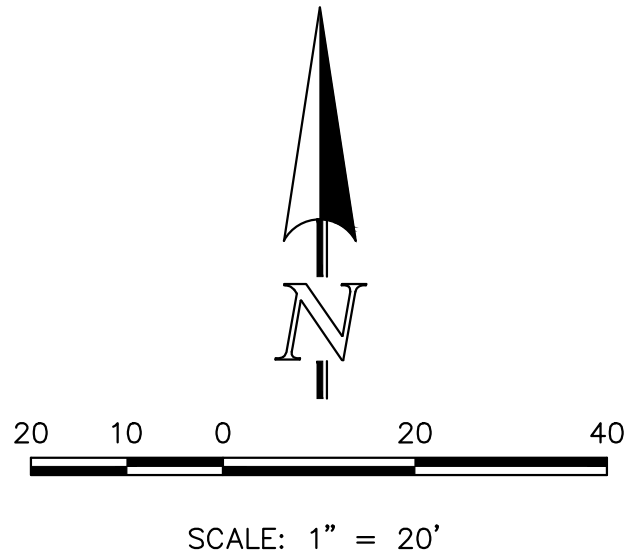
FLYING HORSE NORTH FILING NO. 1  
STREET IMPROVEMENT PLAN  
ROUNDABOUT-4  
DETAILED GRADING PLAN

DESIGNED BY	PRA	SCALE	DATE	08-11-17
DRAWN BY	PRA	(H) 1"= 20'	SHEET 36	OF 58
CHECKED BY		(V) 1"= N/A	JOB NO.	1096.11

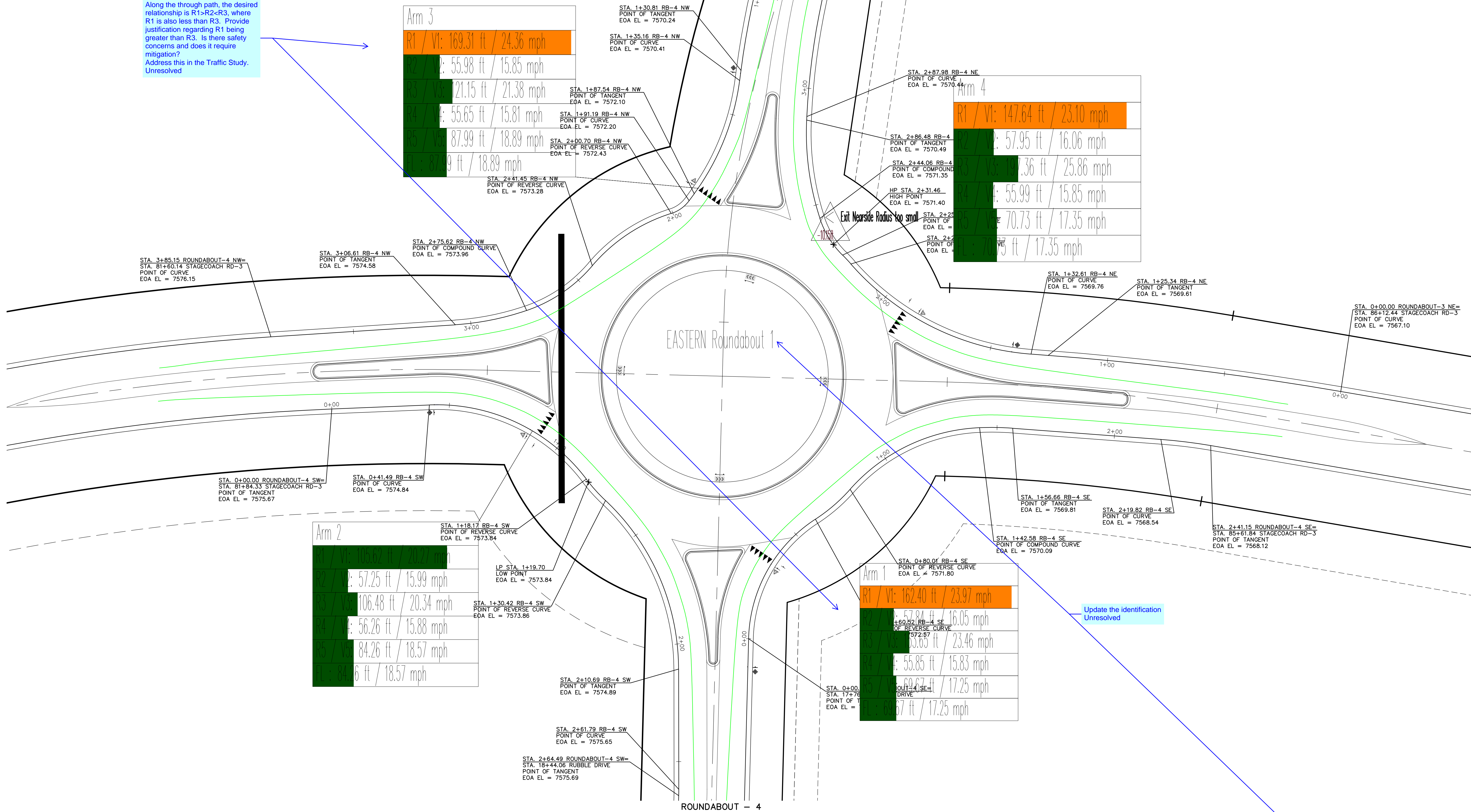




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Along the through path, the desired relationship is  $R1 > R2 < R3$ , where  $R1$  is also less than  $R3$ . Provide justification regarding  $R1$  being greater than  $R3$ . Is there safety concerns and does it require mitigation? Address this in the Traffic Study. Unresolved



Update the identification  
Unresolved

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

FLYING HORSE NORTH FILING NO. 1

STREET IMPROVEMENT PLAN

ROUNDABOUT-4

FASTEST PATHS

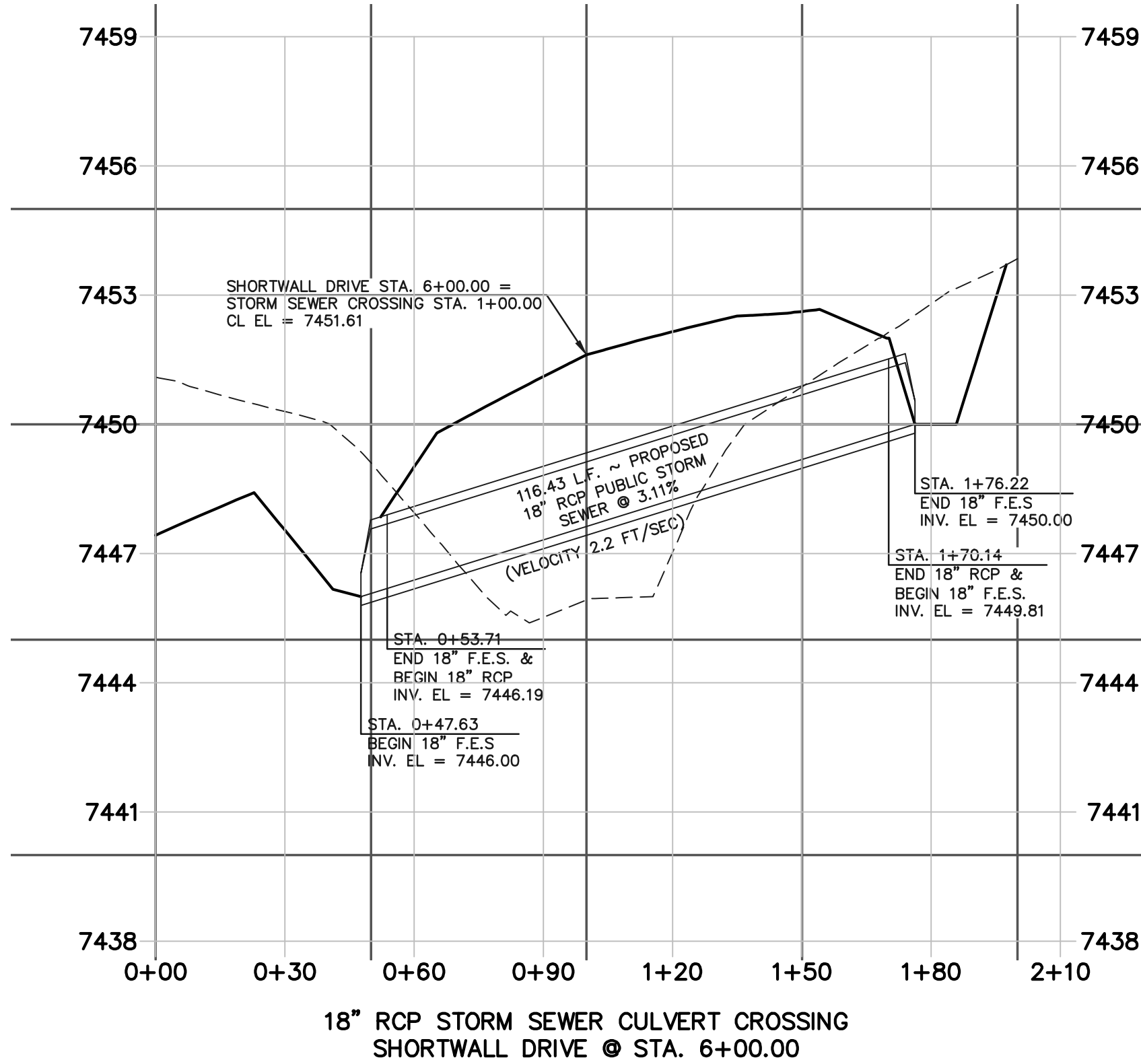
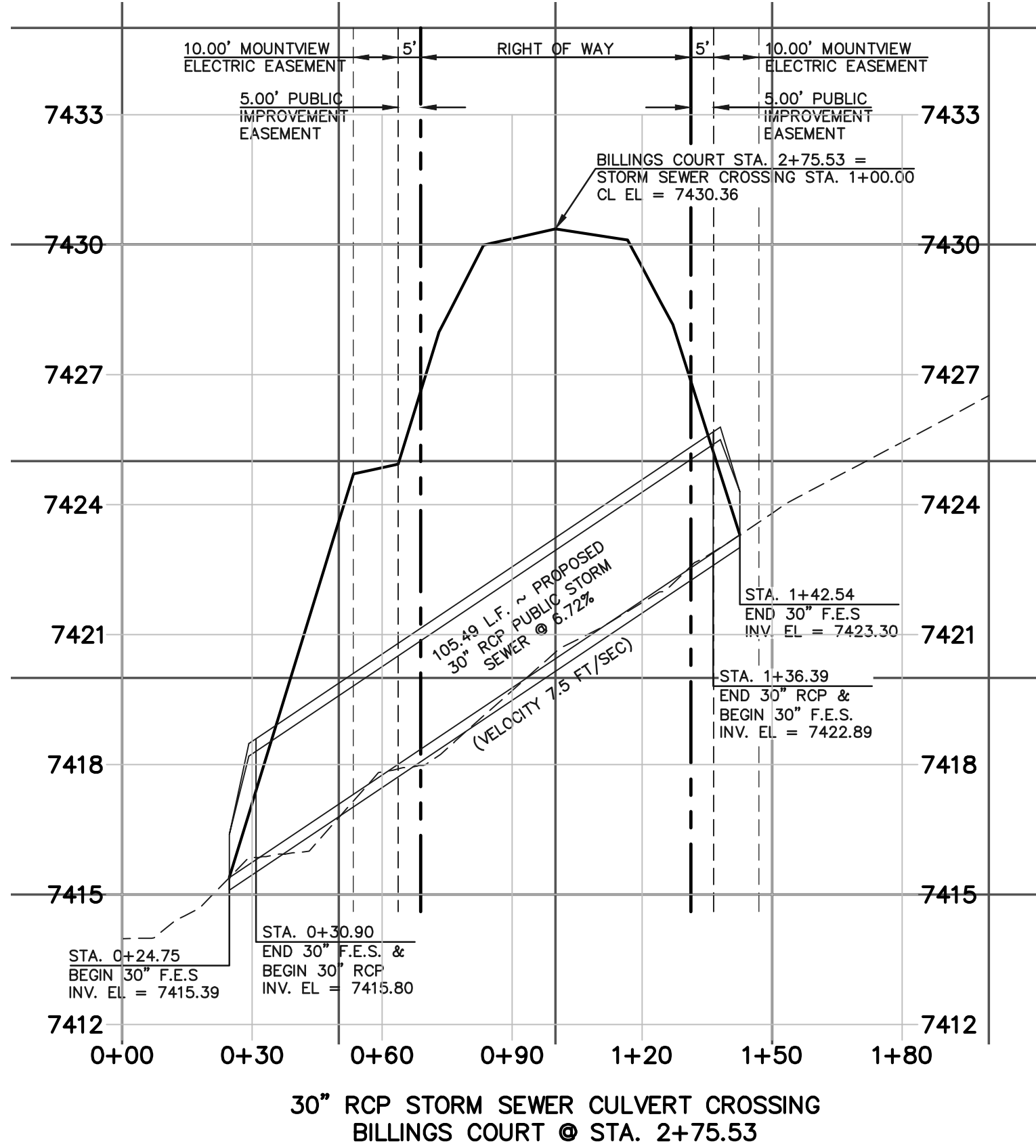
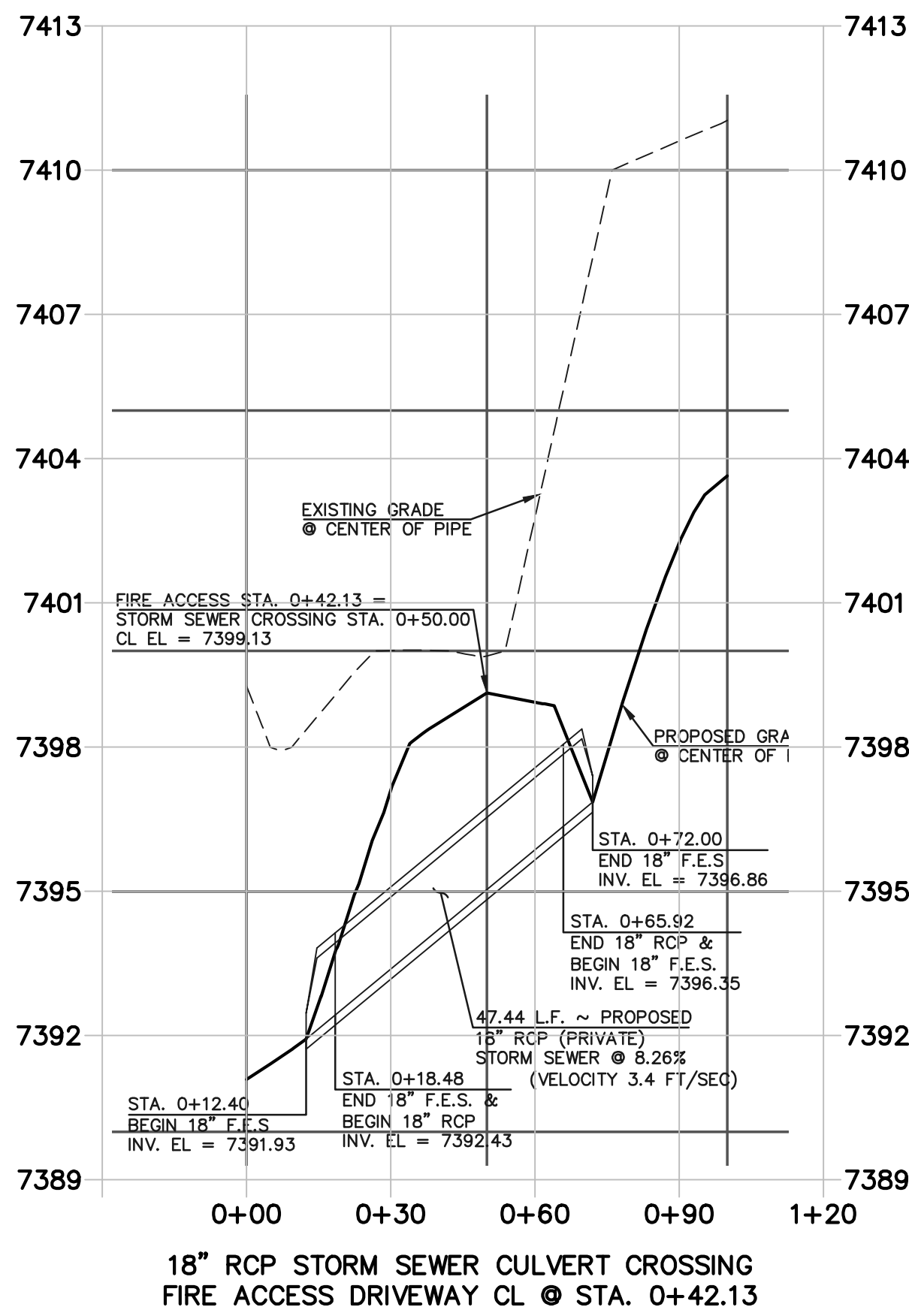
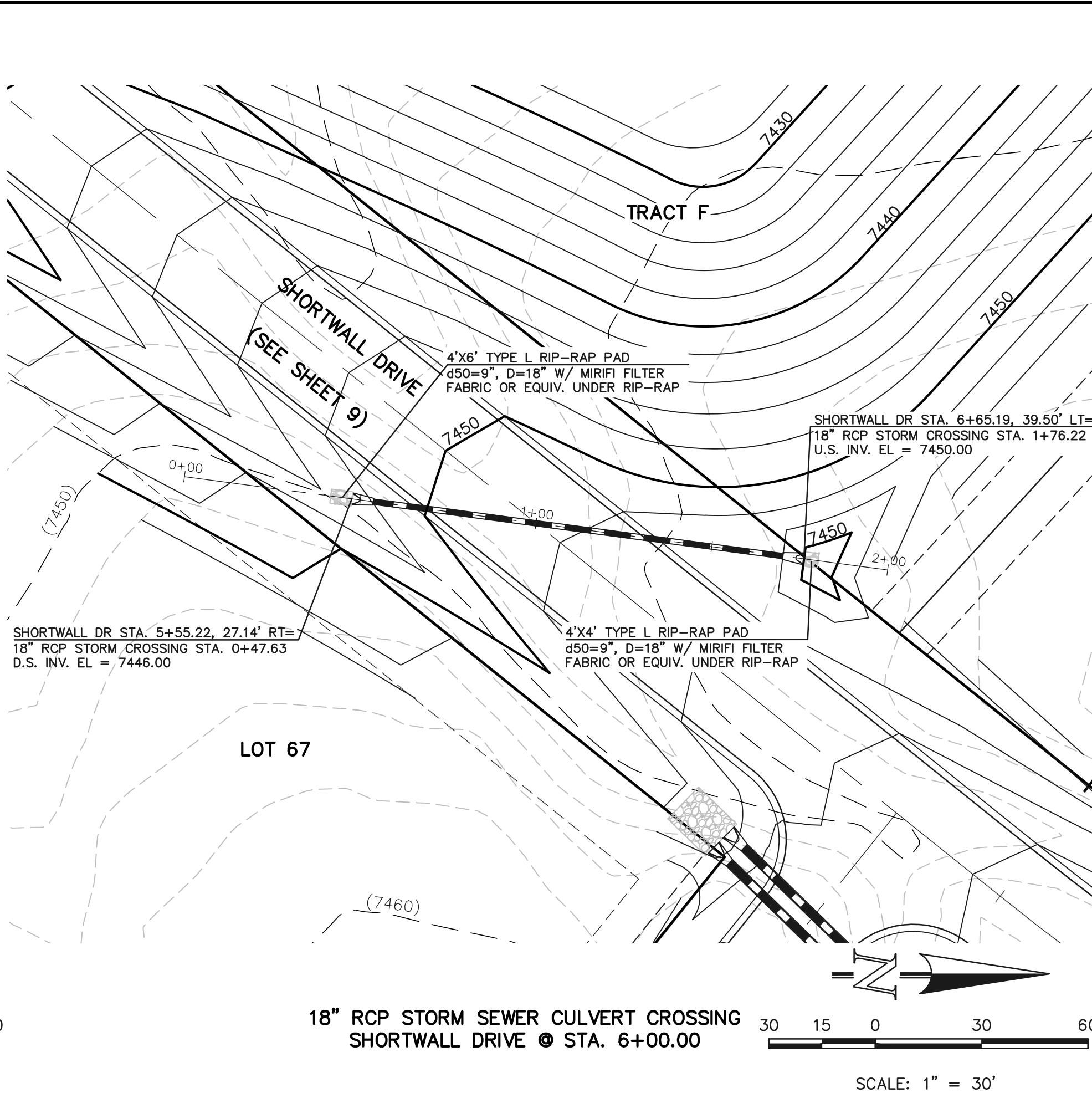
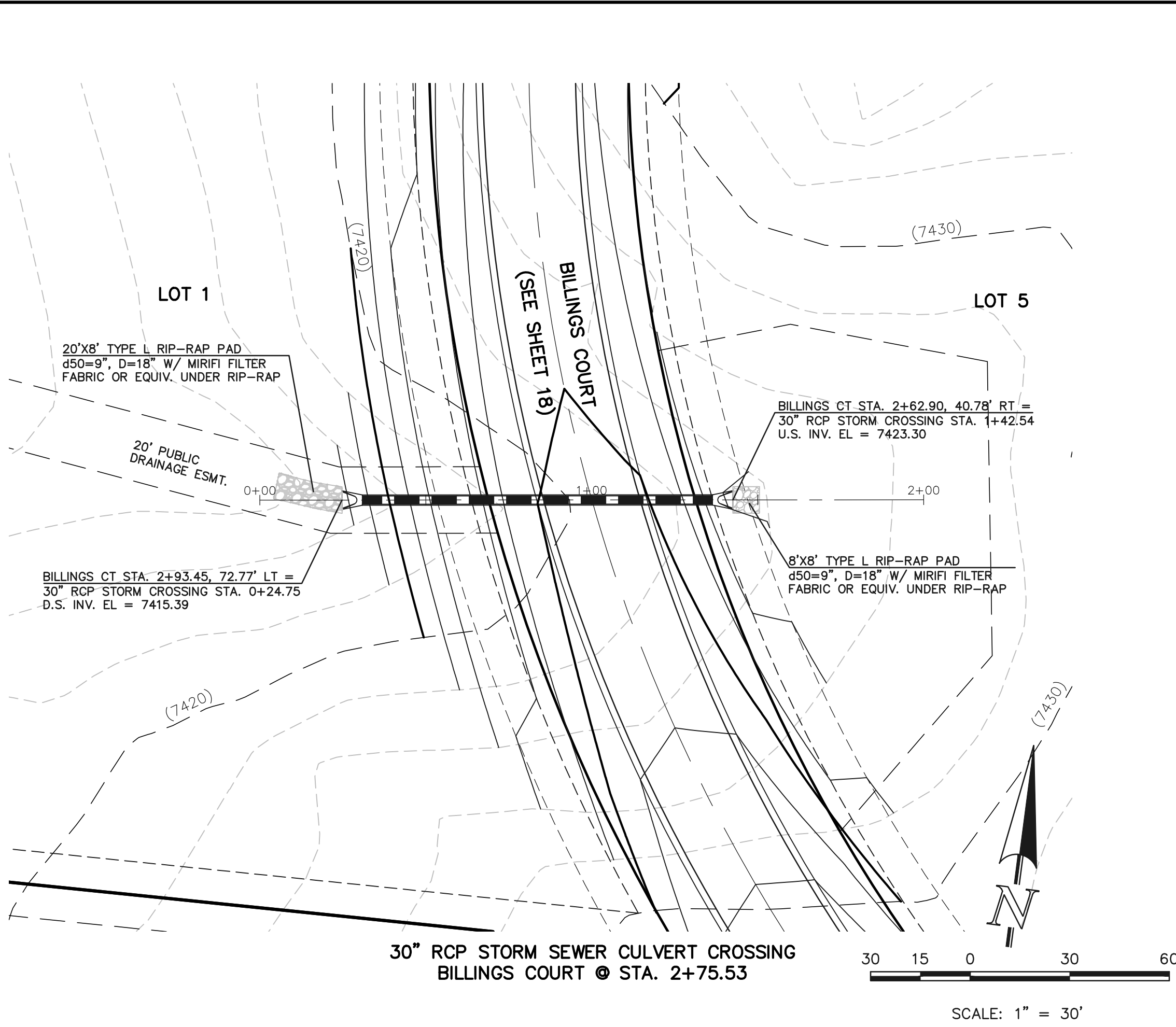
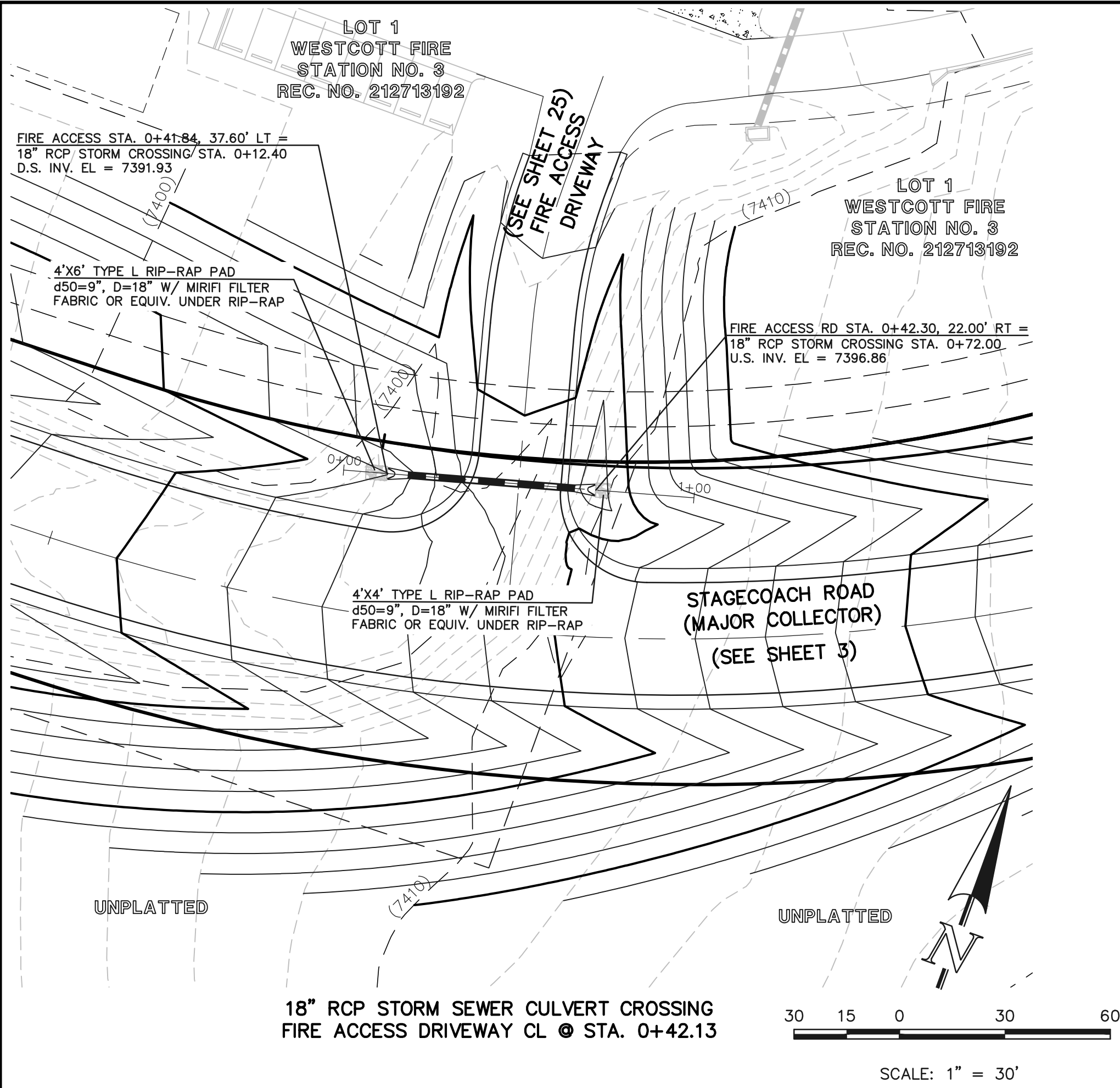
DESIGNED BY PRA SCALE DATE 08-11-17

DRAWN BY PRA (H) 1"= 20' SHEET 37 OF 58

CHECKED BY (V) 1"= N/A JOB NO. 1096.11







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NO. REVISION

1 REVISED PER COUNTY COMMENTS

DATE

4-4-18

REVIEW:

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

MARC A. WHORTON, COLORADO P.E. #37155

DATE



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Colorado Springs, Colorado 80903

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

FLYING HORSE NORTH FILING NO. 1

STORM SEWER CONSTRUCTION PLANS

STORM SEWER RCP CULVERT CROSSINGS

PLAN & PROFILE

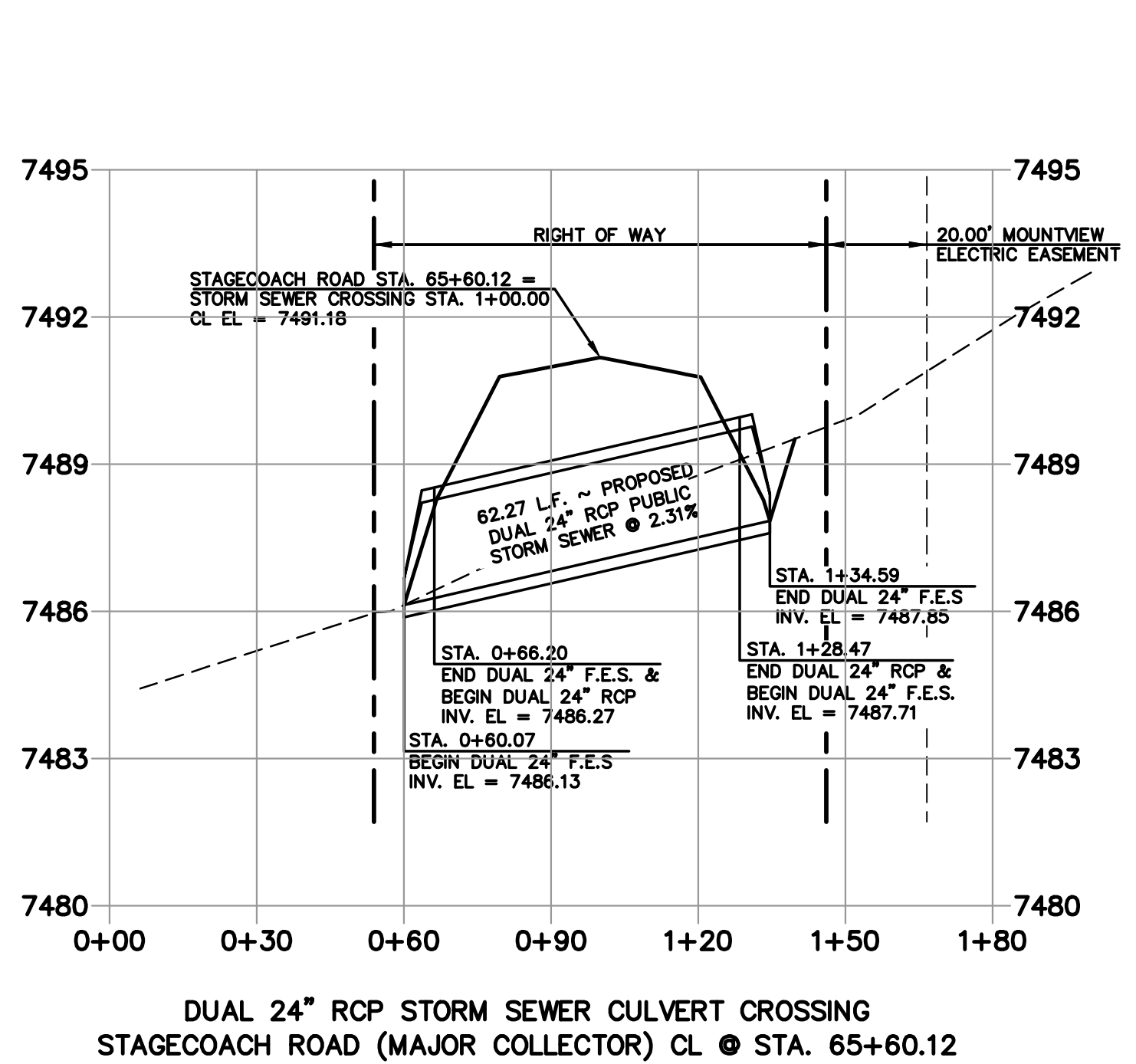
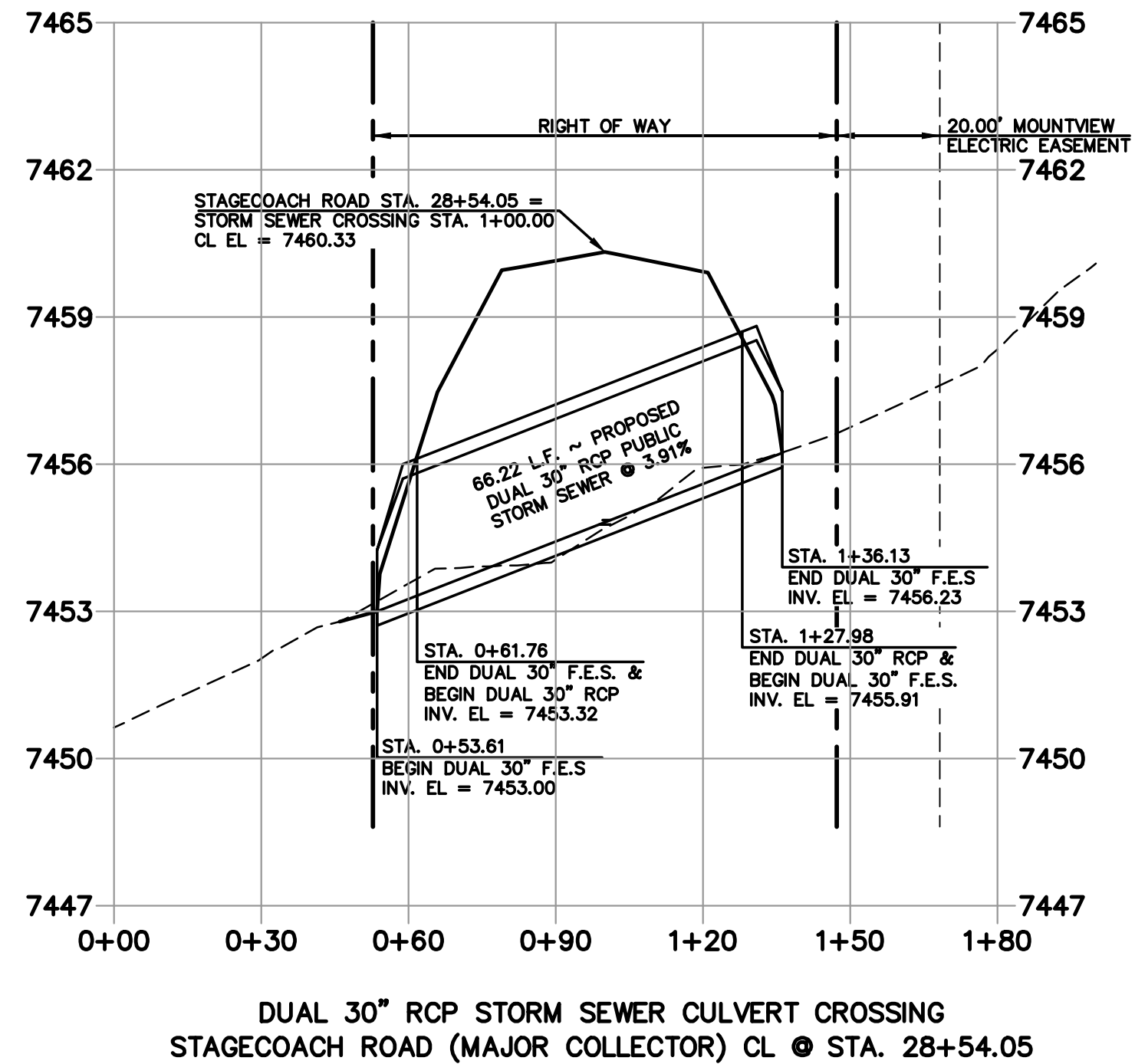
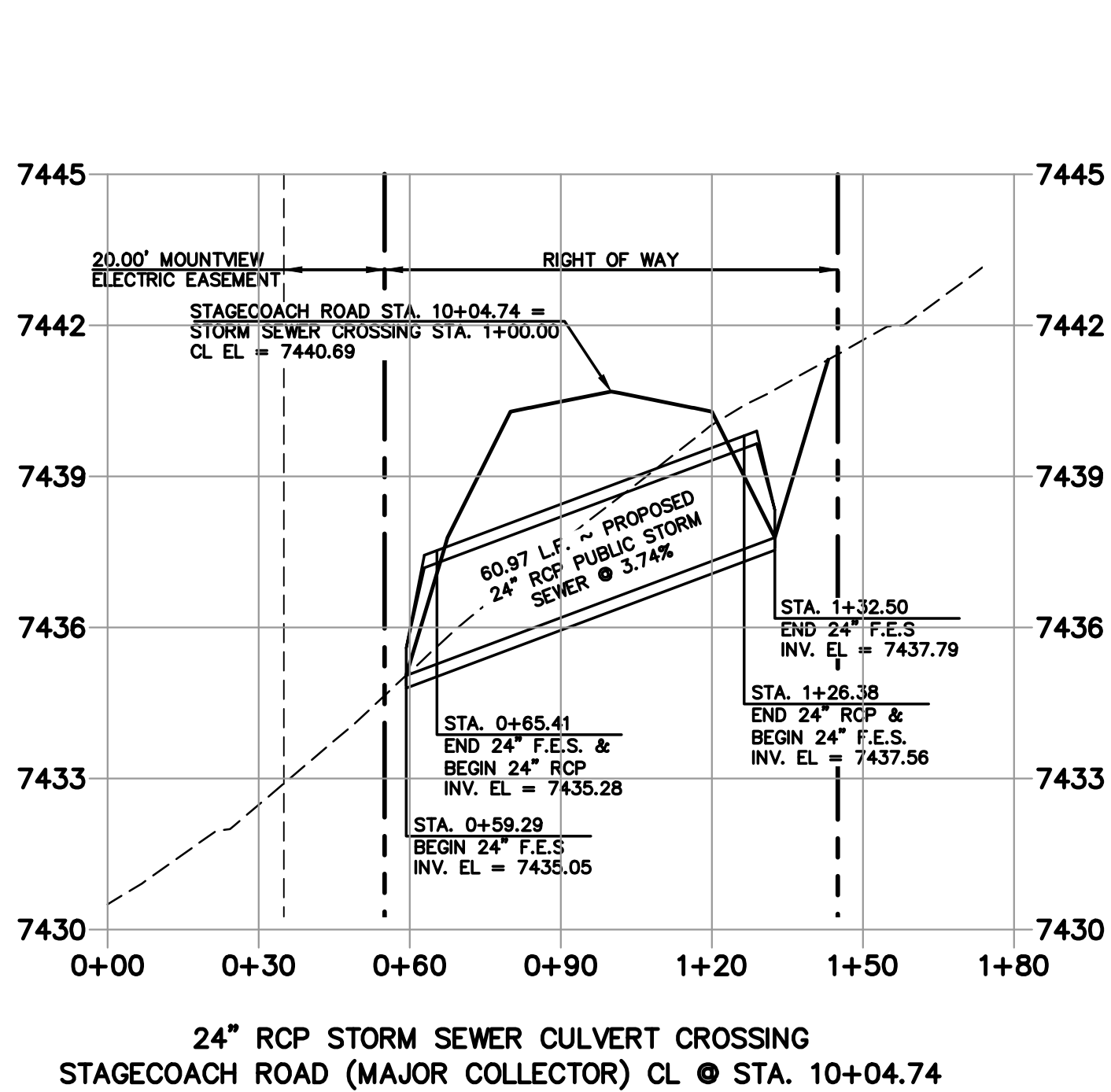
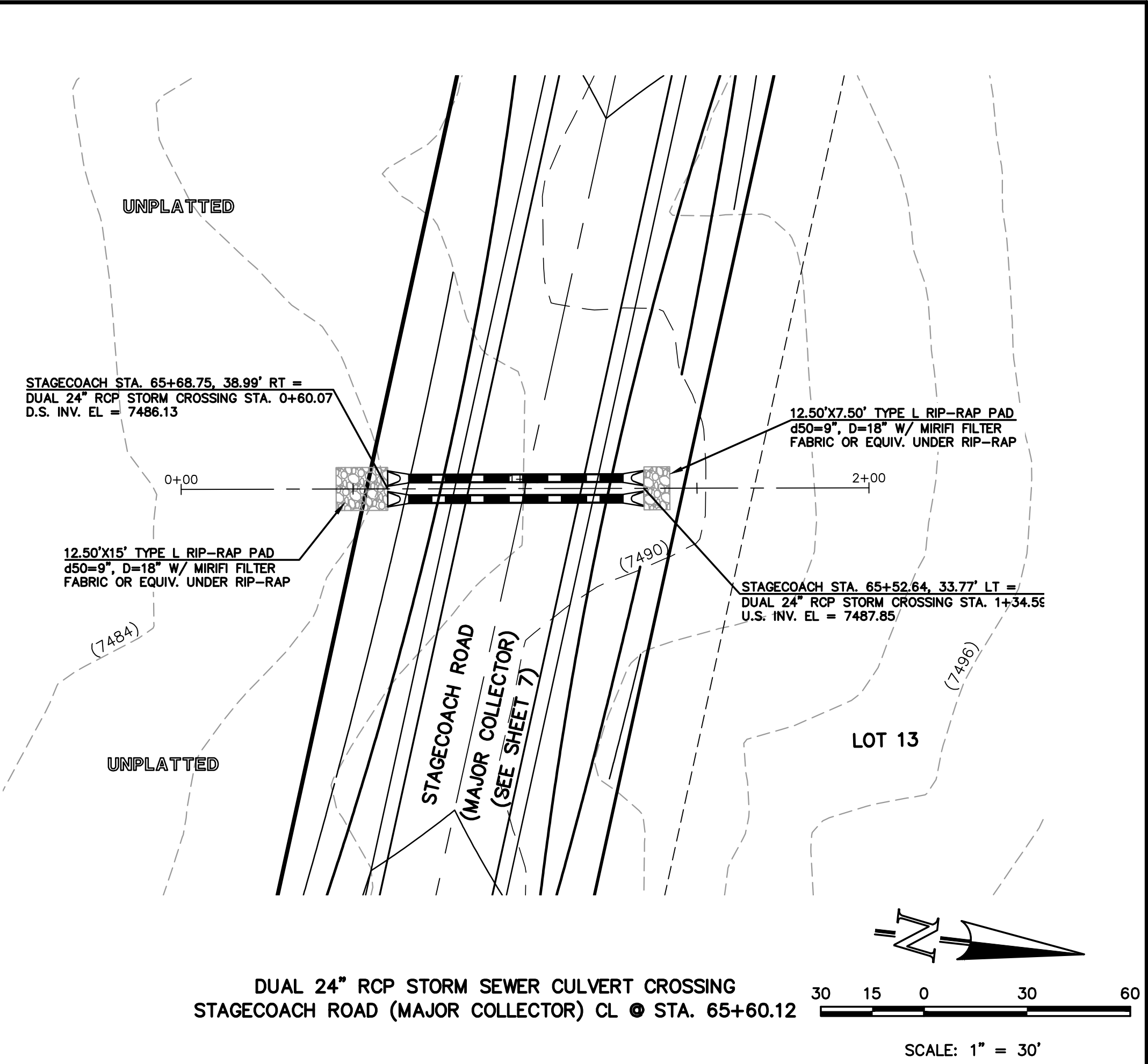
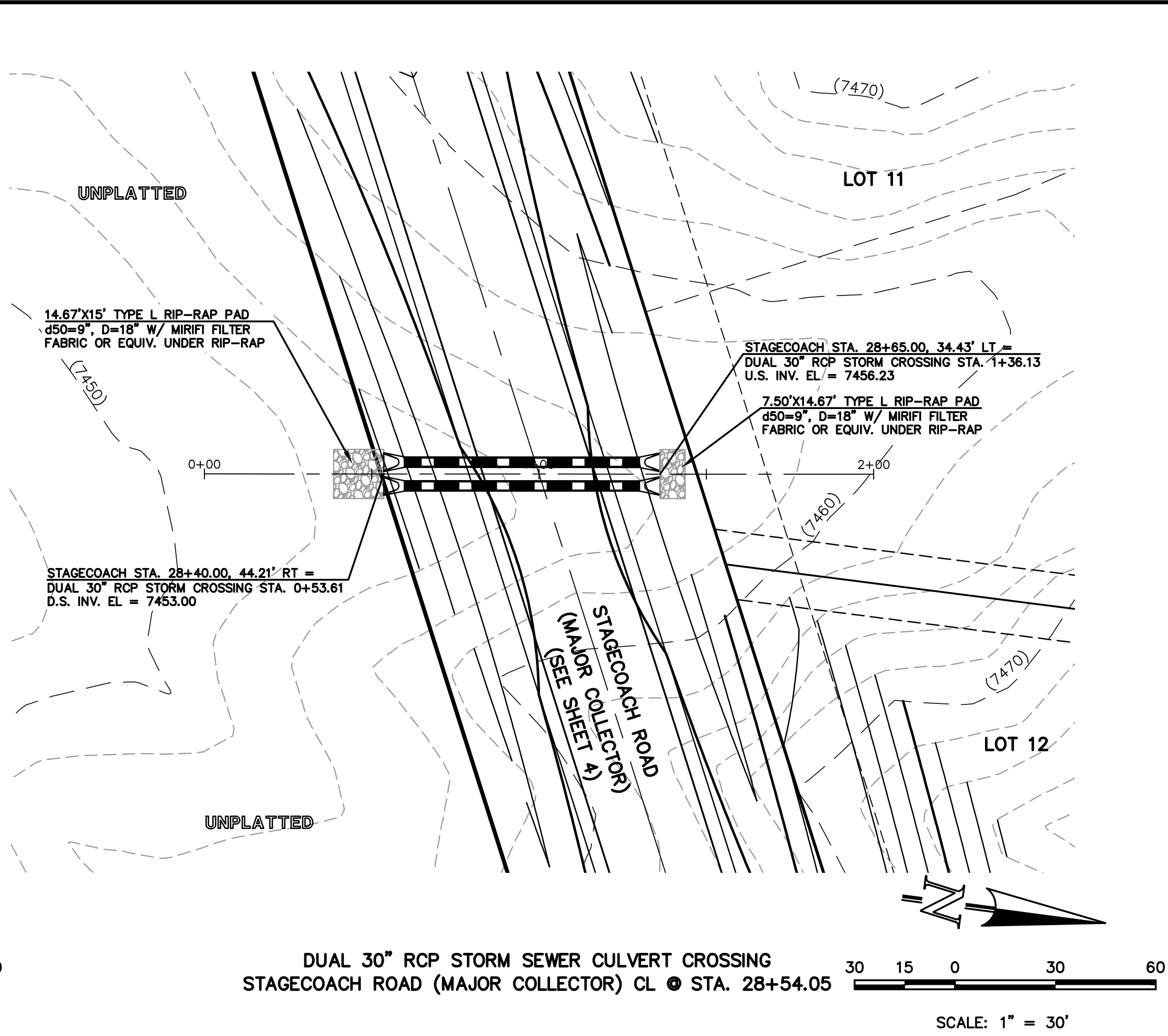
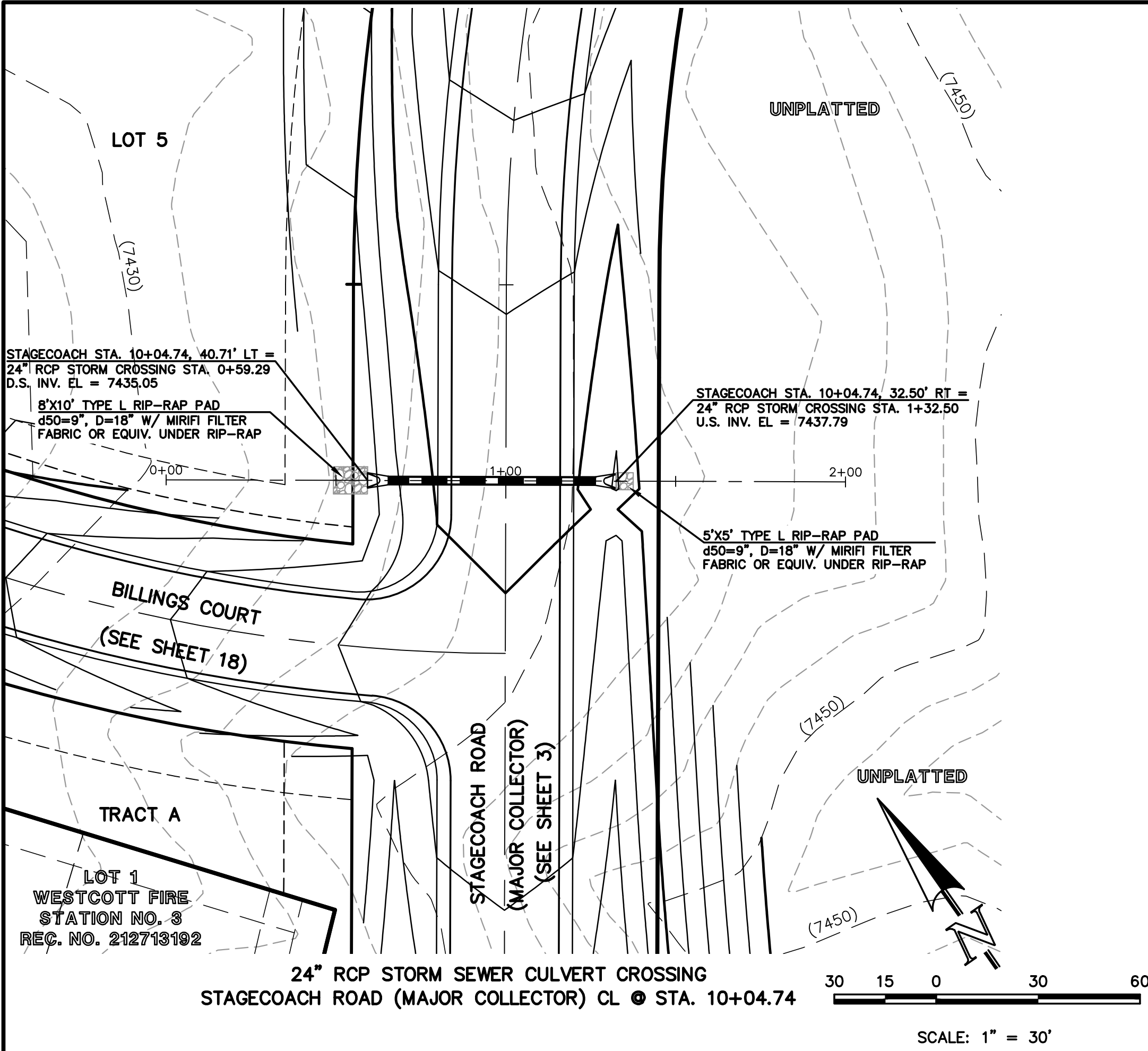
DESIGNED BY PRA SCALE DATE 08-11-17

DRAWN BY PRA (H) 1"= 30' SHEET 38 OF 58

CHECKED BY (V) 1"= 3' JOB NO. 1096.11

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CONSULTING  
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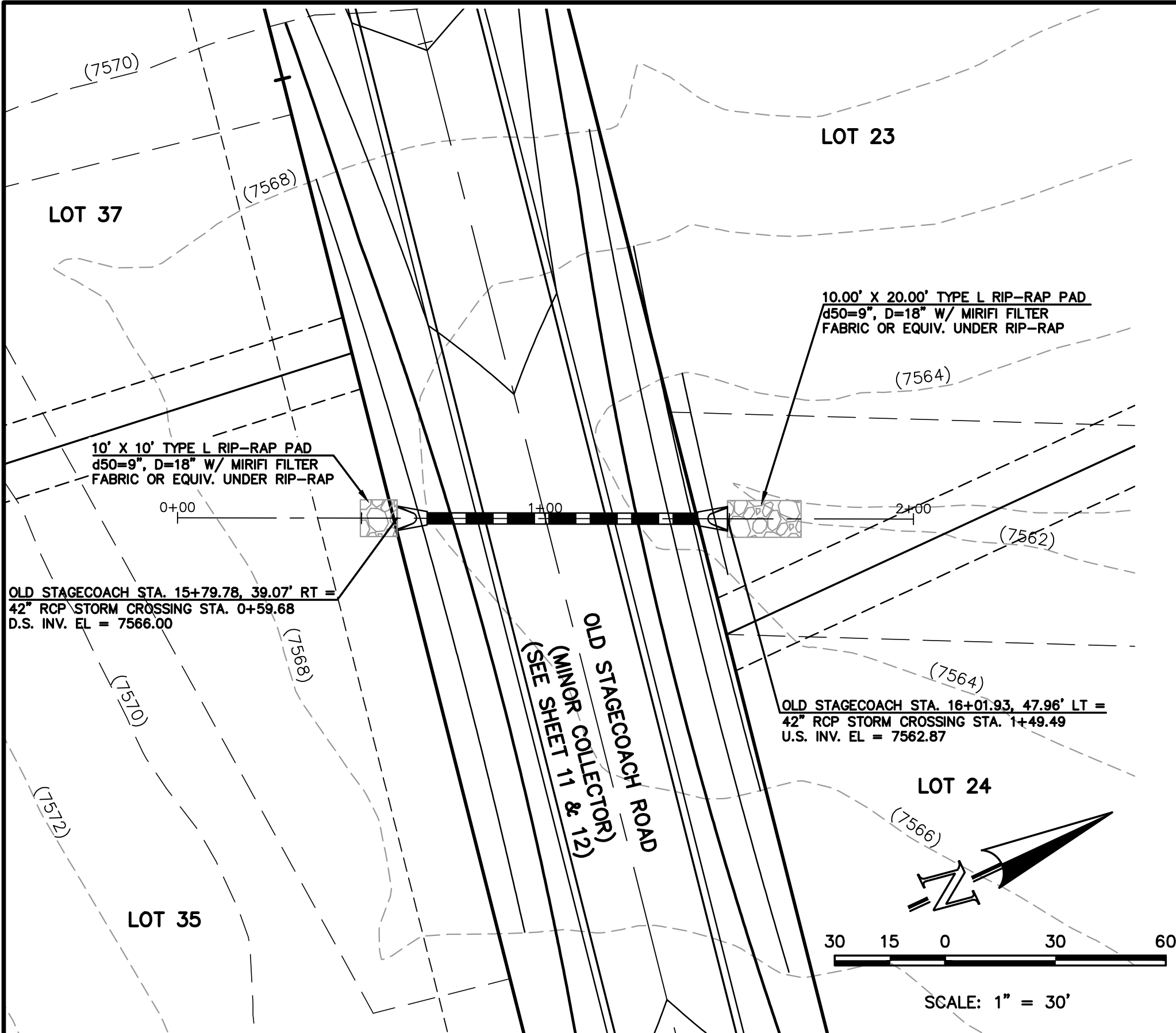
619 N. Cascade Avenue, Suite 200  
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(719)785-0790  
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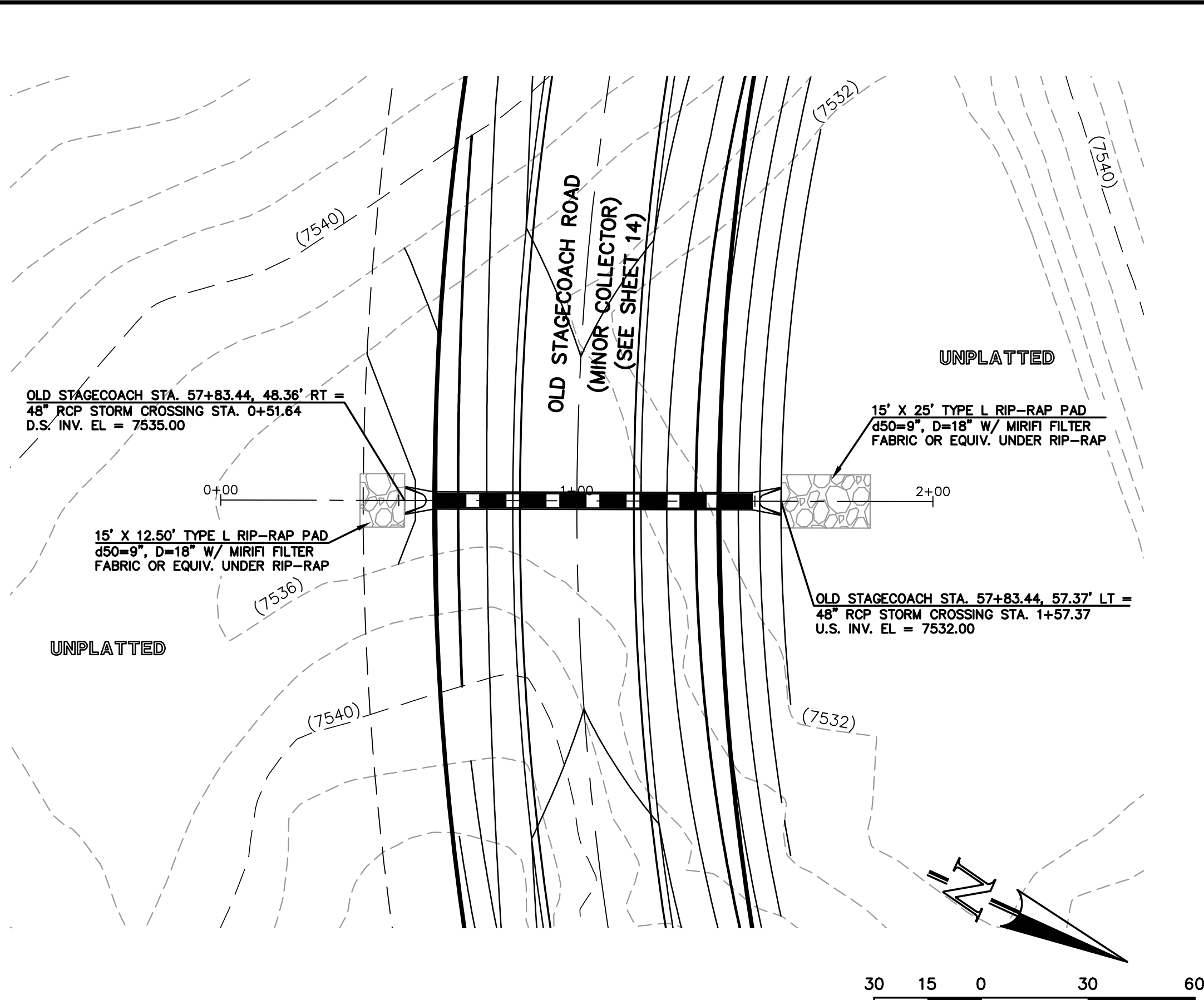
FLYING HORSE NORTH FILING NO. 1  
STORM SEWER CONSTRUCTION PLANS  
STORM SEWER RCP CULVERT CROSSINGS  
PLAN & PROFILE

DESIGNED BY	PRA	SCALE	DATE	08-11-17
DRAWN BY	PRA	(H) 1"= 30'	SHEET	39 OF 58
CHECKED BY		(V) 1"= 3'	JOB NO.	1096.11

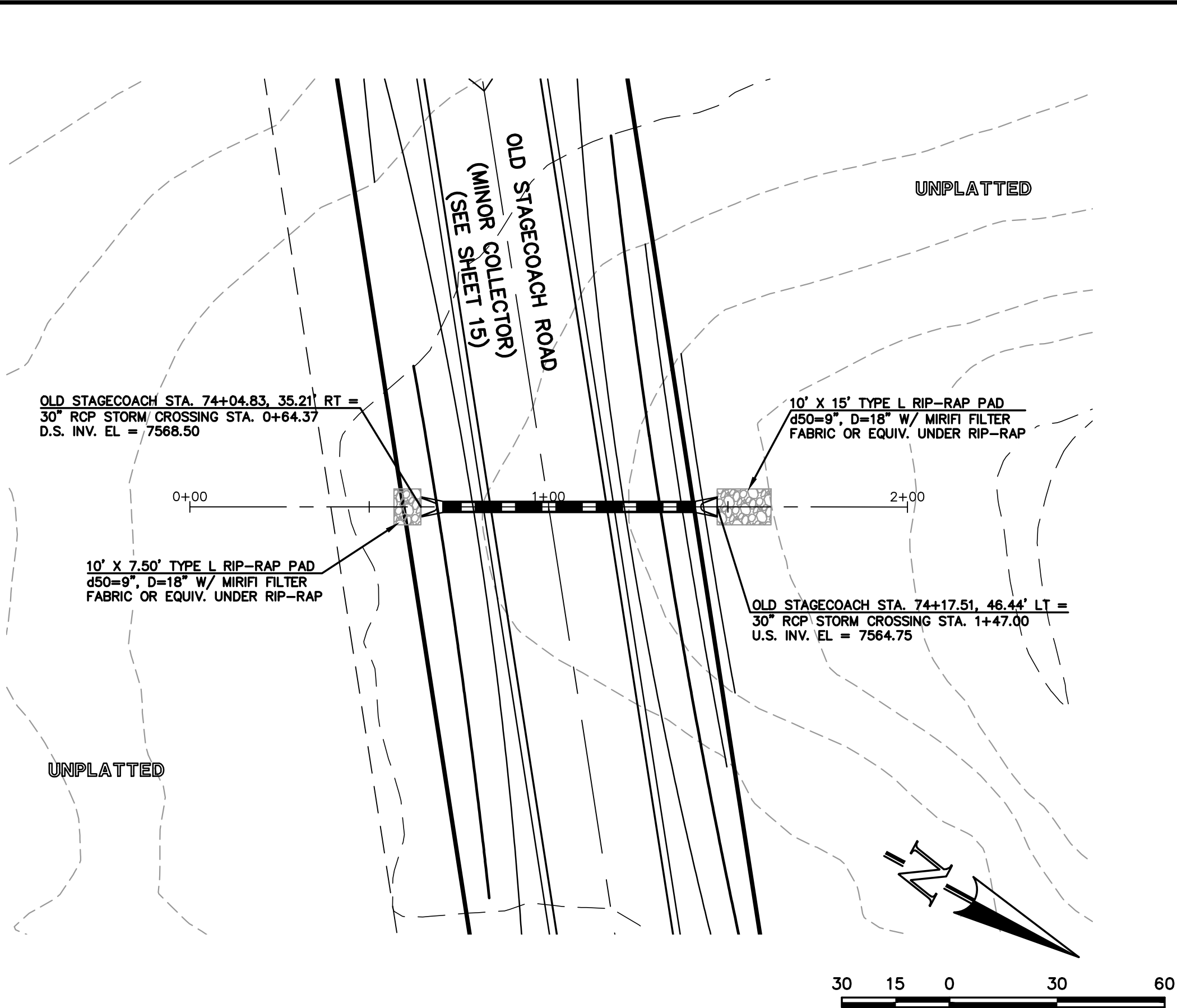
CLASSIC  
ENGINEERS & SURVEYORS



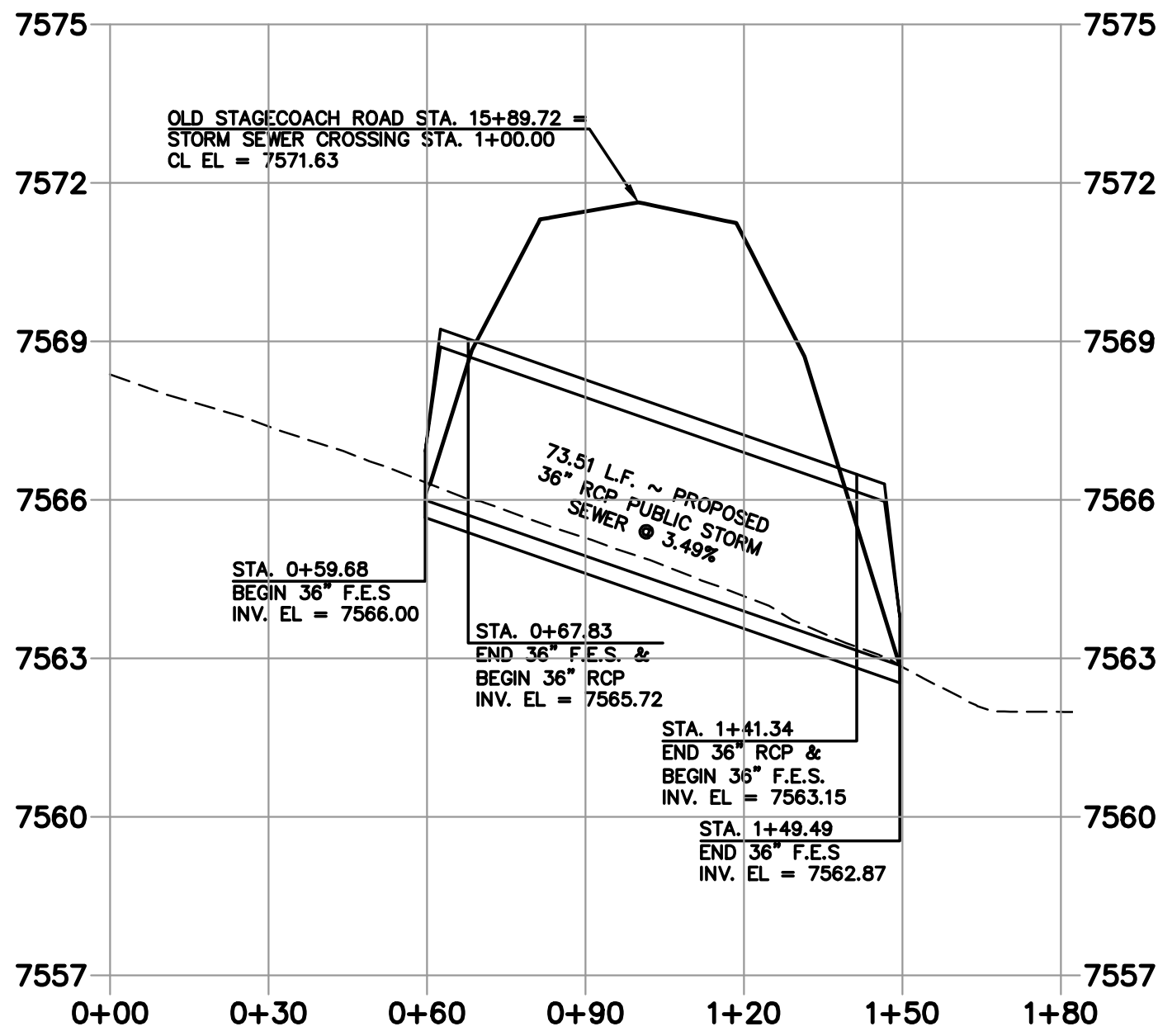
36" RCP STORM SEWER CULVERT CROSSING  
OLD STAGECOACH ROAD (MINOR COLLECTOR) CL @ STA. 15+89.72



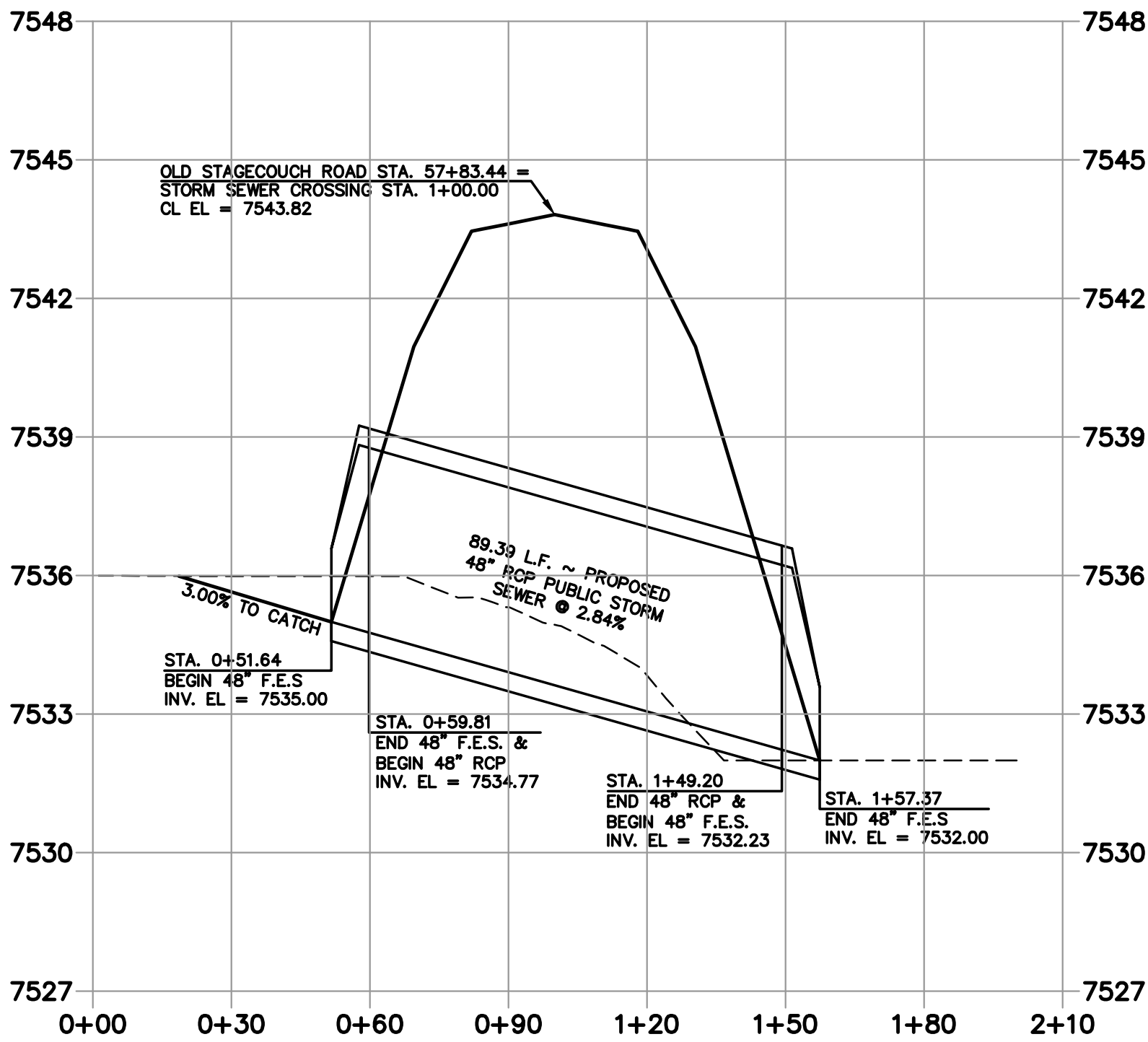
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OLD STAGECOACH ROAD (MINOR COLLECTOR) CL @ STA. 57+83.44



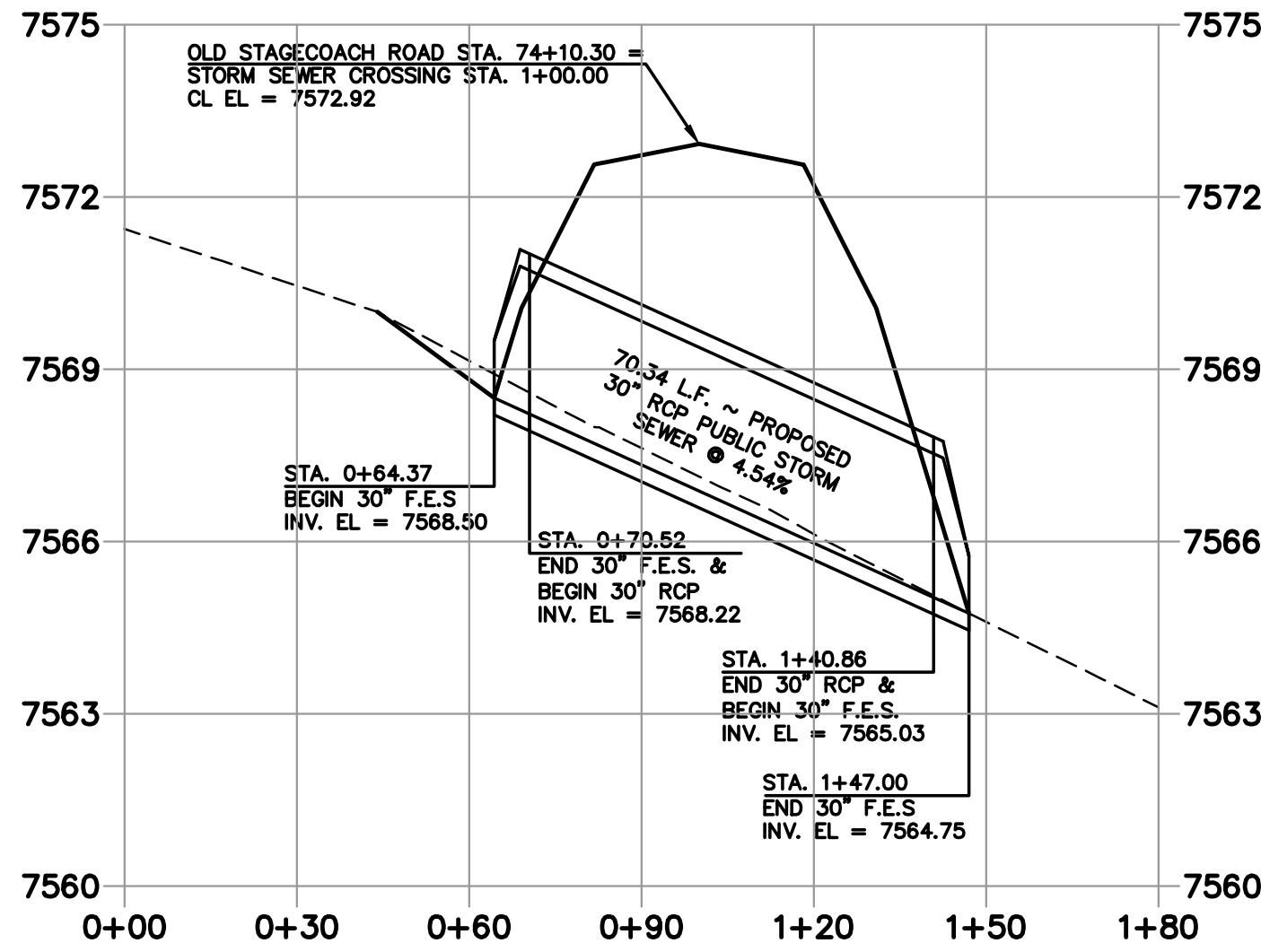
30" RCP STORM SEWER CULVERT CROSSING  
OLD STAGECOACH ROAD (MINOR COLLECTOR) CL @ STA. 74+10.30



36" RCP STORM SEWER CULVERT CROSSING  
OLD STAGECOACH ROAD (MINOR COLLECTOR) CL @ STA. 15+89.72



48" RCP STORM SEWER CULVERT CROSSING  
OLD STAGECOACH ROAD (MINOR COLLECTOR) CL @ STA. 57+83.44



30" RCP STORM SEWER CULVERT CROSSING  
OLD STAGECOACH ROAD (MINOR COLLECTOR) CL @ STA. 74+10.30

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DATE



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(719) 785-0799 (Fax)

FLYING HORSE NORTH FILING NO. 1  
STORM SEWER CONSTRUCTION PLANS  
STORM SEWER RCP CULVERT CROSSINGS  
PLAN & PROFILE

DESIGNED BY	PRA	SCALE	DATE	08-11-17
DRAWN BY	PRA	(H) 1"= 30'	SHEET	40 OF 58
CHECKED BY		(V) 1"= 3'	JOB NO.	1096.11







30" RCP STORM SEWER CULVERT CROSSING  
OLD STAGECOACH ROAD (MINOR COLLECTOR) CL @ STA. 82+82.61

SCALE: 1" = 30'



36" RCP STORM SEWER CULVERT CROSSING  
OLD STAGECOACH ROAD (MINOR COLLECTOR) CL @ STA. 94+71.30

SCALE: 1" = 30'



24" RCP STORM SEWER CULVERT CROSSING  
OLD STAGECOACH ROAD (MINOR COLLECTOR) CL @ STA. 99+32.23

SCALE: 1" = 30'



30" RCP STORM SEWER CULVERT CROSSING  
OLD STAGECOACH ROAD (MINOR COLLECTOR) CL @ STA. 82+82.61



36" RCP STORM SEWER CULVERT CROSSING  
OLD STAGECOACH ROAD (MINOR COLLECTOR) CL @ STA. 94+71.30



24" RCP STORM SEWER CULVERT CROSSING  
OLD STAGECOACH ROAD (MINOR COLLECTOR) CL @ STA. 99+32.23

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

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NO.	REVISION	DATE

REVIEW:

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

MARC A. WHORTON, COLORADO P.E. #37155 DATE



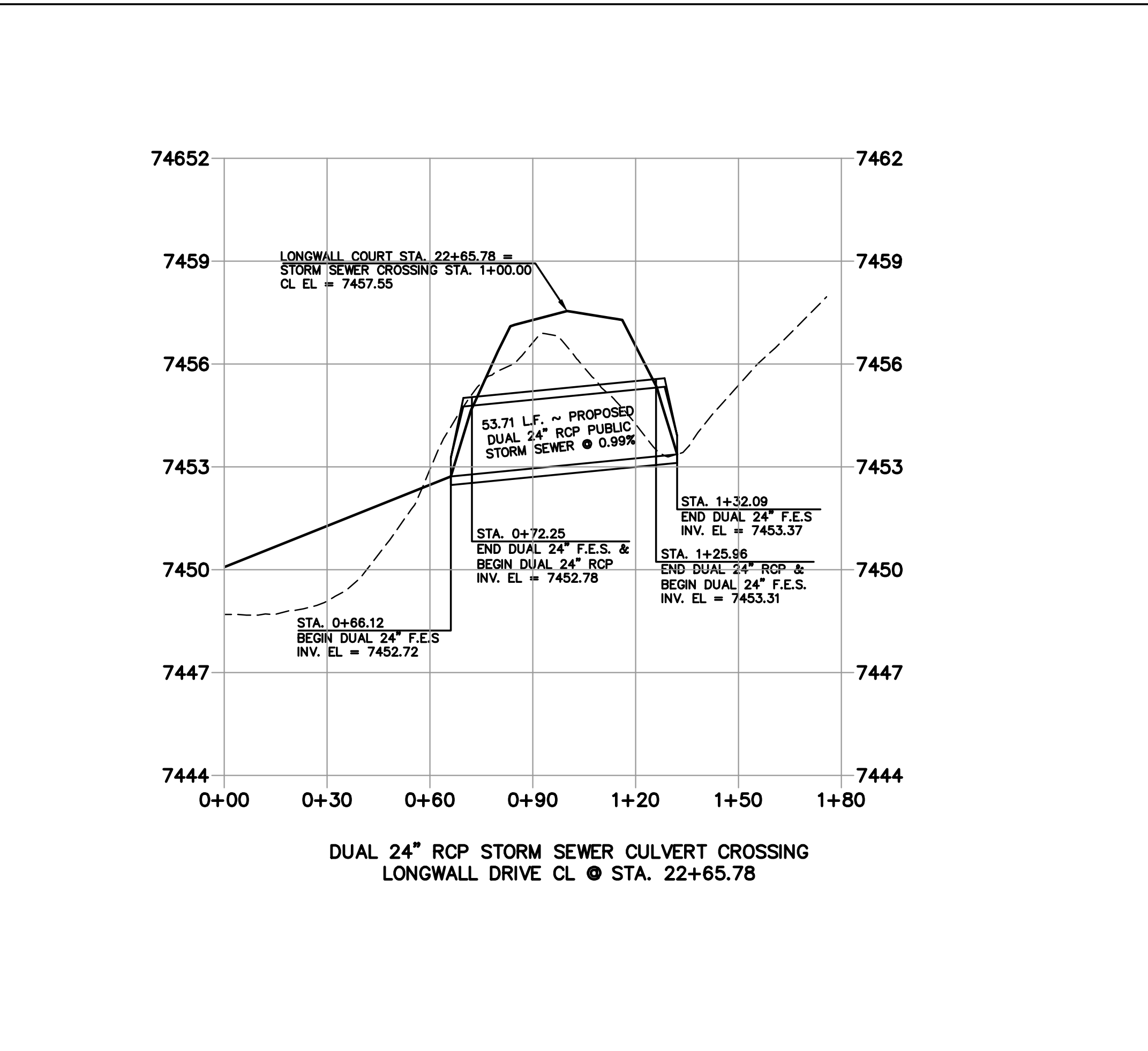
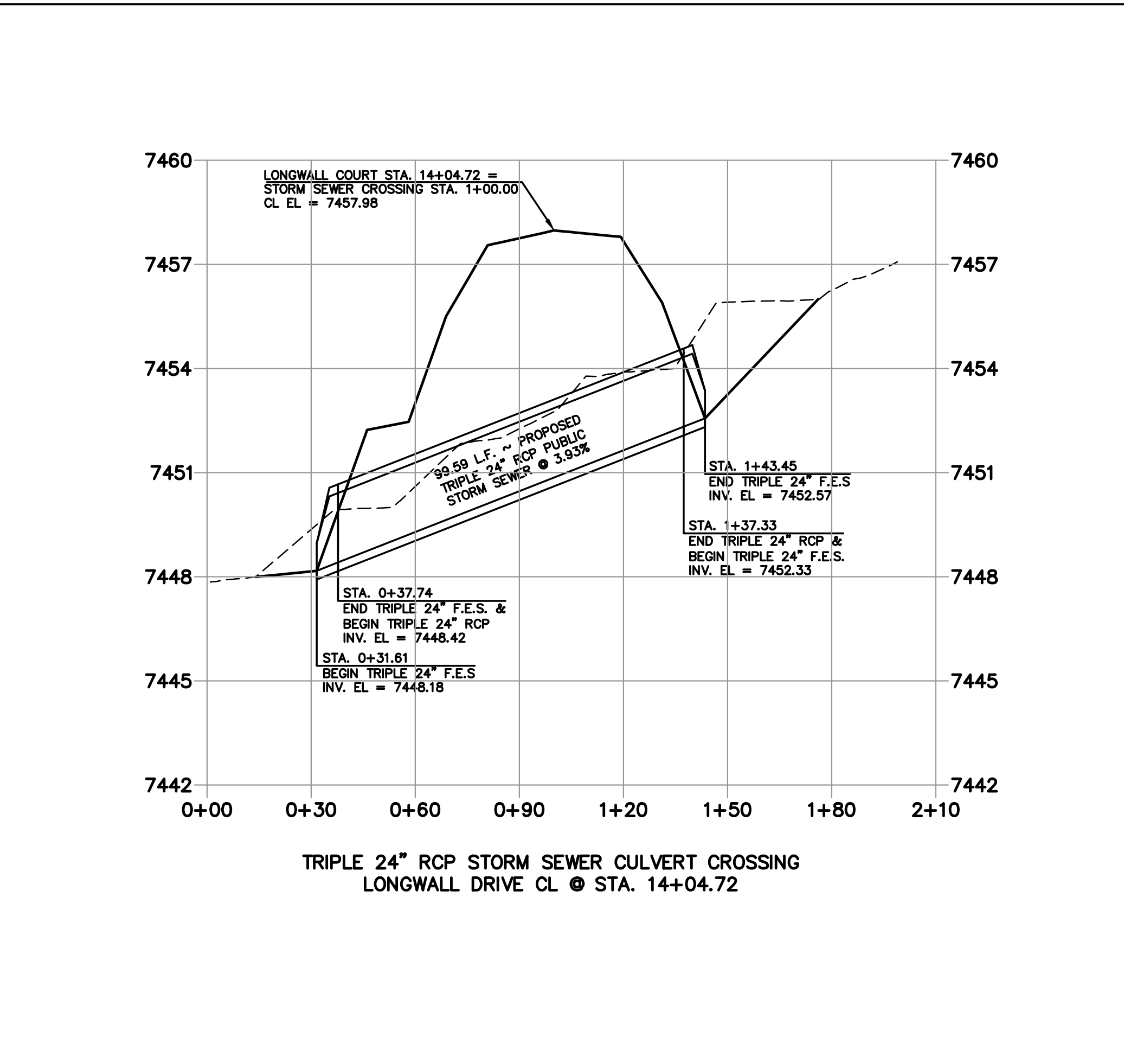
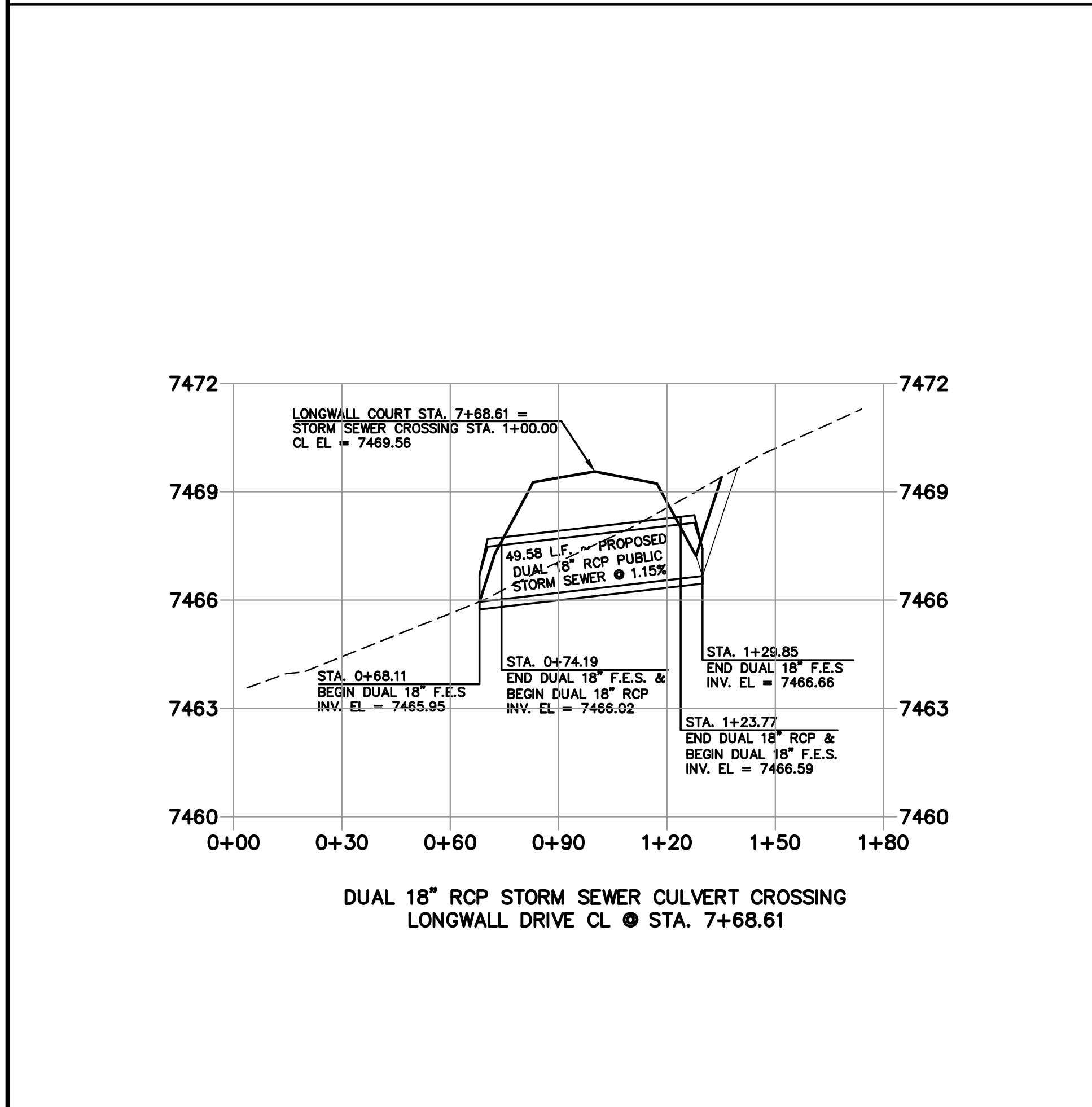
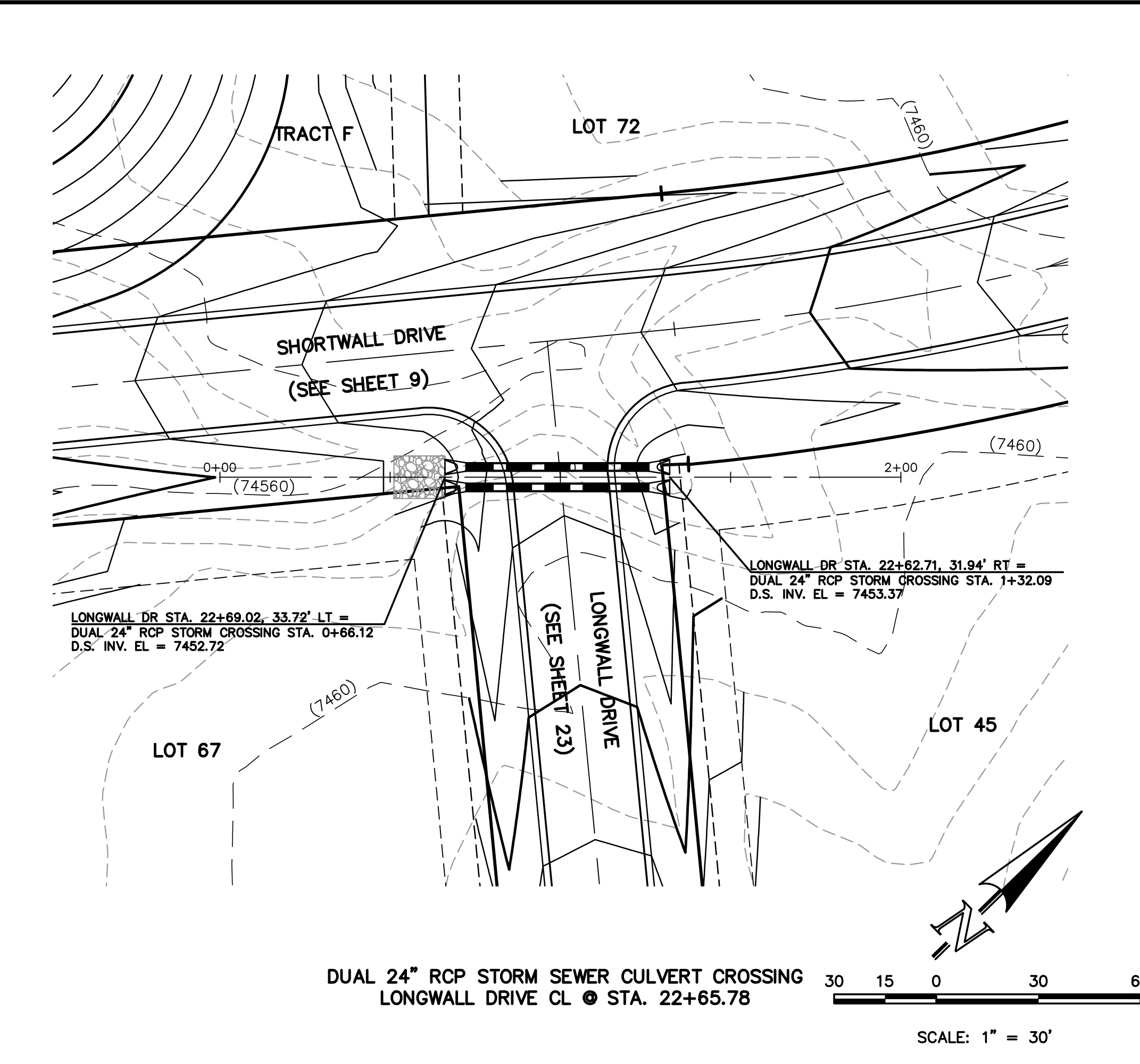
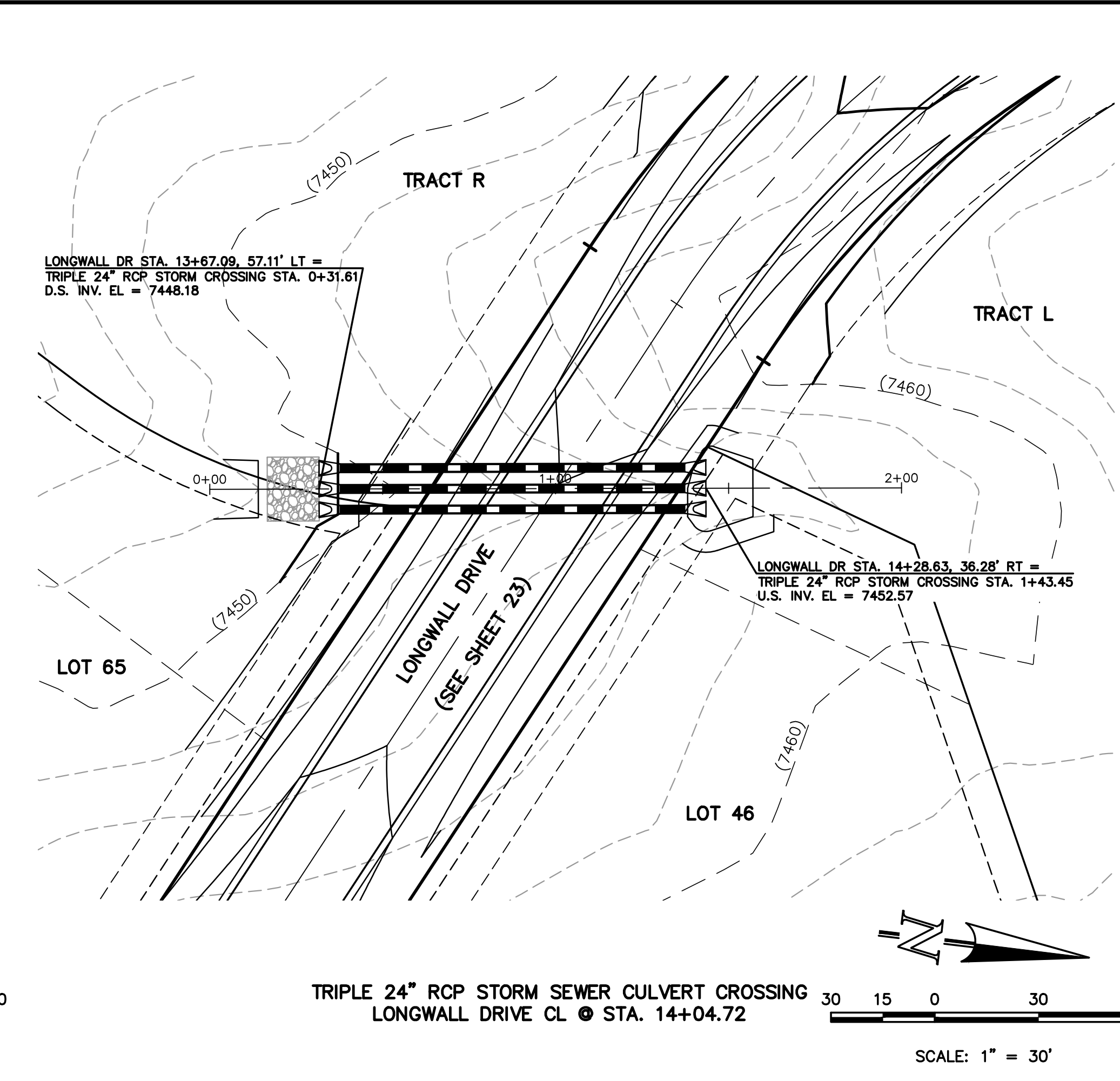
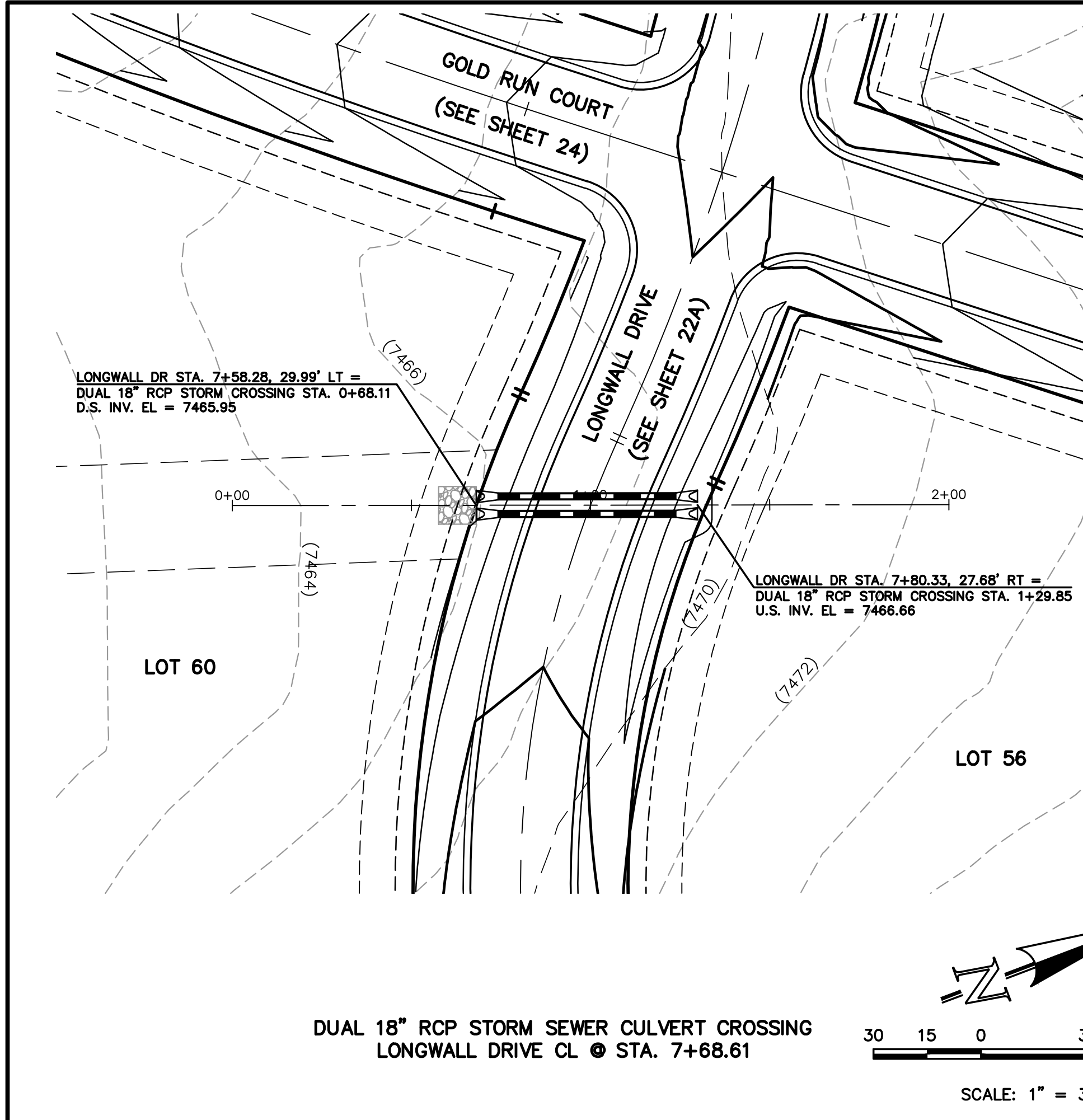
619 N. Cascade Avenue, Suite 200  
Colorado Springs, Colorado 80903

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

FLYING HORSE NORTH FILING NO. 1  
STORM SEWER CONSTRUCTION PLANS  
STORM SEWER RCP CULVERT CROSSINGS  
PLAN & PROFILE

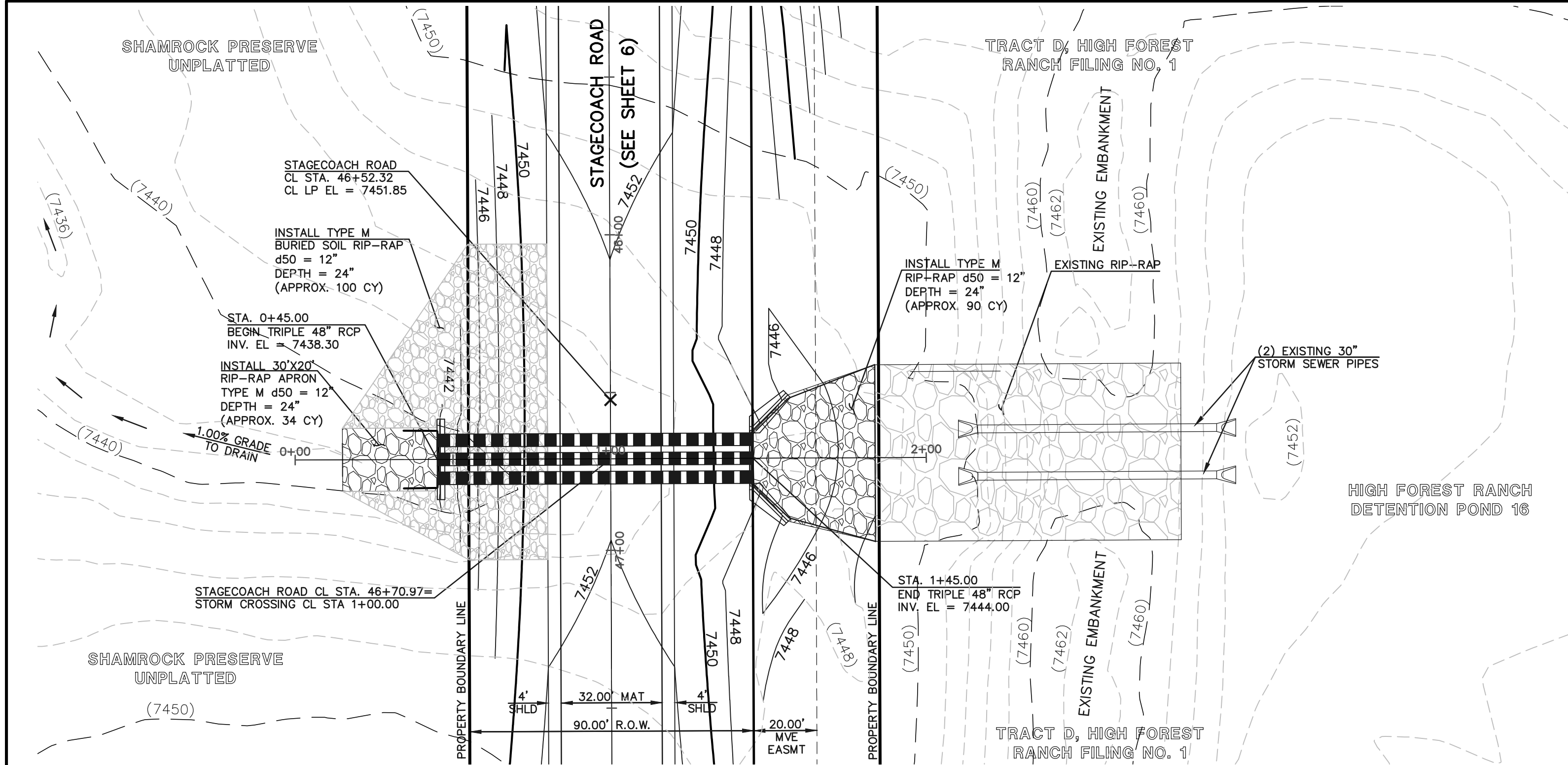
DESIGNED BY	PRA	SCALE	DATE	08-11-17
DRAWN BY	PRA	(H) 1"= 30'	SHEET	41 OF 58
CHECKED BY		(V) 1"= 3'	JOB NO.	1096.11



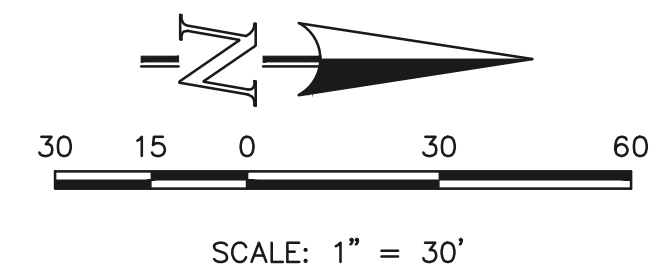


<p>48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS <b>811</b> UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW</p> <p>THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING 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> <table border="1"><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr></table>															<p>DATE</p> <table border="1"><tr><td> </td></tr><tr><td> </td></tr><tr><td> </td></tr><tr><td> </td></tr><tr><td> </td></tr><tr><td> </td></tr><tr><td> </td></tr></table>								<p>REVIEW:</p> <p>PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC</p> <p>MARC A. WHORTON, COLORADO P.E. #37155</p> <p>DATE</p>	<p>FLYING HORSE NORTH FILING NO. 1 STORM SEWER CONSTRUCTION PLANS STORM SEWER RCP CULVERT CROSSINGS PLAN &amp; PROFILE</p> <table border="1"><tr><td>DESIGNED BY</td><td>PRA</td><td>SCALE</td><td>DATE</td><td>08-11-17</td></tr><tr><td>DRAWN BY</td><td>PRA</td><td>(H) 1"= 30'</td><td>SHEET</td><td>42 OF 58</td></tr><tr><td>CHECKED BY</td><td> </td><td>(V) 1"= 3'</td><td>JOB NO.</td><td>1096.11</td></tr></table>	DESIGNED BY	PRA	SCALE	DATE	08-11-17	DRAWN BY	PRA	(H) 1"= 30'	SHEET	42 OF 58	CHECKED BY		(V) 1"= 3'	JOB NO.	1096.11	<p><b>CLASSIC</b> CONSULTING ENGINEERS &amp; SURVEYORS</p> <p>619 N. Cascade Avenue, Suite 200 Colorado Springs, Colorado 80903</p> <p>(719)785-0790 (719)785-0799(Fax)</p>
DESIGNED BY	PRA	SCALE	DATE	08-11-17																																					
DRAWN BY	PRA	(H) 1"= 30'	SHEET	42 OF 58																																					
CHECKED BY		(V) 1"= 3'	JOB NO.	1096.11																																					



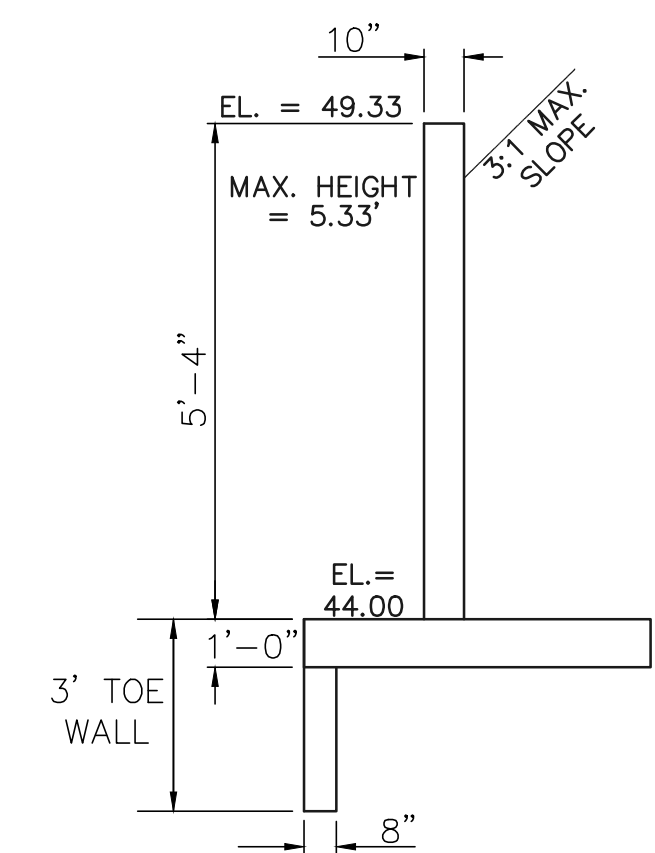


TRIPLE 48" RCP STORM SEWER CROSSING

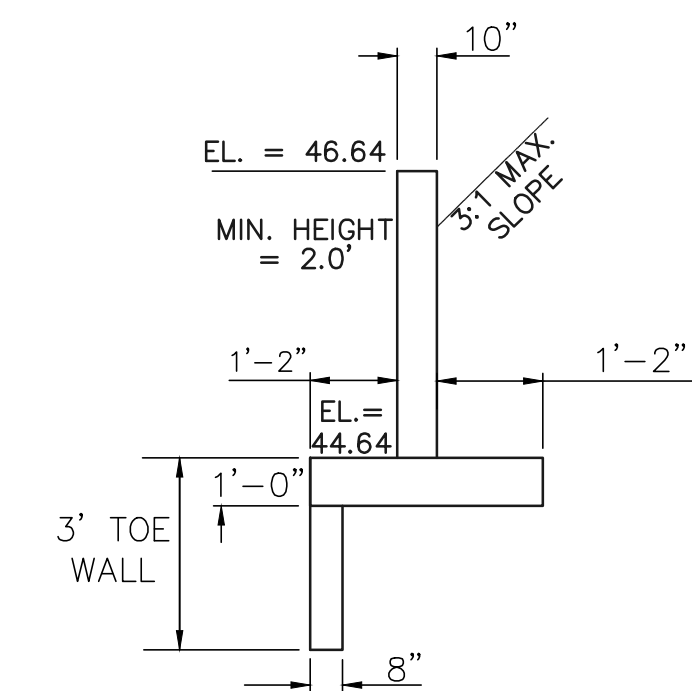


NORTHWEST HEADWALL/WINGWALLS

PER CDOT M-601-20  
SEE CDOT M-601-20 FOR DESIGN REQUIREMENTS  
INV. IN EL = 7444.00  
EL AT TOP OF HEADWALL = 7449.67  
EL AT TOP OF WINGWALL NW1 = 7449.33  
EL AT TOP OF WINGWALL NW2 = 7446.64  
EL AT TOP OF NW1 FOOTING = 7444.00  
EL AT TOP OF NW2 FOOTING = 7444.64



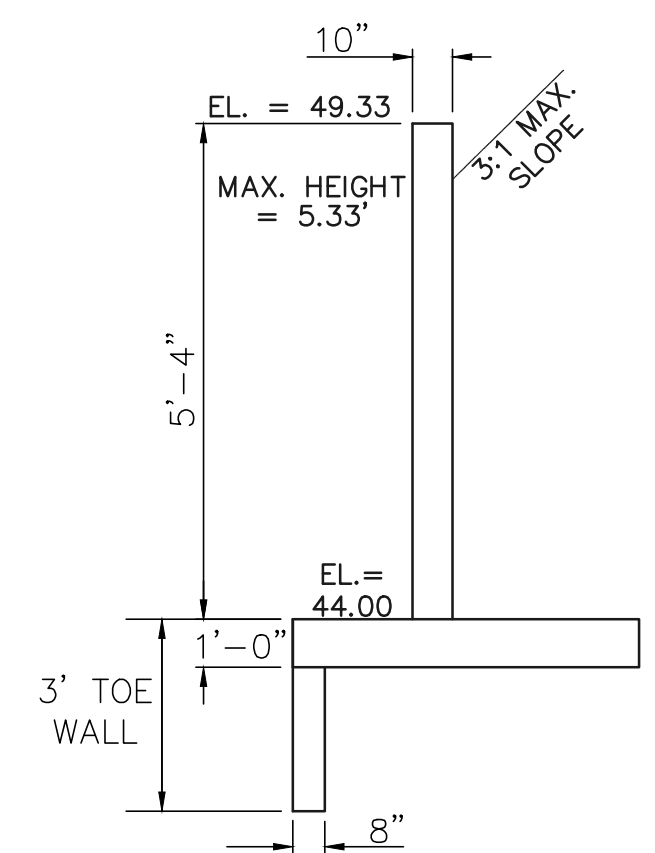
NORTHWEST WINGWALL  
TOP  
N.T.S.  
(WALL NW1)



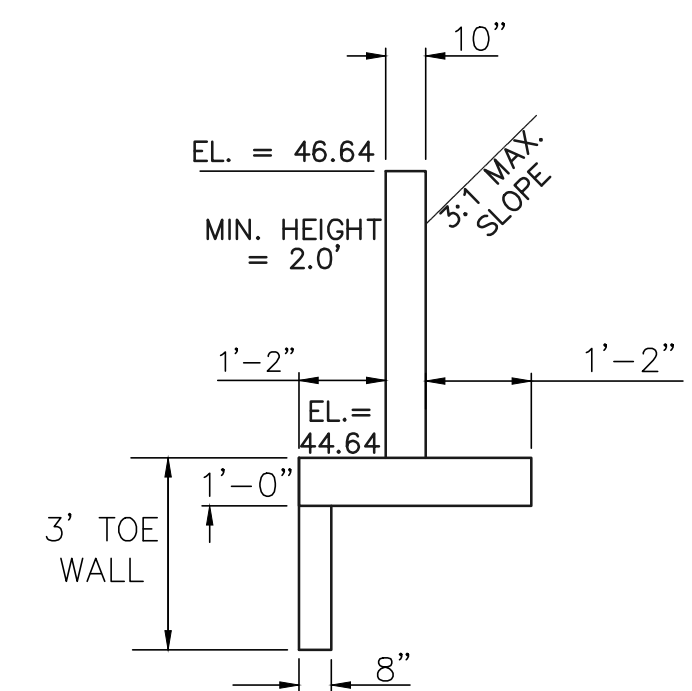
NORTHWEST WINGWALL  
BOTTOM  
N.T.S.  
(WALL NW2)

NORTHEAST HEADWALL/WINGWALLS

PER CDOT M-601-20  
SEE CDOT M-601-20 FOR DESIGN REQUIREMENTS  
INV. IN EL = 7444.00  
EL AT TOP OF HEADWALL = 7449.67  
EL AT TOP OF WINGWALL NE1 = 7449.33  
EL AT TOP OF WINGWALL NE2 = 7446.64  
EL AT TOP OF NE1 FOOTING = 7444.00  
EL AT TOP OF NE2 FOOTING = 7444.64



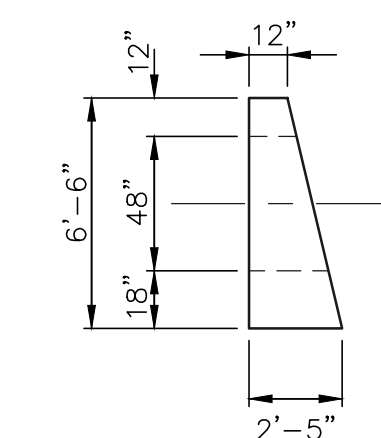
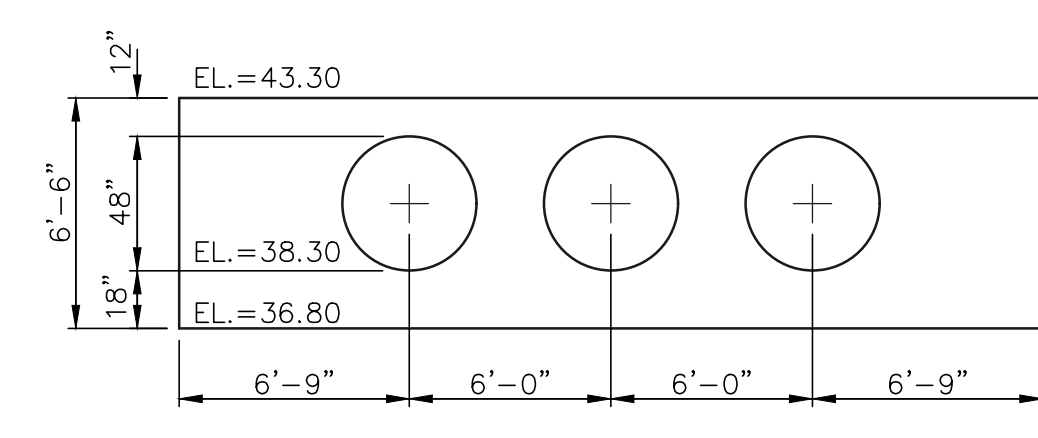
NORTHEAST WINGWALL  
TOP  
N.T.S.  
(WALL NE1)



NORTHEAST WINGWALL  
BOTTOM  
N.T.S.  
(WALL NE2)

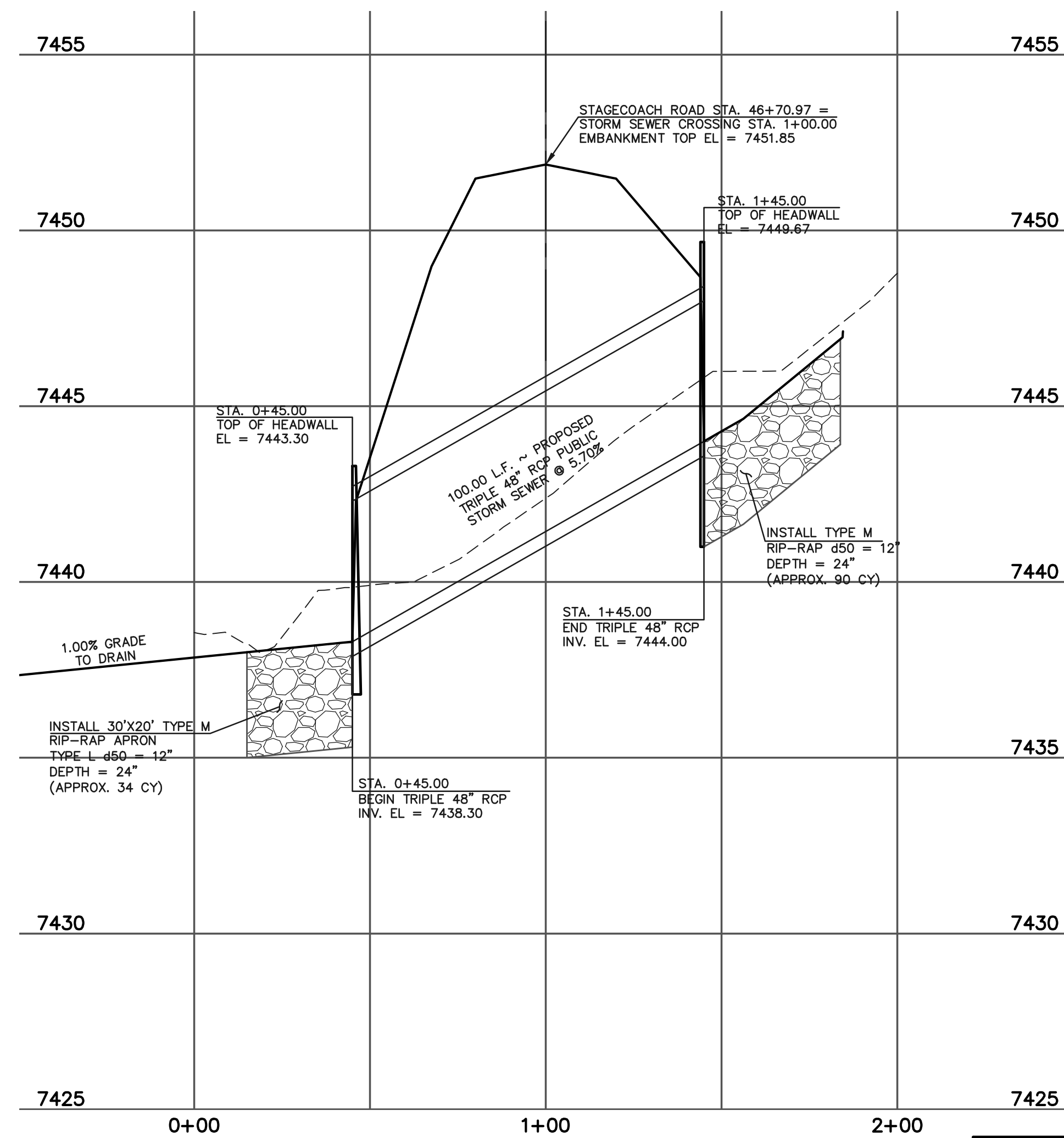
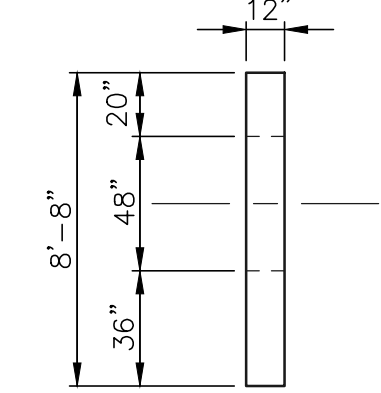
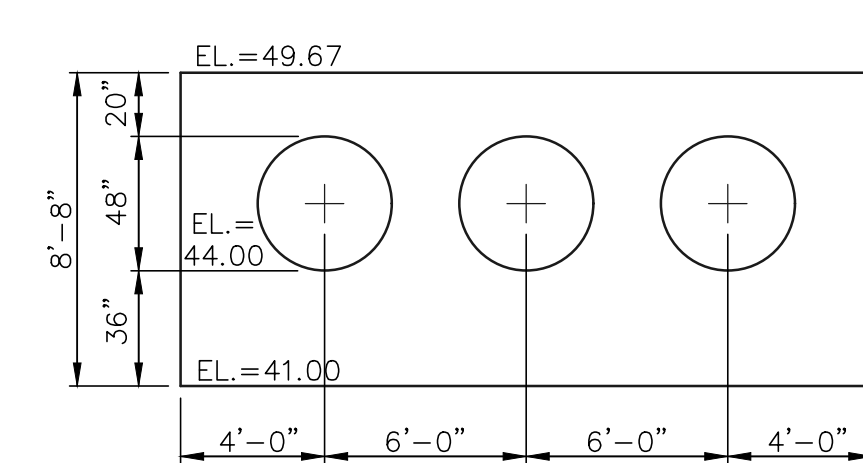
SOUTHERN OUTLET HEADWALL

PER CDOT M-601-12  
SEE CDOT M-601-12 FOR DESIGN REQUIREMENTS  
INV. OUT EL = 7438.30  
EL AT TOP OF HEADWALL = 7443.30  
FINISHED GRADE EL AT TOP OF HEADWALL = 7442.80  
EL AT BOTTOM HEADWALL = 7436.80



NORTHERN INLET HEADWALL

PER CDOT M-601-20  
SEE CDOT M-601-20 FOR DESIGN REQUIREMENTS  
INV. OUT EL = 7444.00  
EL AT TOP OF HEADWALL = 7449.67  
FINISHED GRADE EL AT TOP OF HEADWALL = 7449.17  
EL AT BOTTOM HEADWALL = 7441.00



TRIPLE 48" RCP STORM SEWER CROSSING

HORIZONTAL SCALE: 1" = 30'  
VERTICAL SCALE: 1" = 3'

48 HOURS BEFORE YOU DIG,  
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NO.	REVISION	DATE
1	REVISED PER COUNTY COMMENTS	3-16-18

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

**CLASSIC**  
CONSULTING  
ENGINEERS & SURVEYORS

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

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

FLYING HORSE NORTH FILING NO. 1			
CONSTRUCTION DRAWINGS			
STORM SEWER PLANS			
CULVERT CROSSING (DESIGN POINT 8)			
DESIGNED BY	MAW	SCALE	DATE 07-18-17
DRAWN BY	MAW	(H) 1"= 30'	SHEET 43 OF 58
CHECKED BY		(V) 1"= 3'	JOB NO. 1096.11





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NO.	REVISION	DATE

REVIEW:

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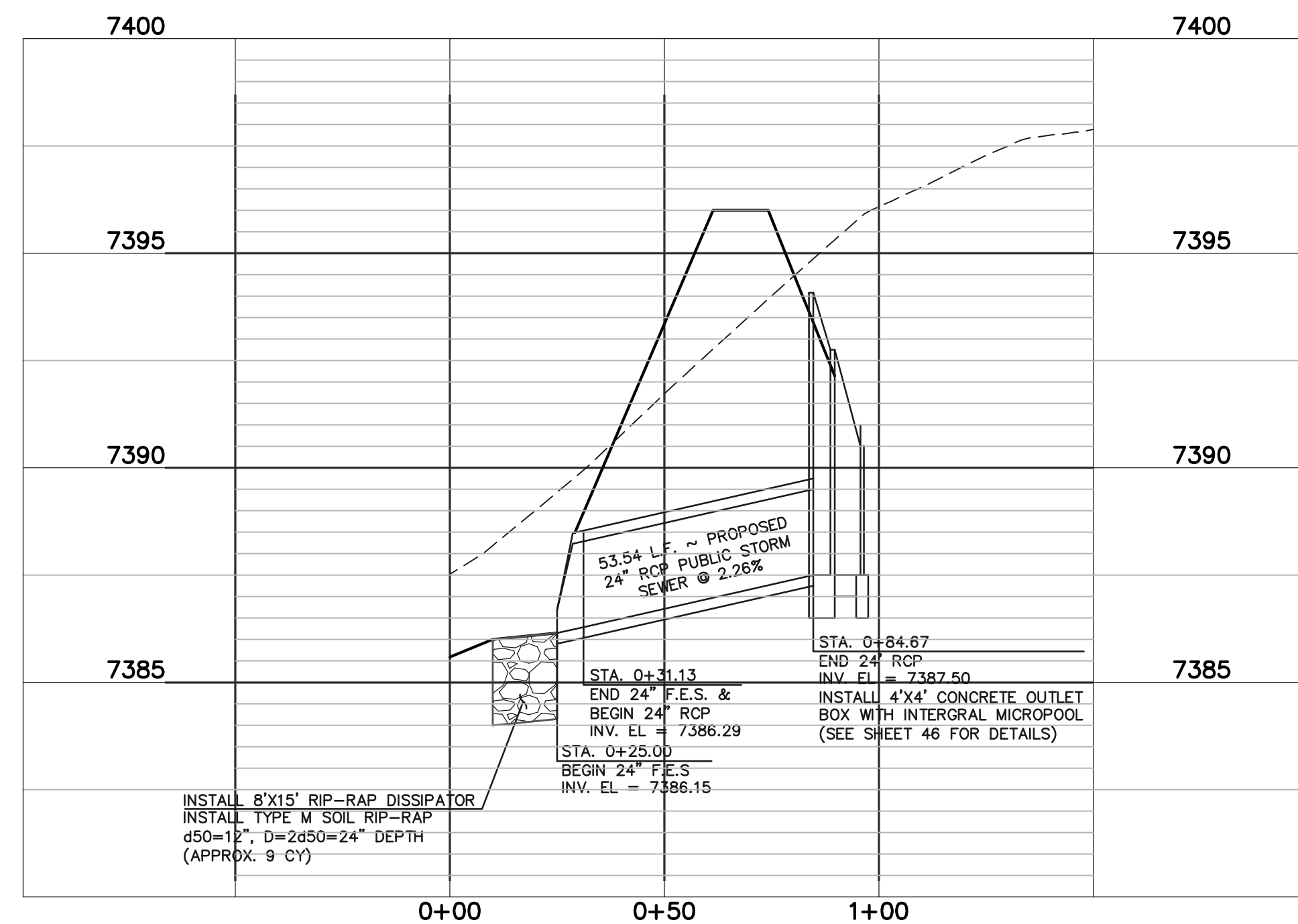
MARC A. WHORTON, COLORADO P.E. #37155 DATE



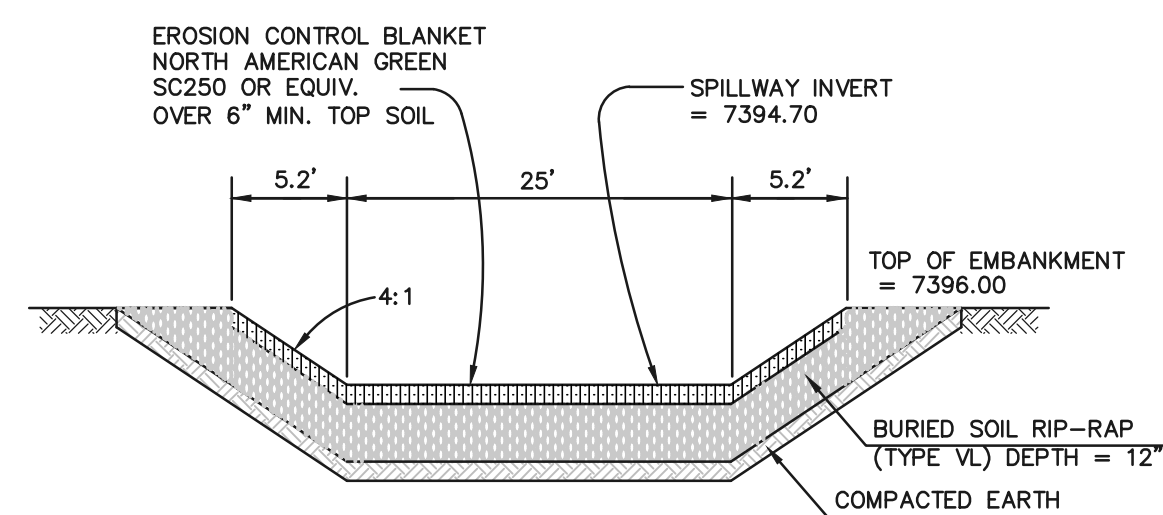
FLYING HORSE NORTH FILING NO. 1  
STREET IMPROVEMENT PLAN  
STORM SEWER RCP CULVERT CROSSING PLAN

DESIGNED BY	PRA	SCALE	DATE	08-11-17
DRAWN BY	PRA	(H) 1"= 30'	SHEET	44 OF 58
CHECKED BY		(V) 1"= 3'	JOB NO.	1096.11

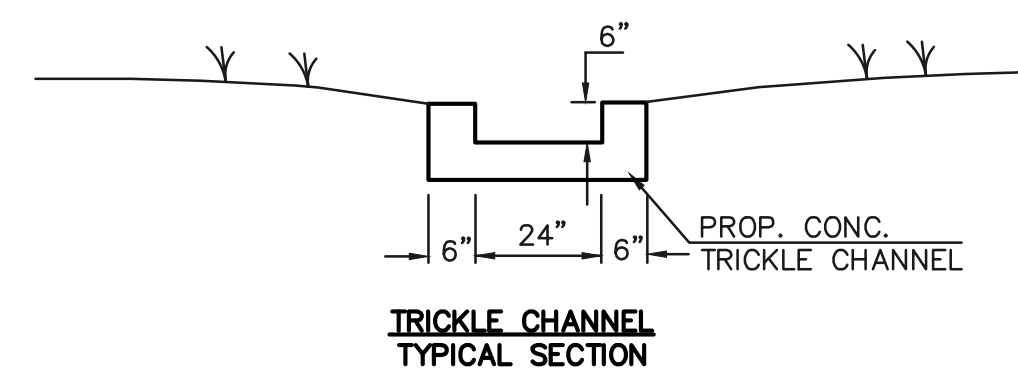




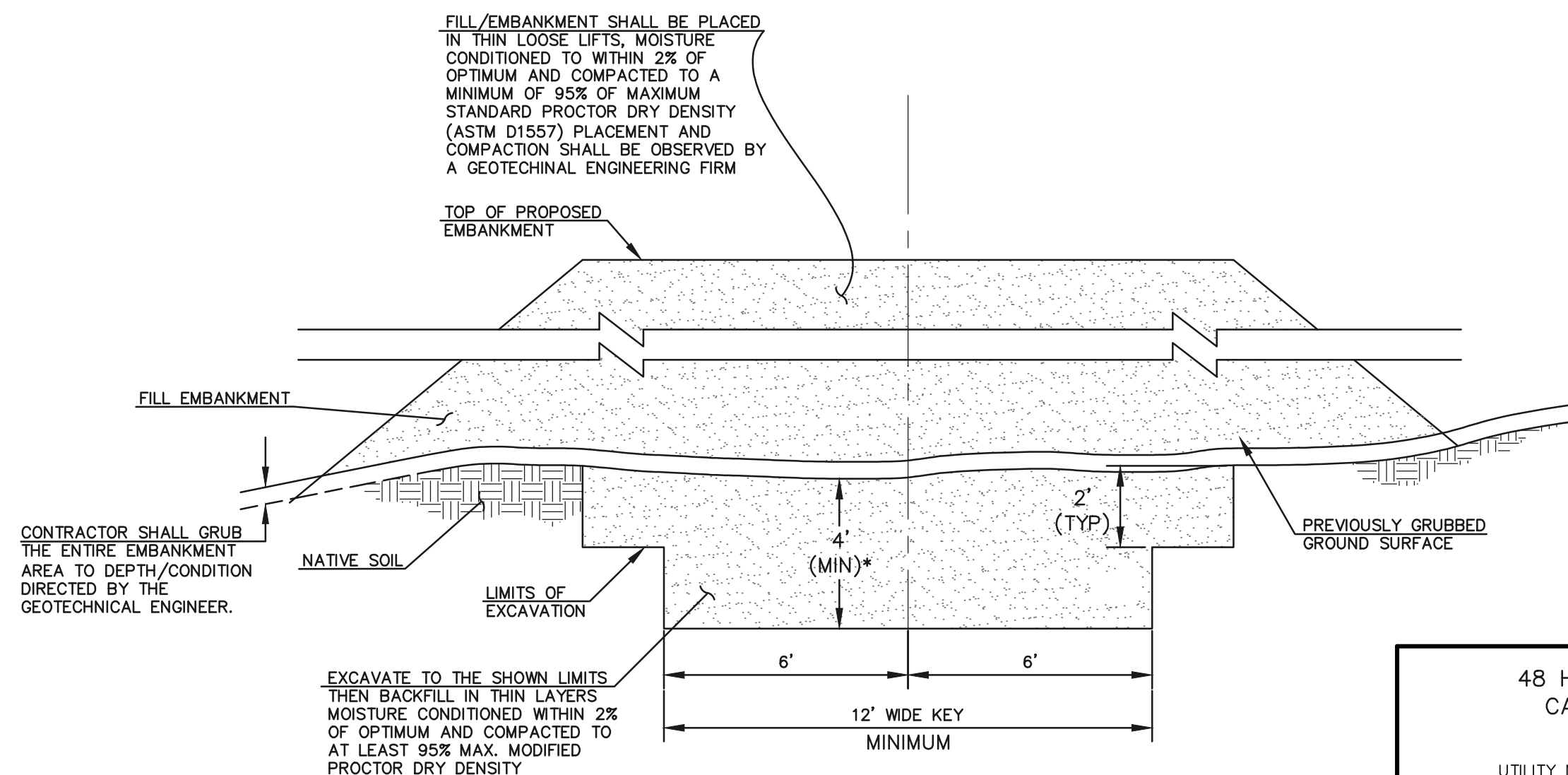
DETENTION FACILITY NO. 1  
POND OUTLET PROFILE  
SCALE: HORIZONTAL 1"=30'  
VERTICAL 1"=3'



EMERGENCY SPILLWAY  
CROSS SECTION  
SCALE: N.T.S.



TRICKLE CHANNEL  
TYPICAL SECTION



SECTION A  
TYPICAL EMBANKMENT  
WITH SOIL KEYWAY  
SCALE: N.T.S.

\* UPON GRUBBING EXISTING SOILS IN EMBANKMENT AREA, ENGINEER SHALL BE CONTACTED TO DETERMINE SOIL QUALITY. IF POOR PERMEABILITY IS FOUND (I.E. SANDY-SILT) ONLY TOP 2' X 14' PORTION OF EMBANKMENT KEY IS REQUIRED FOR CONSTRUCTION.

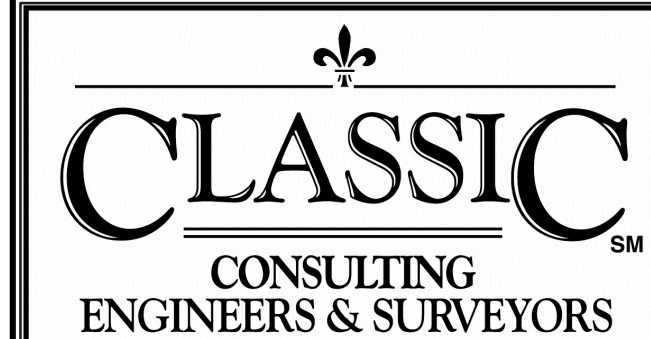
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NO.	REVISION	DATE
1	REVISED PER COUNTY COMMENTS	4-4-18
2	UPDATED DESIGN BASED ON HWY 83 DESIGN	4-26-18

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

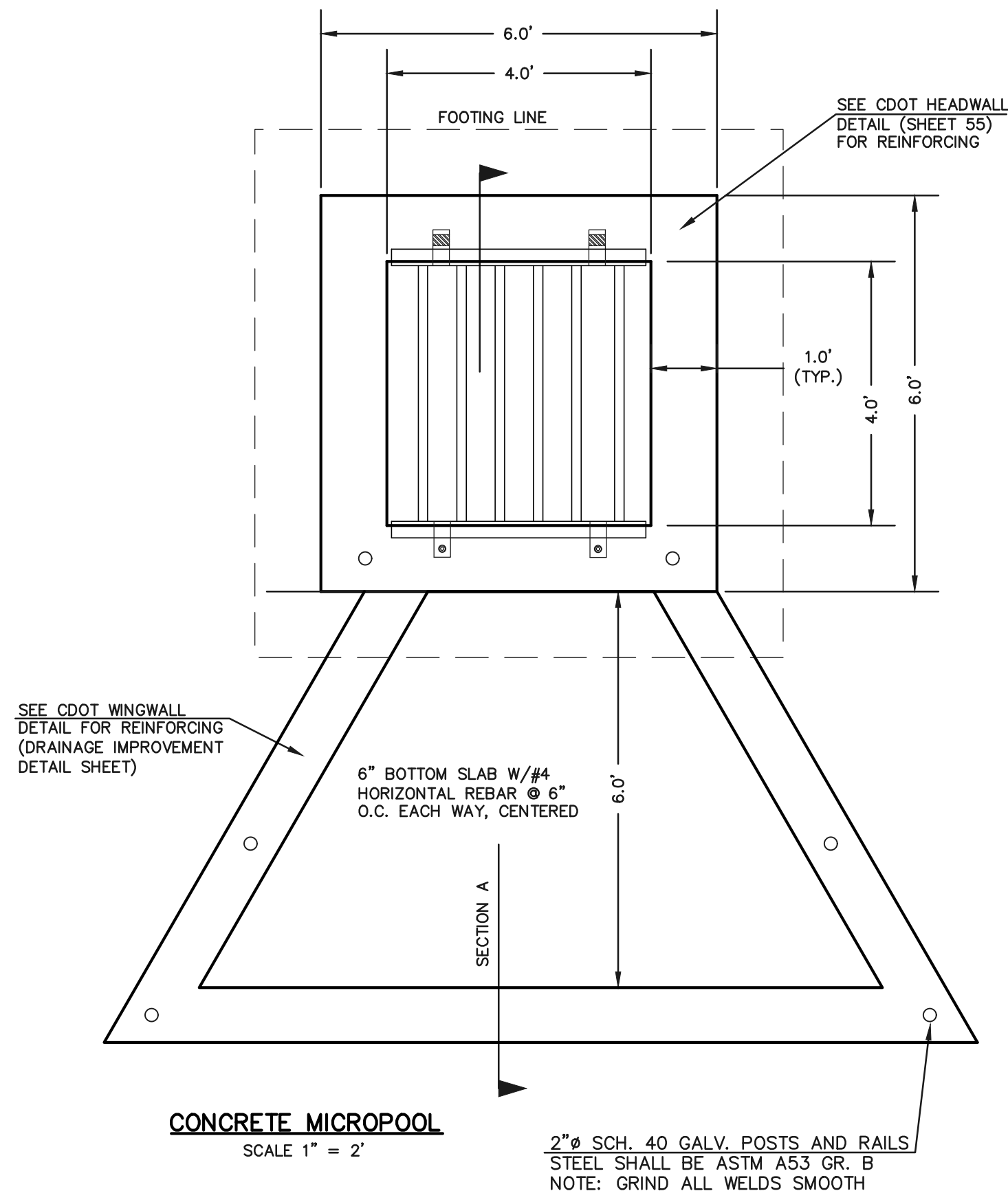
MARC A. WHORTON, COLORADO P.E. #37155 DATE



FLYING HORSE NORTH FILING NO. 1 DRAINAGE IMPROVEMENT PLANS DETENTION FACILITY NO. 1 POND PLAN			
DESIGNED BY	MAW	SCALE	DATE 12-12-17
DRAWN BY	MAW	(H) 1"= 30'	SHEET 45 OF 58
CHECKED BY		(V) 1"= 3'	JOB NO. 1096.11

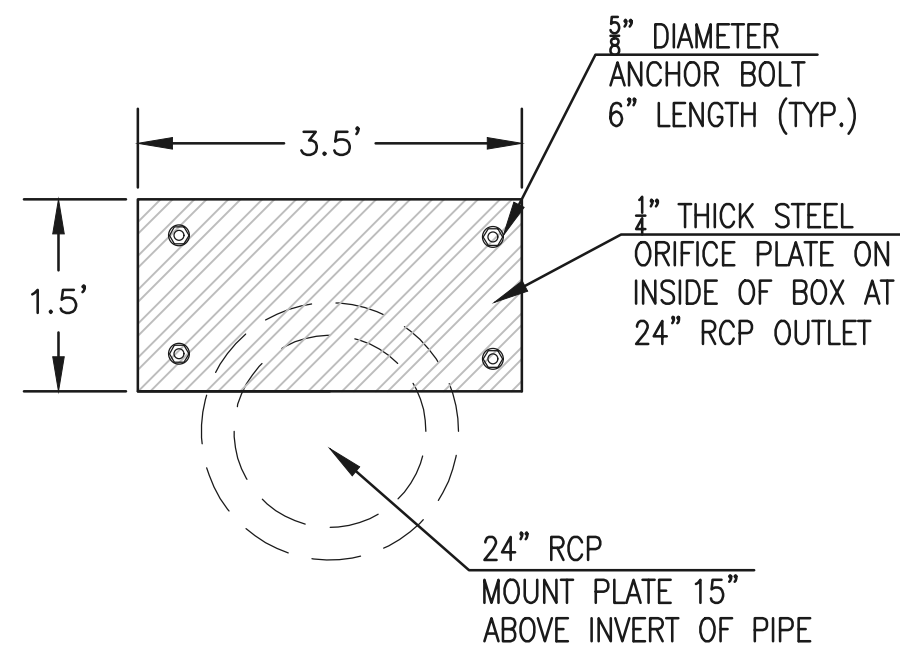
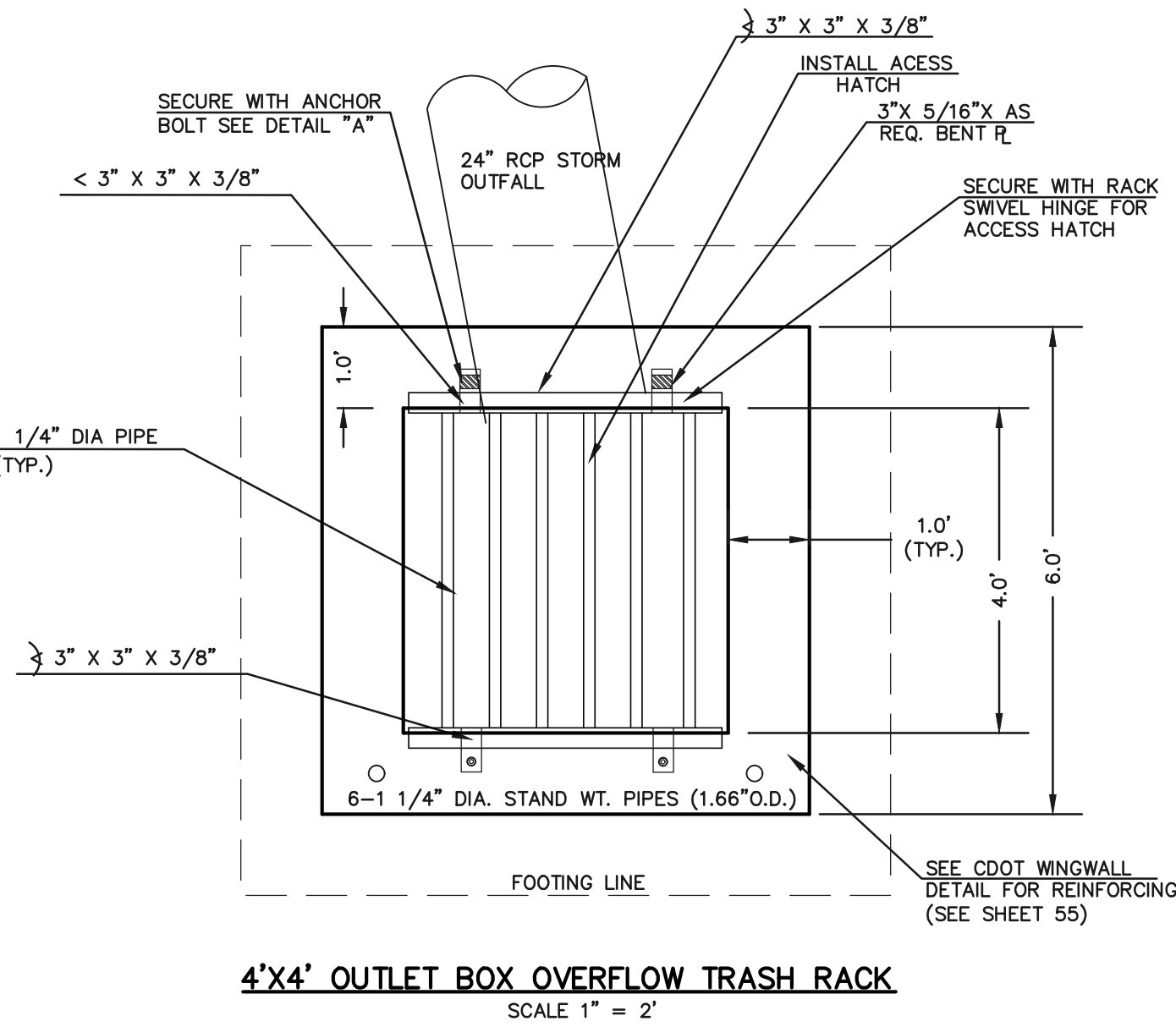


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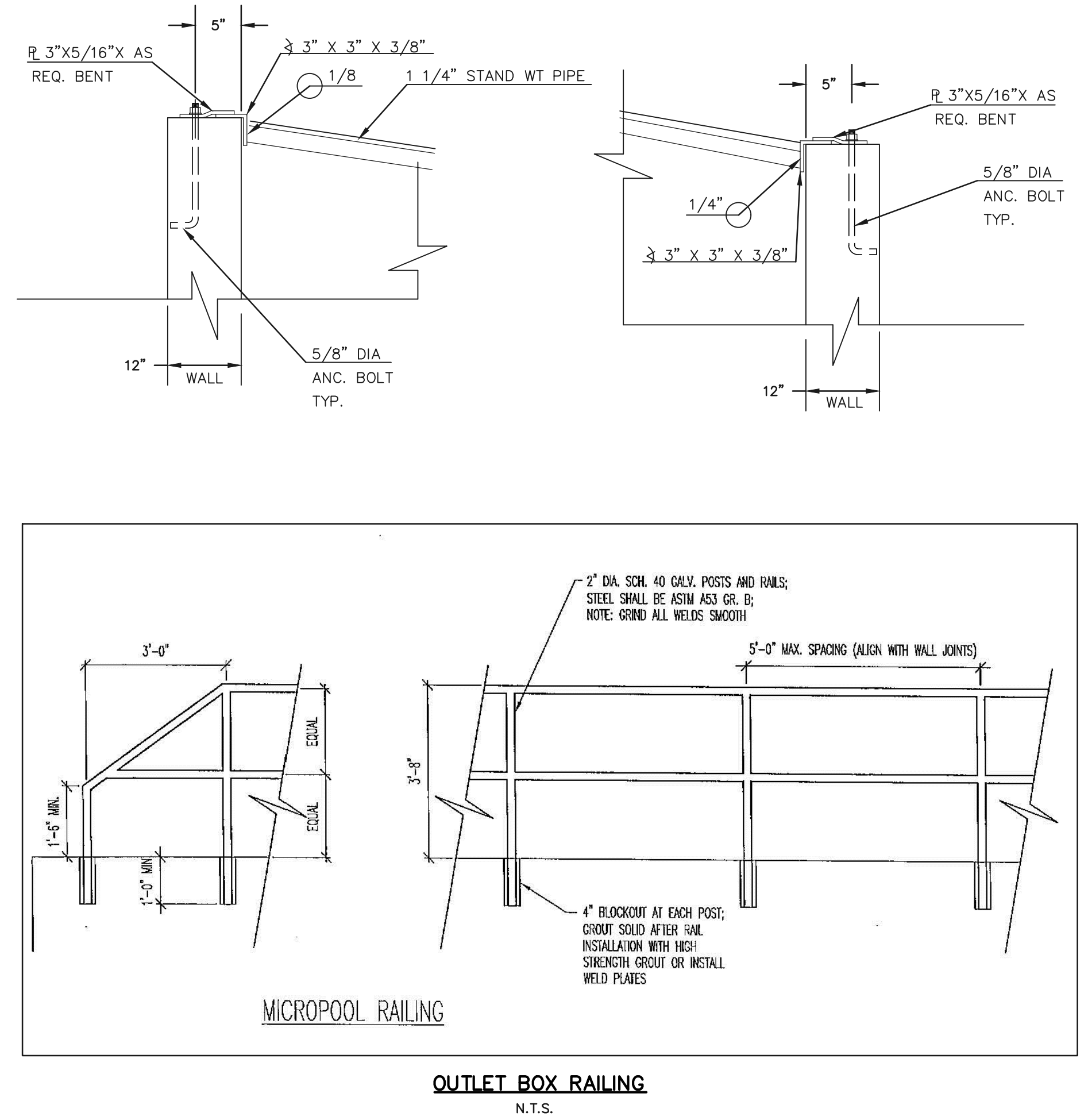
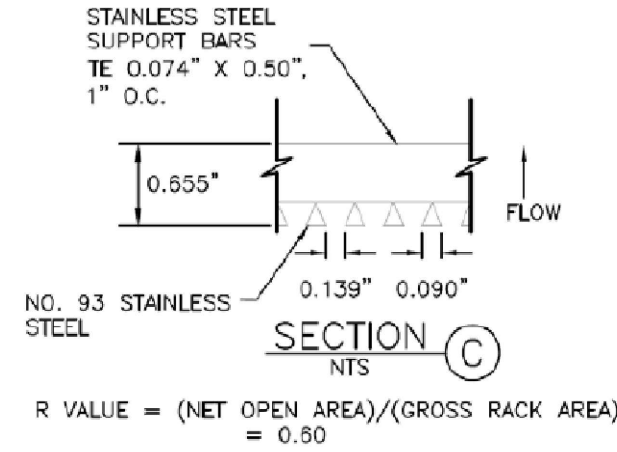
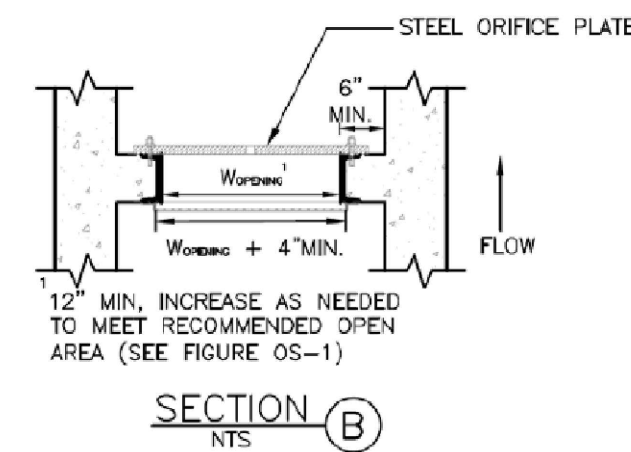
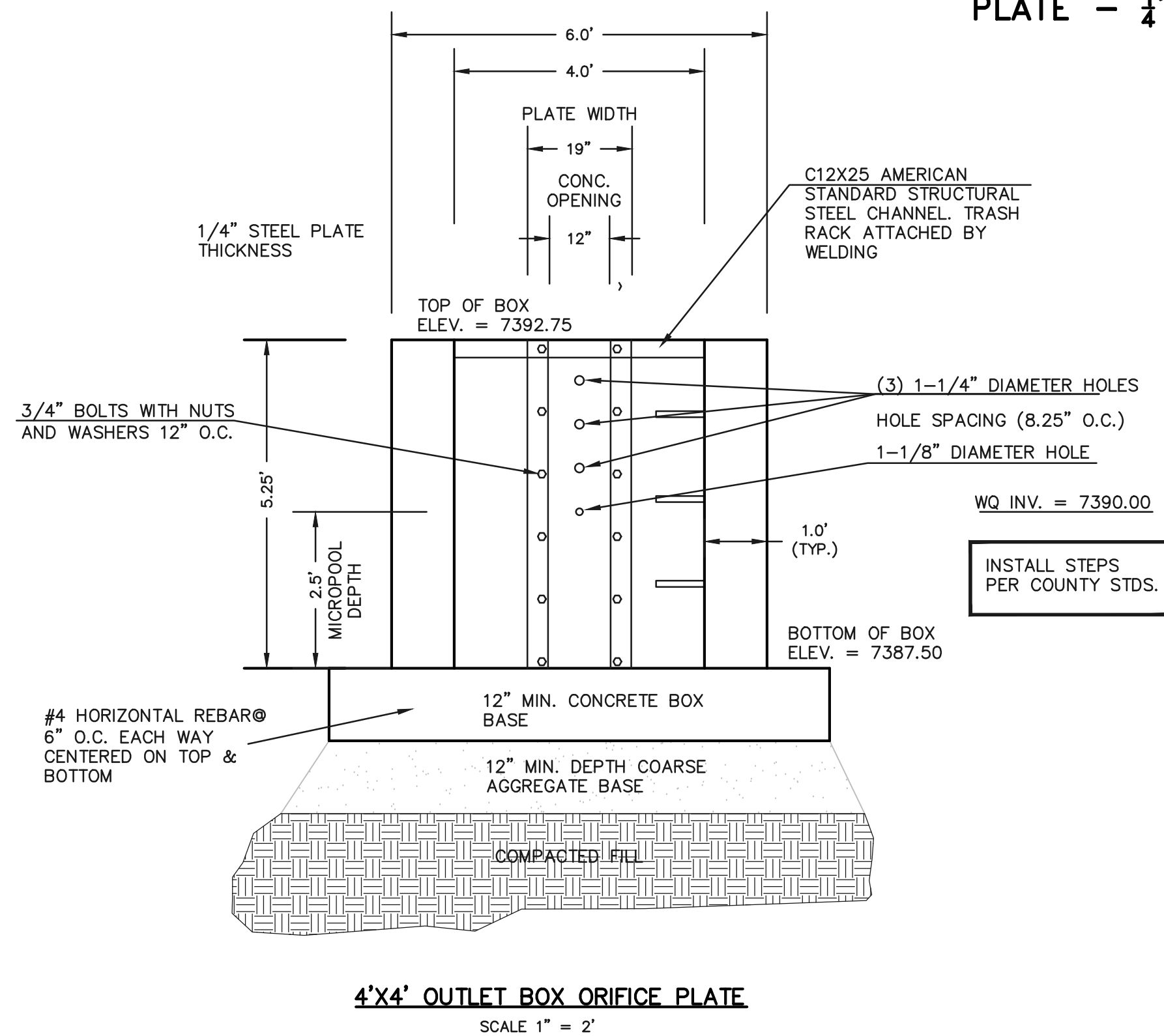


#### NOTES:

- 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.



#### OUTLET BOX ORIFICE PLATE - 1/4" STEEL



#### OUTLET BOX RAILING N.T.S.

(ALL MATERIALS PER EL PASO COUNTY SPECIFICATIONS)

#### ORIFICE PLATE NOTES:

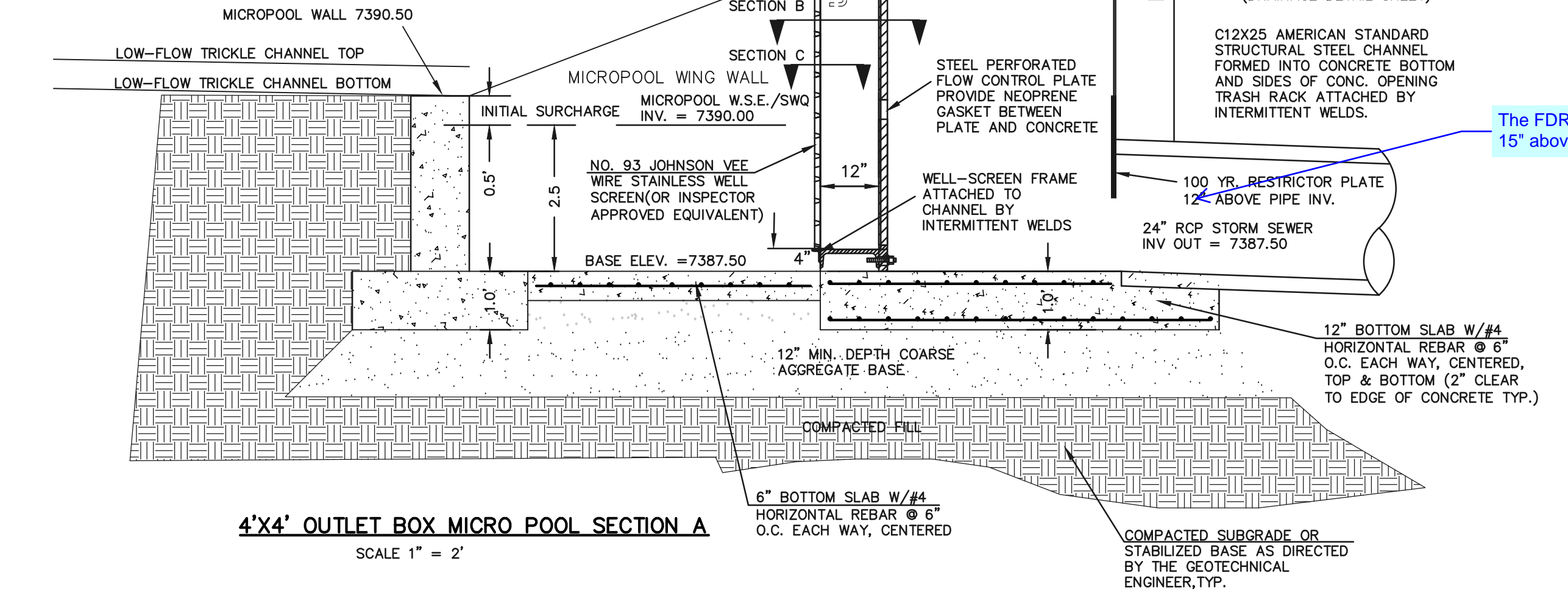
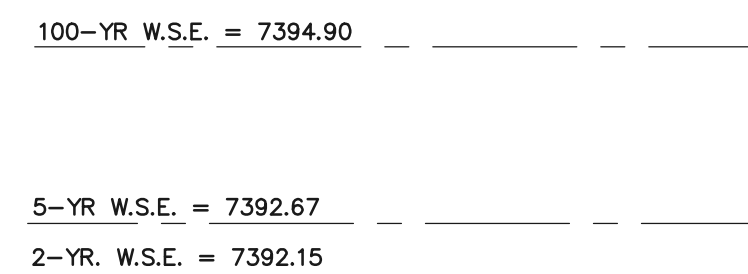
- INSTALL HOLES AS SHOWN ON DETAIL TO LEFT.
- PROVIDE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE

#### EURV AND WQCV TRASH RACKS:

- WELL-SCREEN TRASH RACKS SHALL BE STAINLESS STEEL AND SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME.
- BAR GRATE TRASH RACKS SHALL BE ALUMINUM AND SHALL BE BOLTED USING STAINLESS STEEL HARDWARE.
- STRUCTURAL DESIGN OF TRASH RACKS SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF RACK

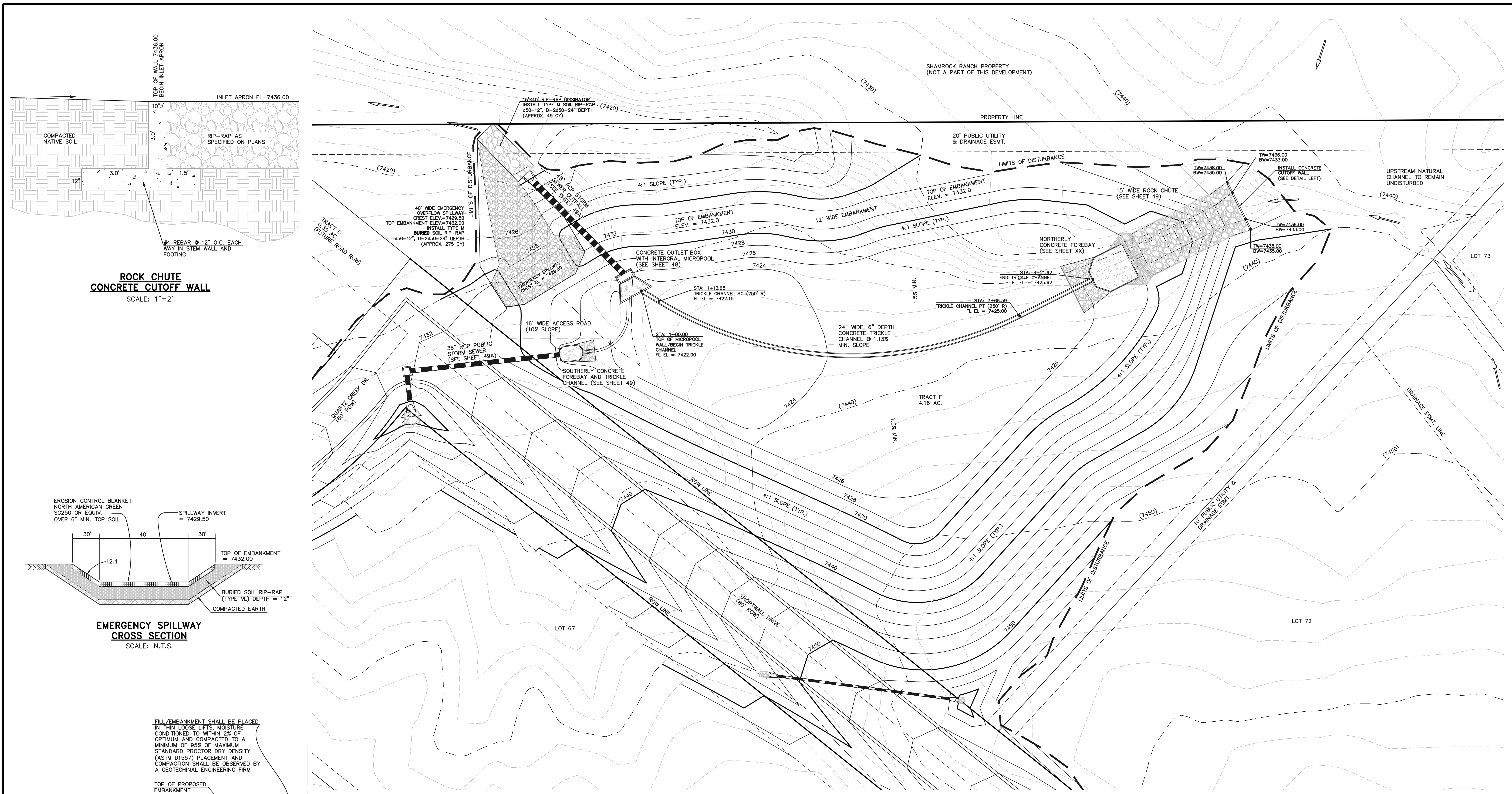
#### OVERFLOW TRASH RACKS:

- ALL TRASH RACKS SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE AND PROVIDED WITH HINGED AND LOCKABLE OR BOLTABLE ACCESS PANELS
- 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.



48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS <b>811</b> 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 1 REVISED PER COUNTY COMMENTS 2 UPDATED PER HWY. 83 IMPROVEMENTS	DATE 4-4-18 4-26-18	REVIEW: PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC  MARC A. WHORTON, COLORADO P.E. #37155	DATE
FLYING HORSE NORTH FILING NO. 1 DRAINAGE IMPROVEMENT PLANS DETENTION FACILITY NO. 1 OUTLET BOX DETAILS		DESIGNED BY MAW	SCALE (H) 1"= N/A (V) 1"= N/A	DATE 11-15-17	SHEET 46 OF 58
CLASSIC CONSULTING ENGINEERS & SURVEYORS 619 N. Cascade Avenue, Suite 200 Colorado Springs, Colorado 80903 (719) 785-0790 (719) 785-0799 (Fax)		CHECKED BY	MAW	JOB NO. 1096.11	





**ROCK CHUTE  
CONCRETE CUTOFF WALL**  
SCALE: 1"=2'

**EMERGENCY SPILLWAY  
CROSS SECTION**  
SCALE: N.T.S.

**SECTION A  
TYPICAL EMBANKMENT  
WITH SOIL KEYWAY**  
SCALE: N.T.S.

\* UPON GRUBBING EXISTING SOILS IN EMBANKMENT AREA, ENGINEER SHALL BE CONTACTED TO DETERMINE SOIL QUALITY. IF POOR PERMEABILITY IS FOUND (I.E. SANDY-SILT) ONLY TOP 2' X 14' PORTION OF EMBANKMENT KEY IS REQUIRED FOR CONSTRUCTION.

**DETENTION FACILITY NO. 4**  
**NORTHERLY TRICKLE CHANNEL  
TYPICAL SECTION**  
N.T.S.

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**811**  
UTILITY NOTIFICATION CENTER OF COLORADO  
IT'S THE LAW

NO.	REVISION	DATE
1	REVISED PER COUNTY COMMENTS	4-4-18

REVIEW:  
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF  
CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC  
MARC A. WHORTON, COLORADO P.E. #37155 DATE

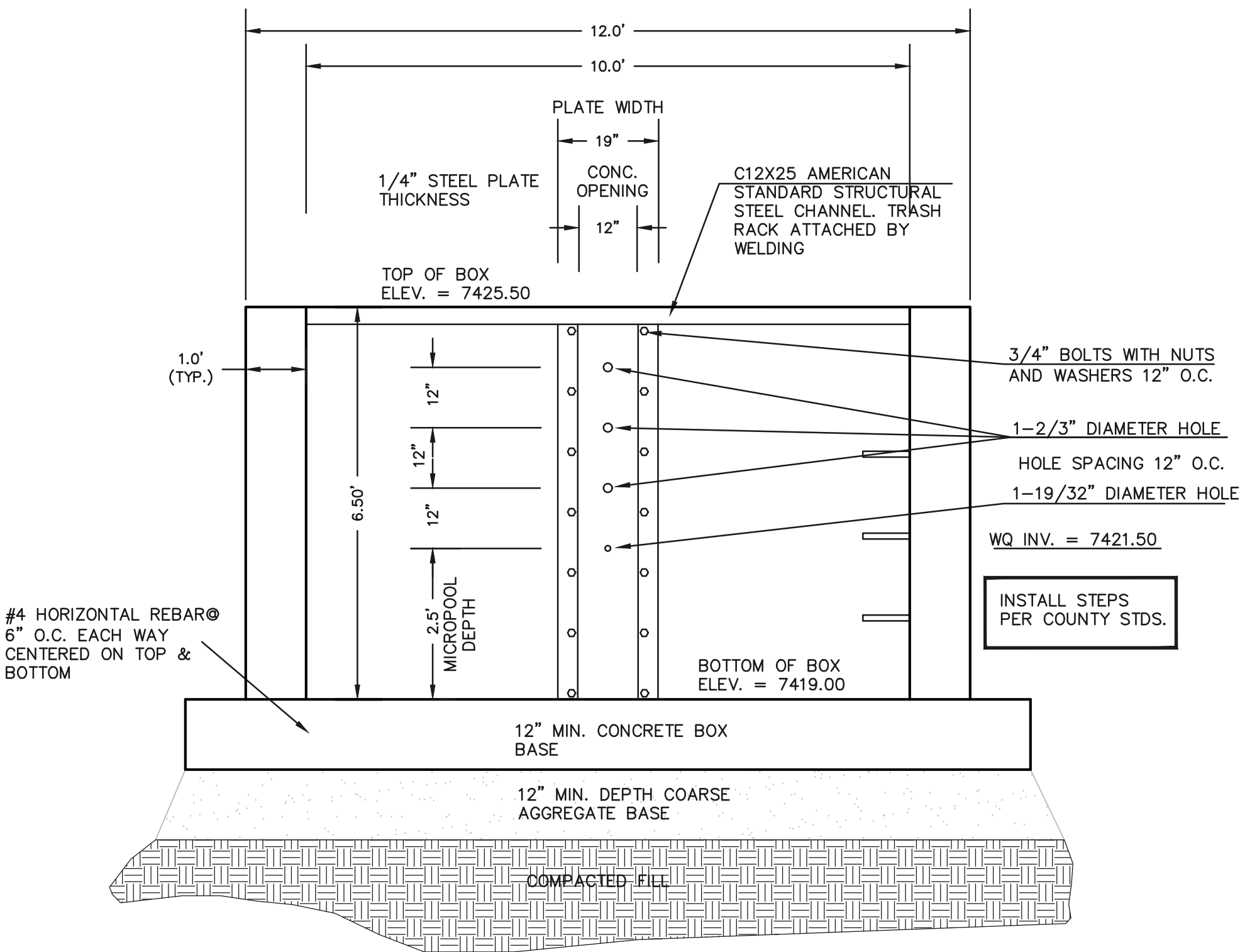
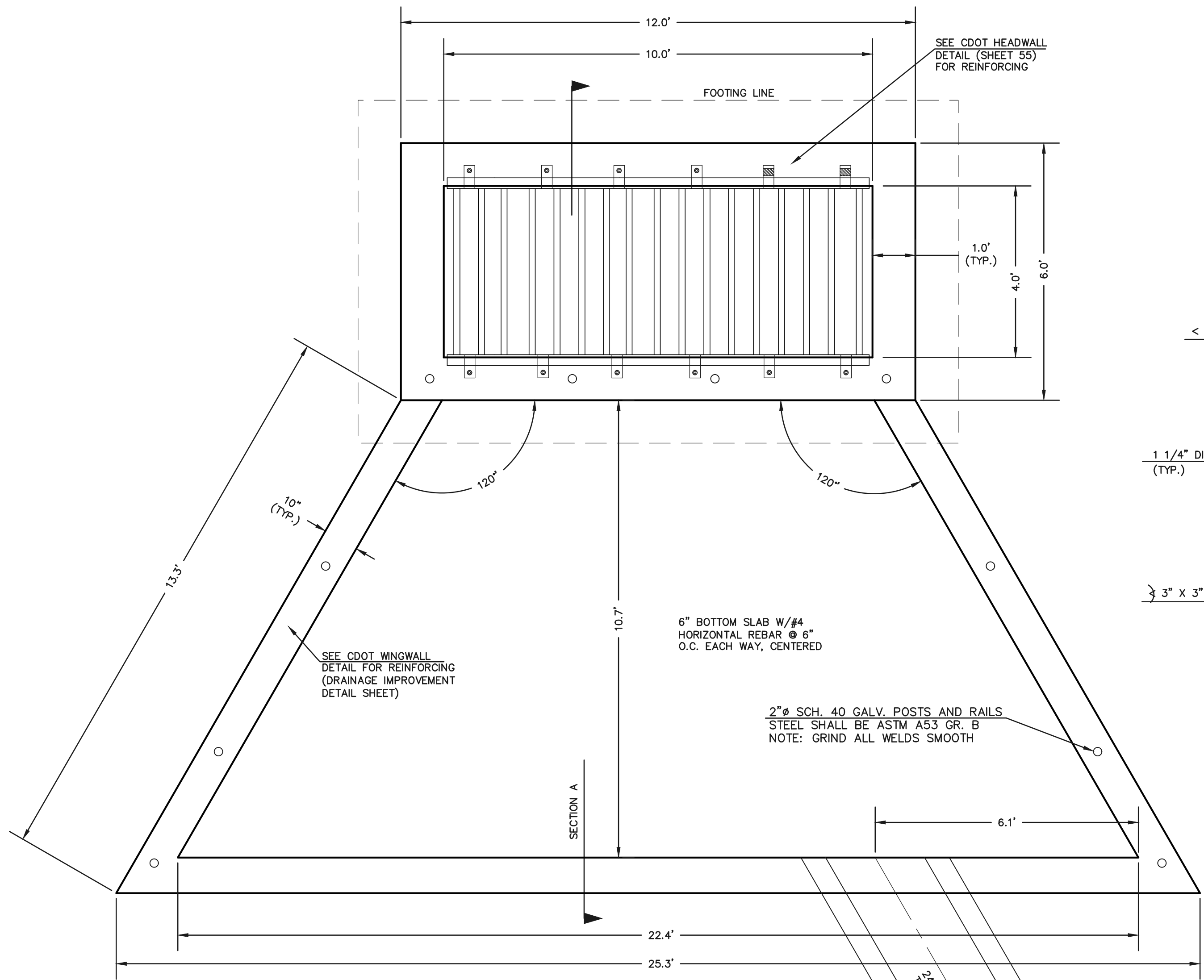
**CLASSIC**  
CONSULTING  
ENGINEERS & SURVEYORS

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

FLYING HORSE NORTH FILING NO. 1 DRAINAGE IMPROVEMENT PLANS DETENTION FACILITY NO. 4 POND PLAN			
DESIGNED BY	MAW	SCALE	DATE 07-18-17
DRAWN BY	MAW	(H) 1"= 30'	SHEET 47 OF 58
CHECKED BY		(V) 1"= N/A	JOB NO. 1096.11

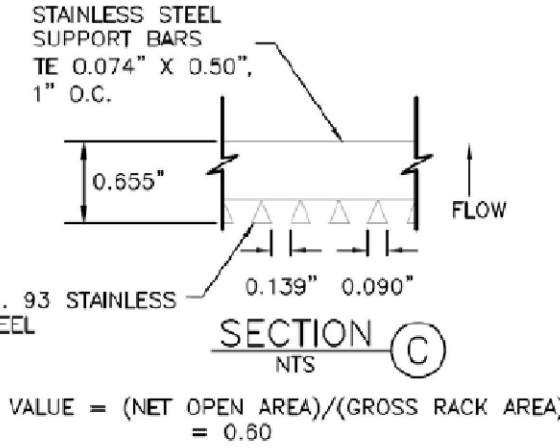
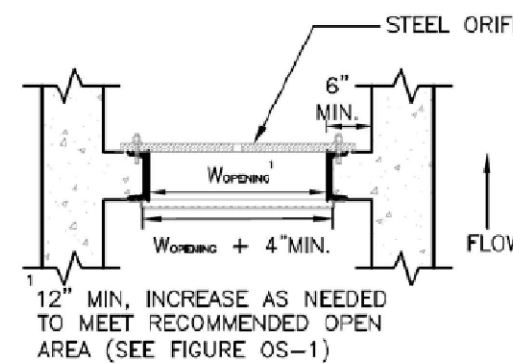
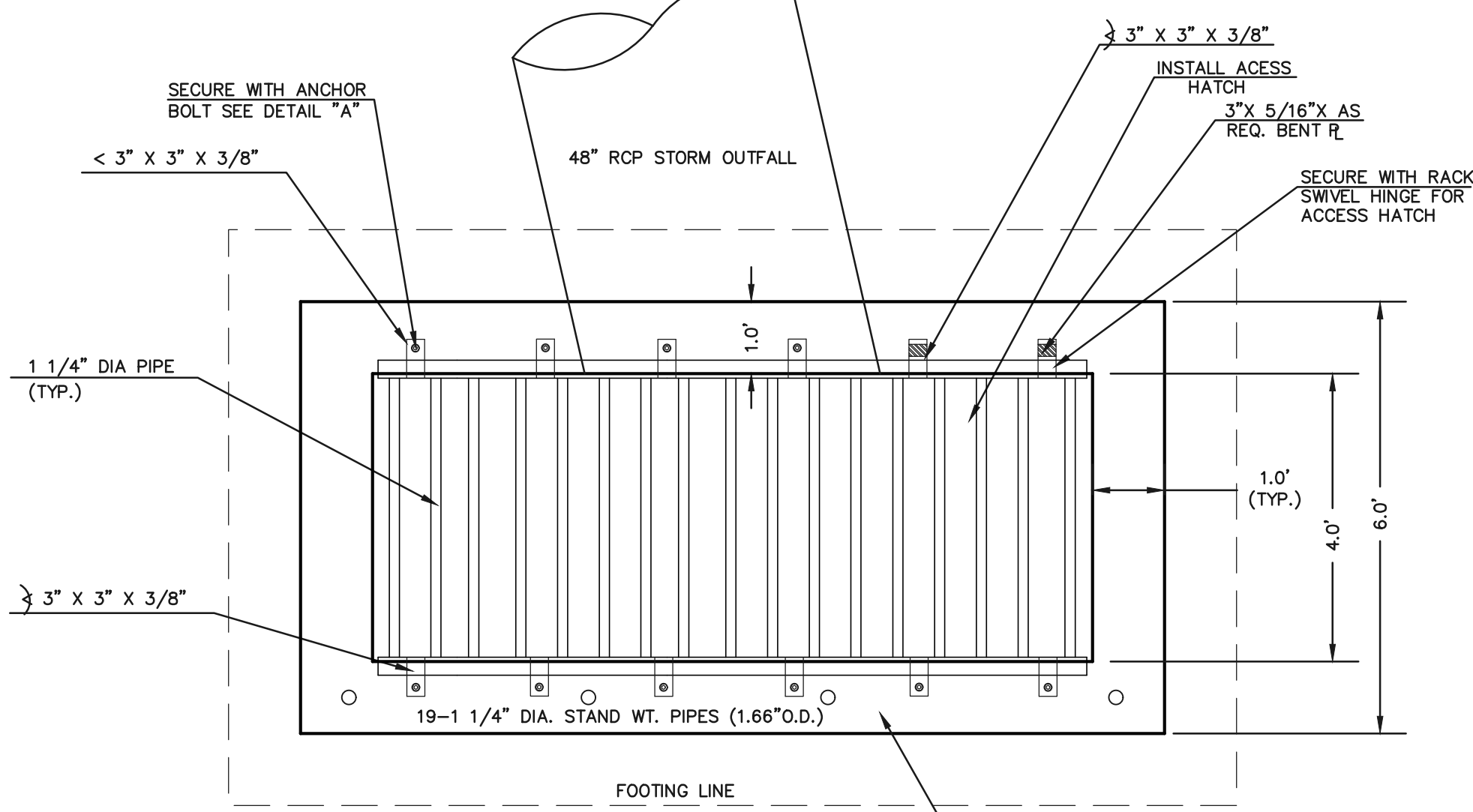
SEE FLYING HORSE NORTH EARLY  
GRADING AND EROSION CONTROL PLAN  
(GOLF COURSE AND PRIVATE ACCESS  
ROADS ONLY) FOR EROSION CONTROL  
DETAILS. APPROVED OCTOBER 2016

30 15 0 30 60  
SCALE: 1" = 30'



NOTES:

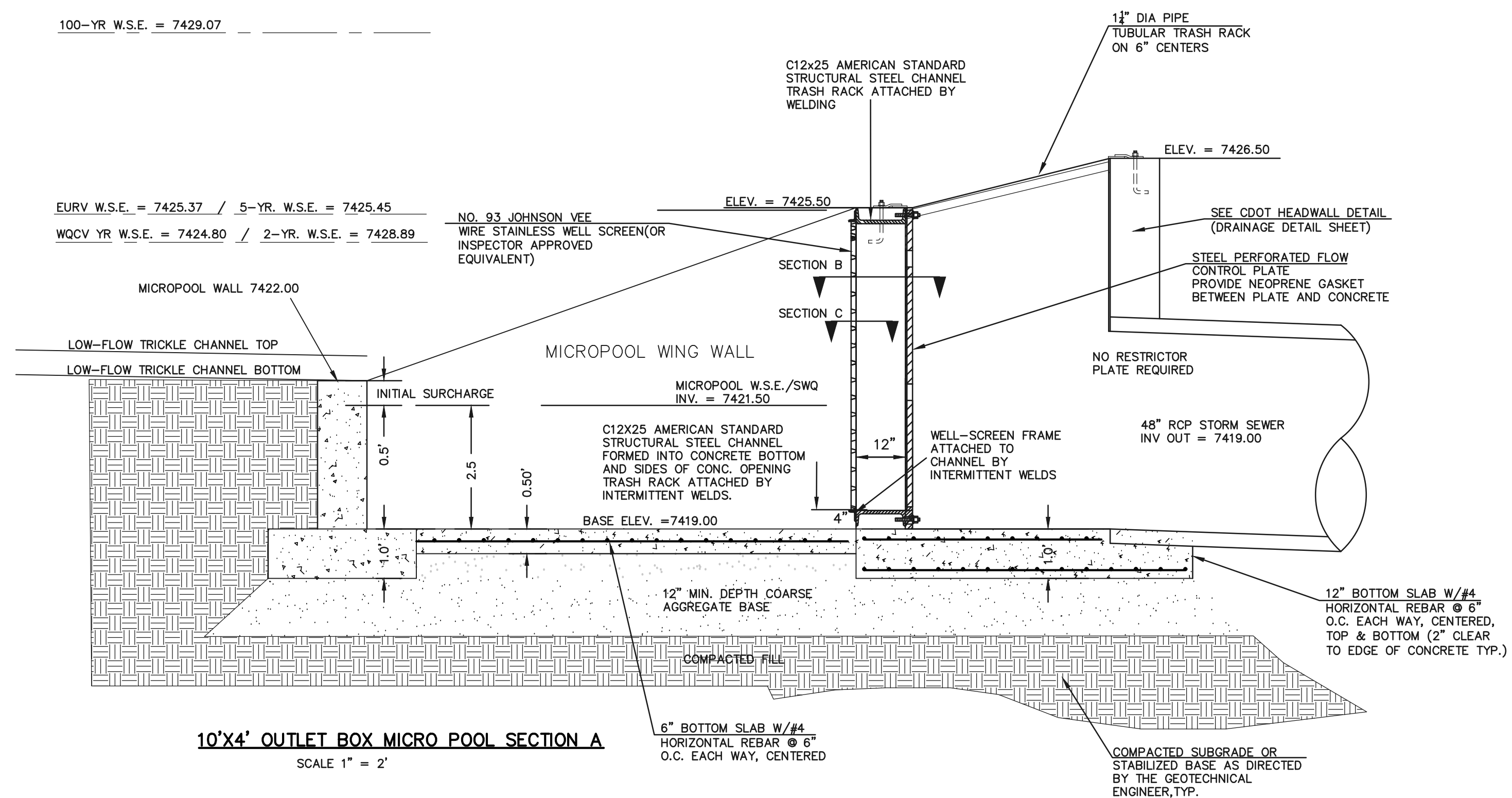
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2. DESIGN CRITERIA SHALL BE IN ACCORDANCE WITH AASHTO STANDARDS.
3. HANDRAIL DESIGN SHALL BE COMPATIBLE WITH THE DESIGN OF THE WINGWALLS AND HEADWALLS.
4. RAILING POSTS SHALL BE SET TO NORMAL TO GRADE. RAILS SHALL RUN PARALLEL TO THE SLOPES OF TOPS OF THE WALLS.
5. ALL RAILS SHALL HAVE EXPANSION JOINTS SPACED AT 40'-0" MAX. JOINT ENDS SHALL BE FREE OF ANY SHARP EDGES OR CORNERS.



100-YR W.S.E. = 7429.07

EURV W.S.E. = 7425.37 / 5-YR W.S.E. = 7425.45  
WQCV YR W.S.E. = 7424.80 / 2-YR W.S.E. = 7428.89

NO. 93 JOHNSON VEE WIRE STAINLESS WELL SCREEN (OR INSPECTOR APPROVED EQUIVALENT)



(ALL MATERIALS PER EL PASO COUNTY SPECIFICATIONS)

ORIFICE PLATE NOTES:

1. INSTALL HOLES AS SHOWN ON DETAIL TO LEFT.
2. PROVIDE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE

EURV AND WQCV TRASH RACKS:

3. WELL-SCREEN TRASH RACKS SHALL BE STAINLESS STEEL AND SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME.
4. BAR GRATE TRASH RACKS SHALL BE ALUMINUM AND SHALL BE BOLTED USING STAINLESS STEEL HARDWARE.
5. STRUCTURAL DESIGN OF TRASH RACKS SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF RACK

OVERFLOW TRASH RACKS:

1. ALL TRASH RACKS SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE AND PROVIDED WITH HINGED AND LOCKABLE OR BOLTABLE ACCESS PANELS
2. 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.
3. TRASH RACKS SHALL BE DESIGNED SUCH THAT THE DIAGONAL DIMENSION OF EACH OPENING IS SMALLER THAN THE DIAMETER OF THE OUTLET PIPE.
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48 HOURS BEFORE YOU DIG,  
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**811**

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IT'S THE LAW

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NO. REVISION

DATE

1 REVISED PER COUNTY COMMENTS

4-4-18

REVIEW:

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

MARC A. WHORTON, COLORADO P.E. #37155

DATE



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

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

FLYING HORSE NORTH FILING NO. 1  
DRAINAGE IMPROVEMENT PLANS

DETENTION FACILITY NO. 4

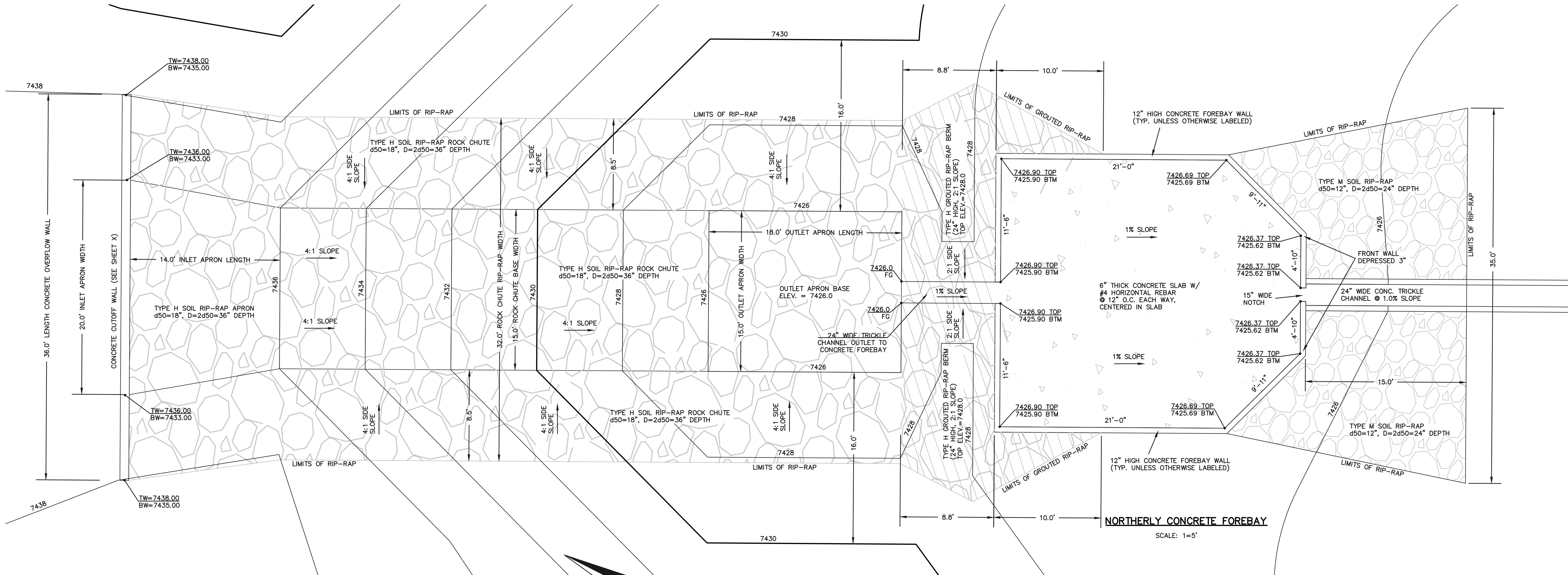
OUTLET BOX DETAILS

DESIGNED BY	MAW	SCALE	DATE	11-15-17
DRAWN BY	MAW	(H) 1" = N/A	SHEET	48 OF 58
CHECKED BY		(V) 1" = N/A	JOB NO.	1096.11

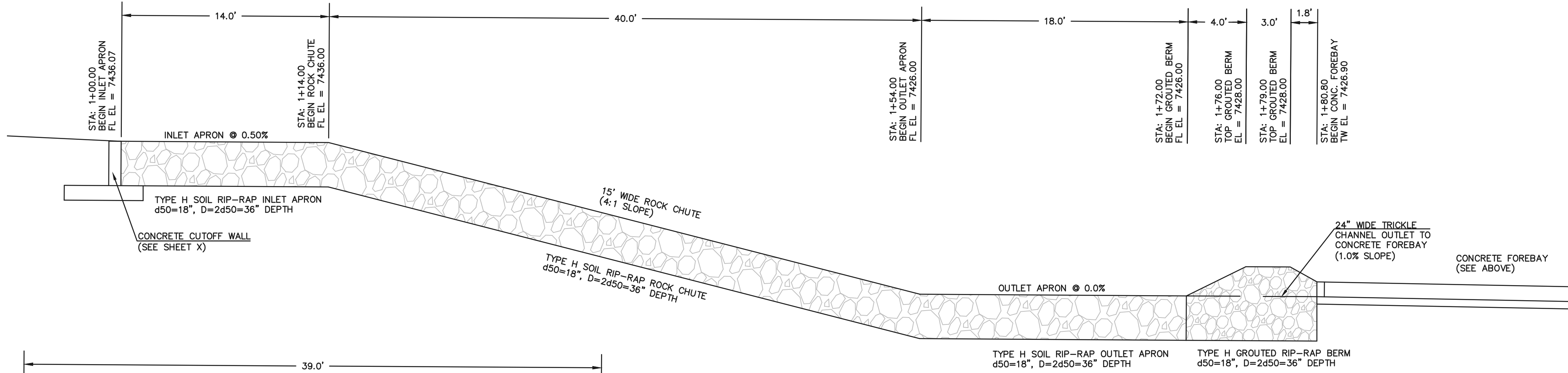




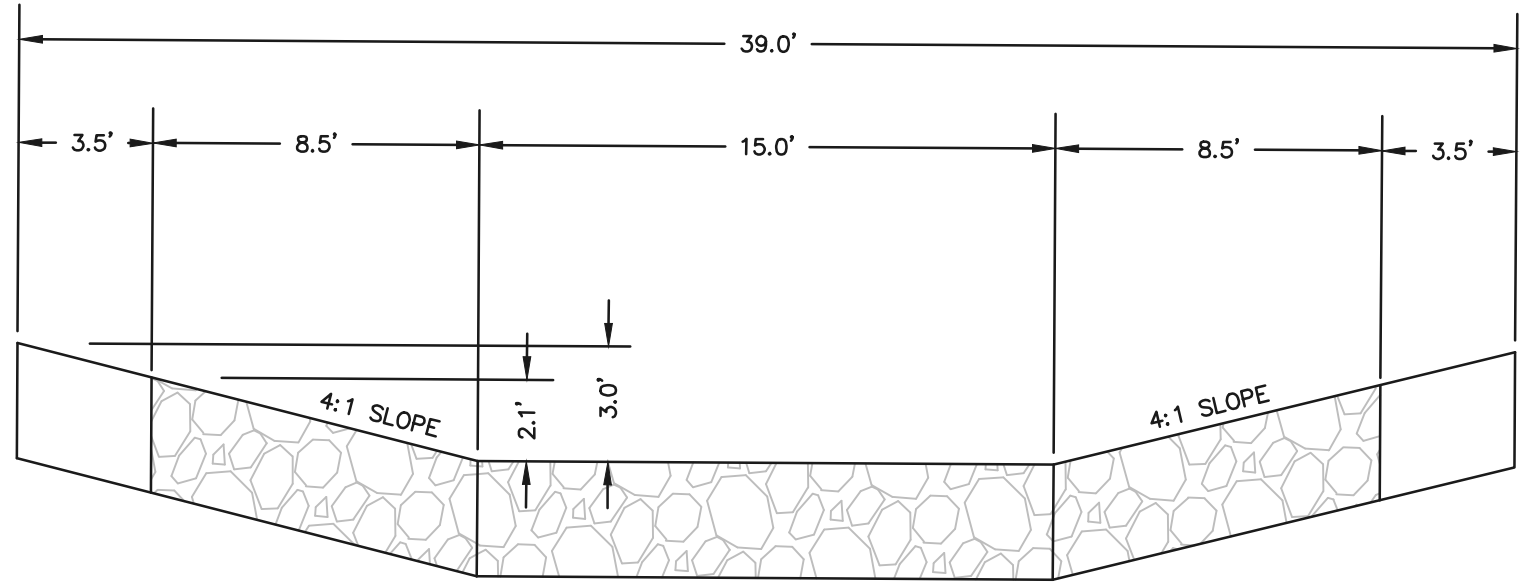
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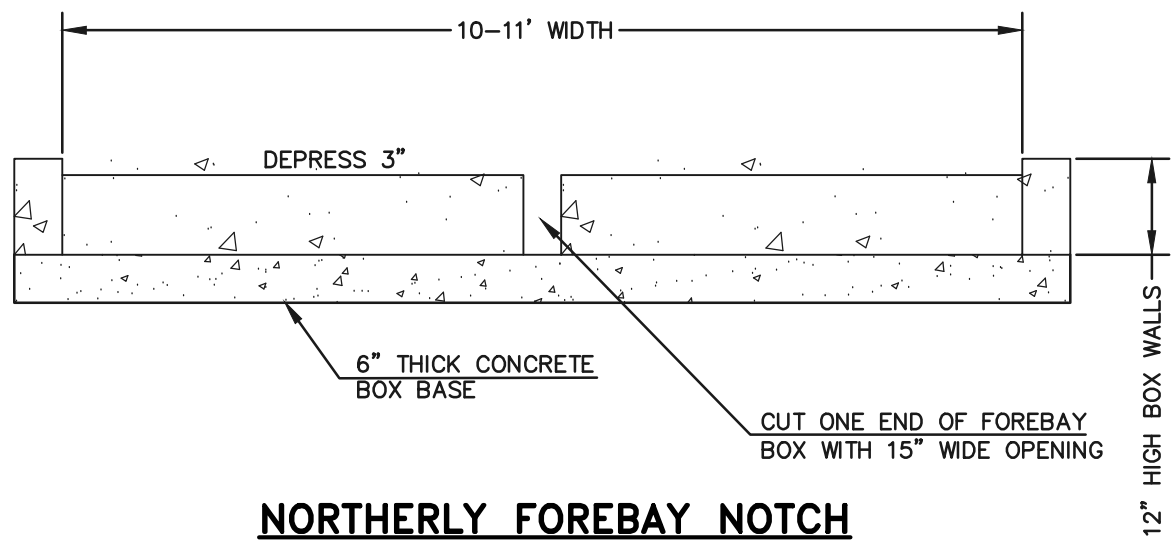
15' WIDE ROCK CHUTE PLAN  
SCALE: 1=5'



15' WIDE ROCK CHUTE PROFILE  
SCALE: 1=5'



15' WIDE ROCK CHUTE SECTION  
SCALE: 1=5'



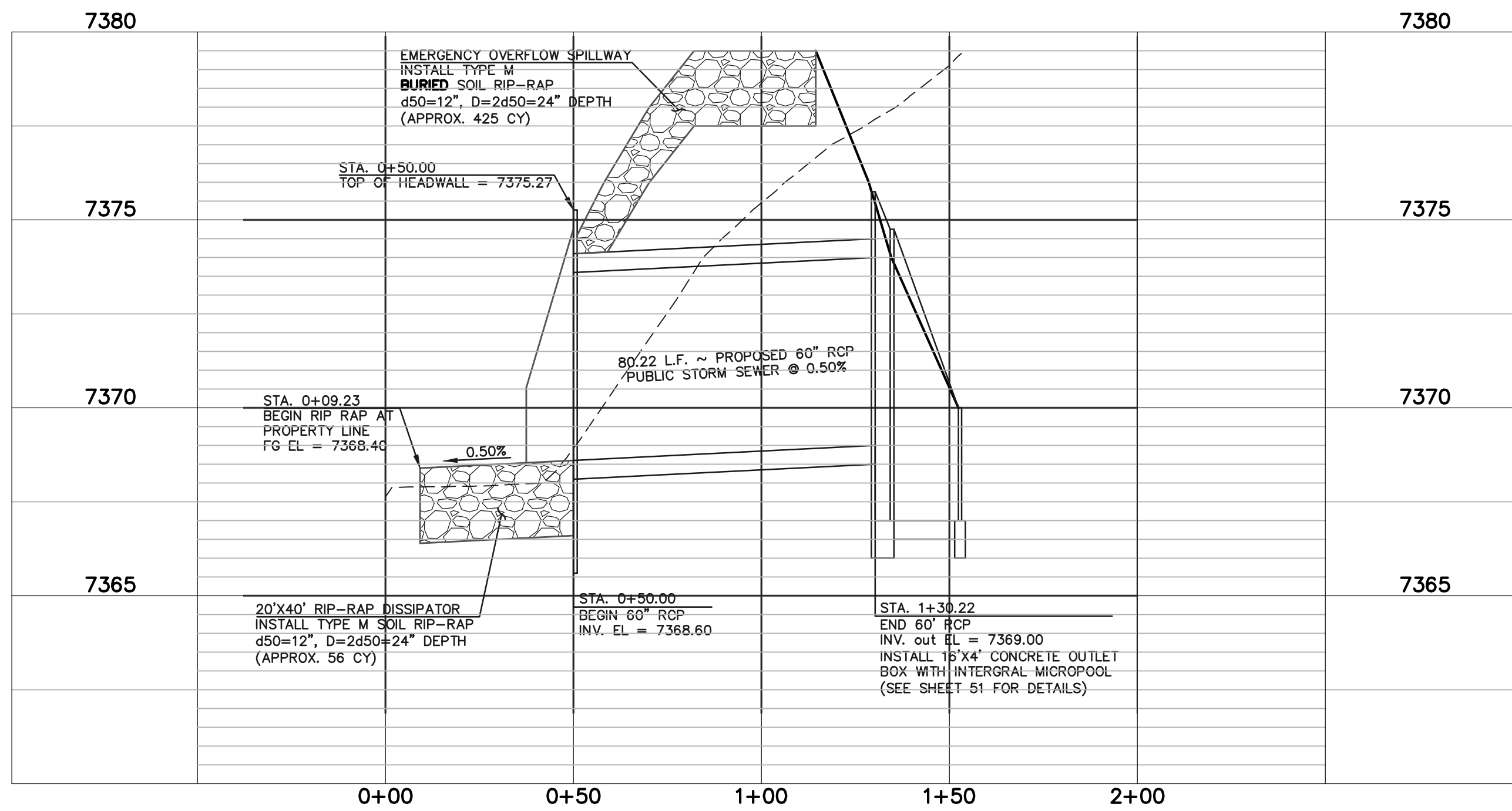
NORTHERLY FOREBAY NOTCH  
N.T.S

48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS <b>811</b> 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 MARC A. WHORTON, COLORADO P.E. #37155 DATE		 619 N. Cascade Avenue, Suite 200 Colorado Springs, Colorado 80903 (719)785-0790 (719)785-0799(Fax)	FLYING HORSE NORTH FILING NO. 1 DRAINAGE IMPROVEMENT PLANS DETENTION FACILITY NO. 4 ROCK CHUTE / NORTHERLY FOREBAY		
							DESIGNED BY MAW SCALE (H) 1"= 2' (V) 1"= N/A	DATE 10-20-17 SHEET 49 OF 58 JOB NO. 1096.11	

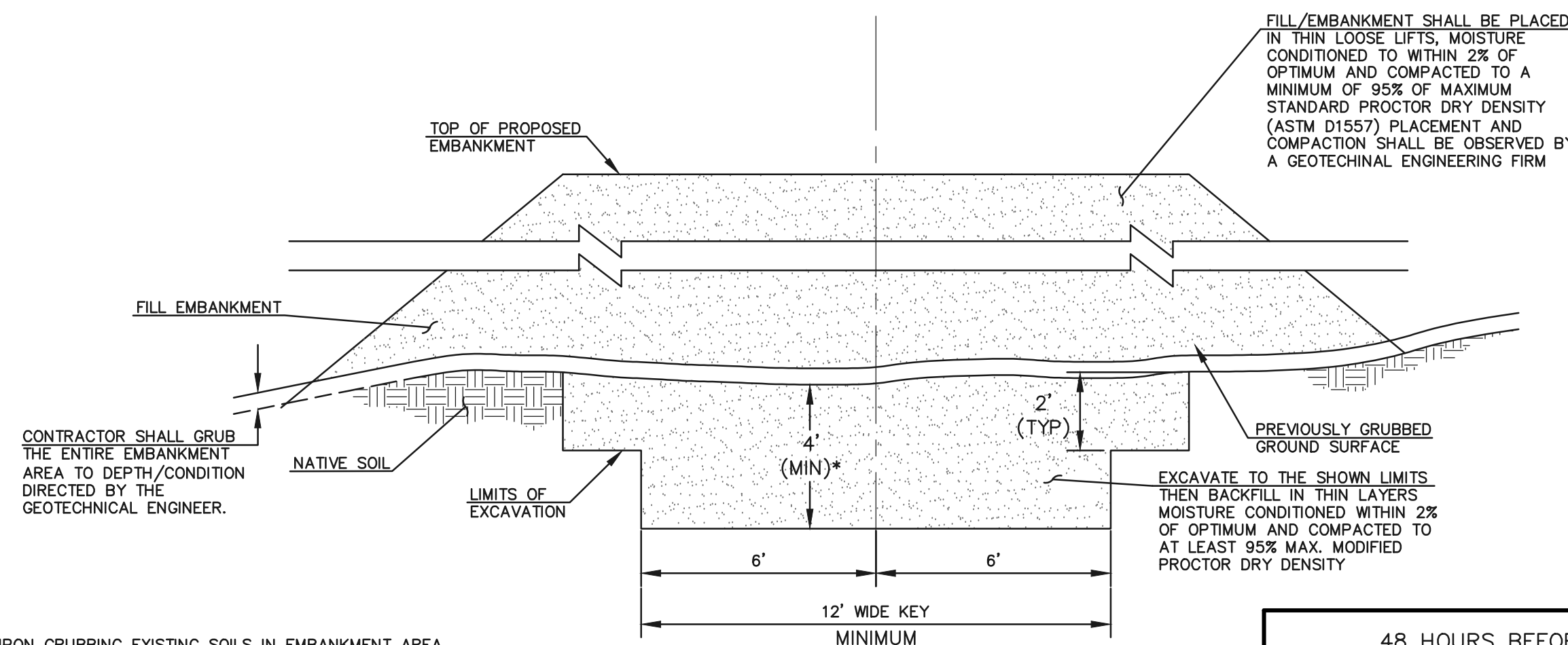
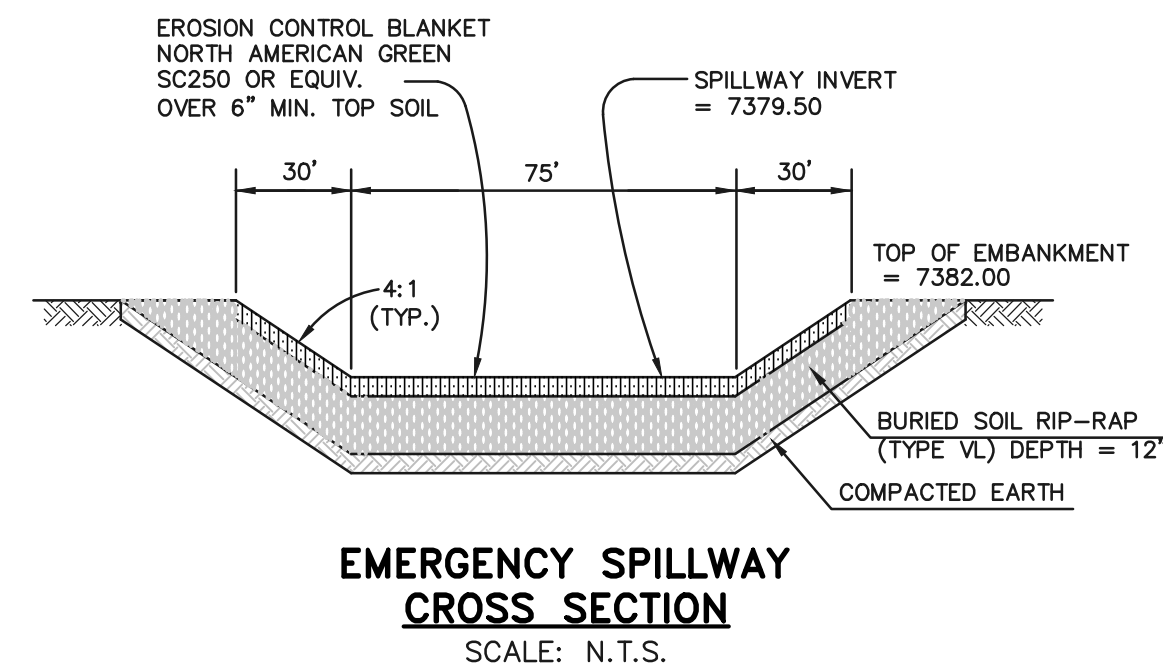
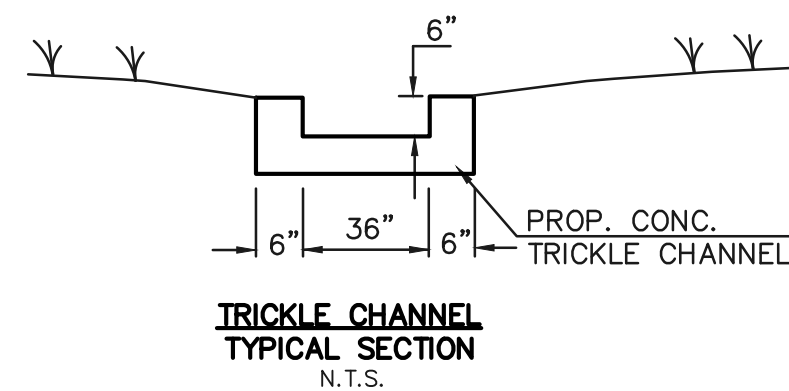


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DETENTION FACILITY NO. 8  
POND OUTLET PROFILE  
SCALE: HORIZONTAL 1"=30'  
VERTICAL 1"=3'



\* UPON GRUBBING EXISTING SOILS IN EMBANKMENT AREA, ENGINEER SHALL BE CONTACTED TO DETERMINE SOIL QUALITY. IF POOR PERMEABILITY IS FOUND (I.E. SANDY-SILT) ONLY TOP 2' X 14' PORTION OF EMBANKMENT KEY IS REQUIRED FOR CONSTRUCTION.

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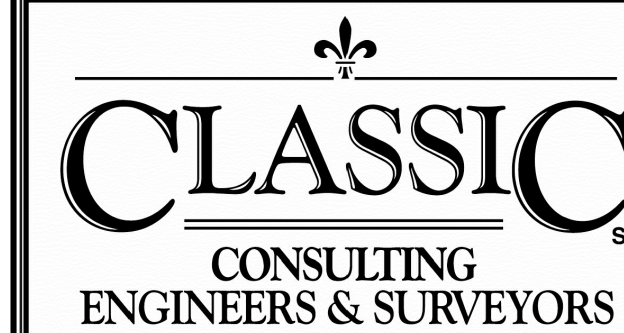
NO.	REVISION	DATE
1	REVISED PER COUNTY COMMENTS	4-4-18

REVIEW:

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

MARC A. WHORTON, COLORADO P.E. #37155

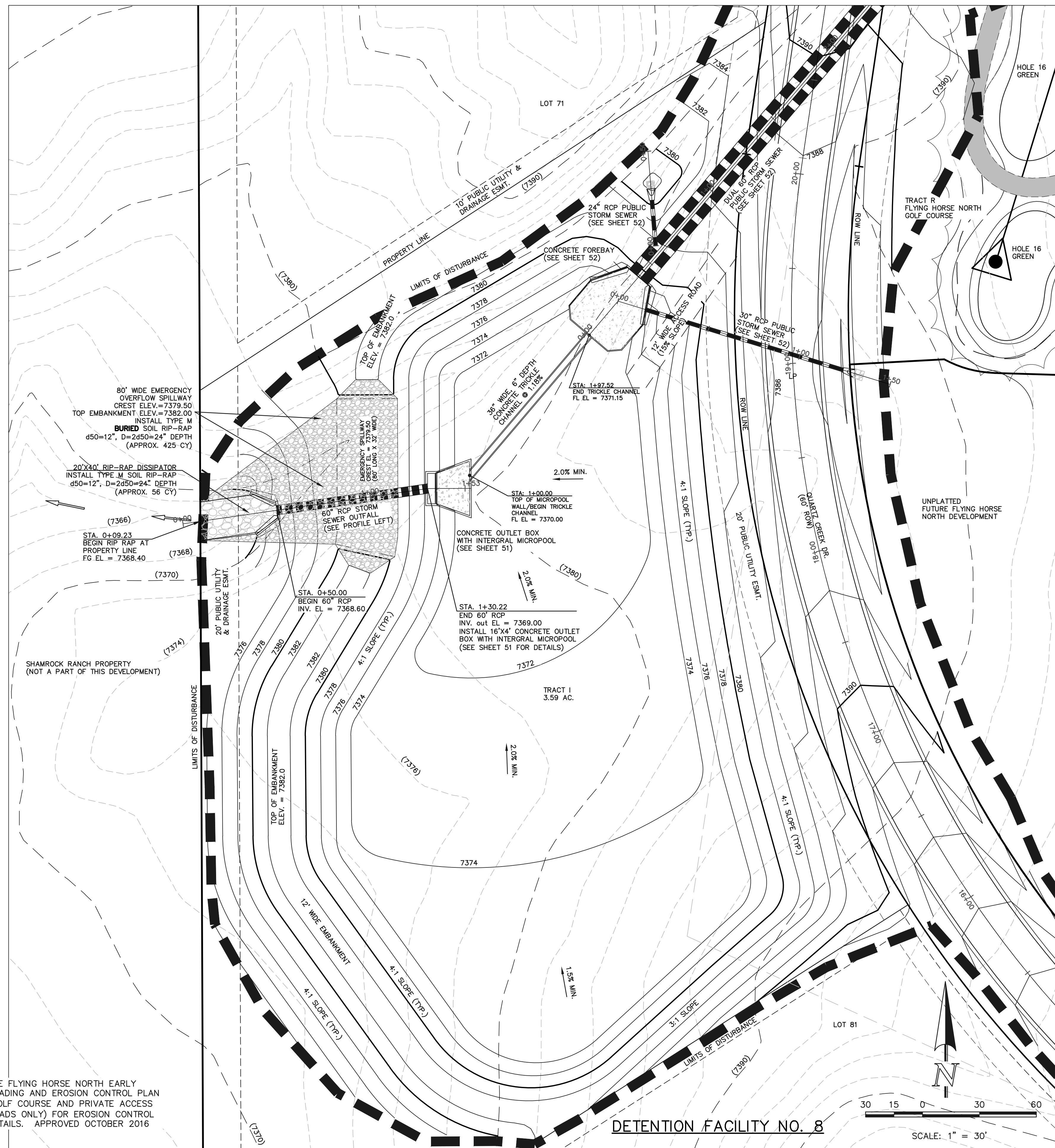
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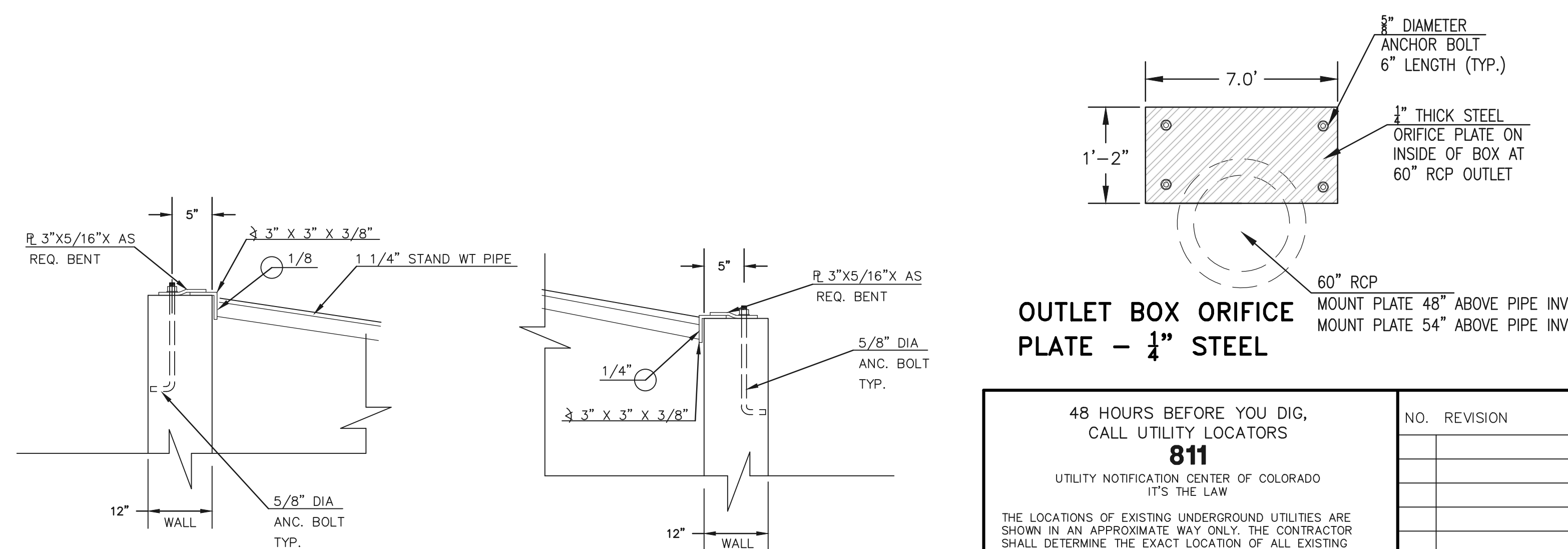
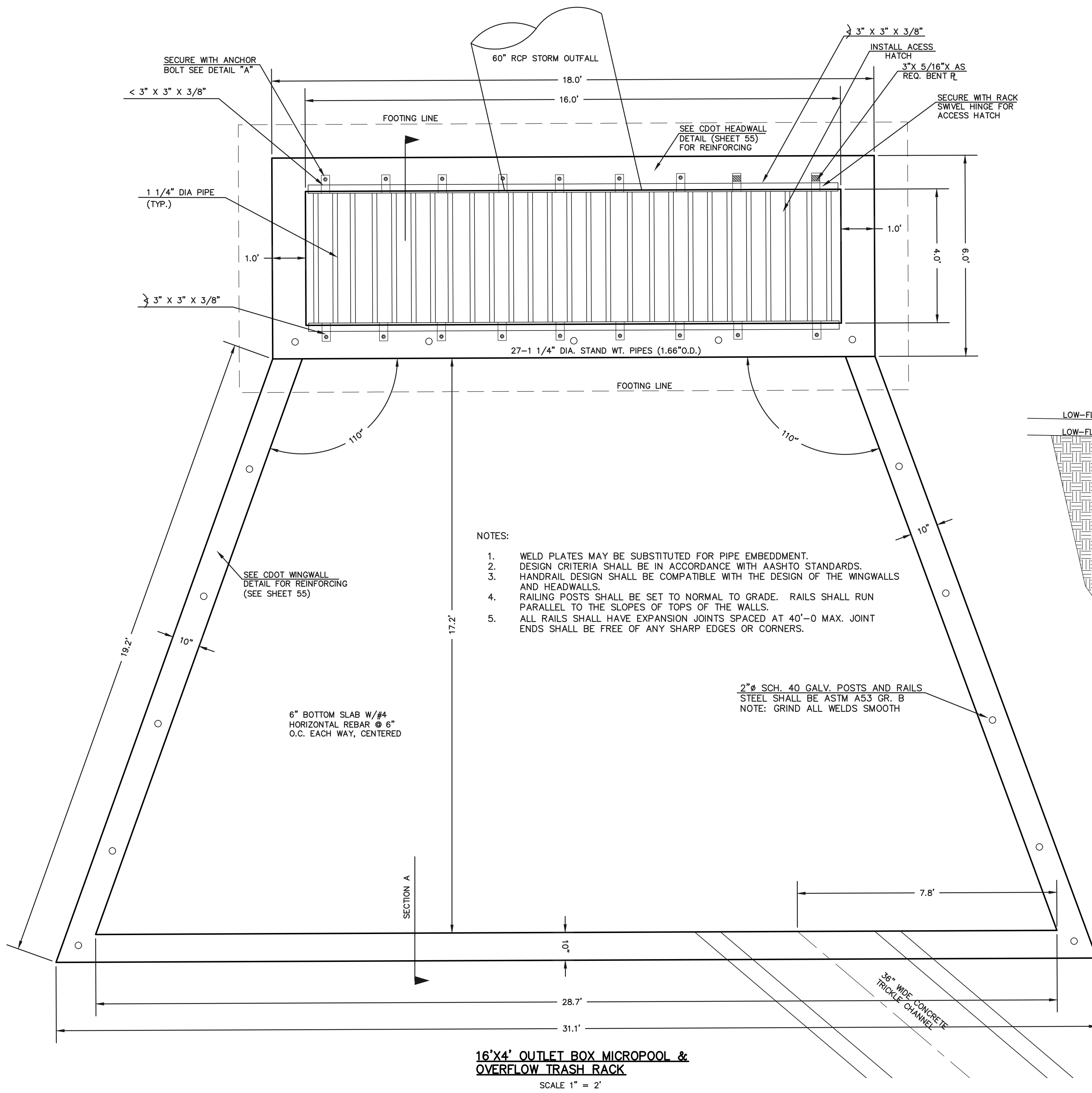
619 N. Cascade Avenue, Suite 200  
Colorado Springs, Colorado 80903  
(719) 785-0790  
(719) 785-0799 (Fax)

FLYING HORSE NORTH FILING NO. 1  
DRAINAGE IMPROVEMENT PLANS  
DETENTION FACILITY NO. 8  
POND PLAN

DESIGNED BY	MAW	SCALE	DATE	12-4-17
DRAWN BY	MAW	(H) 1"= 30'	SHEET	50 OF 58
CHECKED BY	(V) 1"= N/A	JOB NO.	1096.11	



N:\120811\DRAWINGS\CONSTRUCTION\Road Plans\51-POND 8 OUTLET DETAILS.dwg, 5/17/2018 7:48:08 AM, 1:1

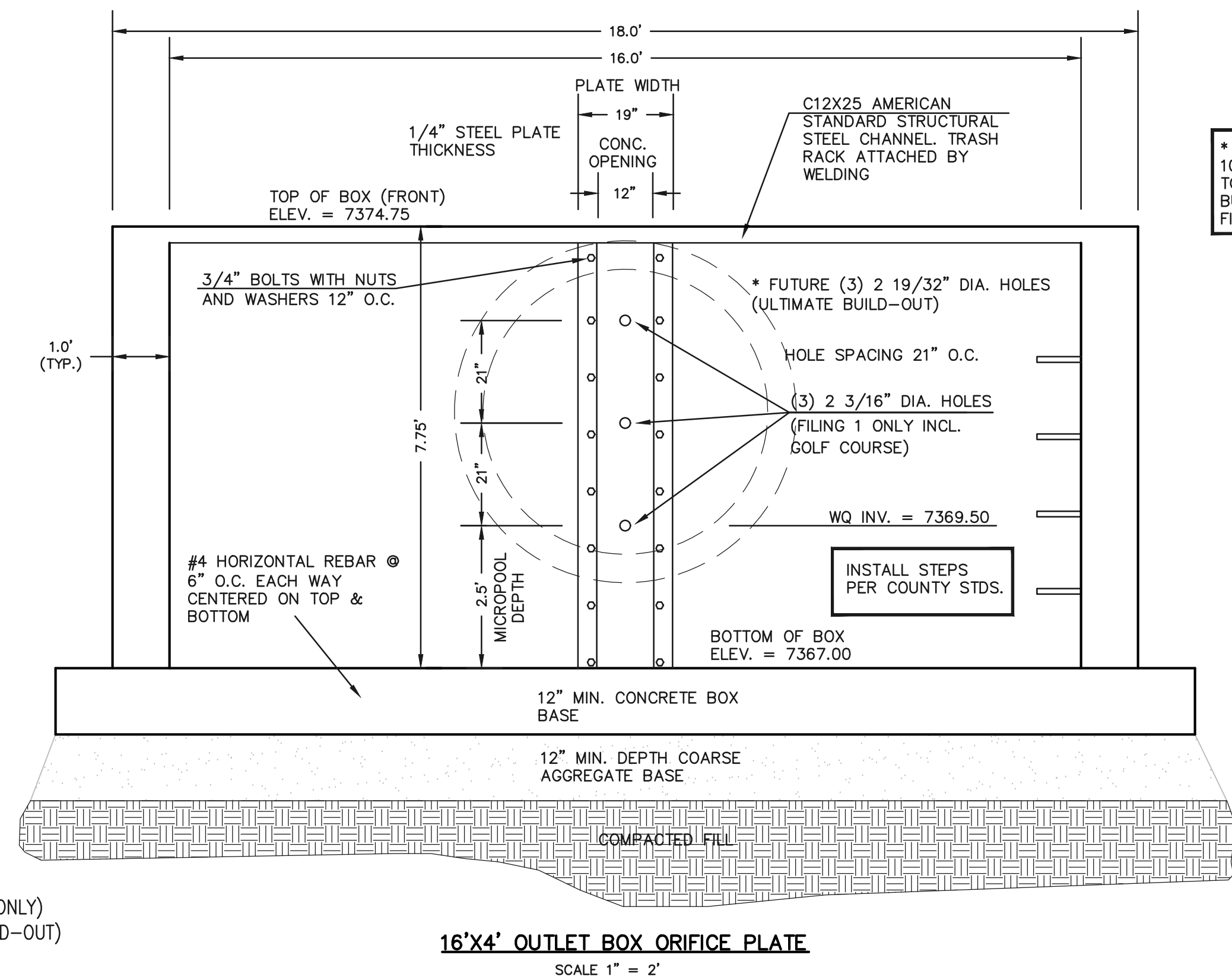
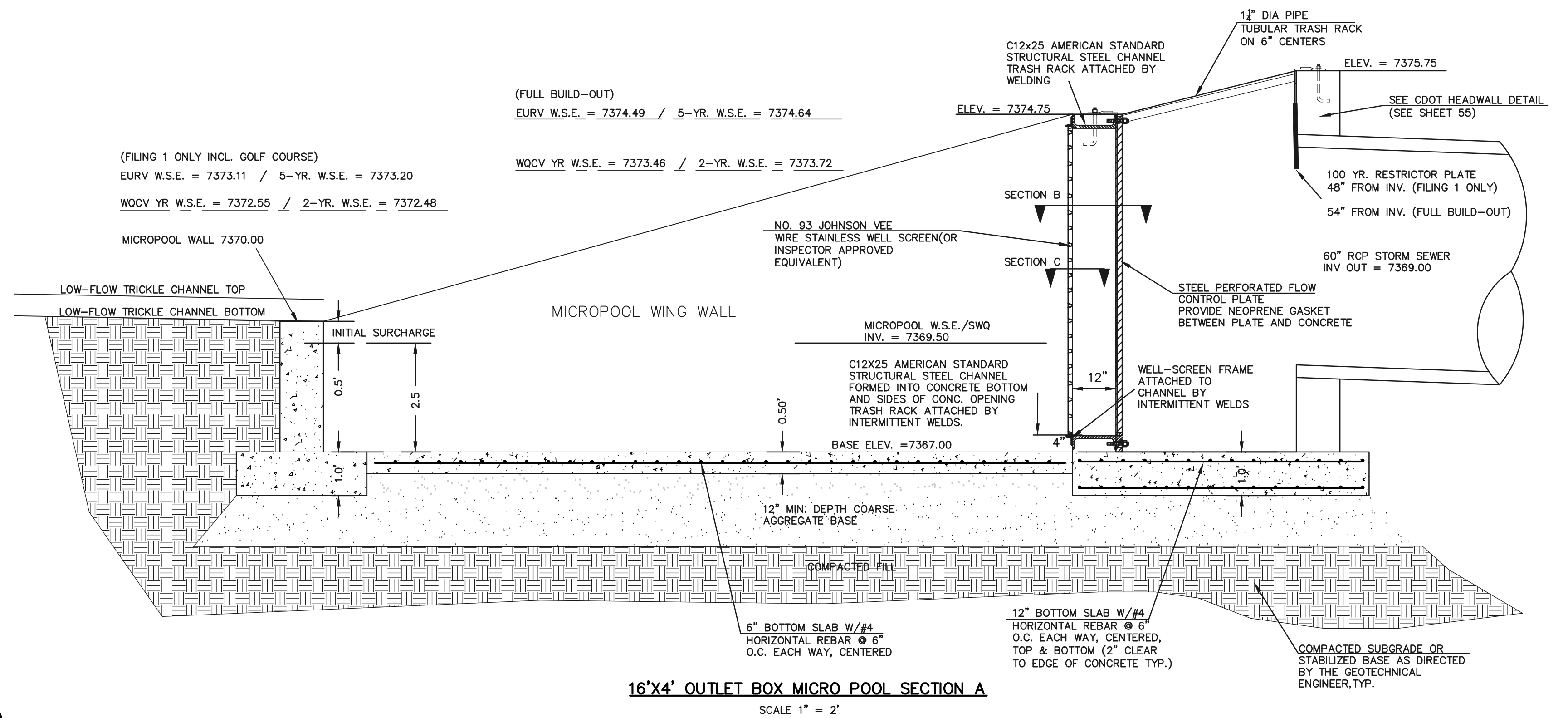


(FILING 1 ONLY INCL. GOLF COURSE)  
100-YR. W.S.E. = 7378.42

(FULL BUILD-OUT)  
100-YR. W.S.E. = 7379.34

(FILING 1 ONLY INCL. GOLF COURSE)  
EURV W.S.E. = 7373.11 / 5-YR. W.S.E. = 7373.20  
WQCV YR W.S.E. = 7372.55 / 2-YR. W.S.E. = 7372.48

(FULL BUILD-OUT)  
EURV W.S.E. = 7374.49 / 5-YR. W.S.E. = 7374.64  
WQCV YR W.S.E. = 7373.46 / 2-YR. W.S.E. = 7373.72



\* STEEL ORIFICE PLATE AND 100 YR. RESTRICTOR PLATE TO BE REPLACED WITH FULL BUILD-OUT DESIGN UPON FILING 2 DEVELOPMENT.

- (ALL MATERIALS PER EL PASO COUNTY SPECIFICATIONS)
- ORIFICE PLATE NOTES:
- INSTALL HOLES AS SHOWN ON DETAIL TO LEFT.
  - PROVIDE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE
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CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

MARC A. WHORTON, COLORADO P.E. #37155 DATE

**CLASSIC**  
CONSULTING  
ENGINEERS & SURVEYORS

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

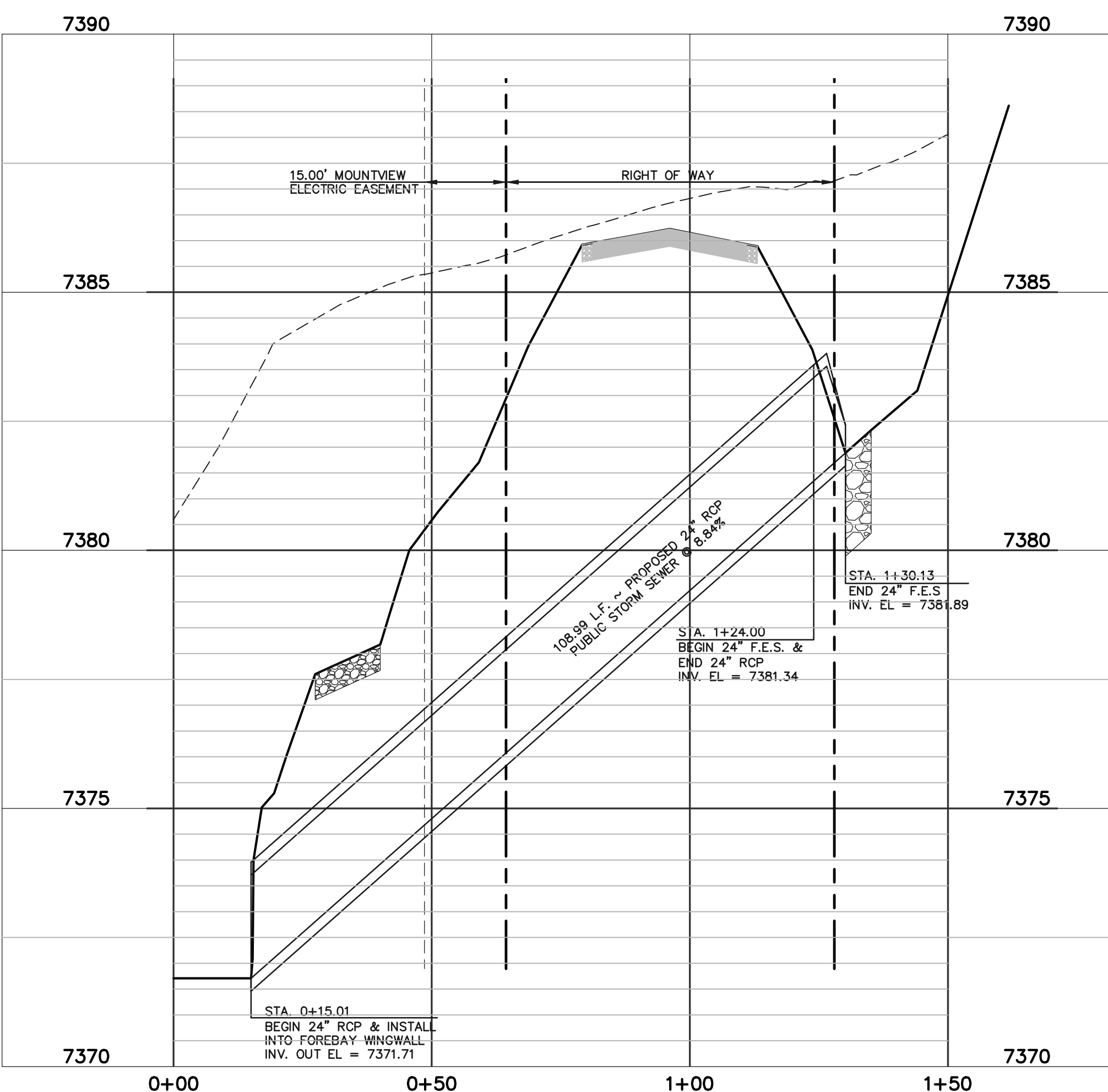
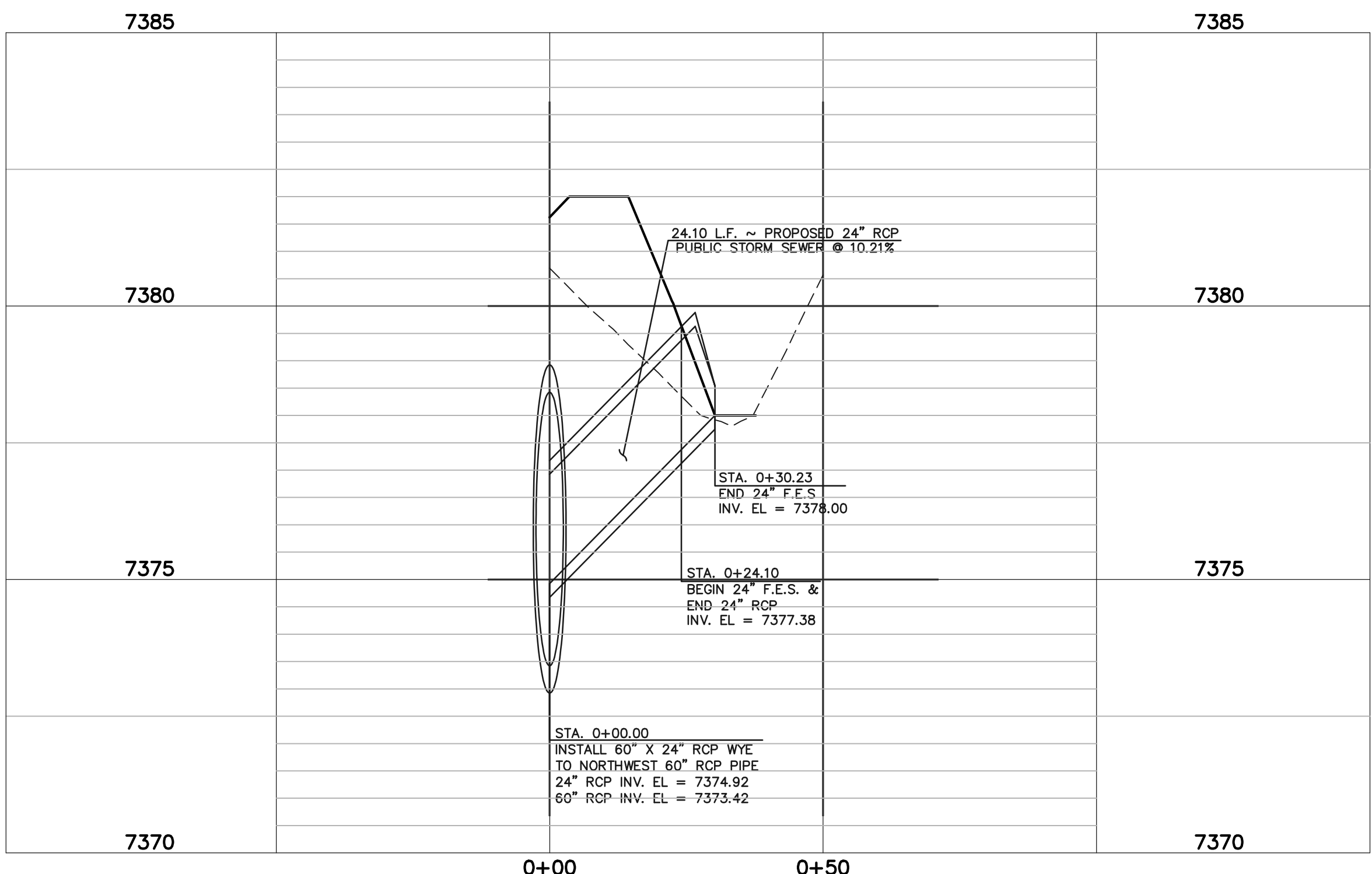
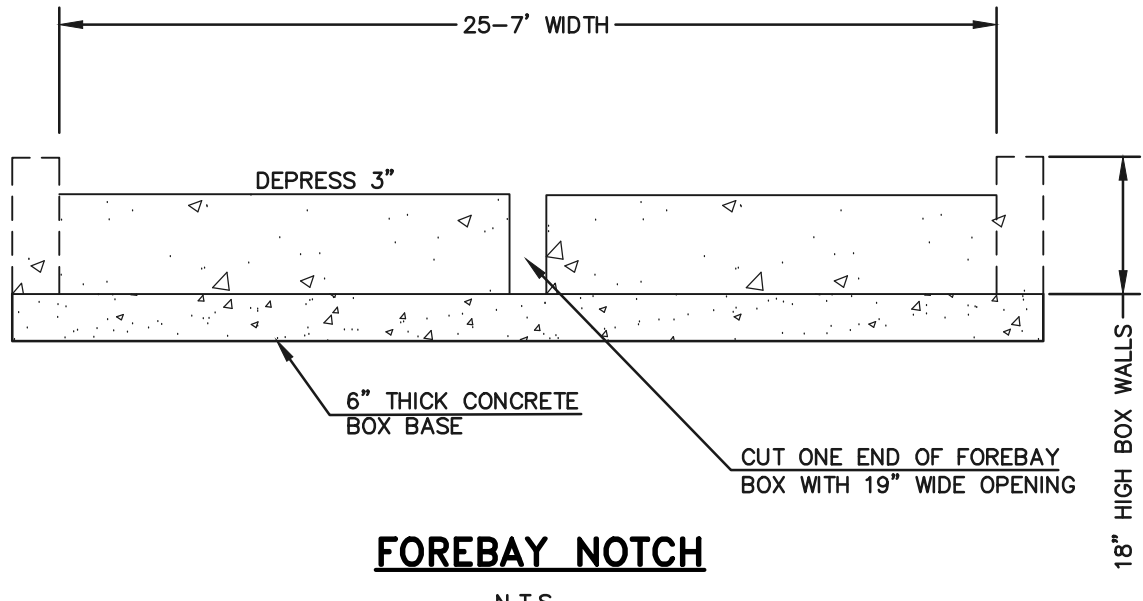
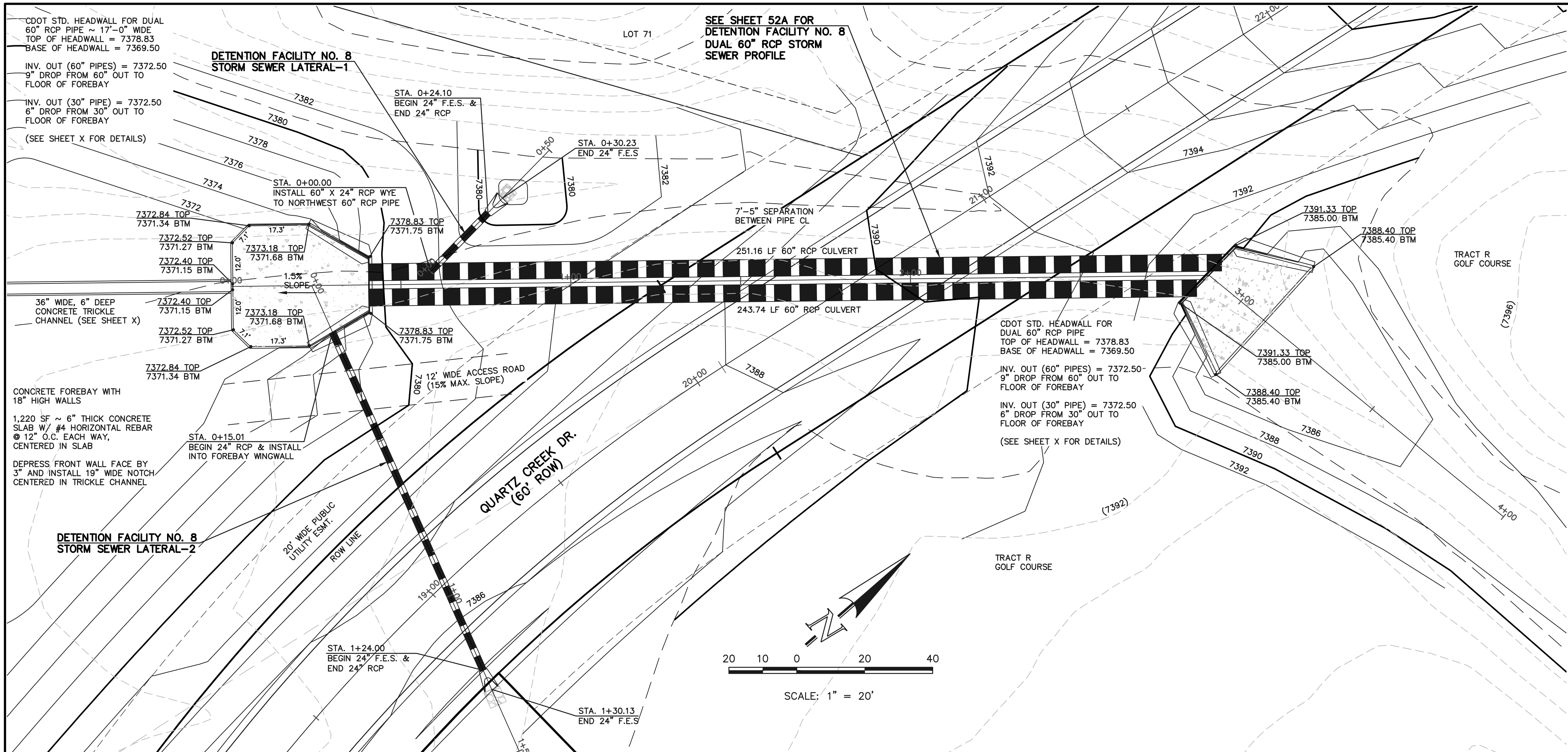
(719) 785-0790  
(719) 785-0799 (Fax)

FLYING HORSE NORTH FILING NO. 1  
DRAINAGE IMPROVEMENT PLANS  
DETENTION FACILITY NO. 8  
OUTLET BOX DETAILS

DESIGNED BY	MAW	SCALE	DATE	5-14-18
DRAWN BY	MAW	(H) 1" = N/A	SHEET	51 OF 58
CHECKED BY		(V) 1" = N/A	JOB NO.	1096.11

CLASSIC  
ENGINEERS & SURVEYORS

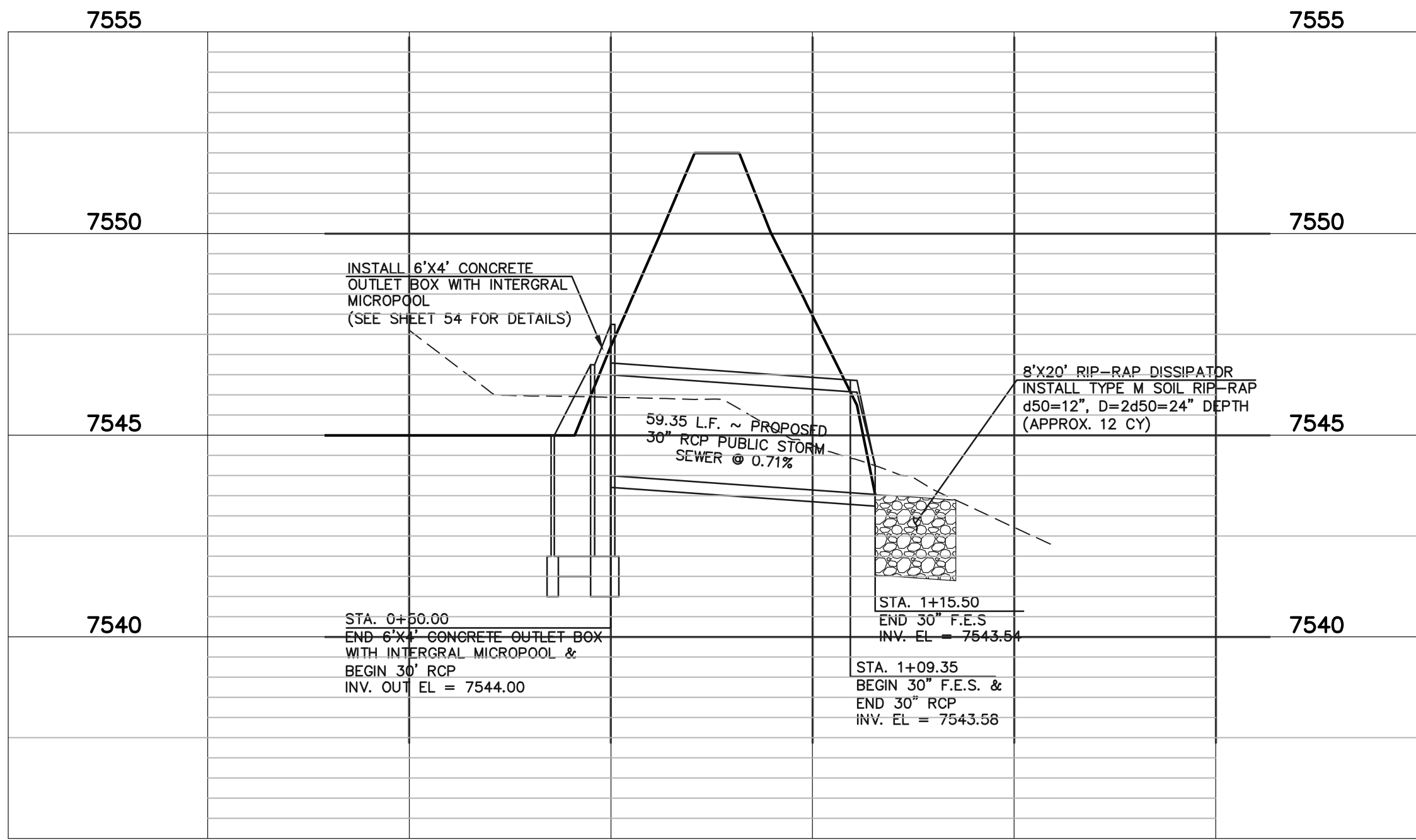





DETENTION FACILITY NO. 8 STORM SEWER LATERAL-1 PROFILE  
SCALE: HORIZONTAL 1"=20'  
VERTICAL 1"=2'

DETENTION FACILITY NO. 8 STORM SEWER LATERAL-2 PROFILE  
SCALE: HORIZONTAL 1"=20'  
VERTICAL 1"=2'

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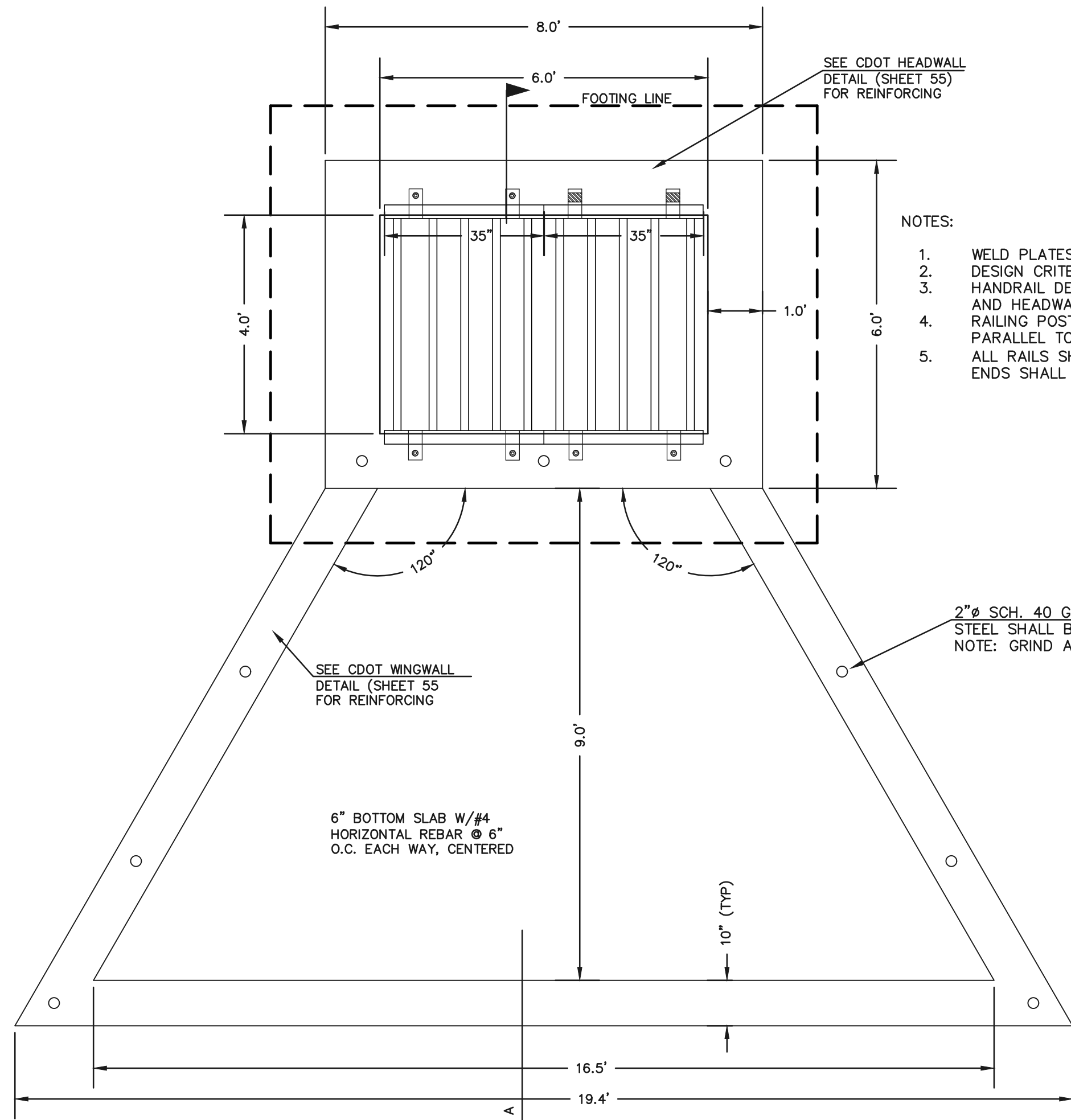


SCALE: HORIZONTAL 1"=30'  
VERTICAL 1"=3'

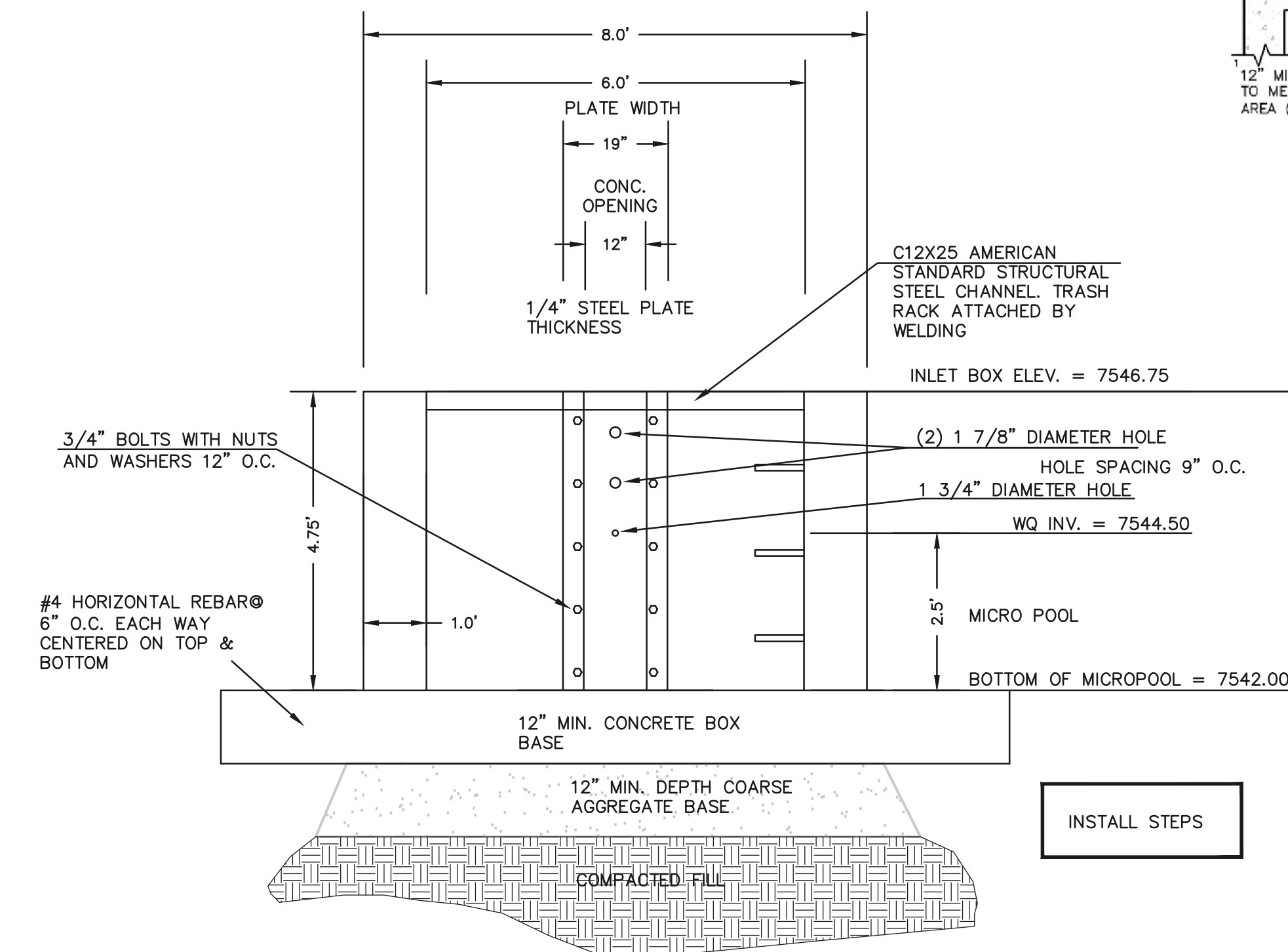
FLYING HORSE NORTH FILING NO. 1 DRAINAGE IMPROVEMENT PLANS DETENTION FACILITY NO. 12 POND PLAN					
DESIGNED BY	MAW	SCALE	DATE 12-12-17		
DRAWN BY	MAW	(H) 1" = 30'	SHEET	53	OF 58
CHECKED BY		(V) 1" = N/A	JOB NO.	1096.11	



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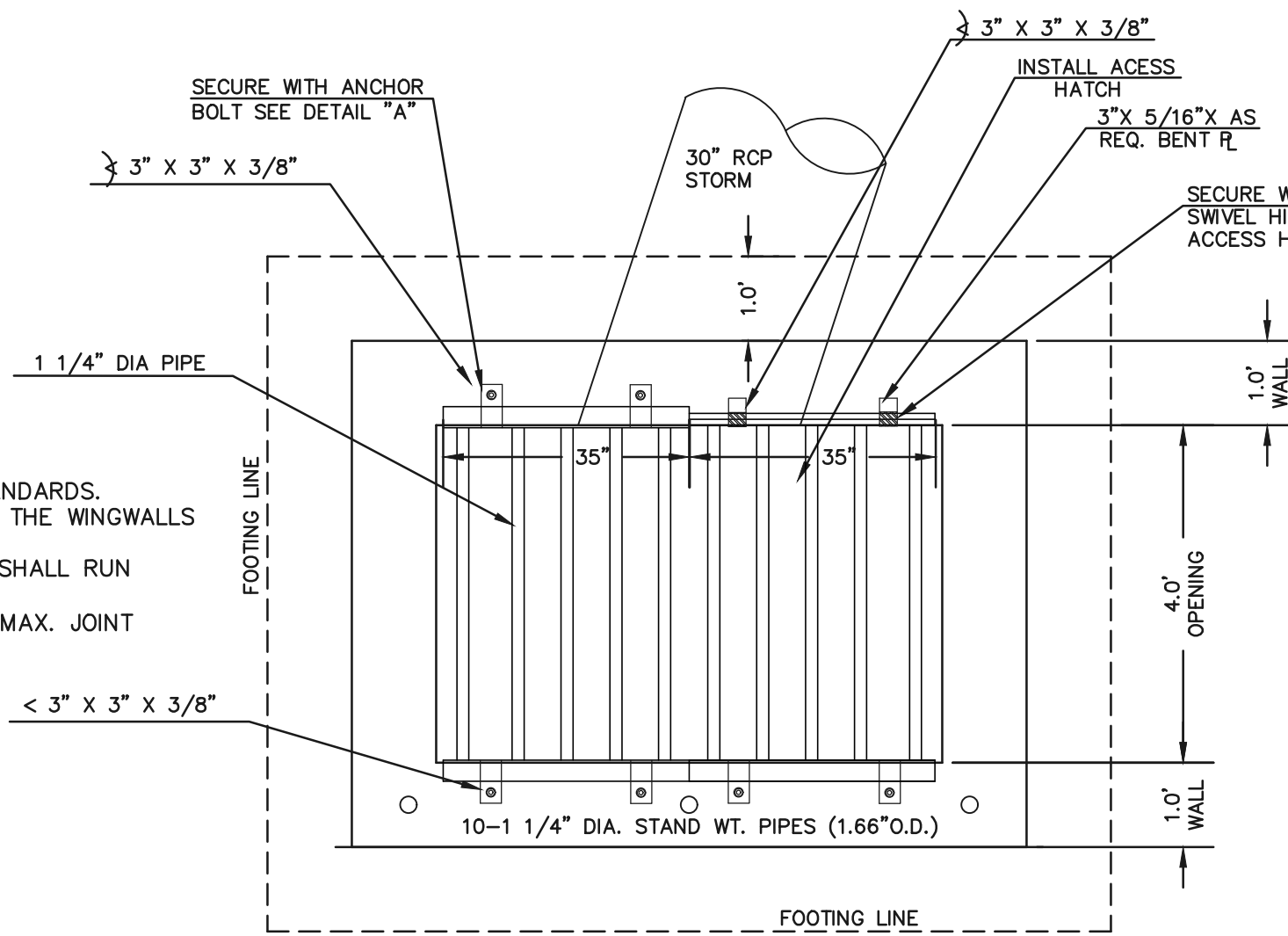
CONCRETE MICROPOOL  
SCALE 1" = 2'



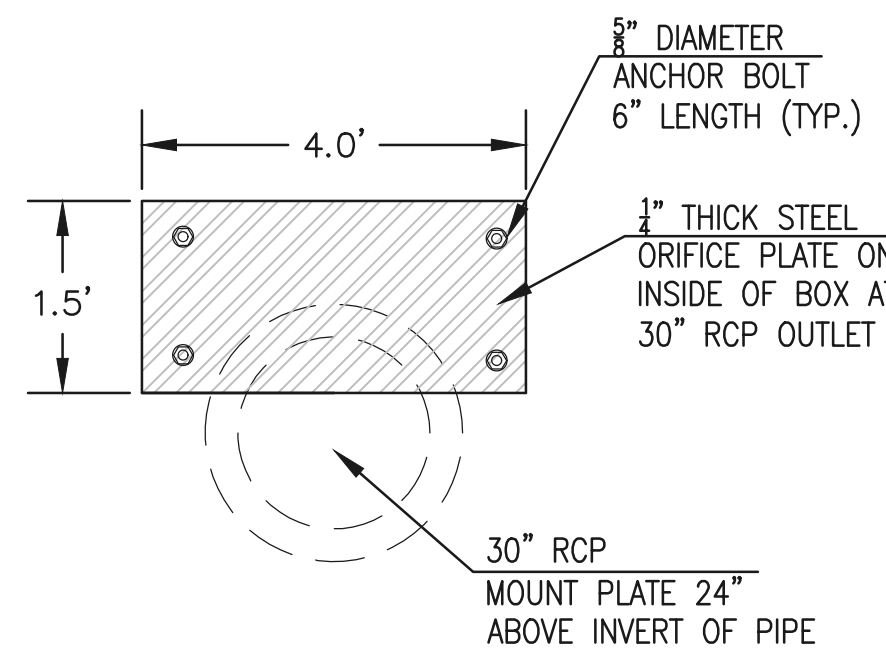
6'X4' OUTLET BOX ORIFICE PLATE  
SCALE 1" = 2'

NOTES:

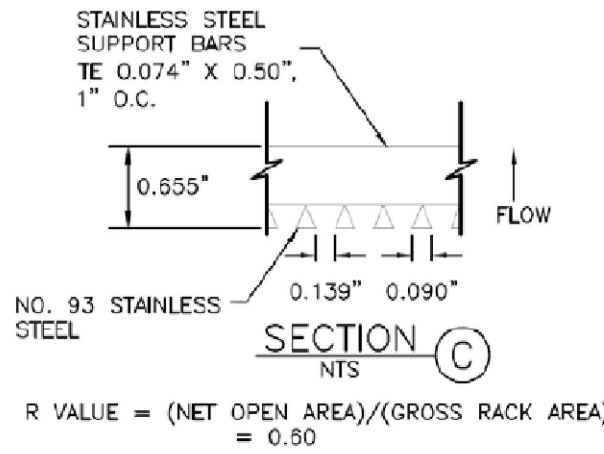
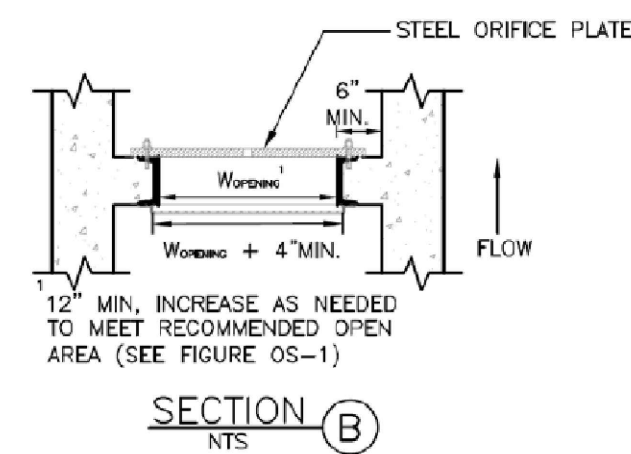
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6'X4' OUTLET BOX OVERFLOW TRASH RACK  
SCALE 1" = 2'



OUTLET BOX ORIFICE  
PLATE - 1/4" STEEL



(ALL MATERIALS PER EL PASO COUNTY SPECIFICATIONS)

ORIFICE PLATE NOTES:

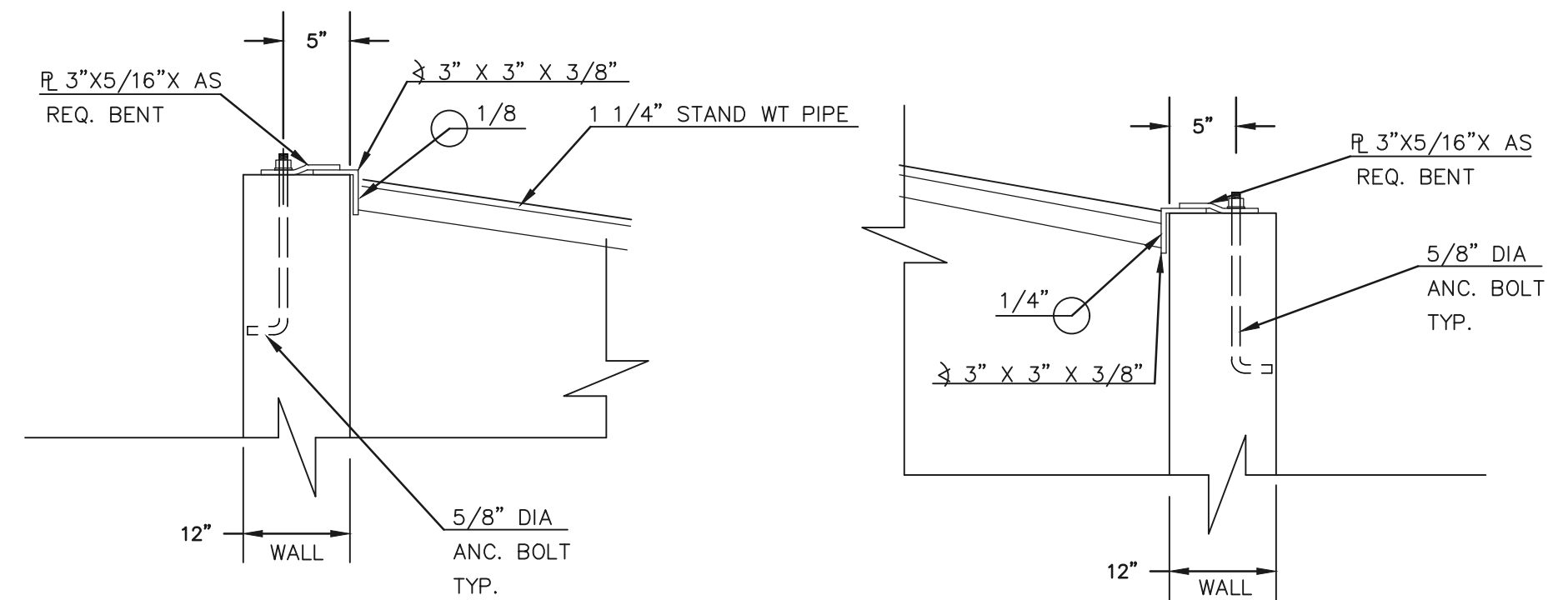
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2. PROVIDE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE

EURV AND WQCV TRASH RACKS:

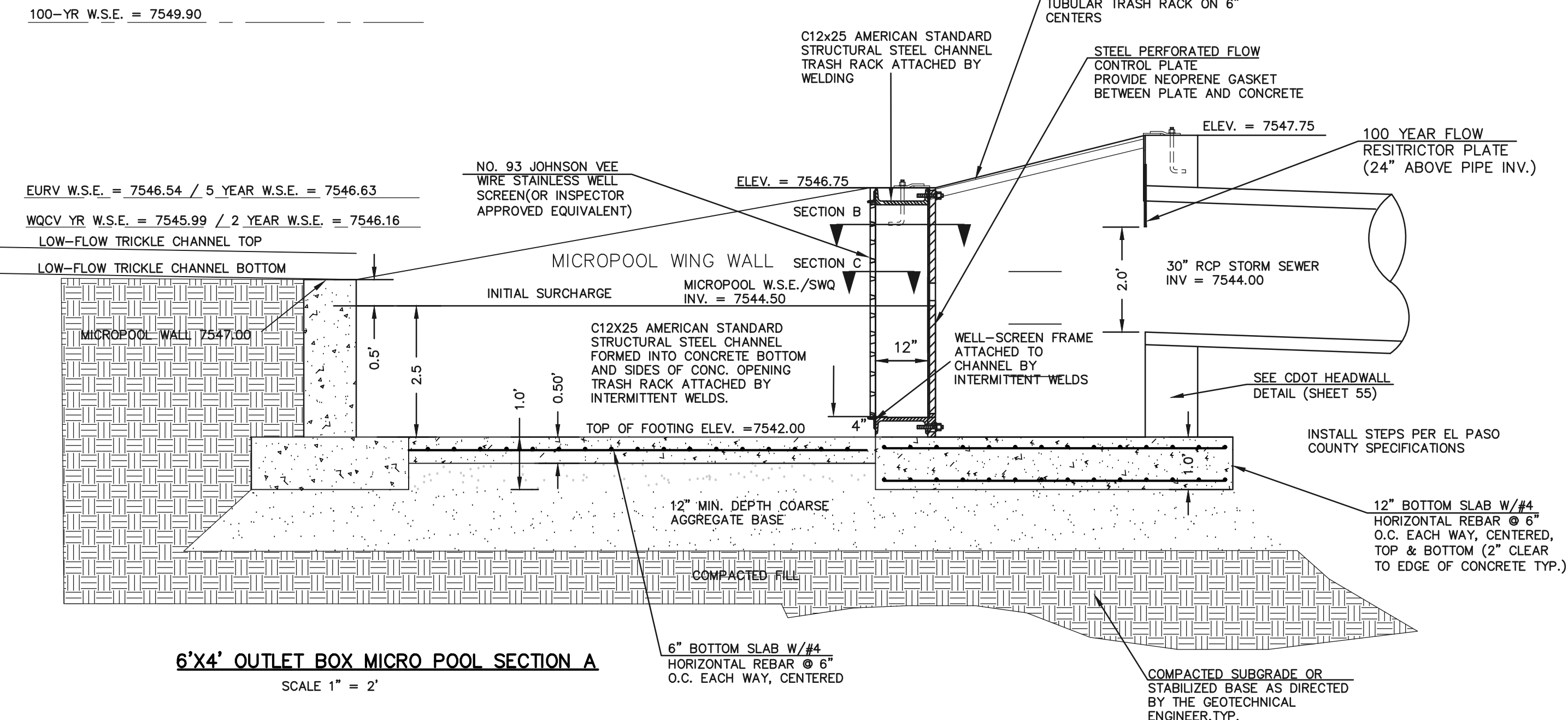
3. WELL-SCREEN TRASH RACKS SHALL BE STAINLESS STEEL AND SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME.
4. BAR GRATE TRASH RACKS SHALL BE ALUMINUM AND SHALL BE BOLTED USING STAINLESS STEEL HARDWARE.
5. STRUCTURAL DESIGN OF TRASH RACKS SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF RACK

OVERFLOW TRASH RACKS:

1. ALL TRASH RACKS SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE AND PROVIDED WITH HINGED AND LOCKABLE OR BOLTABLE ACCESS PANELS
2. 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.
3. TRASH RACKS SHALL BE DESIGNED SUCH THAT THE DIAGONAL DIMENSION OF EACH OPENING IS SMALLER THAN THE DIAMETER OF THE OUTLET PIPE.
4. STRUCTURAL DESIGN OF THE TRASH RACKS SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF THE RACK.



OUTLET BOX RAILING  
N.T.S.



6'X4' OUTLET BOX MICRO POOL SECTION A  
SCALE 1" = 2'

48 HOURS BEFORE YOU DIG,  
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**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

1 REVISED PER COUNTY COMMENTS

4-4-18

REVIEW:

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

MARC A. WHORTON, COLORADO P.E. #37155

DATE

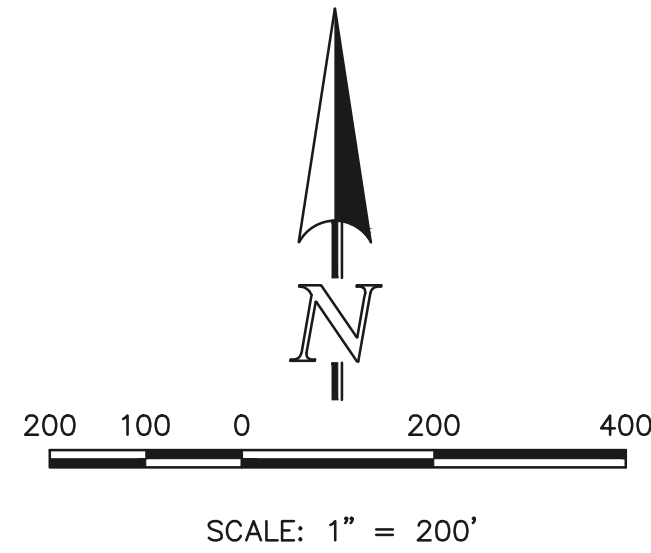
**CLASSIC**  
CONSULTING  
ENGINEERS & SURVEYORS

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

FLYING HORSE NORTH FILING NO. 1  
DRAINAGE IMPROVEMENT PLANS  
DETENTION FACILITY NO. 12  
OUTLET BOX DETAILS

DESIGNED BY	MAW	SCALE	DATE	12-14-17
DRAWN BY	MAW	(H) 1"= N/A	SHEET	54 OF 58
CHECKED BY		(V) 1"= N/A	JOB NO.	1096.11

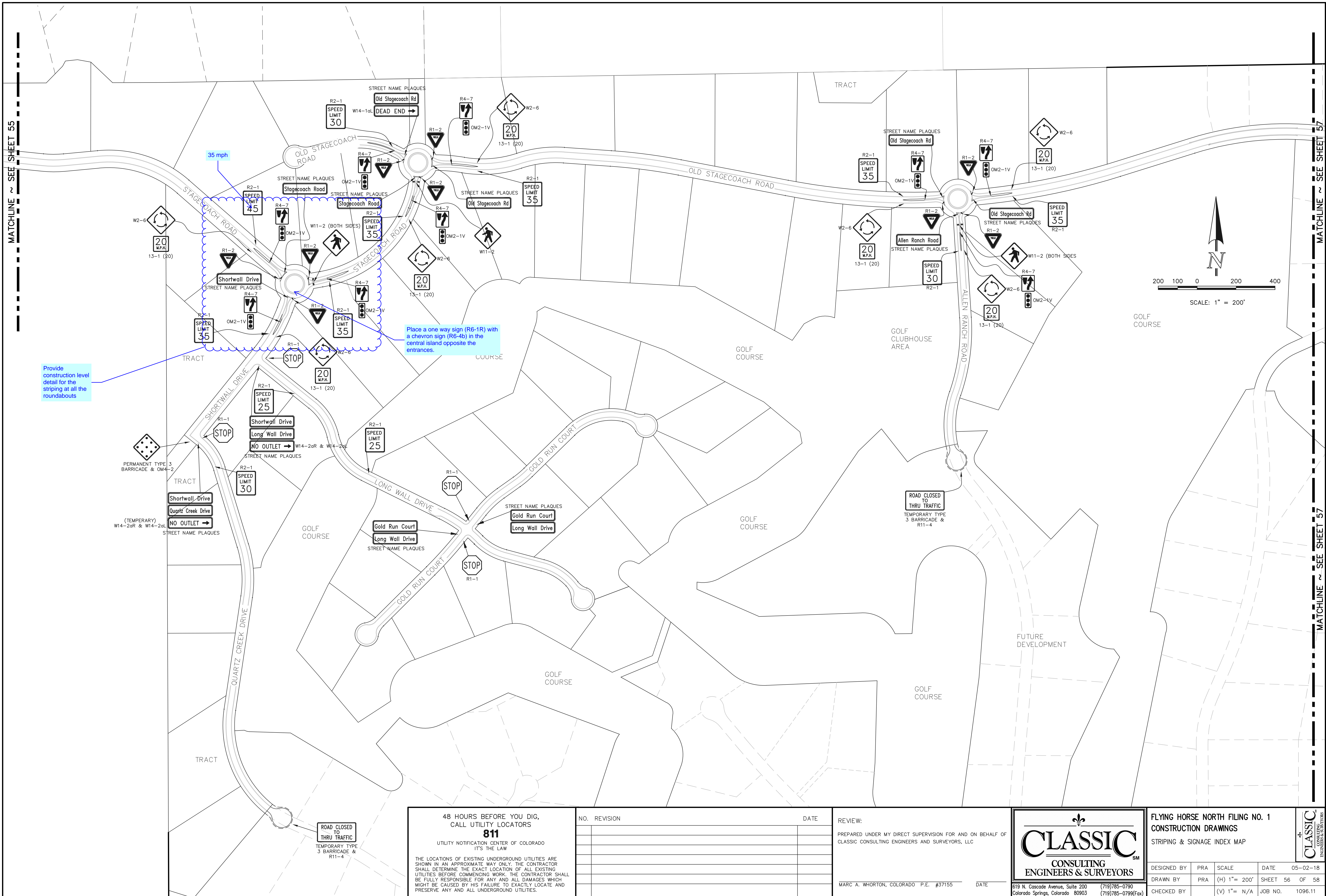
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<div>48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS</div> <div>811</div> <div>UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW</div> <div>THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL 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.</div>	NO. REVISION		DATE	REVIEW:  PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC  MARC A. WHORTON, COLORADO P.E. #37155	DATE	<div><div><div>CLASSIC<sup>SM</sup></div><div>CONSULTING ENGINEERS &amp; SURVEYORS</div></div><div>619 N. Cascade Avenue, Suite 200 (719) 785-0790 Colorado Springs, Colorado 80903 (719) 785-0799 (Fax)</div></div>	FLYING HORSE NORTH FILING NO. 1 CONSTRUCTION DRAWINGS STRIPING & SIGNAGE INDEX MAP				<div>CLASSIC<sup>SM</sup></div>		
								DESIGNED BY	PRA	SCALE		DATE	05-02-11
								DRAWN BY	PRA	(H) 1"= 200'		SHEET 55	OF 51
								CHECKED BY		(V) 1"= N/A		JOB NO.	1096.11



N:\09611\DRAWINGS\CONSTRUCTION\09611-STRIPING-01.dwg, 5/17/2018 8:31:05 AM, 1:1





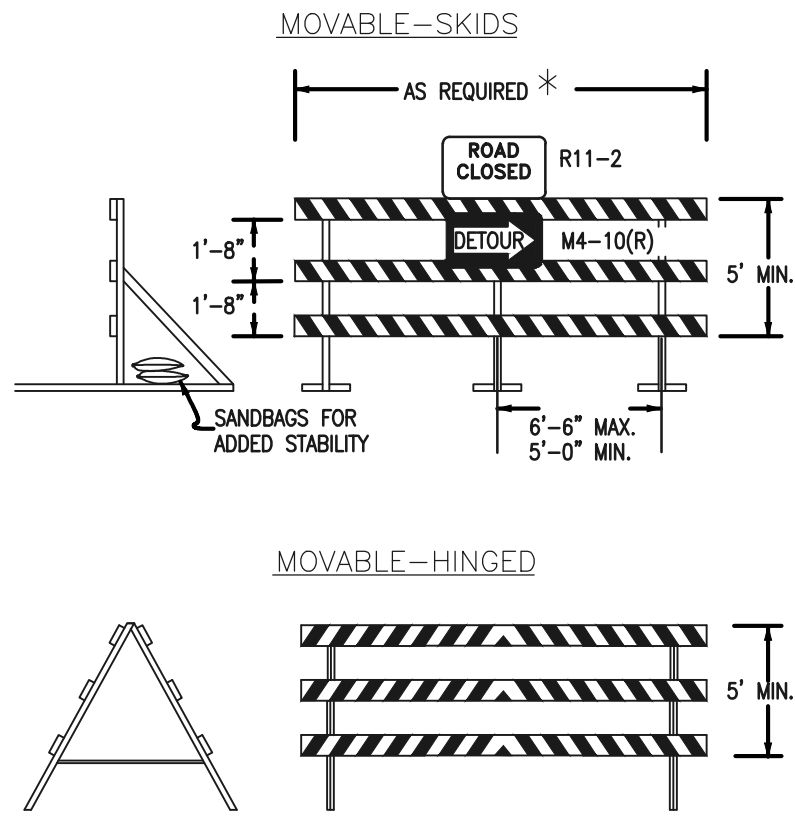
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RAIL LENGTH TABLE \*

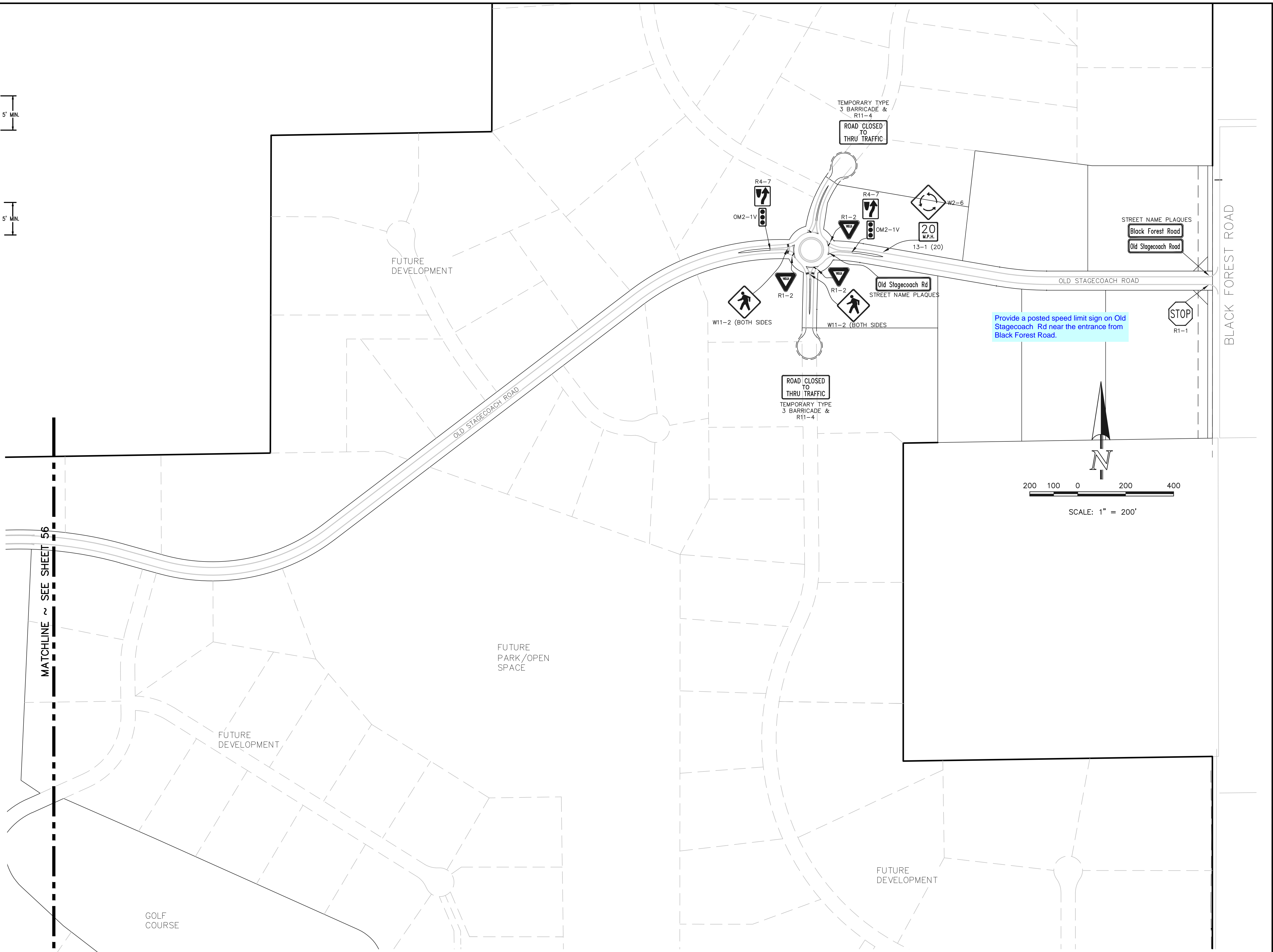
TYPE 3 BARRICADE		LENGTH
FIXED	MOVABLE	
F - A	M - A	8'- 14'
F - B	M - B	15'- 24'
F - C	M - C	25'- 35'
F - D	M - D	> 35'

NOTES

1. TYPE 3 BARRICADES HAVE 3 REFLECTORIZED RAIL FACES IF FACING TRAFFIC IN ONE DIRECTION AND 6 IF FACING TRAFFIC IN TWO DIRECTIONS.
2. THE PORTION OF THE POST ABOVE THE GROUND LINE SHALL BE PAINTED IN ACCORDANCE WITH THE APPROPRIATE GENERAL NOTE.
3. DETACHABLE EXTENSION WING RAILS FOR BYPASSING OF CONSTRUCTION EQUIPMENT ARE PERMITTED, WHEN NECESSARY, ON FIXED OR MOVABLE TYPE 3 BARRICADES. THE LENGTH SHALL BE ADEQUATE TO CLOSE THE BORROW PIT AND/OR SHOULDER AS REQUIRED.



TYPICAL TYPE 3 BARRICADES



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NO. REVISION

DATE

REVIEW:

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CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

MARC A. WHORTON, COLORADO P.E. #37155

DATE



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

FLYING HORSE NORTH FILING NO. 1  
CONSTRUCTION DRAWINGS

STRIPING & SIGNAGE INDEX MAP

DESIGNED BY PRA SCALE DATE 05-02-18

DRAWN BY PRA (H) 1"= 200' SHEET 57 OF 58

CHECKED BY (V) 1"= N/A JOB NO. 1096.11

CLASSIC  
CONSULTING ENGINEERS & SURVEYORS

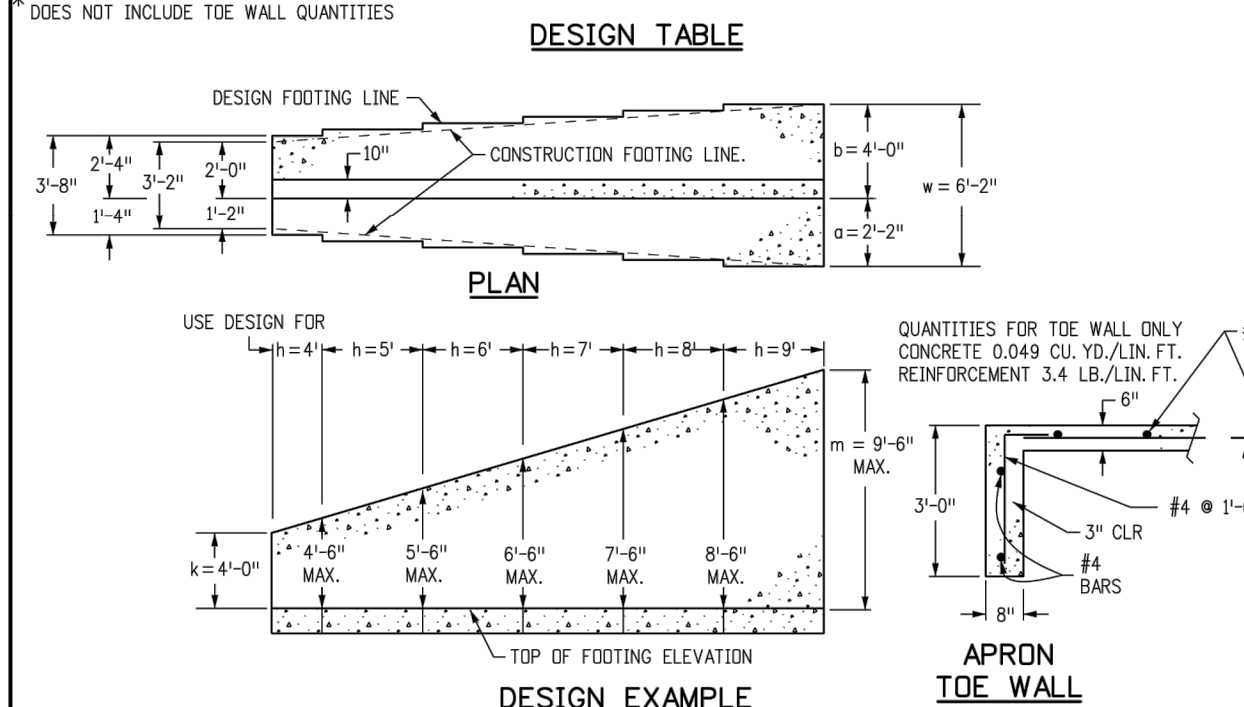



### GENERAL NOTES

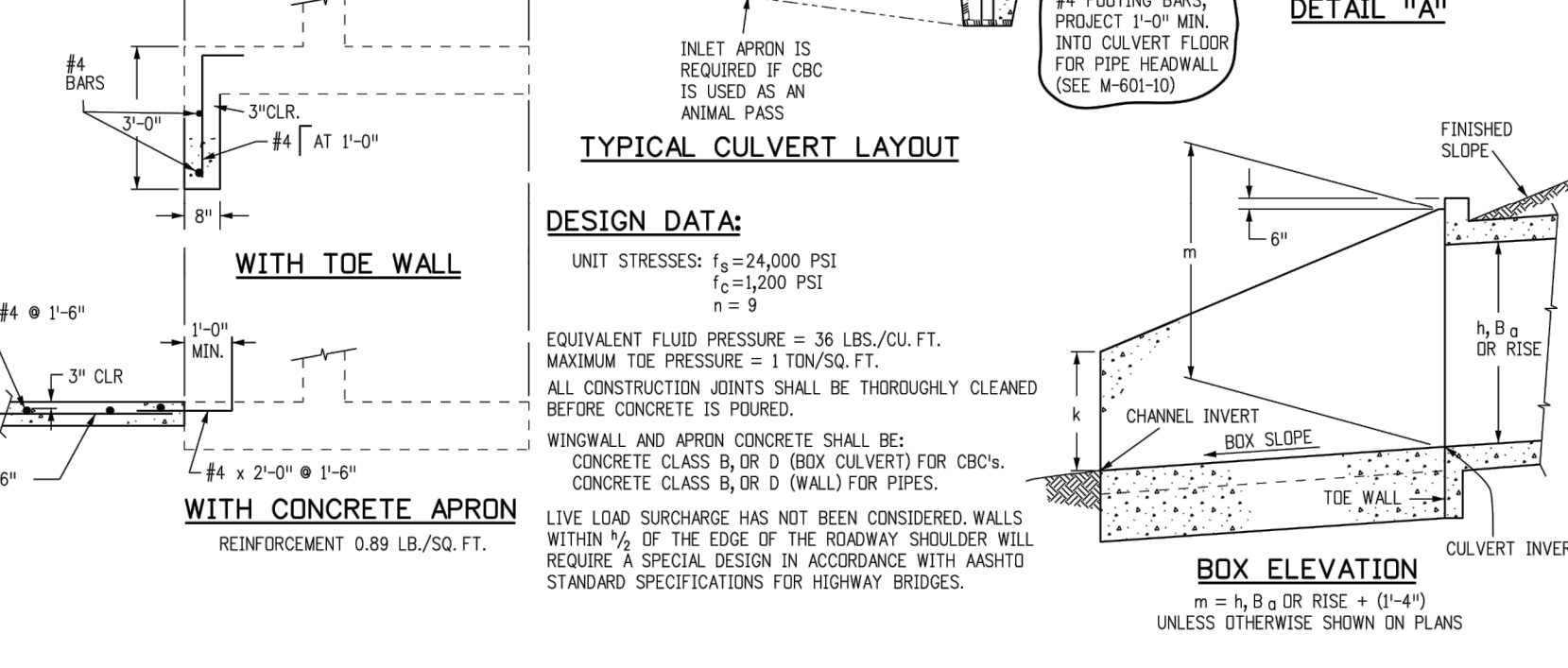
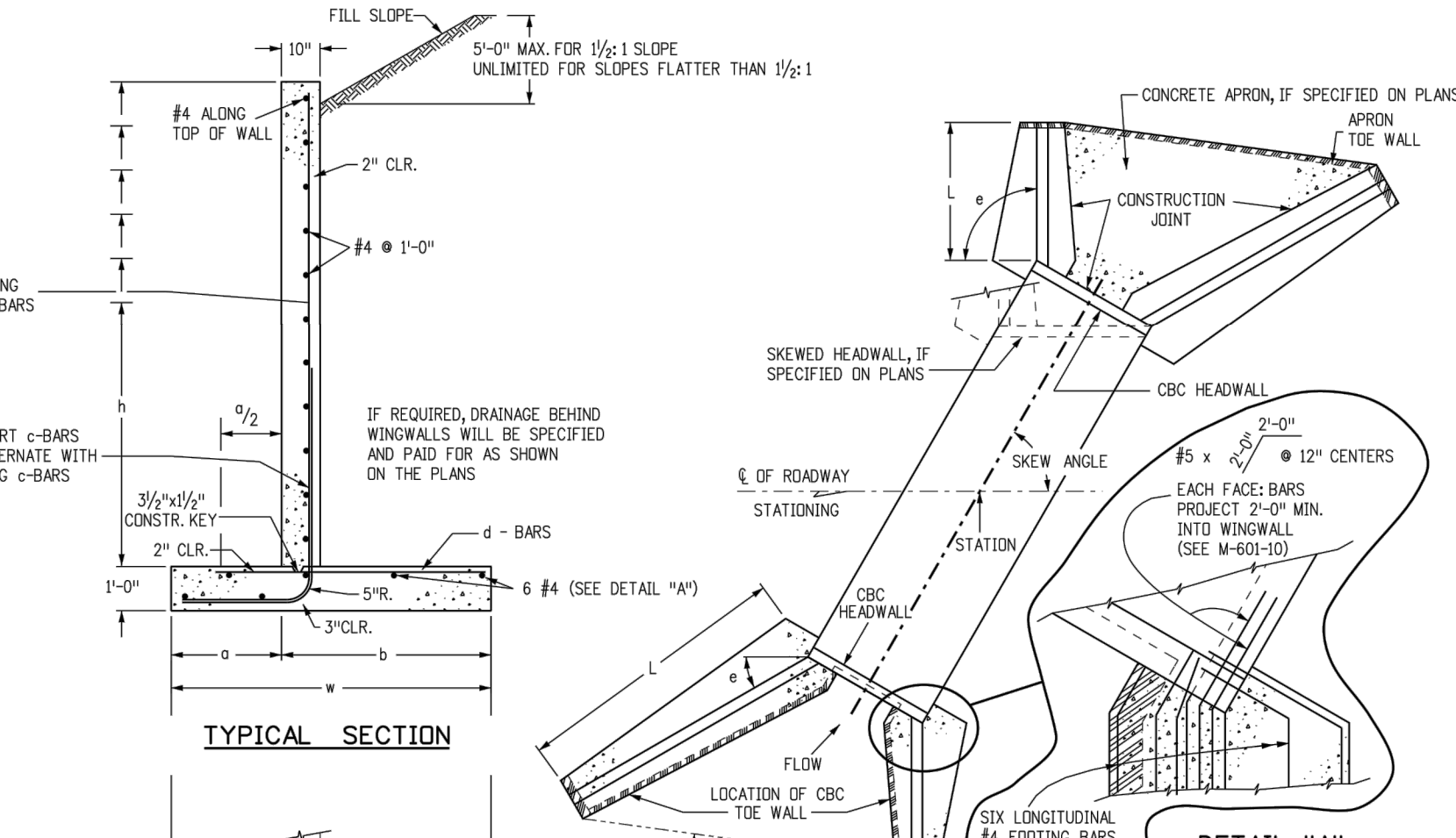
- ALL EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED  $\frac{3}{8}$  IN. IN PLACED LONGITUDINALLY.
- WINGWALL FOOTINGS AND FLOOR OF BOX CULVERT SHALL BE PLACED LONGITUDINALLY.
- DIMENSIONS "H", "B", "W", "L", "H", "W" AND ANGLES FOR WINGWALLS SHALL BE AS SHOWN ON THE PLANS.
- REINFORCING STEEL SHALL BE GRADE 60.
- THE MINIMUM SPLICE LENGTH FOR COMMON BAR SIZES SHALL BE:


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

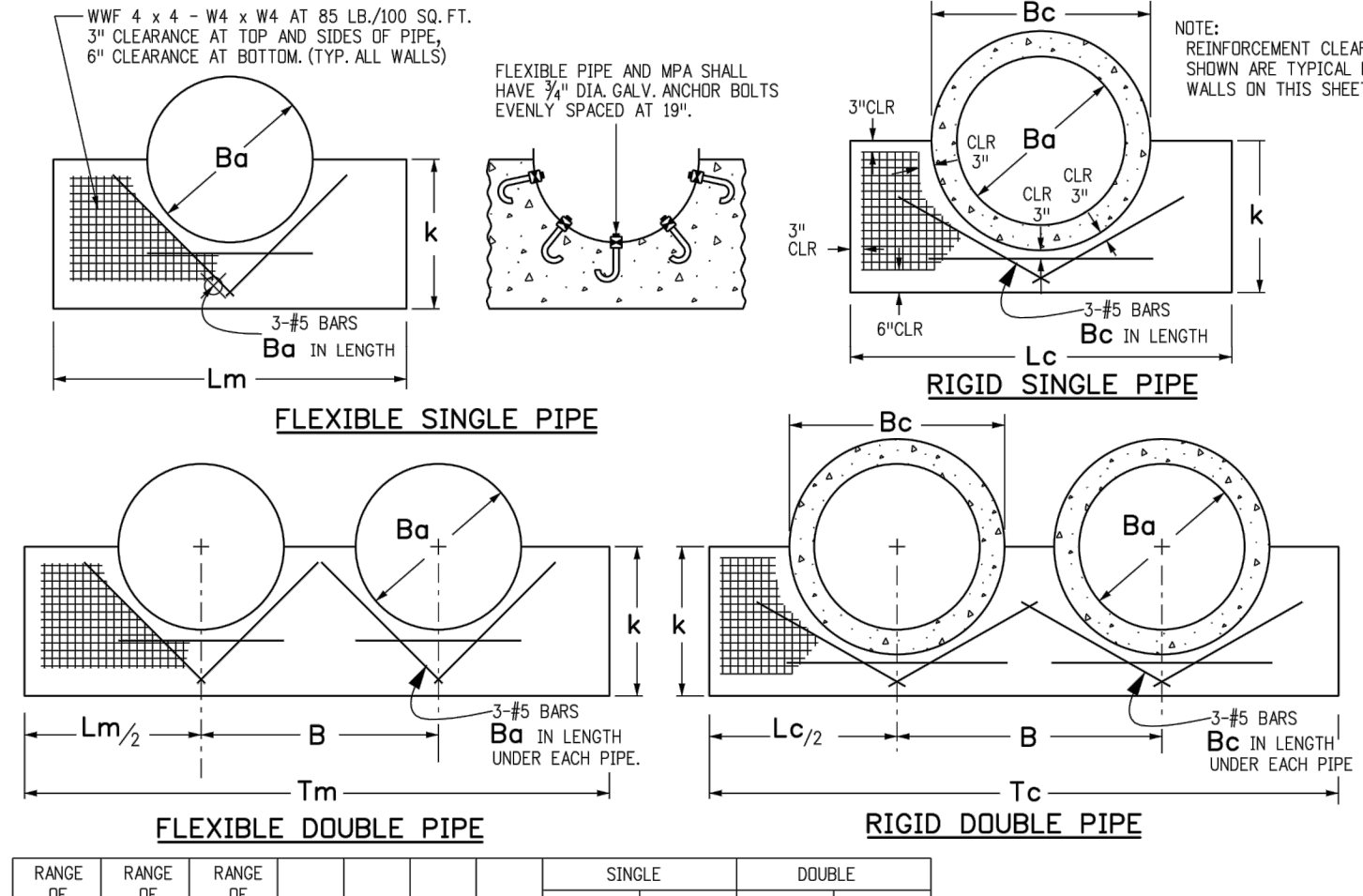
	1'-6"	1'-6"	1'-6"	1'-4"	1'-3"	1'-1"	9"	8"
e =	2'	3'	4'	6'	7'	8'	9'	10'
h =	2'	3'	4'	6'	7'	8'	9'	10'
1' =	1'-2"	1'-4"	1'-6"	1'-8"	1'-10"	2'-0"	2'-2"	2'-4"
2' =	1'-8"	2'-0"	2'-4"	2'-8"	3'-0"	3'-4"	3'-8"	4'-0"
3' =	2'-8"	3'-2"	3'-8"	4'-2"	4'-8"	5'-2"	5'-8"	6'-2"
4' =	4'-0"	4'-4"	4'-8"	5'-2"	5'-8"	6'-2"	6'-8"	7'-2"
5' =	5'-0"	5'-4"	5'-8"	6'-2"	6'-8"	7'-2"	7'-8"	8'-2"
6' =	6'-0"	6'-4"	6'-8"	7'-2"	7'-8"	8'-2"	8'-8"	9'-2"
7' =	7'-0"	7'-4"	7'-8"	8'-2"	8'-8"	9'-2"	9'-8"	10'-2"
8' =	8'-0"	8'-4"	8'-8"	9'-2"	9'-8"	10'-2"	10'-8"	11'-2"
9' =	9'-0"	9'-4"	9'-8"	10'-2"	10'-8"	11'-2"	11'-8"	12'-2"
10' =	10'-0"	10'-4"	10'-8"	11'-2"	11'-8"	12'-2"	12'-8"	13'-2"
11' =	11'-0"	11'-4"	11'-8"	12'-2"	12'-8"	13'-2"	13'-8"	14'-2"
12' =	12'-0"	12'-4"	12'-8"	13'-2"	13'-8"	14'-2"	14'-8"	15'-2"
13' =	13'-0"	13'-4"	13'-8"	14'-2"	14'-8"	15'-2"	15'-8"	16'-2"
14' =	14'-0"	14'-4"	14'-8"	15'-2"	15'-8"	16'-2"	16'-8"	17'-2"
15' =	15'-0"	15'-4"	15'-8"	16'-2"	16'-8"	17'-2"	17'-8"	18'-2"
16' =	16'-0"	16'-4"	16'-8"	17'-2"	17'-8"	18'-2"	18'-8"	19'-2"
17' =	17'-0"	17'-4"	17'-8"	18'-2"	18'-8"	19'-2"	19'-8"	20'-2"
18' =	18'-0"	18'-4"	18'-8"	19'-2"	19'-8"	20'-2"	20'-8"	21'-2"
19' =	19'-0"	19'-4"	19'-8"	20'-2"	20'-8"	21'-2"	21'-8"	22'-2"
20' =	20'-0"	20'-4"	20'-8"	21'-2"	21'-8"	22'-2"	22'-8"	23'-2"
21' =	21'-0"	21'-4"	21'-8"	22'-2"	22'-8"	23'-2"	23'-8"	24'-2"
22' =	22'-0"	22'-4"	22'-8"	23'-2"	23'-8"	24'-2"	24'-8"	25'-2"
23' =	23'-0"	23'-4"	23'-8"	24'-2"	24'-8"	25'-2"	25'-8"	26'-2"
24' =	24'-0"	24'-4"	24'-8"	25'-2"	25'-8"	26'-2"	26'-8"	27'-2"
25' =	25'-0"	25'-4"	25'-8"	26'-2"	26'-8"	27'-2"	27'-8"	28'-2"
26' =	26'-0"	26'-4"	26'-8"	27'-2"	27'-8"	28'-2"	28'-8"	29'-2"
27' =	27'-0"	27'-4"	27'-8"	28'-2"	28'-8"	29'-2"	29'-8"	30'-2"
28' =	28'-0"	28'-4"	28'-8"	29'-2"	29'-8"	30'-2"	30'-8"	31'-2"
29' =	29'-0"	29'-4"	29'-8"	30'-2"	30'-8"	31'-2"	31'-8"	32'-2"
30' =	30'-0"	30'-4"	30'-8"	31'-2"	31'-8"	32'-2"	32'-8"	33'-2"
31' =	31'-0"	31'-4"	31'-8"	32'-2"	32'-8"	33'-2"	33'-8"	34'-2"
32' =	32'-0"	32'-4"	32'-8"	33'-2"	33'-8"	34'-2"	34'-8"	35'-2"
33' =	33'-0"	33'-4"	33'-8"	34'-2"	34'-8"	35'-2"	35'-8"	36'-2"
34' =	34'-0"	34'-4"	34'-8"	35'-2"	35'-8"	36'-2"	36'-8"	37'-2"
35' =	35'-0"	35'-4"	35'-8"	36'-2"	36'-8"	37'-2"	37'-8"	38'-2"
36' =	36'-0"	36'-4"	36'-8"	37'-2"	37'-8"	38'-2"	38'-8"	39'-2"



<b>Computer File Information</b>		<b>Sheet Revisions</b>		 <b>Colorado State Water Project</b>
Creation Date: 07/04/12	Initials: DD	Date:	Comments	
Last Modification Date: 07/04/12	Initials: LTA			
Full Path: www.coloradodot.info/business/designsupport				
Drawing File Name: 6010200101.dgn				
CAD Ver.: MicroStation V8	Scale: Not to Scale Units: English			



Idaho Department of Transportation  4201 East Arkansas Avenue Denver, Colorado 80222 Phone: (303) 757-9083 Fax: (303) 757-9820	<b>WINGWALLS FOR PIPE OR BOX CULVERTS</b>	<b>STANDARD PLAN NO.</b>  <b>M-601-20</b>
Project Development Branch DD/LTA	Issued By: Project Development Branch July 4, 2012	Sheet No. 1 of 1




EQUIV. DIMS.	SPANS S	RISERS R	ka	a	C	Ta	CONCRETE		STEEL		CONCRETE	STEEL
							CU. YDS.	LBS.	CU. YDS.	LBS.		
36-42	39-47	30-36	36	94	71	165	0.72	26.2	1.22	49.8		
42-48	48-59	31-41	41	118	89	207	1.04	36.5	1.77	68.2		
48-54	60-71	40-51	51	142	107	249	1.53	52.2	2.61	97.7		
54-60	67-75	44-59	59	168	125	285	1.98	59.4	3.14	112.7		
72-84	84-95	63-72	72	190	131	321	2.93	93.1	4.76	166.5		
84-96	96-107	66-76	76	214	143	357	3.41	101	5.45	194.6		

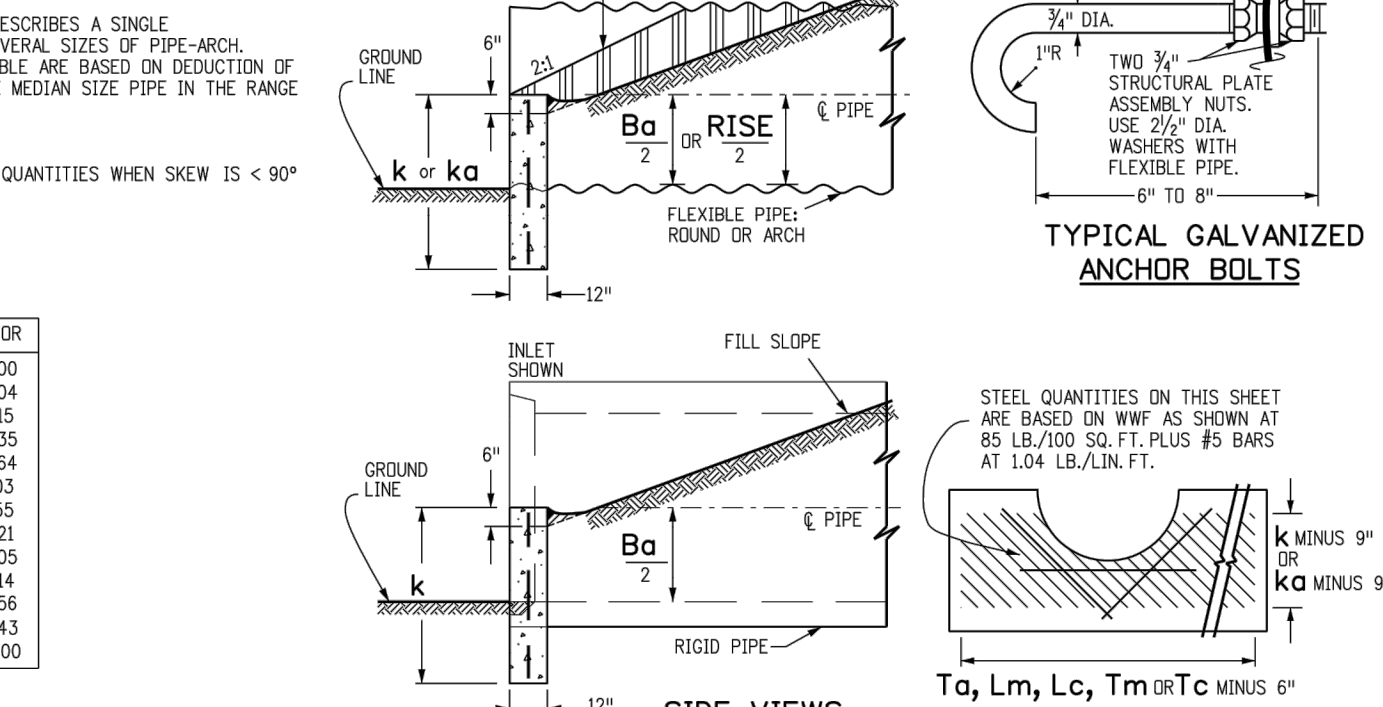
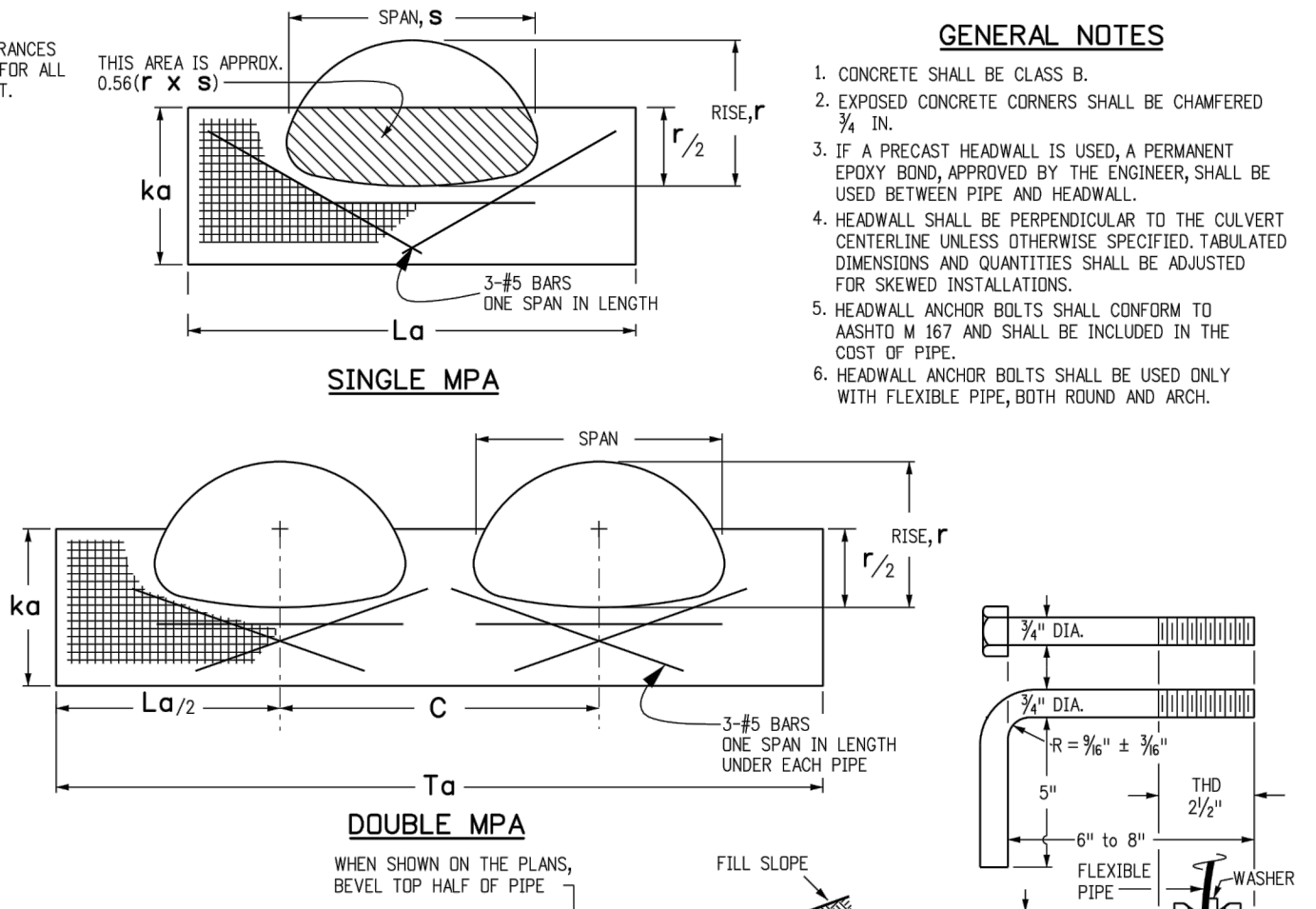
NOTE: EACH LINE OF THE PIPE ARCH TABLE HEADLINE THAT WILL ACCOMMODATE THE CONCRETE QUANTITIES IN THIS TABLE CONCRETE FROM THE HEADLINE OF THE PIPE ARCH DIMENSIONS SHOWN.

ADJUST L, B, T, C, #S PER BAR LENGTH AND

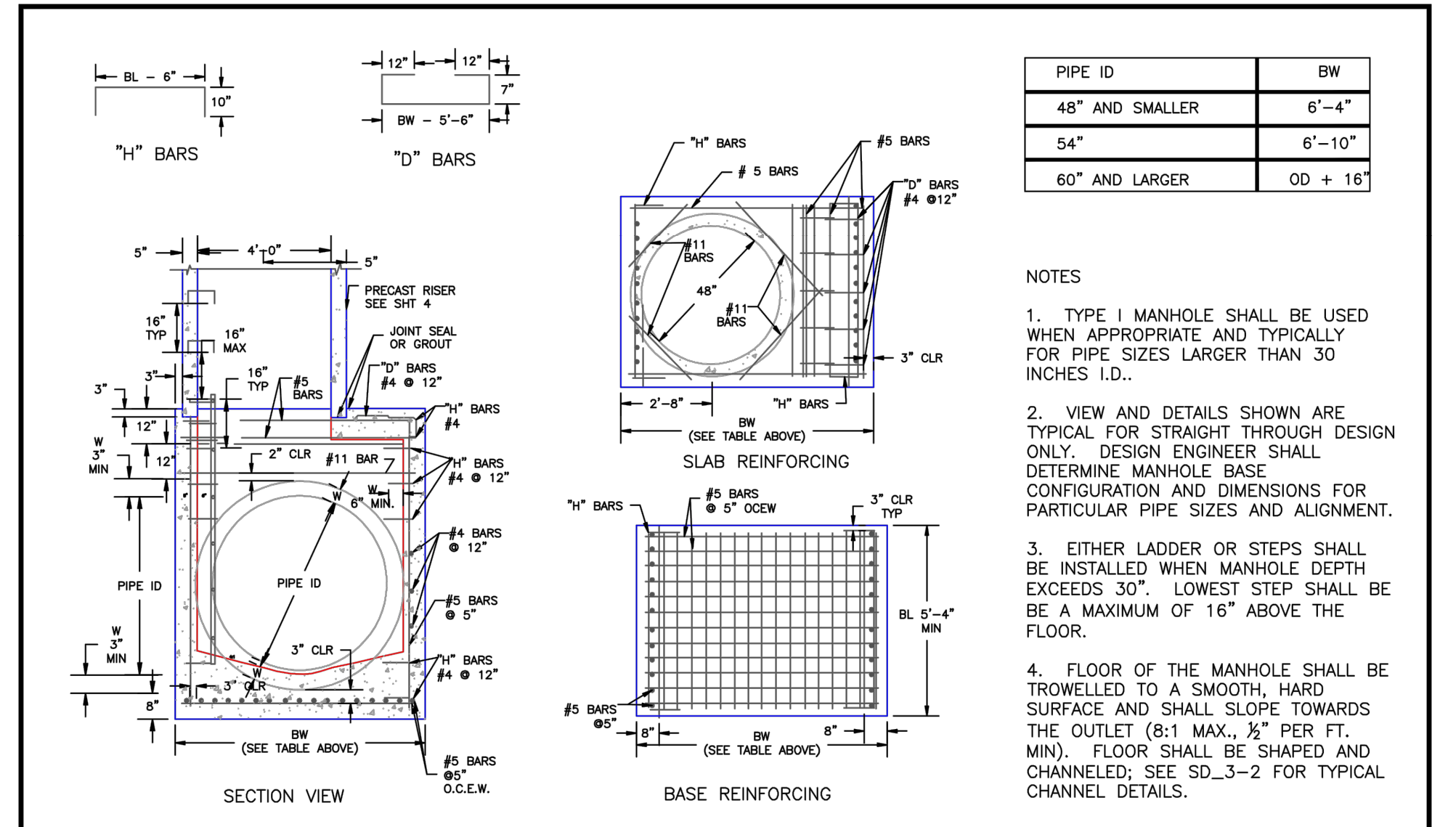
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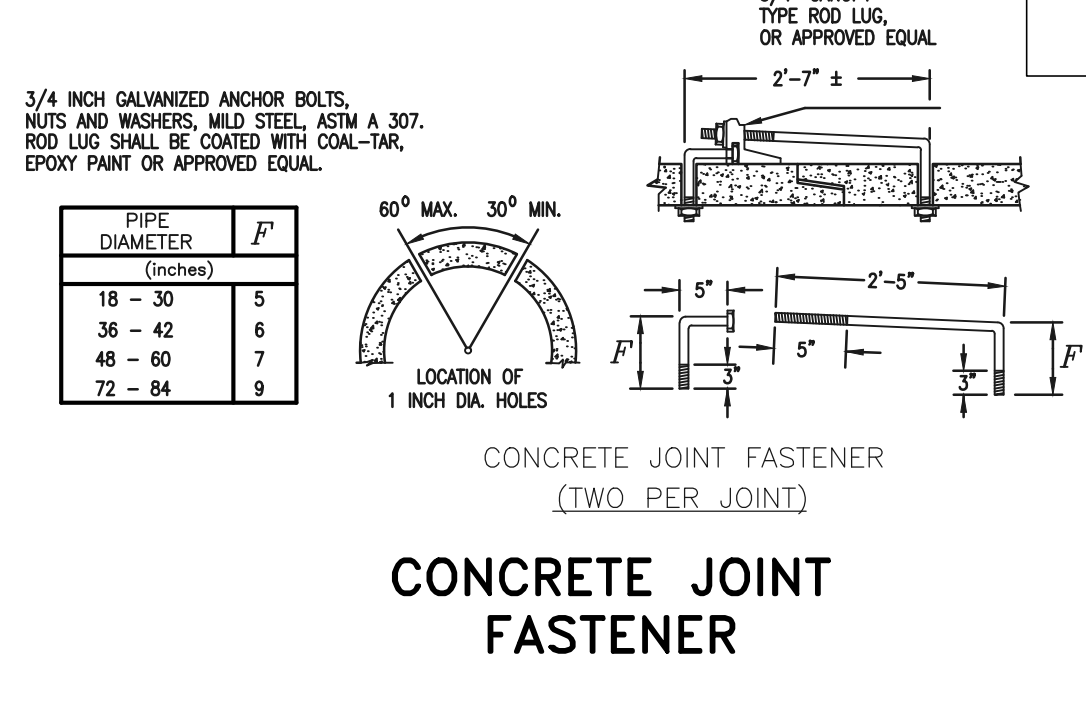
HEADWALL FOR ROUND PIPE				
Computer File Information		Sheet Revisions		<div><div>Colorado Department of Transportation 4201 East Arkansas Avenue, Suite 3003, Denver, CO 80231-7577 Fax: (303) 757-7777</div></div> <div>Project Development Br</div>
Creation Date: 07/04/12	Initiated: DD	Date:	Comments	
Last Modification Date: 07/04/12	Initiated: LTA	(R,X)		
Path: \\www.coloradodot.info\business\designsupport\	(R,X)	(R,X)		
Drawing File Name: 601010101.dgn	(R,X)	(R,X)		
Ver: MicroStation V8    Scale: Not to Scale    Units: English				



Department of Transportation 300 Avenue 60222 7-0083 8820 Branch DD/LTA	TYPE "S" SADDLE HEADWALLS FOR PIPE	STANDARD PLAN NO M-601-11 Sheet No. 1 of 1
	Issued By: Project Development Branch July 4, 2012	



DATE APPROVED: <u>7/9/09</u>		Storm Sewer Manhole Detail Type I Standard Drawing			
André Brackin DEPARTMENT OF TRANSPORTATION		REVISION DATE: <u>7/9/09</u>		FILE NAME: <u>SD_3-1</u>	



<p>48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS</p> <p><b>811</b></p> <p>UTILITY NOTIFICATION 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:
				PREPARED UNDER
				CLASSIC CONSULTING
				MARC A. WHORTON

BY MY DIRECT SUPERVISION FOR AND ON BEHALF OF  
REGISTERED PROFESSIONAL ENGINEERS AND SURVEYORS, LLC

CLASSIC<sup>SM</sup>

CONSULTING  
ENGINEERS & SURVEYORS

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Colorado Springs, Colorado 80903

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

COUNTY, COLORADO P.E. #37155

DATE

FLYING HORSE NORTH FILING NO. 1  
DRAINAGE IMPROVEMENT PLANS  
DRAINAGE DETAIL SHEET

DESIGNED BY	MAW	SCALE	DATE	11-15-17
DRAWN BY	MAW	(H) 1" = N/A	SHEET	55 OF 58
CHECKED BY		(V) 1" = N/A	JOB NO.	1096.11

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