

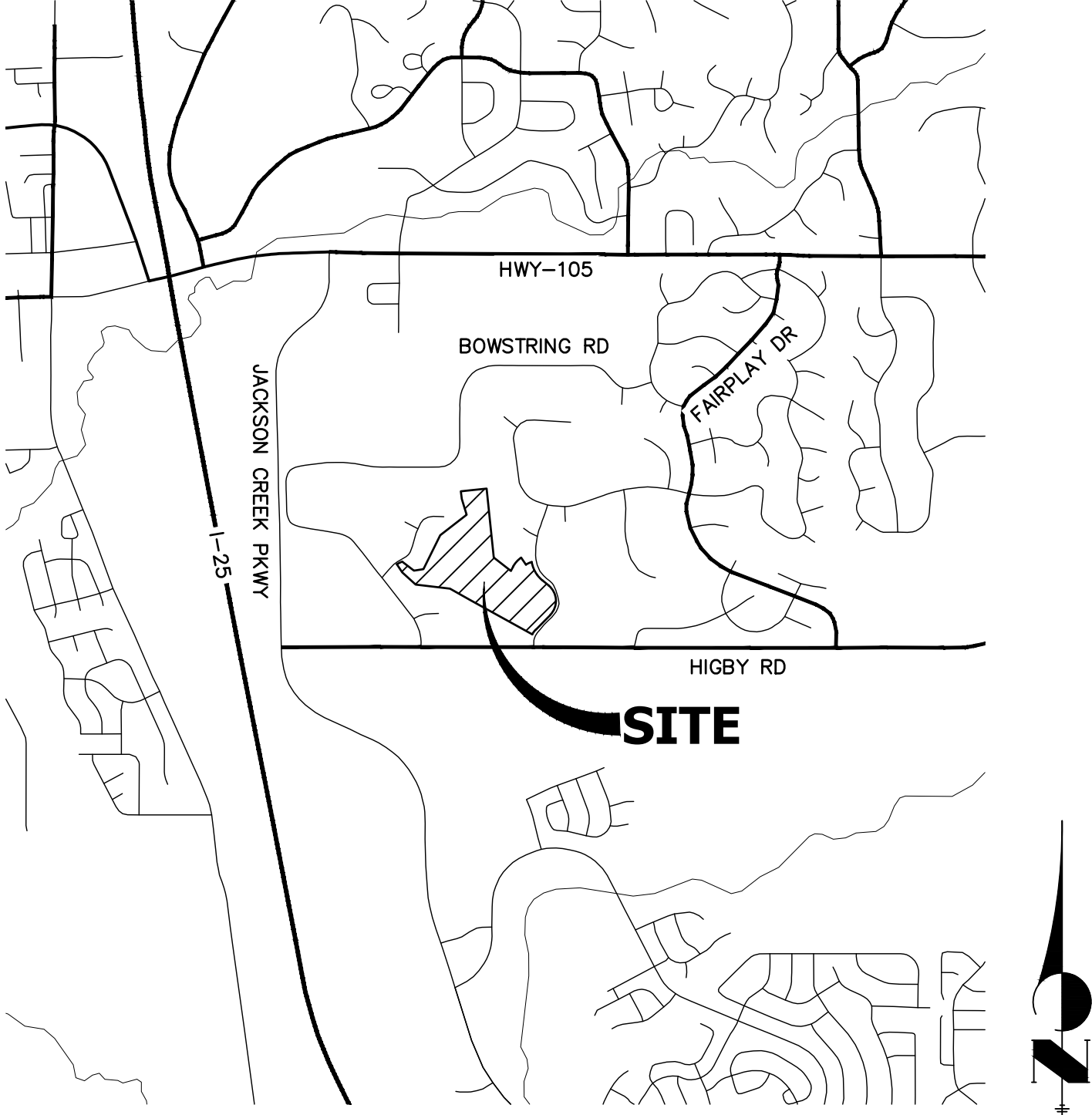
CLOVERLEAF FILING 2
EL PASO COUNTY, COLORADO
STORM SEWER AND POND PLANS

STANDARD NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS

- ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).
- CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOIL AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING:
 - EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
 - CITY OF COLORADO SPRINGS/ EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2
 - COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS AND BRIDGE CONSTRUCTION
 - CDOT M&S STANDARDS
- 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 VERSIONS 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.
- 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.
- CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES 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.
- CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.
- CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
- SIGHT VISIBILITY TRIANGLES ARE IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED IN SIGHT TRIANGLES.
- SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS AND MUTCD CRITERIA.
- CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
- THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWENER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

NOTES

- SEE SHEET 1 FOR BENCHMARK. SEE SHEET 2 FOR LEGEND.
- ALL STATIONING IS PIPE CENTERLINE UNLESS OTHERWISE NOTED.
- ALL RCP STORM SEWER SHALL BE CLASS III UNLESS OTHERWISE NOTED.
- PIPE LENGTHS ARE FROM INSIDE INLET WALL TO INSIDE INLET WALL, FROM CENTER OF MANHOLE TO INSIDE INLET WALL, OR FROM CENTER OF MANHOLE TO CENTER OF MANHOLE. PIPE LENGTHS INCLUDE FES OR HEADWALL.
- ALL MANHOLE COVERS SHALL BE ORIENTED TO AVOID CURB, GUTTER, SIDEWALK AND CROSSPANS UNLESS OTHERWISE NOTED.
- ALL MANHOLES ARE EL PASO COUNTY TYPE II UNLESS OTHERWISE SPECIFIED.
- ALL MANHOLES HAVE AN ECCENTRIC CONE UNLESS OTHERWISE SPECIFIED.
- ALL ON-GRADE INLETS ARE TO MATCH TBC ELEVATIONS AT EACH END, FOLLOWING STREET GRADES. SEE ROADWAY PLANS FOR REQUIRED ELEVATIONS.
- INLET STATIONING IS TO CENTER OF INLET.
- PIPES SHALL HAVE JOINT RESTRAINTS ON LAST 3 JOINTS AT PIPE OUTFALL.
- ALL CURVED PIPES SHALL BE BUILT IN ACCORDANCE WITH THE AMERICAN CONCRETE PIPE ASSOCIATION (ACPA) DESIGN DATA 21. PIPE MANUFACTURER TO BE USED MUST BE ABLE TO MEET LENGTH AND JOINT OPENING CRITERIA PER ACPA & ALL APPLICABLE EL PASO COUNTY CRITERIA AND STANDARDS.
- PIPE BEDDING SHALL CONFORM TO EL PASO COUNTY CONSTRUCTION STANDARDS AND SPECIFICATIONS. BEDDING FOR RCP PIPE SHALL BE AG7122 NO. 57/67 CRUSHED ROCK. SQUEEGEE OR MIXTURES CONTAINING SQUEEGEE SHALL NOT BE USED. BEDDING SHALL BE SIX TO EIGHT INCHES DEEP UNDER THE PIPE AND BACKFILLED TO THE SPRING LINE.
- ALL STORM SEWER PIPES, INLETS, MANHOLES, AND APPURTENANCES WITHIN THE R.O.W. ARE PUBLIC. STORM FACILITIES OUTSIDE OF THE PUBLIC R.O.W. ARE PRIVATE, UNLESS OTHERWISE NOTED.
- WHERE PIPES ENTER STRUCTURES ON A SKEW, CONTRACTOR IS REQUIRED TO EXTEND PIPE TO ENSURE THAT BOTH EDGES OF THE PIPE EXTEND INTO THE STRUCTURE. CONTRACTOR WILL THEN BE REQUIRED TO CUT PIPE FLUSH WITH THE INSIDE FACE OF THE STRUCTURE AND GROUT IN PLACE. UNLESS OTHERWISE NOTED.
- ALL MATERIALS AND INSTALLATION PROCEDURES SHALL BE IN COMPLIANCE WITH MANUFACTURERS SPECIFICATIONS AND EL PASO COUNTY STANDARDS AND SPECIFICATION.
- SEE DETAIL SHEETS FOR APPLICABLE DETAILS.
- ALL INLETS REQUIRE A CURB TYPE AND FL TRANSITION (LOCAL DEPRESSION) DETAILED PER CDOT (M-604-12) TYPE R INLET DETAIL. SEE JR ROADWAY PLAN SHEETS AND DETAIL SHEET.
- PIPES WITH PRESSURE HEAD SHALL USE WATER TIGHT JOINTS WITH A 100-YEAR SERVICE LIFE.
- CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ALL EL PASO COUNTY TYPE I MANHOLES PRIOR TO CONSTRUCTION OR ORDERING MATERIALS.



VICINITY MAP

SCALE: 1"=2000'

SHEET INDEX

- | | | |
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| 1 | - | COVER SHEET |
| 2 | - | LEGEND |
| 3-8 | - | STORM SEWER PLAN AND PROFILE |
| 9-25 | - | POND PLANS AND DETAILS |
| 26-28 | - | DETAIL SHEET |

CONTACTS:

OWNER	CND-CLOVERLEAF, LLC ATTN: AZIZ SIDDIQUI 1111 N. POST OAK ROAD HOUSTON, TX 77055 P~224-415-6619
DEVELOPER	MONUMENT HILL CM LLC ATTN: JOE DESJARDIN 1864 WOODMOOR DRIVE, SUITE 100 COLORADO SPRINGS, CO 80920 P~719-476-0800
CONTRACTOR/OPERATOR (EROSION CONTROL)	MONUMENT HILL CM LLC ATTN: CHARLIE WILLIAMS 1864 WOODMOOR DRIVE, SUITE 100 COLORADO SPRINGS, CO 80920 P~719-492-1933
ENGINEER/SURVEYOR	JR ENGINEERING, LLC ATTN: MIKE A. BRAMLETT 5475 TECH CENTER DRIVE, SUITE 235 COLORADO SPRINGS, CO 80919 P~303-267-6240
FIRE PROTECTION DISTRICT	TRI-LAKES MONUMENT FPD 16055 OLD FOREST POINT, SUITE 103 MONUMENT, CO 80132 P~719-484-0911
DISTRICT	WOODMOOR WATER & SANITATION DISTRICT NO. 1 1845 WOODMOOR DRIVE MONUMENT, CO 80132 P~719-488-2525 EXT. 0
EL PASO COUNTY	PLANNING AND COMMUNITY DEVELOPMENT 2880 INTERNATIONAL CIRCLE, SUIT 110 COLORADO SPRINGS, CO 80910 P~719-520-6819 DEPARTMENT OF PUBLIC WORKS 3275 AKERS DR COLORADO SPRINGS, CO 80922 P~719-529-6460

BENCHMARK

NGS MONUMENT T 294 BEING MONUMENTED BY A 3-1/4" BRASS DISC SET IN A 4'X4' BOULDER, LOCATED 1.8 MILES EAST ALONG HIGBY ROAD FROM ITS INTERSECTION WITH JACKSON CREEK PARKWAY, 40 FEET SOUTH OF THE CENTERLINE OF THE ROAD, 6 FEET SOUTH OF A FENCE, AND 6.2 FEET SOUTH OF A WITNESS POST. SAID MONUMENT HAVING A PUBLISHED ELEVATION OF 7247.10 FEET, NAVD88.

BASIS OF BEARING

THE BASIS OF BEARINGS IS THE WESTERLY LINE OF TRACT, B, WOODMOOR PLACER, BEING MONUMENTED BY A 1-1/4" YELLOW PLASTIC CAP ILLEGIBLE AT BOTH ENDS. SAID LINE BEARING N26°20'33"E AS REFERENCED TO COLORADO STATE PLANE CENTRAL ZONE.

OWNER/DEVELOPER STATEMENT

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

✓ *Joseph W. Desjardin* 11/12/2021

JOE DESJARDIN DATE

MONUMENT HILL CM LLC
1864 WOODMOOR DRIVE, SUITE 100
COLORADO SPRINGS, CO 80920

EL PASO COUNTY STATEMENT

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

JENNIFER IRVINE, P.E. DATE

COUNTY ENGINEER/ECM ADMINISTRATOR

ENGINEER'S STATEMENT

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECT 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 PLAN AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

Mike A. Bramlett 11/11/21

MIKE A. BRAMLETT, P.E. 32314 DATE

COLORADO PROFESSIONAL ENGINEER
FOR AND ON BEHALF OF JR ENGINEERING, LLC

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, OR ENGINEERING APPROVES THEIR USE, THESE DRAWINGS ARE DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR
MONUMENT HILL CM LLC
1864 WOODMOOR DR, SIE 100
COLORADO SPRINGS, CO 80920
ATTN: JOE DESJARDIN
(719) 476-0800
JDESJARDIN@PROTERRACO.COM

J.R. ENGINEERING
A Western Company
Central 303-740-9888 • Colorado Springs 719-583-2583
Fort Collins 970-491-9888 • www.jrengineering.com

BY	DATE	REVISION	REPLOTTED SHEETS	H-SCALE	V-SCALE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY
GAG	12/15/21	1	N/A	11/11/21	SAV	SAV			
CLOVERLEAF FILING 2									
COVER SHEET									
SHEET 1 OF 28									
JOB NO. 25158.01									



Know what's below.
Call before you dig.

LAYER LINETYPE LEGEND

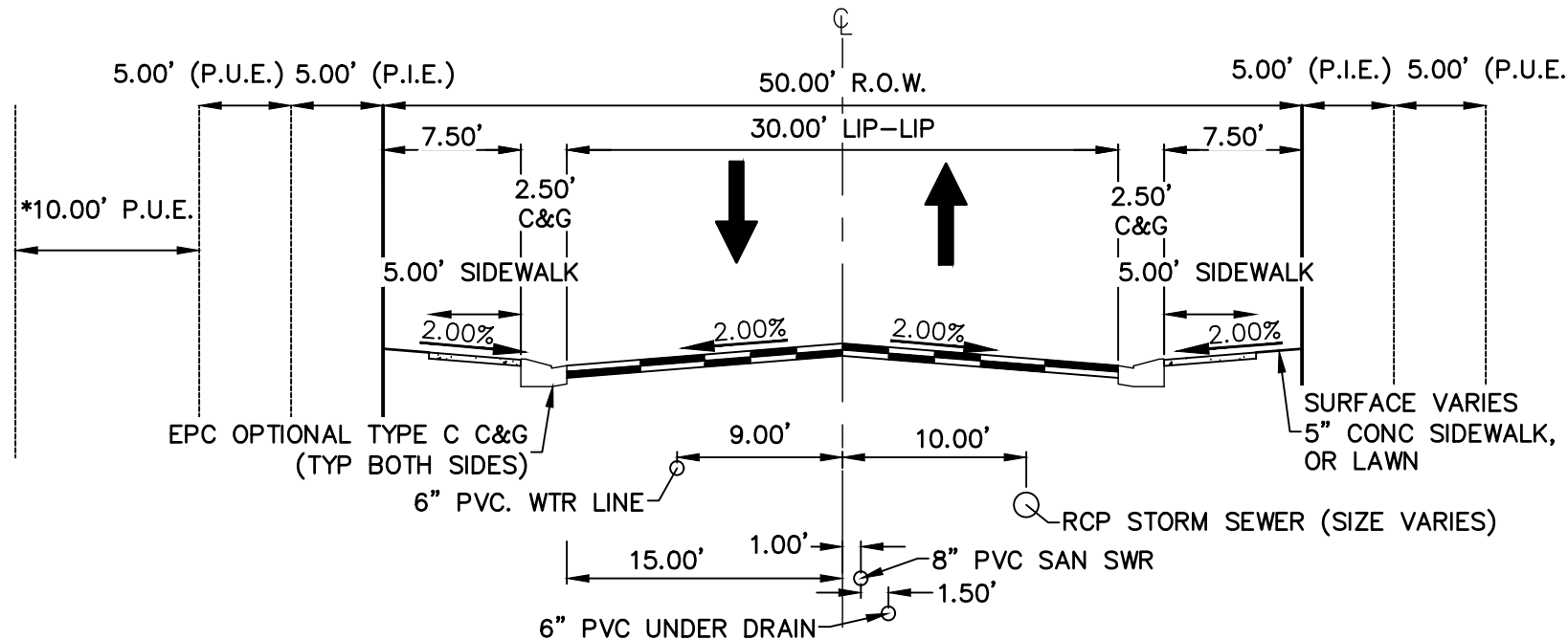
	EXISTING	PROPOSED
PHASE LINE		
MATCH LINE		
SECTION LINE		
BOUNDARY LINE		
PROPERTY LINE		
EASEMENT LINE		
RIGHT OF WAY		
R.O.W. A LINE		
CENTERLINE		
CITY LIMITS		
WIRE FENCE		
CHAIN LINK FENCE		
WOOD FENCE		
MASONRY FENCE		
GUARDRAIL		
CONC. BARRIER		
CABLE TV		
ELECTRIC		
FIBER OPTIC		
GAS MAIN		
IRRIGATION MAIN		
OIL/PETRO. MAIN		
OVERHEAD UTILITY		
SANITARY SEWER		
STORM DRAIN		
TELEPHONE		
WATER MAIN		
RAW WATER LINE		
SWALE/WATERWAY FLOWLINE		
DIVERSION DITCH		
DIVERSION CHANNEL		
MAJOR DRAINAGE BASIN		
MINOR DRAINAGE BASIN		
TOP OF SLOPE		
TOE OF SLOPE		
EDGE OF WATER		
INDEX CONTOUR		
INTERMEDIATE CONTOUR		
DEPRESSION CONT. (INDEX)		
DEPRESSION CONT. (INTER)		
TOP OF CUTS		
TOE OF FILLS		
CUT AND FILL LINE		
SILT FENCE		
100 YEAR FLOODPLAIN		
500 YEAR FLOODPLAIN		
FLOODWAY		
BASE FLOOD ELEVATION		
EDGE OF WETLANDS		
STONE WALL		

LANDSCAPE LEGEND

	EXISTING	PROPOSED
TREE - CONIFEROUS		
TREE - DECIDUOUS		
SHRUB/BUSH		
SHRUBS AND BUSHES		
IRRIGATION BOX		
IRRIGATION SPRINKLER		
IRRIGATION VALVE		
BOLLARD		
FLAGPOLE		

UTILITIES LEGEND

	EXISTING	PROPOSED
STORM SEWER		
MANHOLE		
STORM INLET		
AREA INLET - SQUARE		
AREA INLET - ROUND		
FLARED END SECTION		
RIPRAP		
SANITARY SEWER		
LINE MARKER		
SERVICE MARKER		
CLEAN-OUT		
MANHOLE W/ DIRECTIONAL FLOW ARROW		
WATER LINE		
LINE MARKER		
SERVICE MARKER		
FIRE HYDRANT		
FIRE CONNECTION		
MANHOLE		
BEND		
BLOW-OFF VALVE		
WELL		
METER		
VALVE		
REDUCER		
THRUST BLOCK		
CROSS		
PLUG W/ THRUST BLOCK		
TEE		
REVERSE ANCHOR		
ANODE		
AIR & VACUUM VALVE ASSEMBLY		
TRANSMISSION BLOW-OFF ASSEMBLY		
GAS LINE		
MARKER		
SERVICE MARKER		
METER		
VALVE		
PLUG		
TEE		
DRY UTILITIES		
CABLE TV MARKER		
CABLE TELEVISION PEDESTAL		
ELECTRIC MARKER		
ELECTRIC SERVICE MARKER		
ELECTRICAL PEDESTAL		
ELECTRICAL METER		
ELECTRICAL MANHOLE		
FIBER-OPTIC MARKER		
IRRIGATION PEDESTAL		
TELEPHONE MARKER		
TELEPHONE PEDESTAL		
TELEPHONE MANHOLE		
UTILITY POLE		
GUY ANCHOR		
GUY POLE		
MISC. UTILITIES		
VENT PIPE		
TEST HOLE DESIGNATOR		



TYPICAL CROSS SECTION

N.T.S. (ALSKE CLOVER CT, CRIMSON CLOVER DR, WHITE CLOVER DRIVE)
(PUBLIC ROAD, URBAN LOCAL, POSTED SPEED LIMIT = 25 MPH)
(*SEE PLAN VIEW FOR 10' PUE LOCATION)

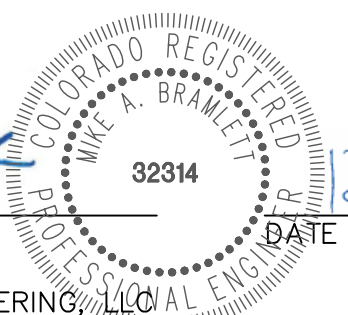
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COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, INC.

PREPARED FOR

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1864 WOODMOOR DR, STE 100
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BY

DATE

REVISION

No.

N/A

N/A

12/15/21

SAV

SAV

DESIGNED BY

DRAWN BY

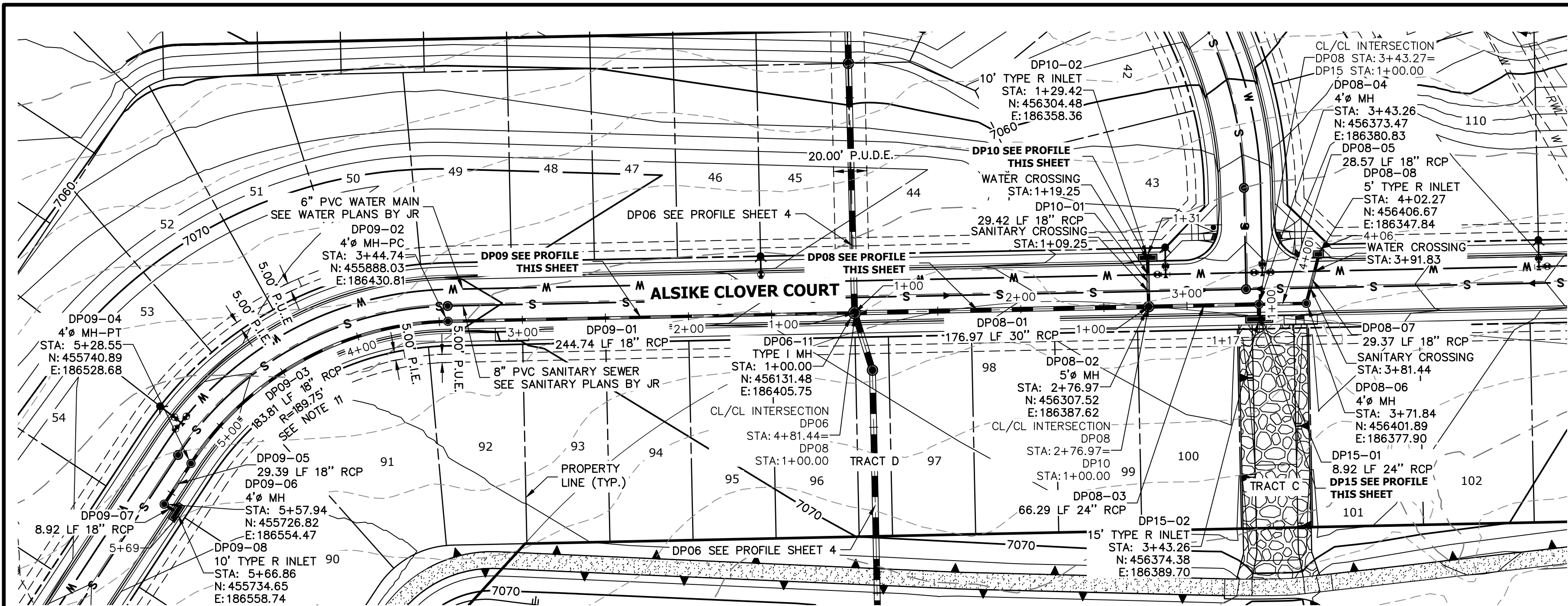
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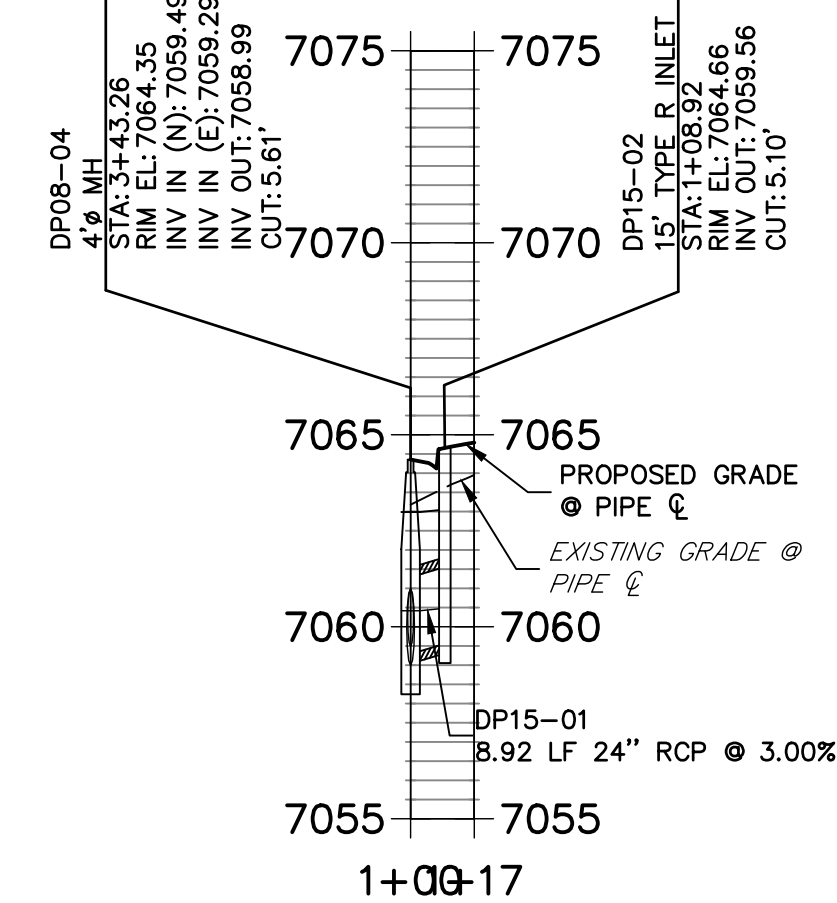
LEGEND

SHEET 2 OF 28

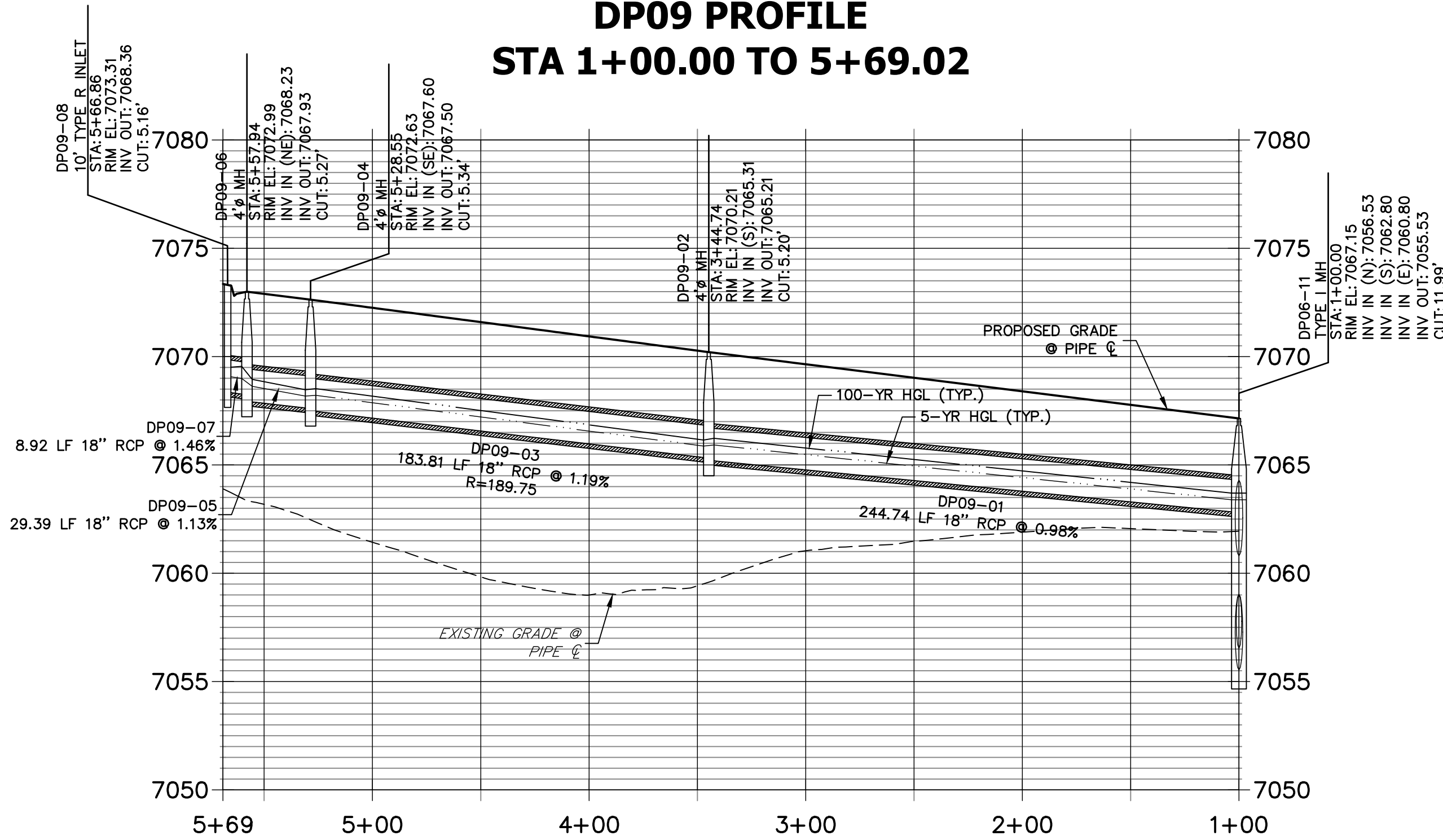
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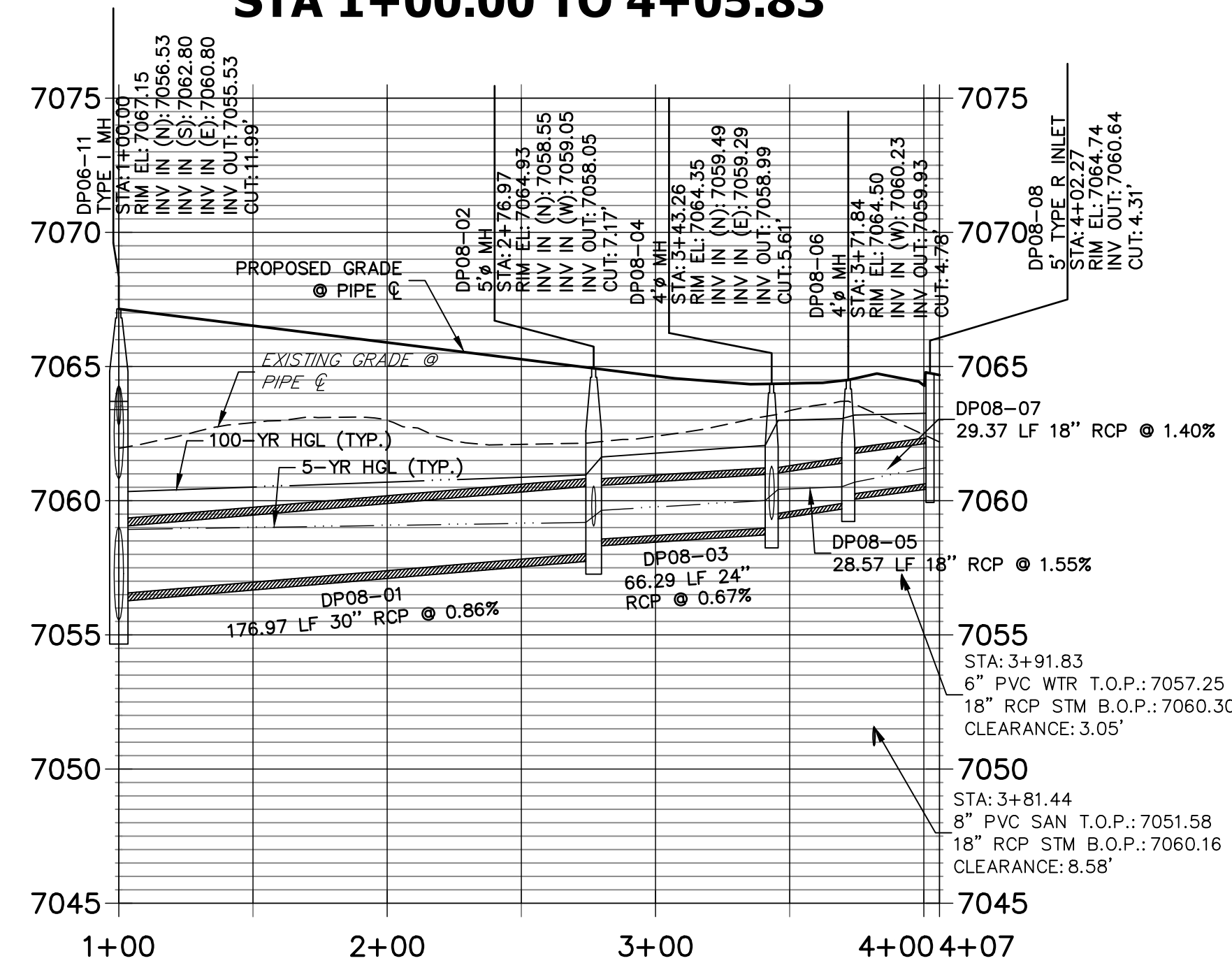
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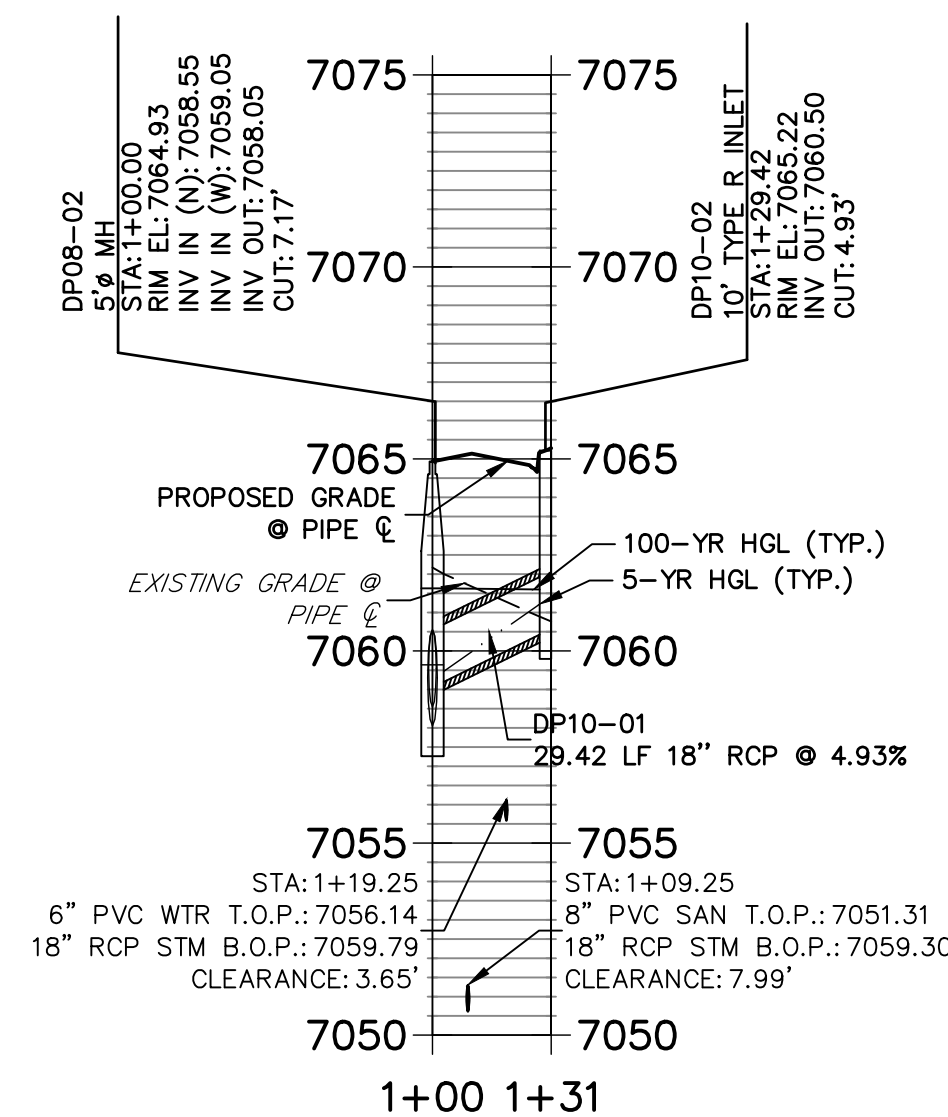
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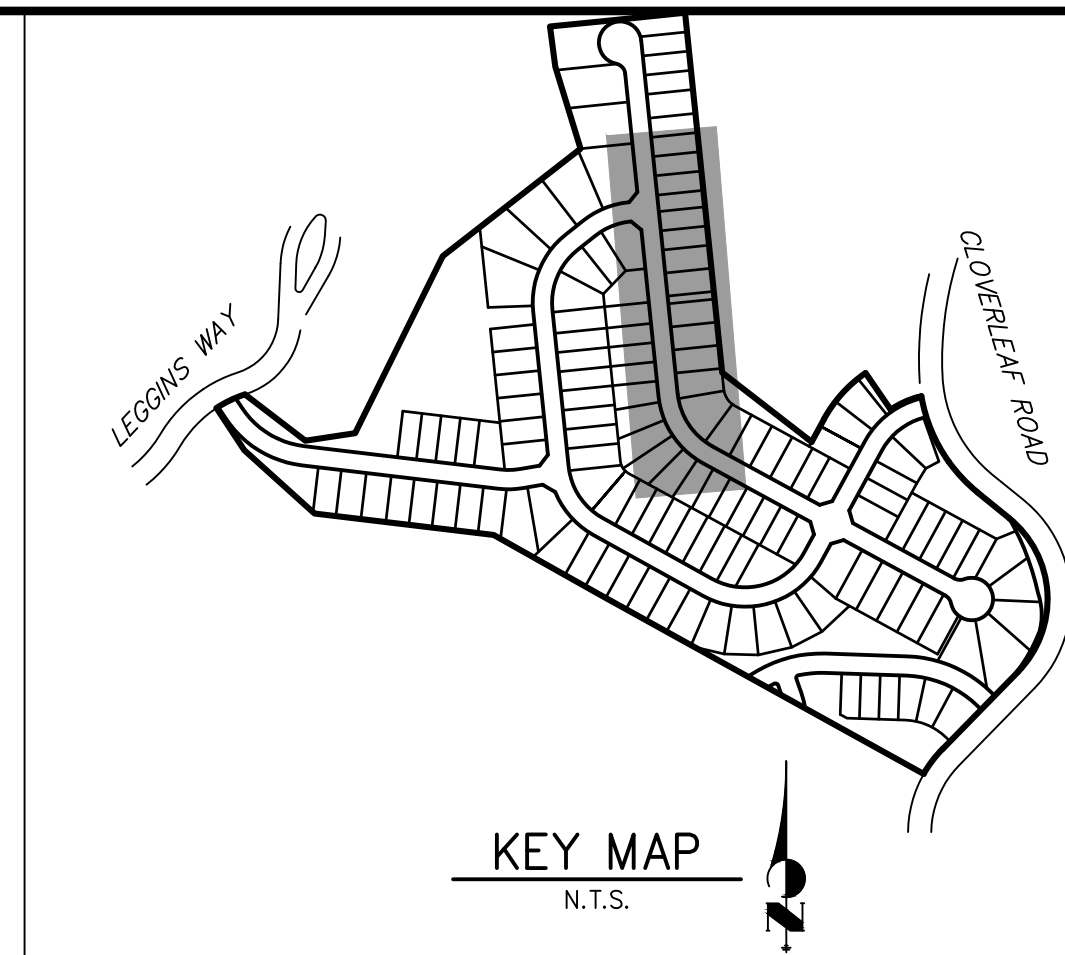
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DP10 PROFILE
STA 1+00.00 TO 1+30.92



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 - CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ALL EL PASO COUNTY TYPE I MANHOLES PRIOR TO CONSTRUCTION OR ORDERING MATERIALS.



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PREPARED FOR
MONUMENT HILL CM LLC
1864 WOODMOOR DR, STE 100
COLORADO SPRINGS, CO 80920
ATTN: JOE DESJARDIN
(719) 476-0800
JDESJARDIN@PROTERRACO.COM

J.R. ENGINEERING
A Westman Company

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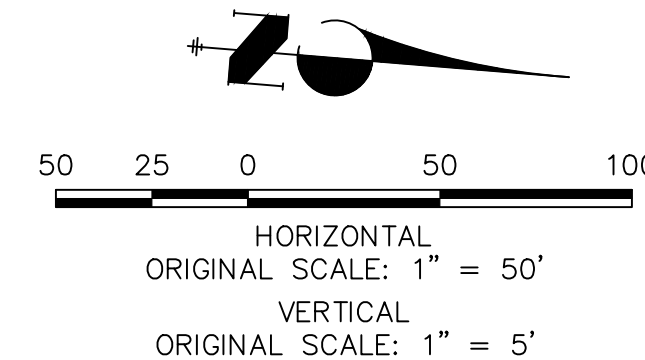
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CLOVERLEAF FILING 2

STORM SEWER PLAN AND PROFILE

SHEET 3 OF 28

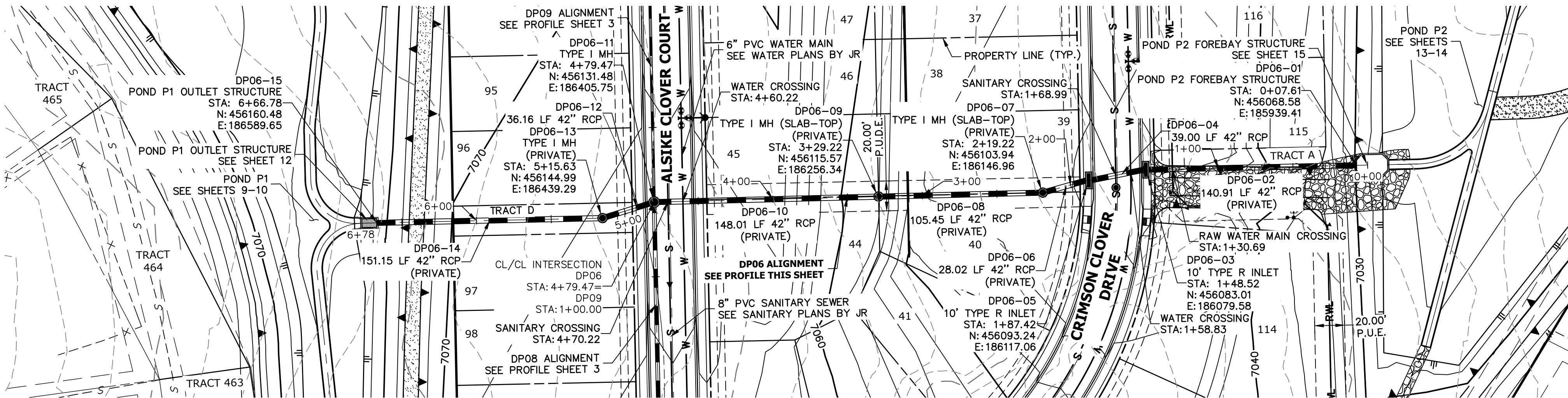
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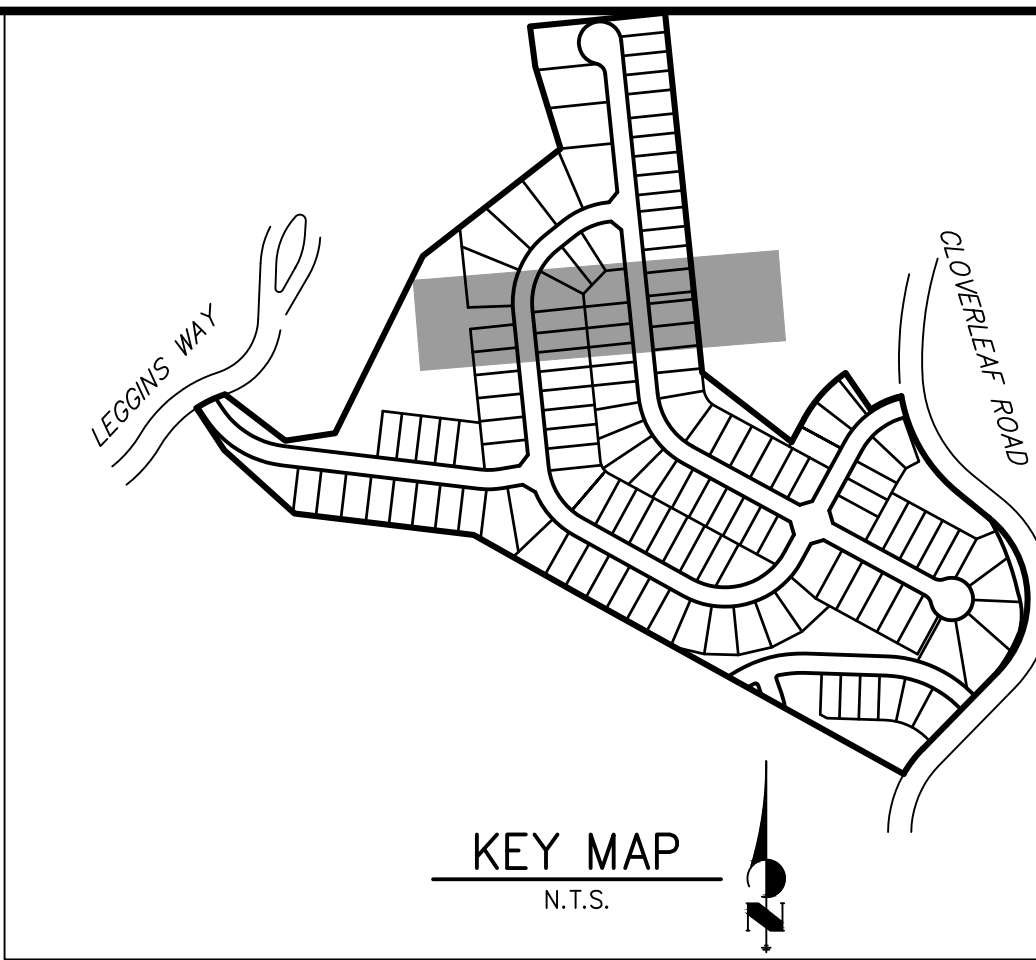
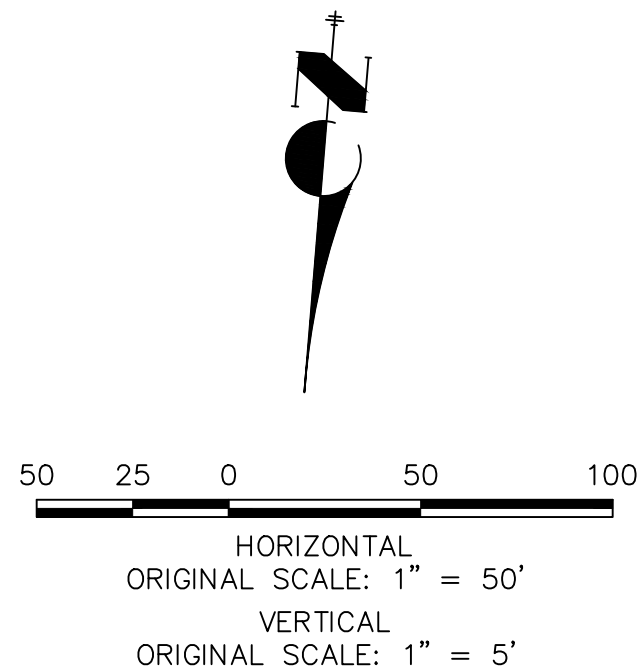
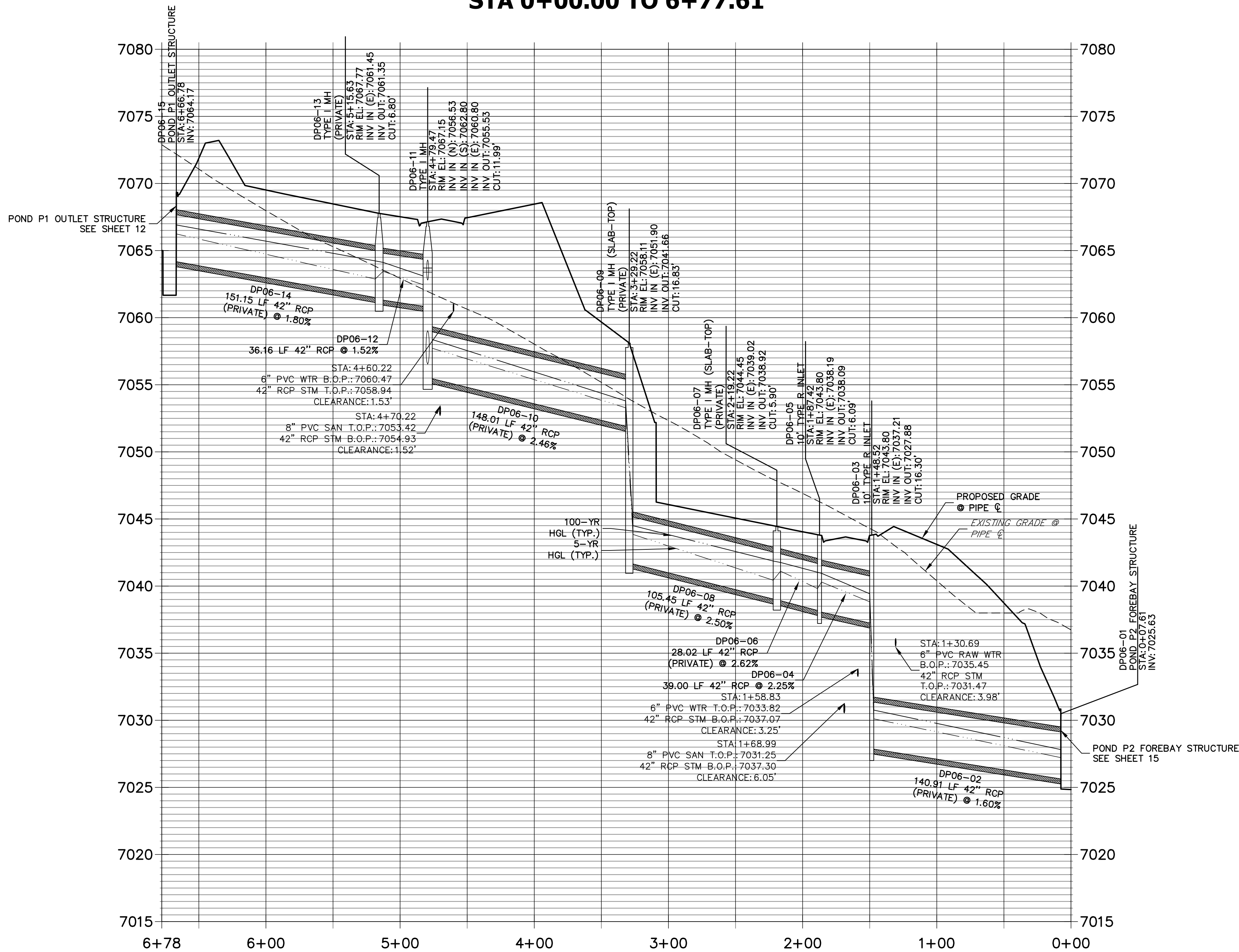
ENGINEER'S STATEMENT
PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING

MIKE A. BRAMLETT, P.E.
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, LOCAL ENGINEERING

DATE 12/15/21



DP06 PROFILE
STA 0+00.00 TO 6+77.61



- NOTES**
- SEE SHEET 1 FOR BENCHMARK. SEE SHEET 2 FOR LEGEND.
 - ALL STATIONING IS PIPE CENTERLINE UNLESS OTHERWISE NOTED.
 - ALL RCP STORM SEWER SHALL BE CLASS III UNLESS OTHERWISE NOTED.
 - PIPE LENGTHS ARE FROM INSIDE INLET WALL TO INSIDE INLET WALL, FROM CENTER OF MANHOLE TO INSIDE INLET WALL, OR FROM CENTER OF MANHOLE TO CENTER OF MANHOLE. PIPE LENGTHS INCLUDE FES OR HEADWALL.
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 - ALL MANHOLES ARE EL PASO COUNTY TYPE II UNLESS OTHERWISE SPECIFIED.
 - ALL MANHOLES HAVE AN ECCENTRIC CONE UNLESS OTHERWISE SPECIFIED.
 - ALL ON-GRADE INLETS ARE TO MATCH TBC ELEVATIONS AT EACH END, FOLLOWING STREET GRADES. SEE ROADWAY PLANS FOR REQUIRED ELEVATIONS.
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 - PIPE BEDDING SHALL CONFORM TO EL PASO COUNTY CONSTRUCTION STANDARDS AND SPECIFICATIONS. BEDDING FOR RCP PIPE SHALL BE AG7122 NO. 57/67 CRUSHED ROCK, SQUEEGEE OR MIXTURES CONTAINING SQUEEGEE SHALL NOT BE USED. BEDDING SHALL BE SIX TO EIGHT INCHES DEEP UNDER THE PIPE AND BACKFILLED TO THE SPRING LINE.
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ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING

Mike A. Bramlett, P.E.
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, LLC

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE AGENCIES, OR ENGINEERING APPROVES THEIR USES DESIGNATED BY WRITTEN AUTHORIZATION.

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BY	DATE	REVISION

H-SCALE	V-SCALE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY
1"=50'	1"=5'	12/15/21	APL	APL	

CLOVERLEAF FILING 2

STORM SEWER PLAN AND PROFILE

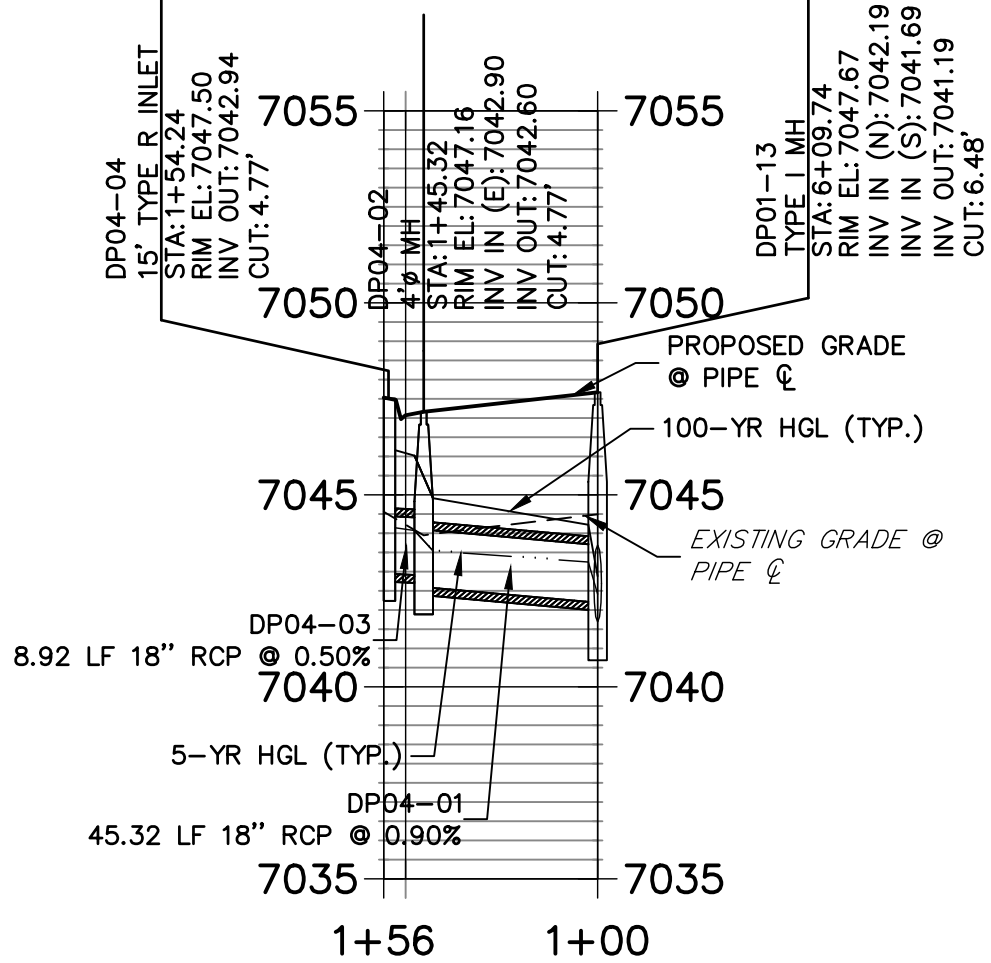
SHEET 4 OF 28

JOB NO. 25158.01

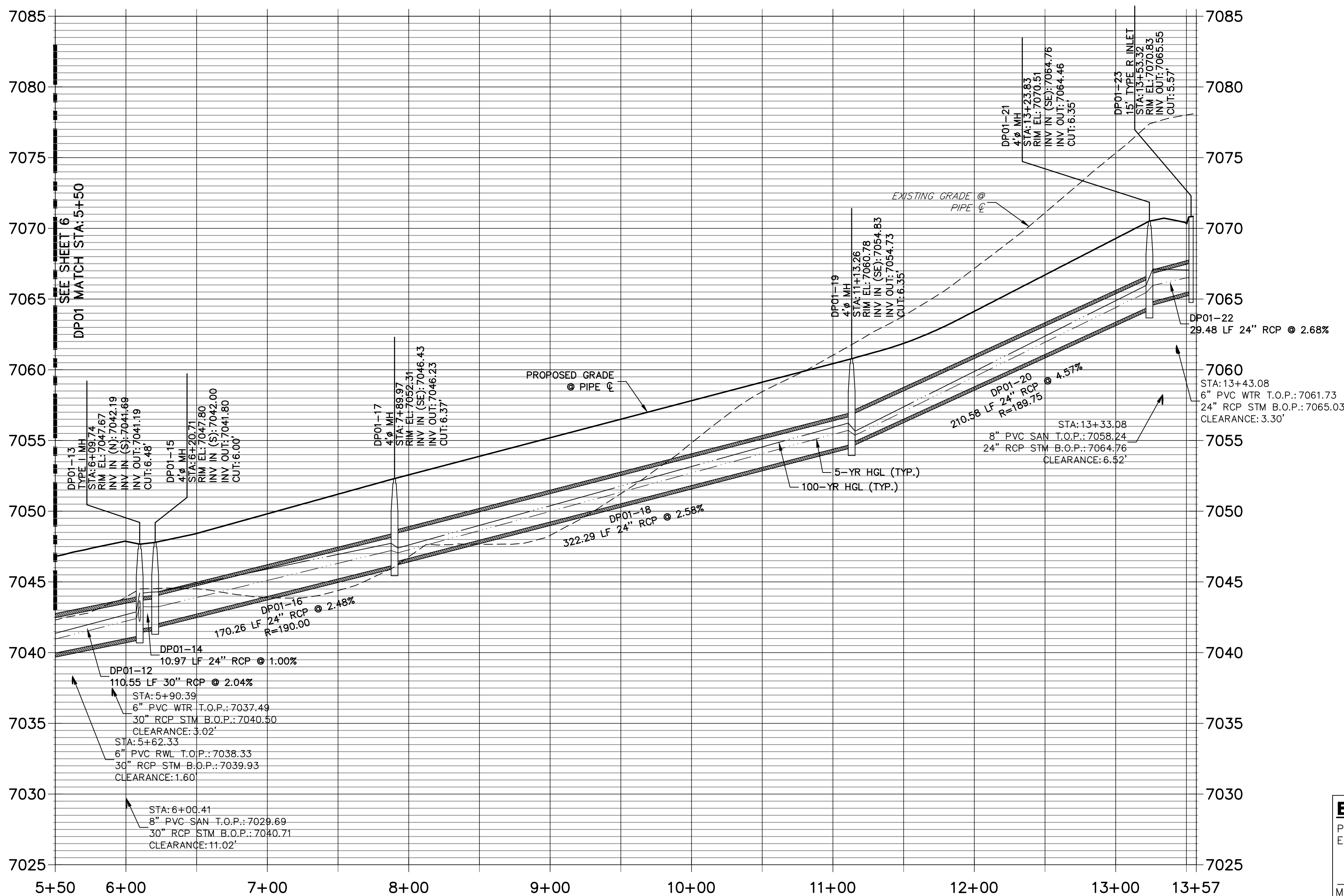


Know what's below.
Call before you dig.

DP04 PROFILE STA 1+00.00 TO 1+55.74

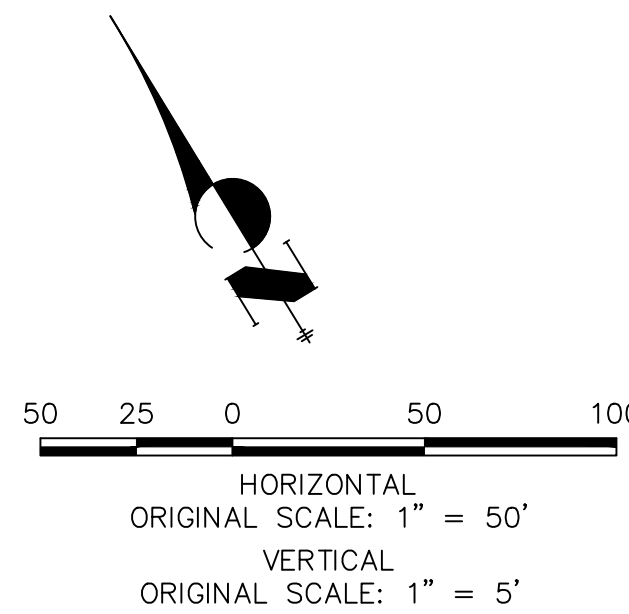


DP01 PROFILE STA 5+50.00 TO 13+56.98



NOTES

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ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING

Mike A. Bramlett, P.E.
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, LLC

CLOVERLEAF FILING 2

STORM SEWER PLAN AND
PROFILE

SHEET 5 OF 28

JOB NO. 25158.01

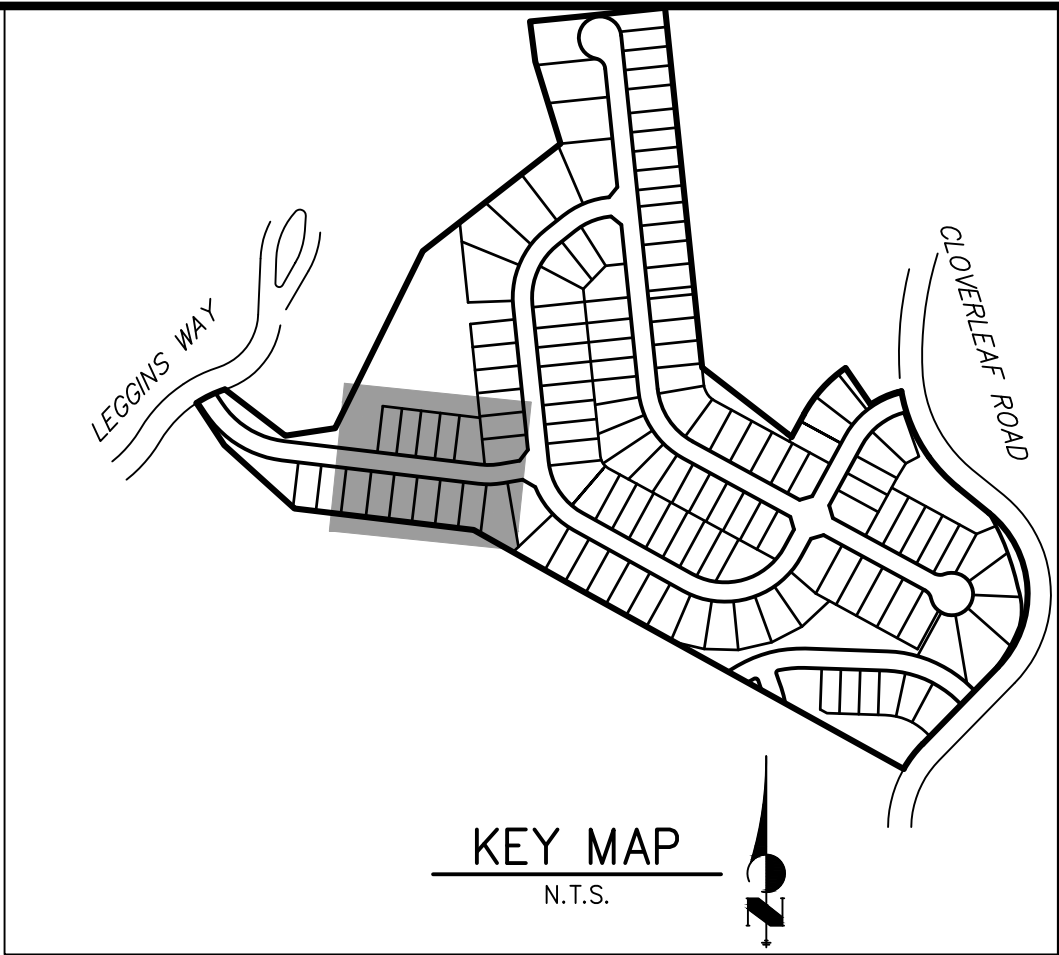
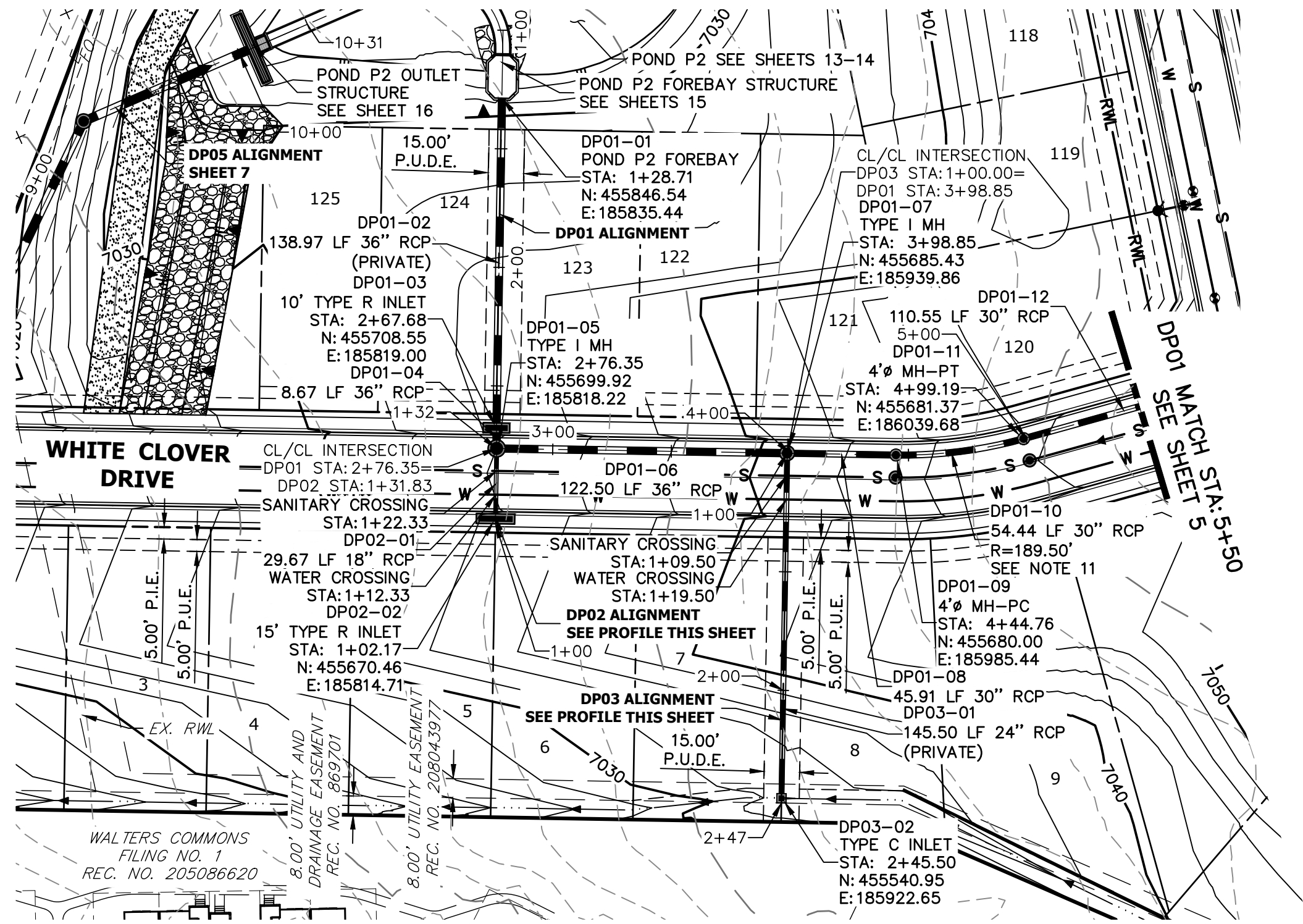
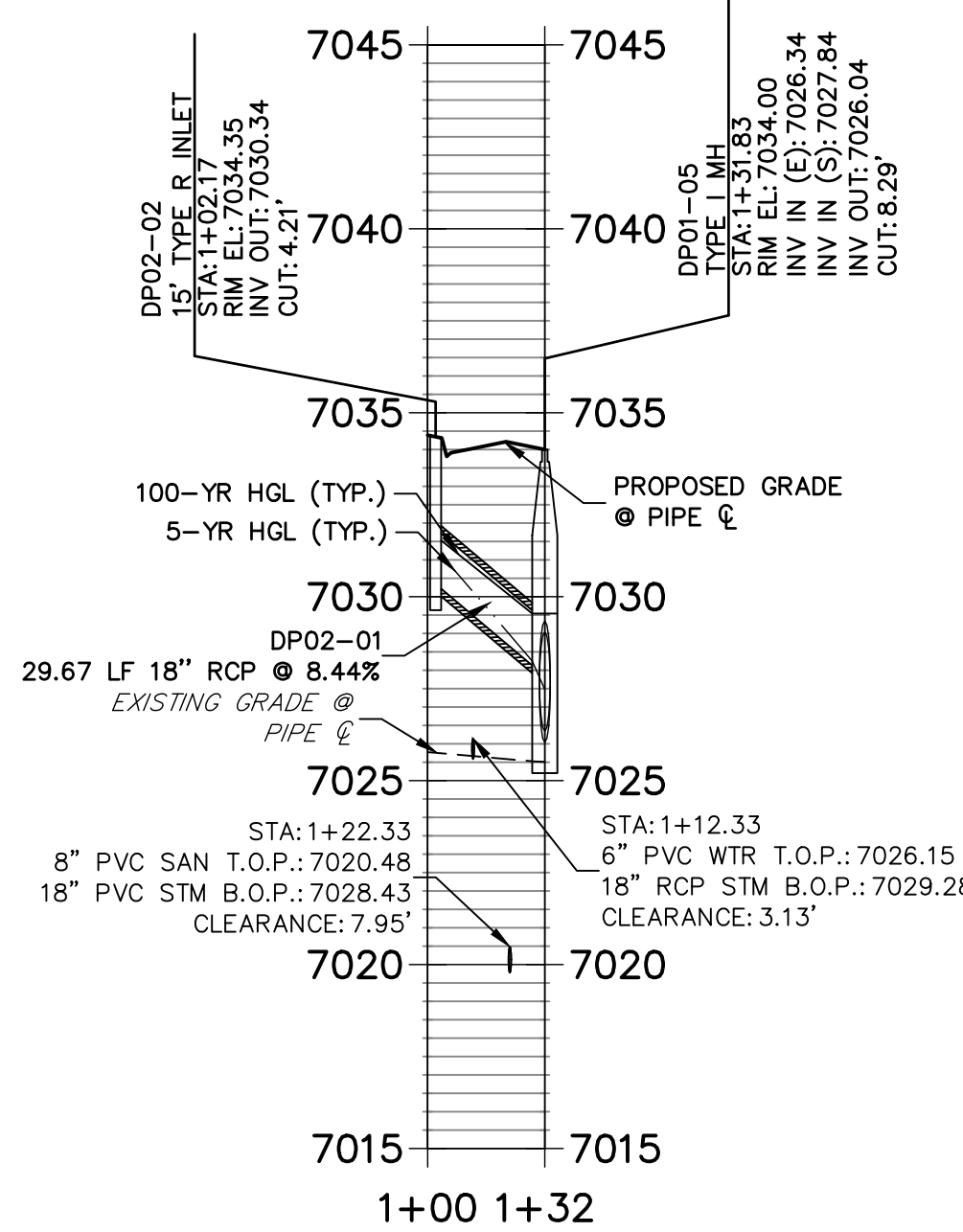
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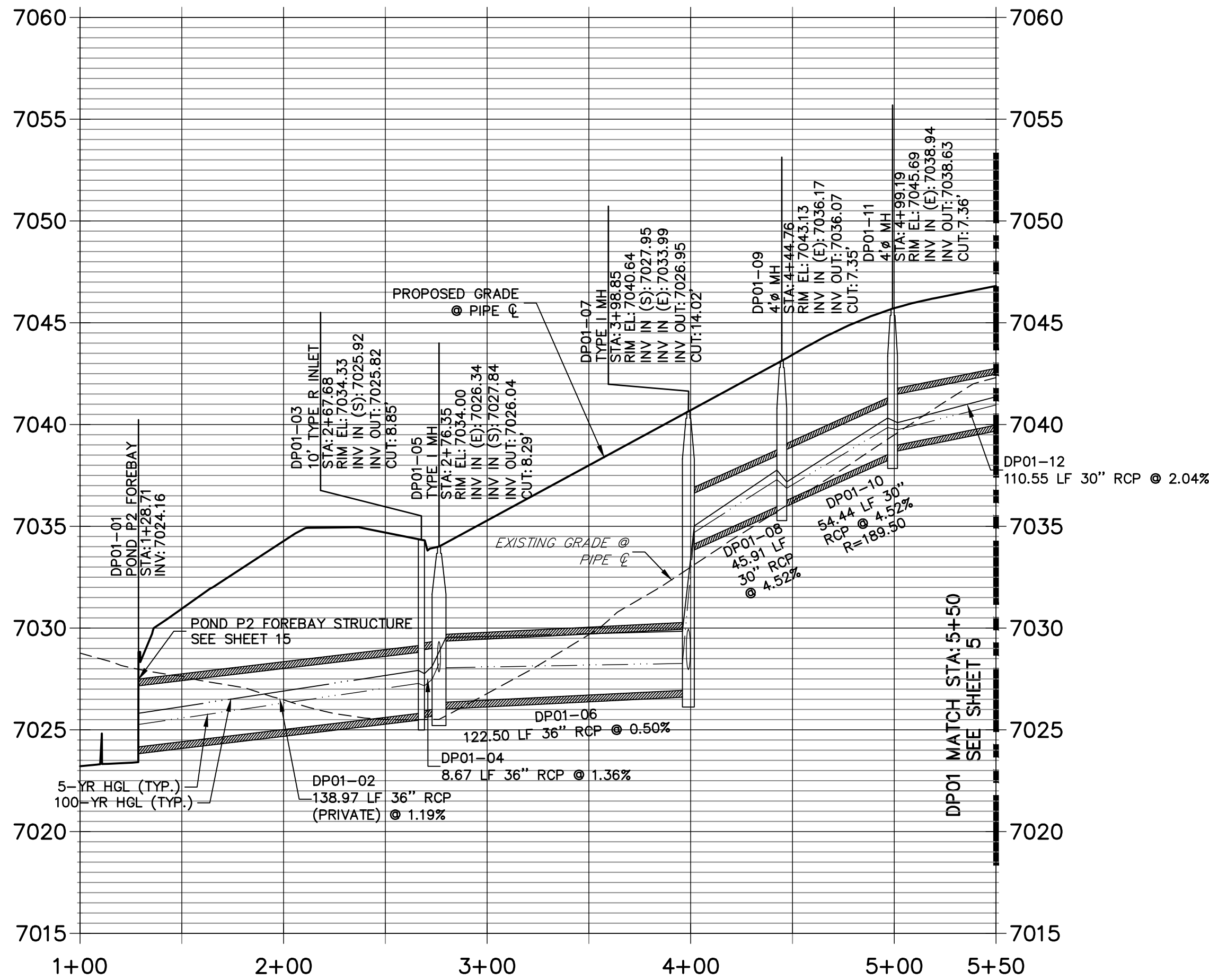
PREPARED FOR
MONUMENT HILL CM LLC
1864 WOODMOOR DR, STE 100
COLORADO SPRINGS, CO 80920
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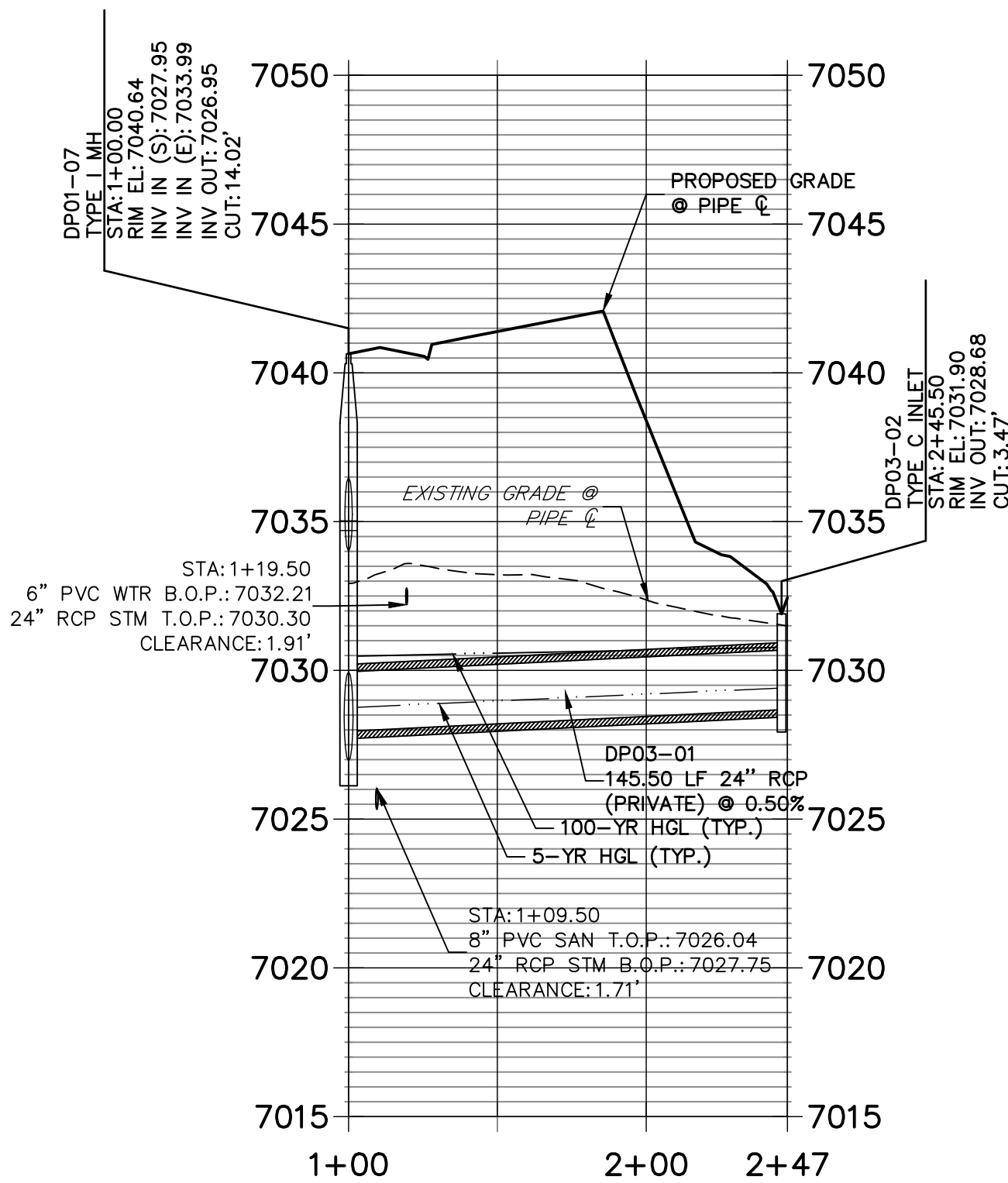
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DP01 PROFILE (1)
STA 1+00.00 TO 5+50.00

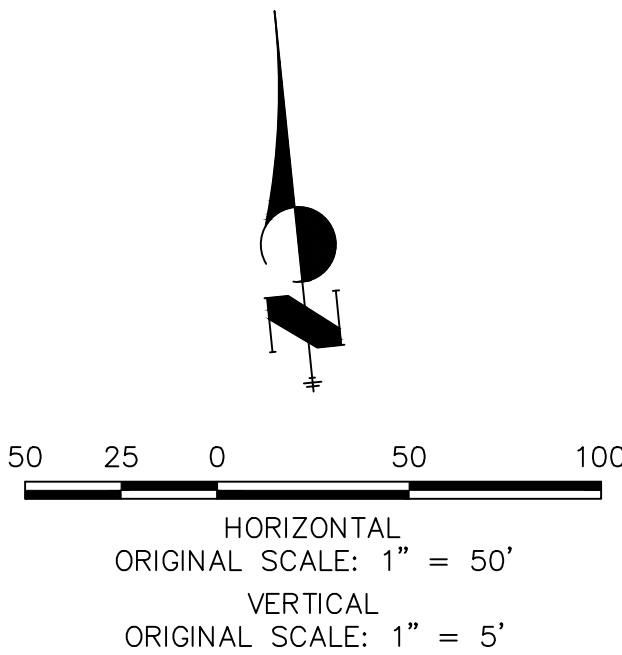


DP03 PROFILE
STA 1+00.00 TO 2+47.46



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ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING

Mike A. Bramlett
32314

MIKE A. BRAMLETT, P.E.
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, LLC

DATE 12/15/21
DATE

CLOVERLEAF FILING 2

STORM SEWER PLAN AND
PROFILE

SHEET 6 OF 28

JOB NO. 25158.01

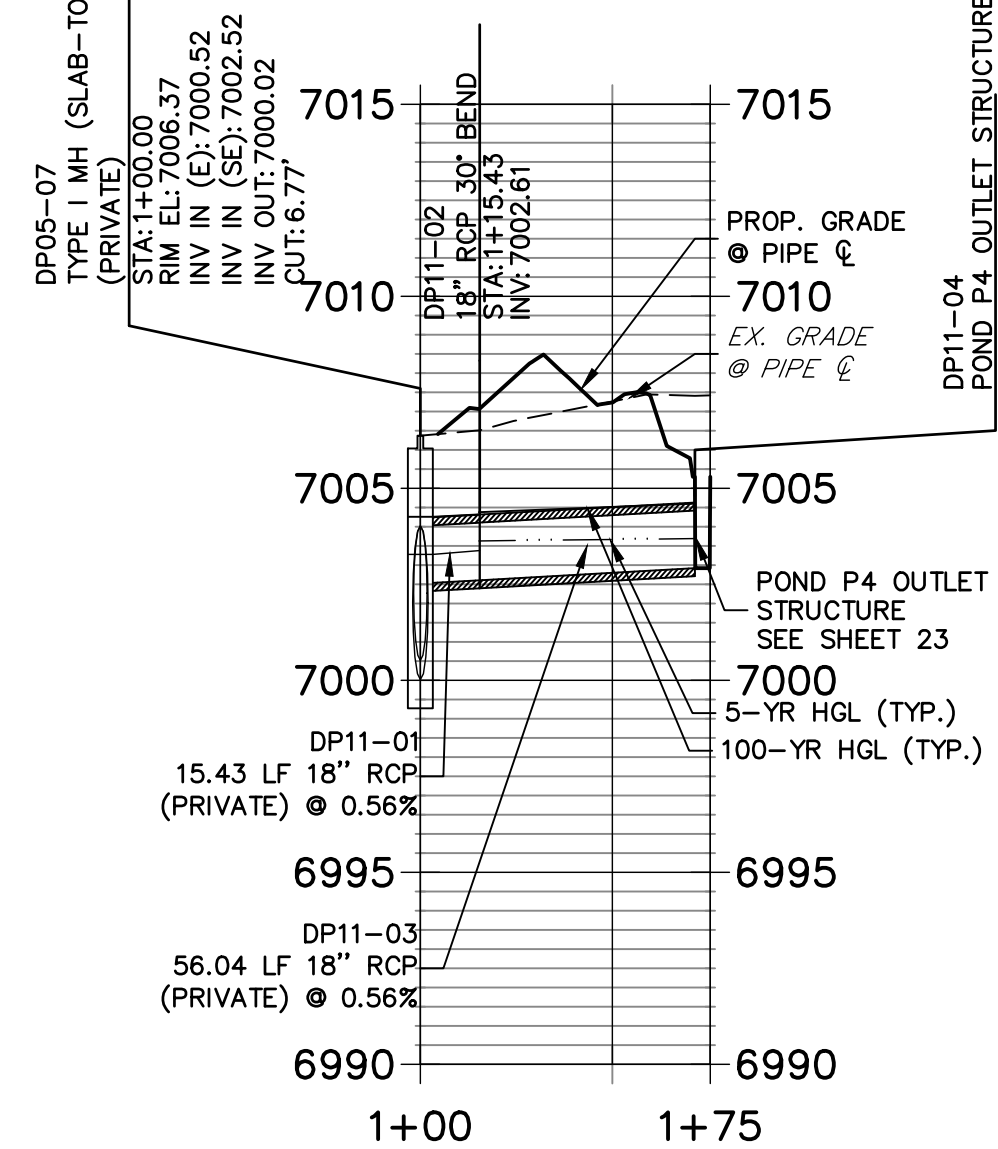
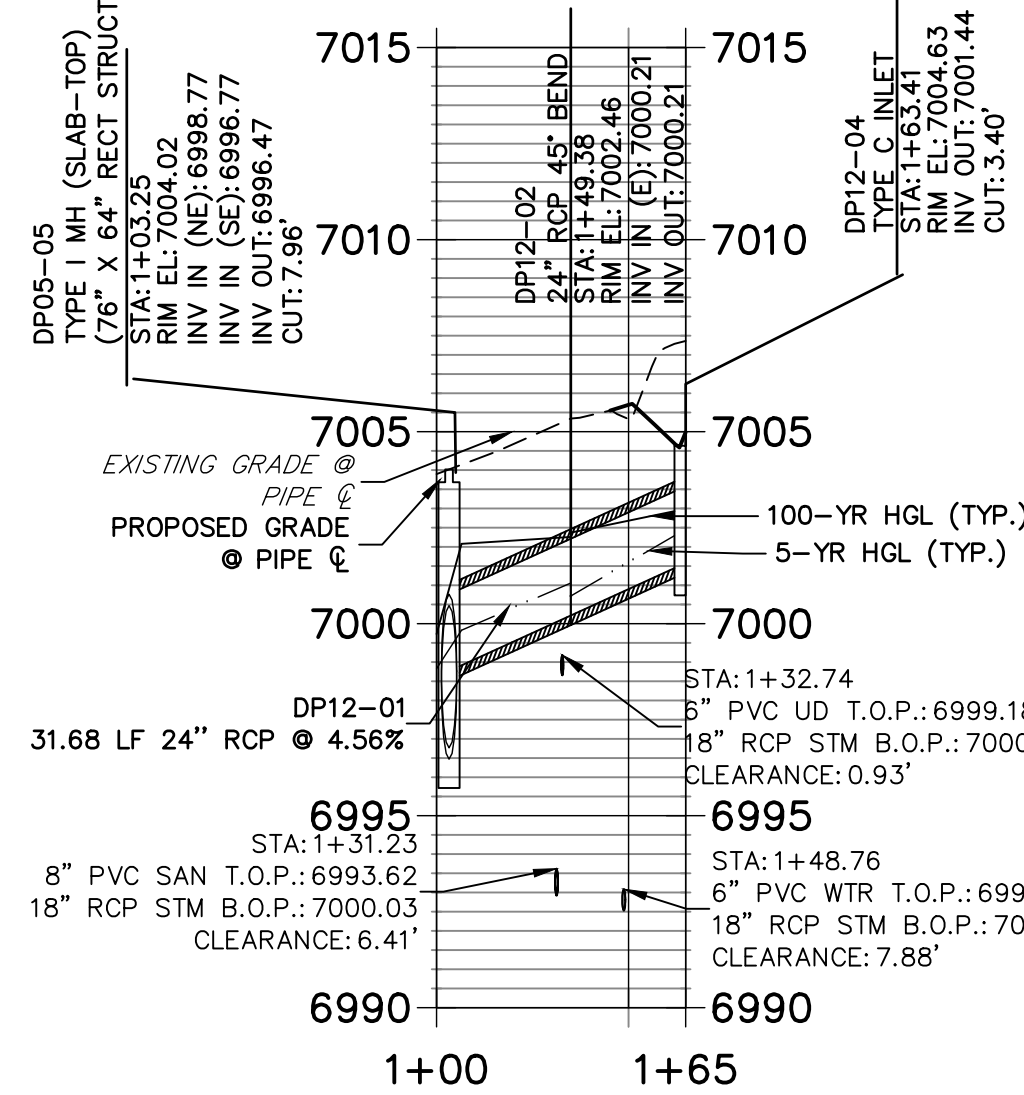
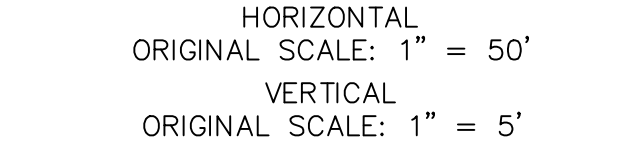
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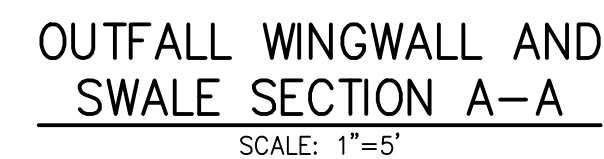
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PREPARED FOR
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1. SEE SHEET 1 FOR BENCHMARK. SEE SHEET 2 FOR LEGEND.
2. SEE SHEET 2 FOR ADDITIONAL NOTES.



PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR
ENGINEERING


 32314
 03-04-22
 DATE
 MIKE A. BRAMLETT, P.E.
 COLORADO P.E. 32314
 FOR AND ON BEHALF OF JR ENGINEERING, INC.

JUMENT HILL CM

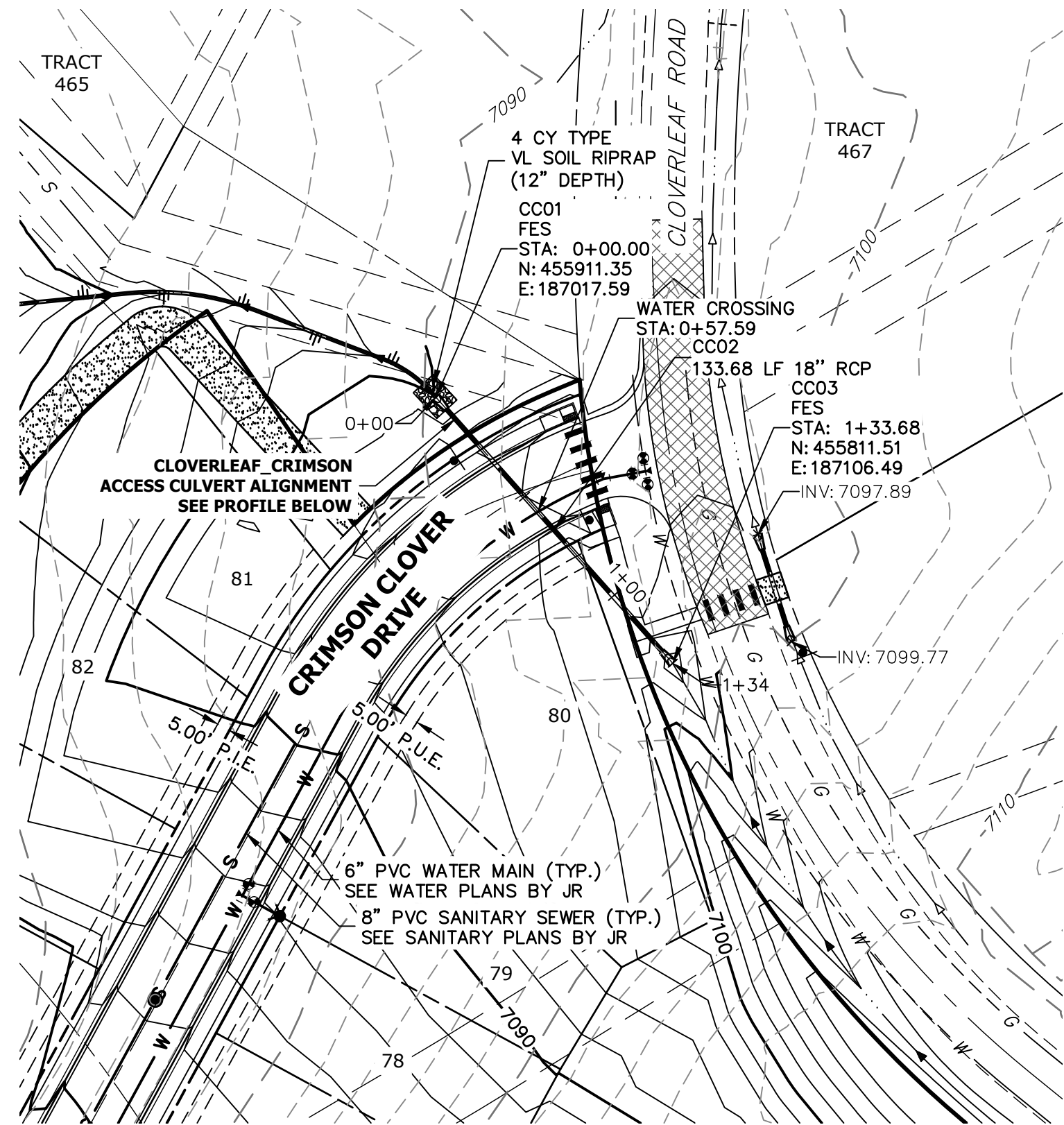
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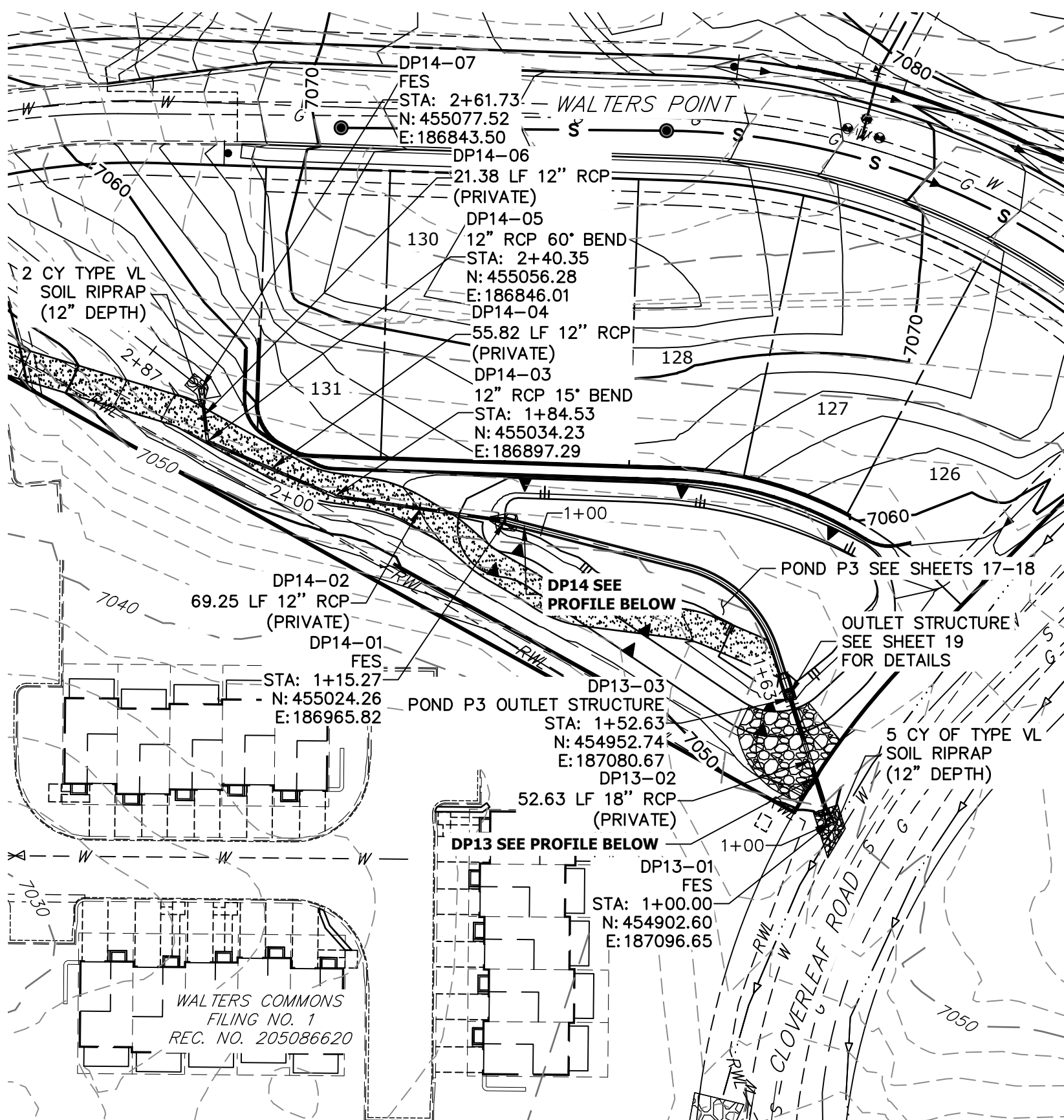


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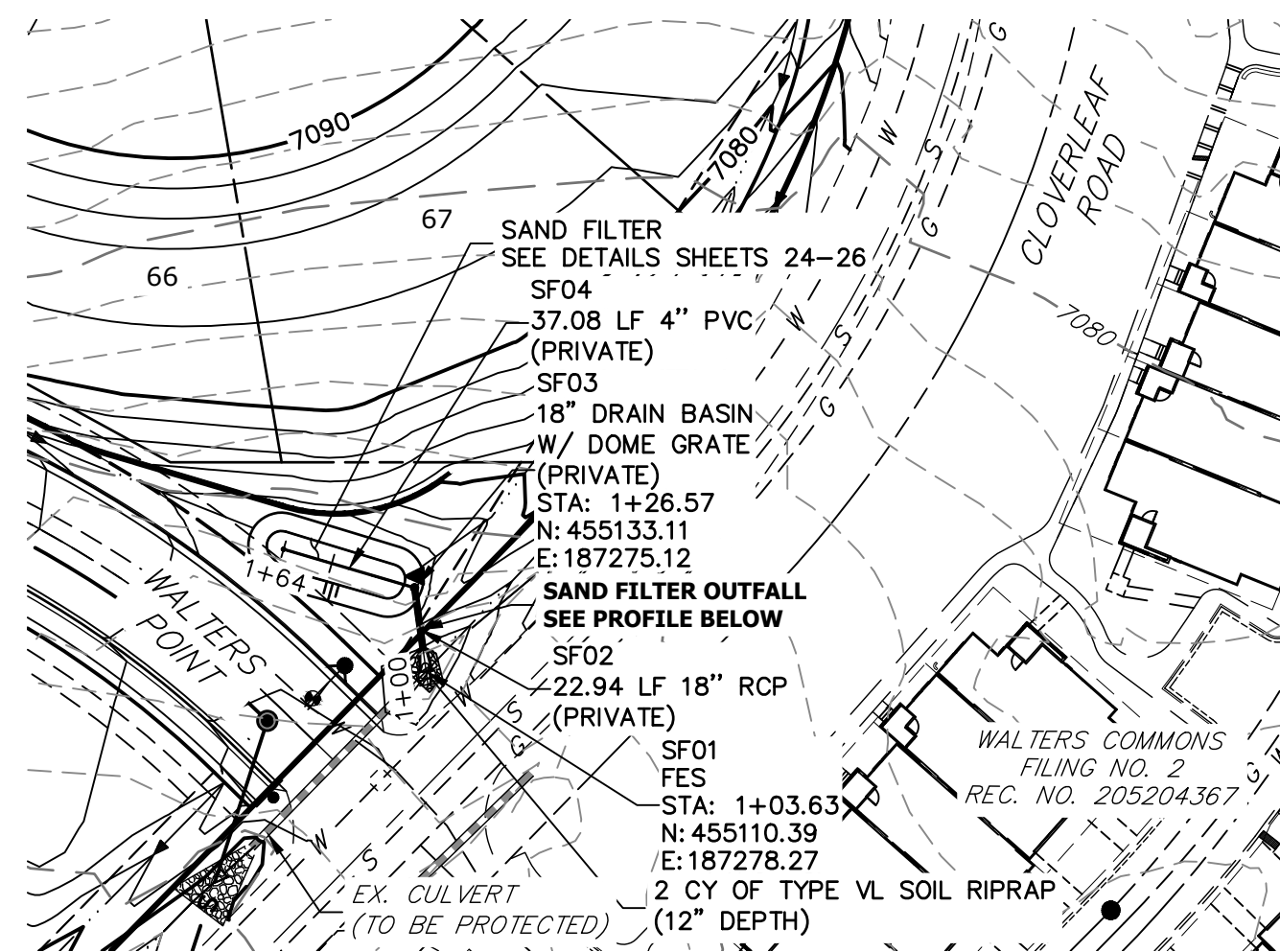
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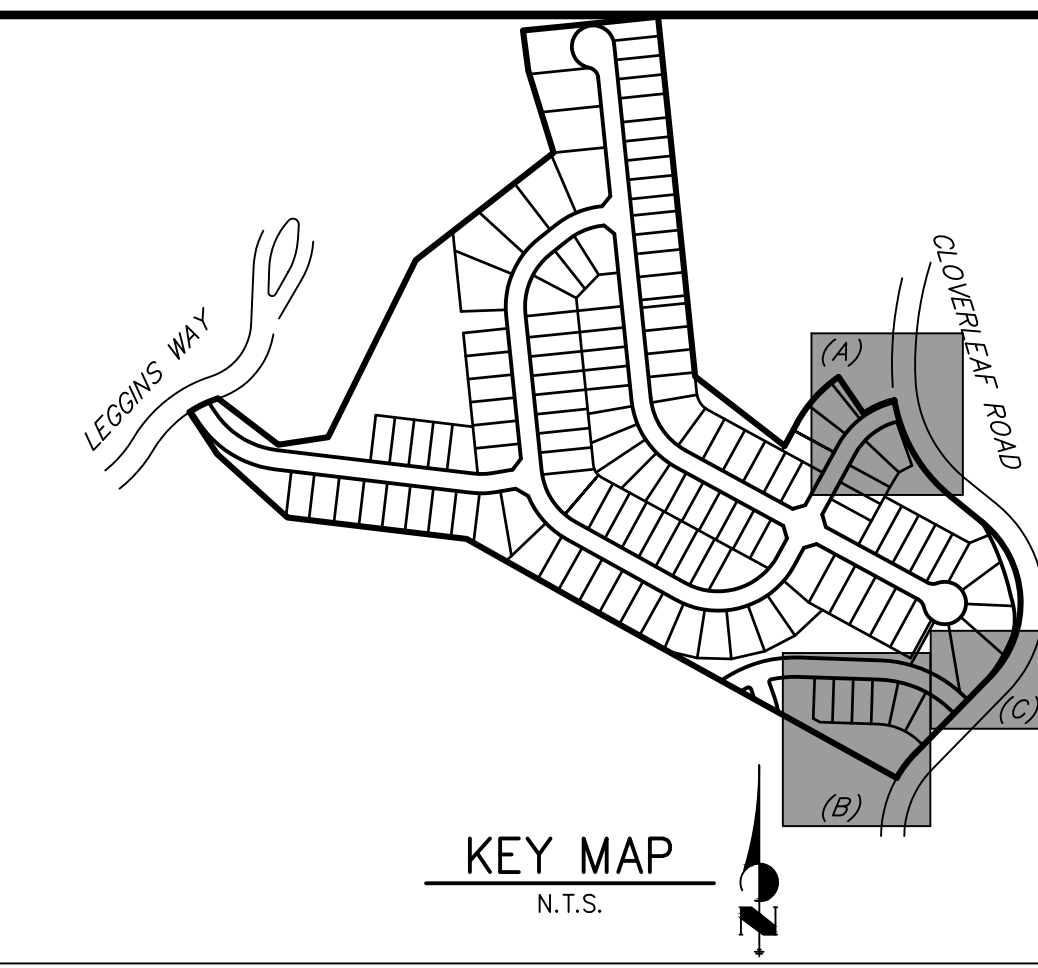
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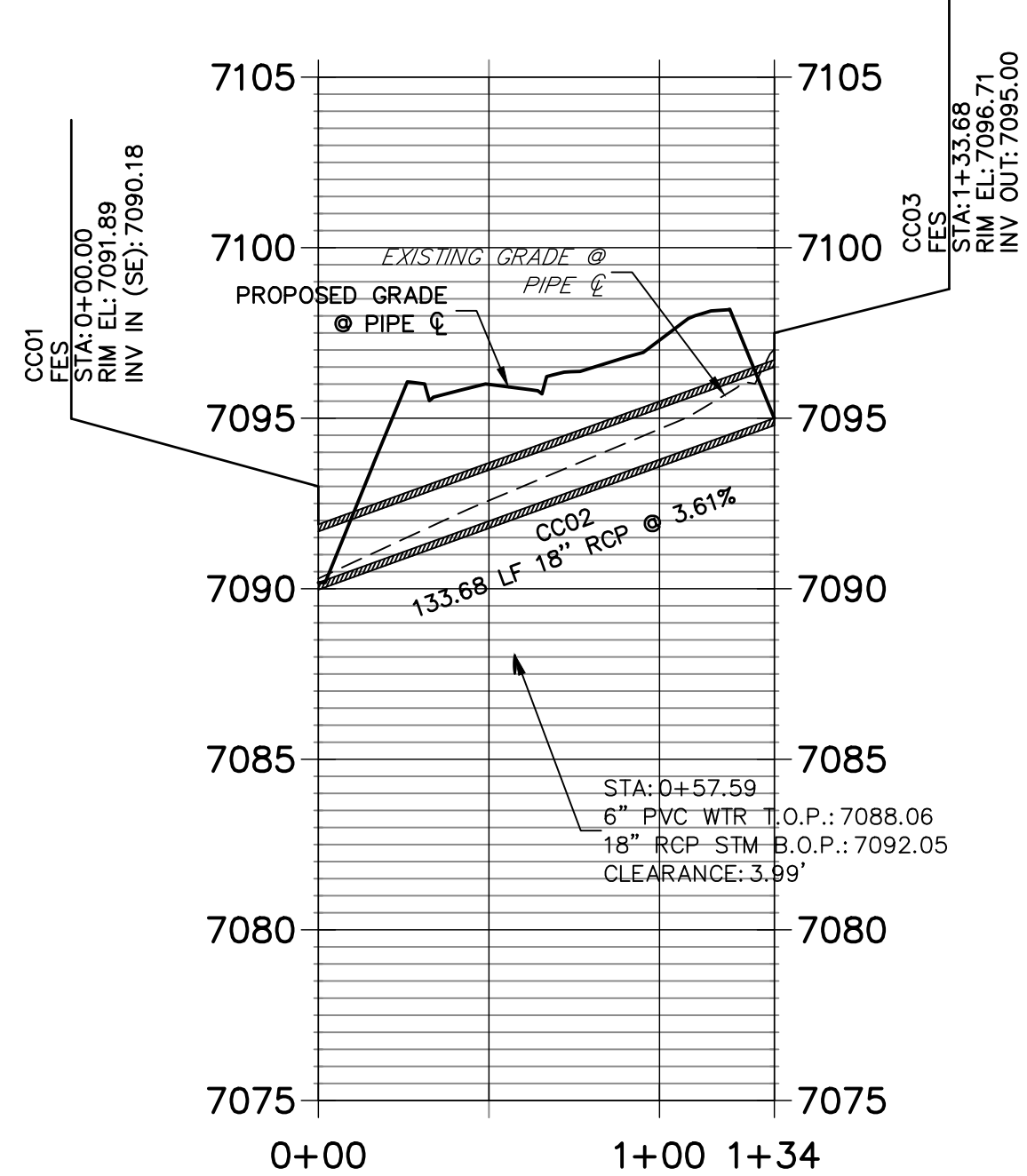
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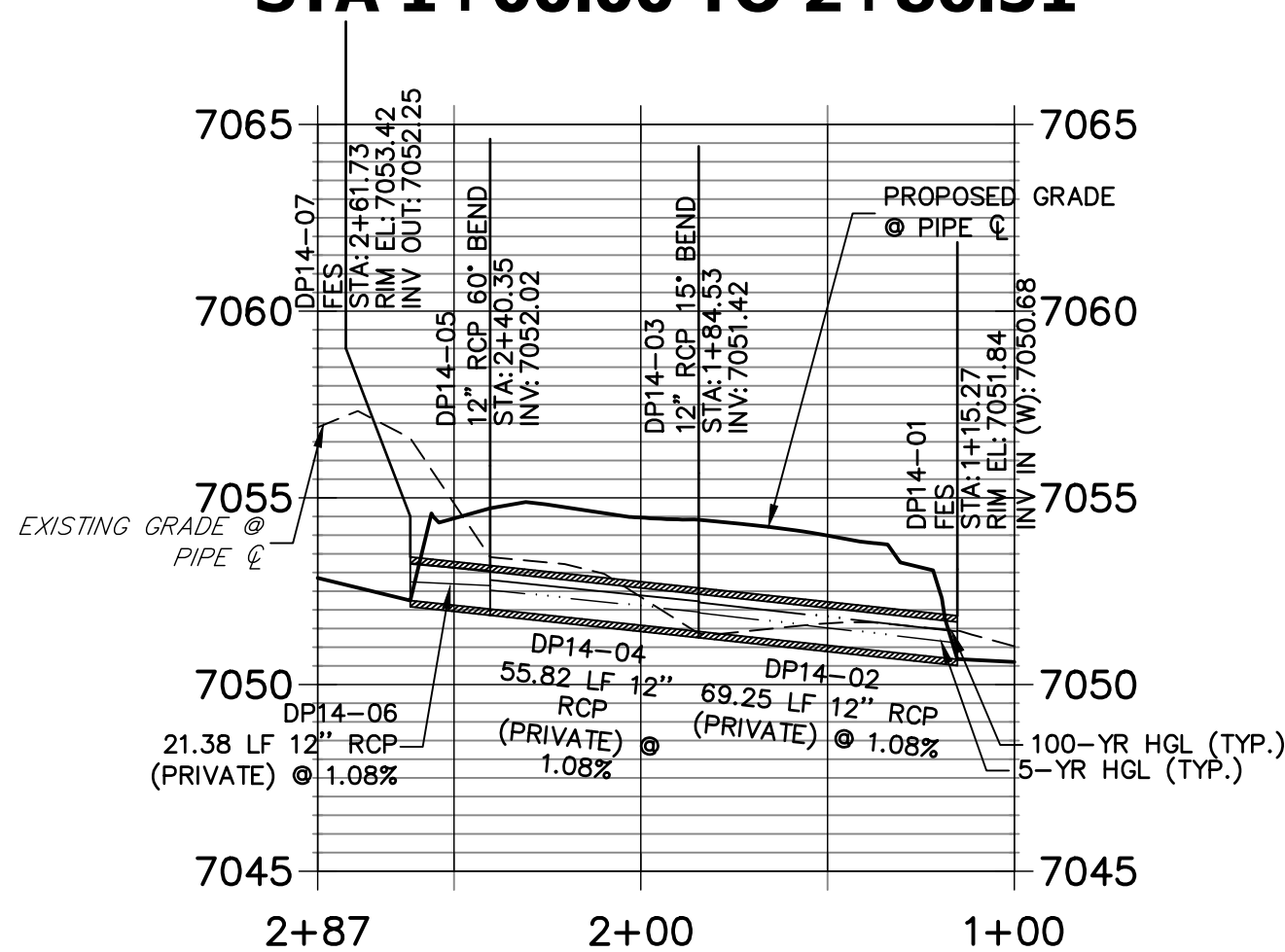
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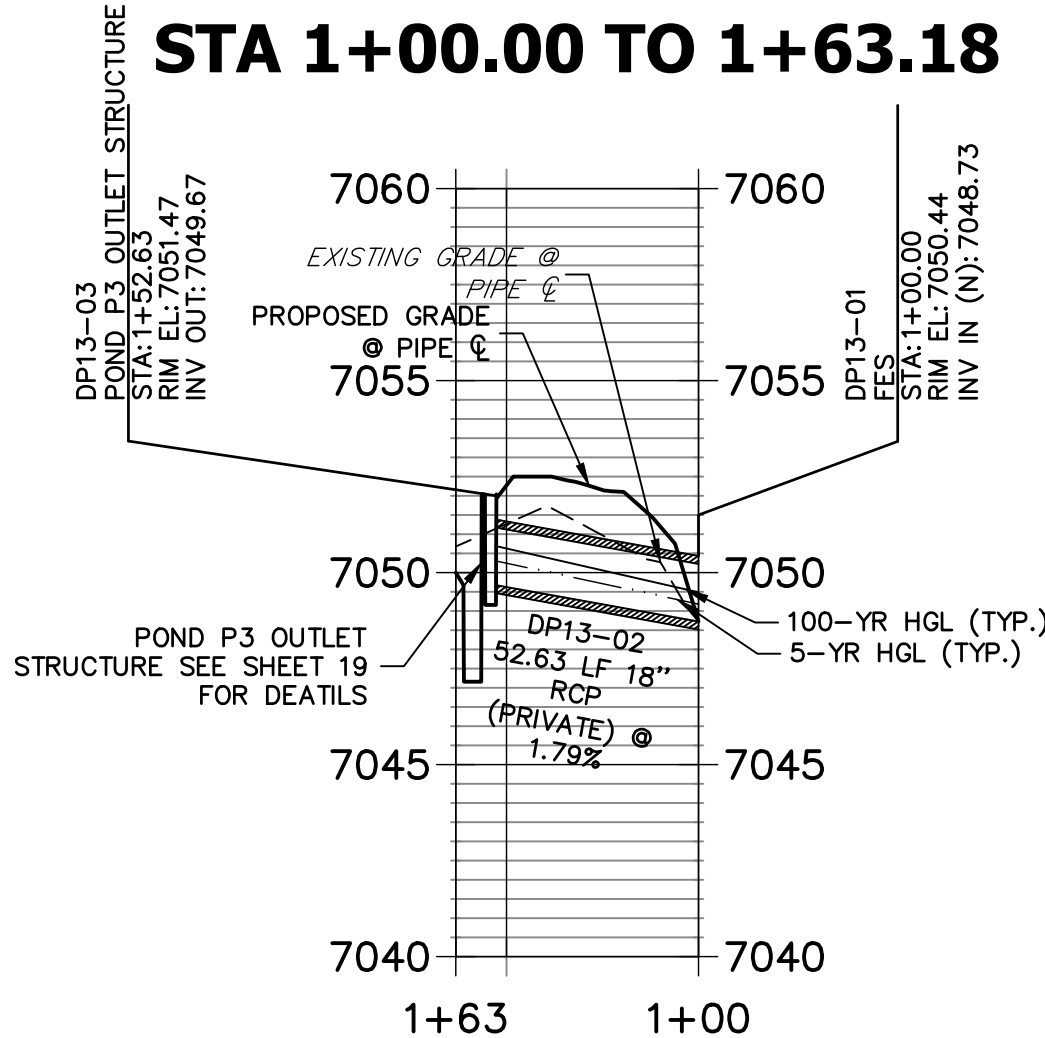
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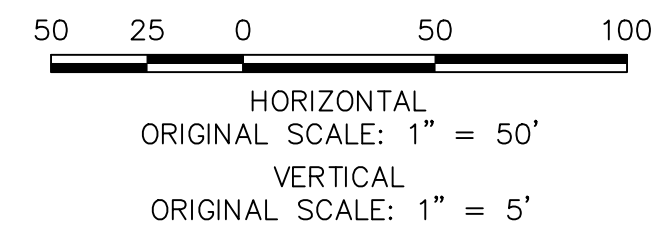
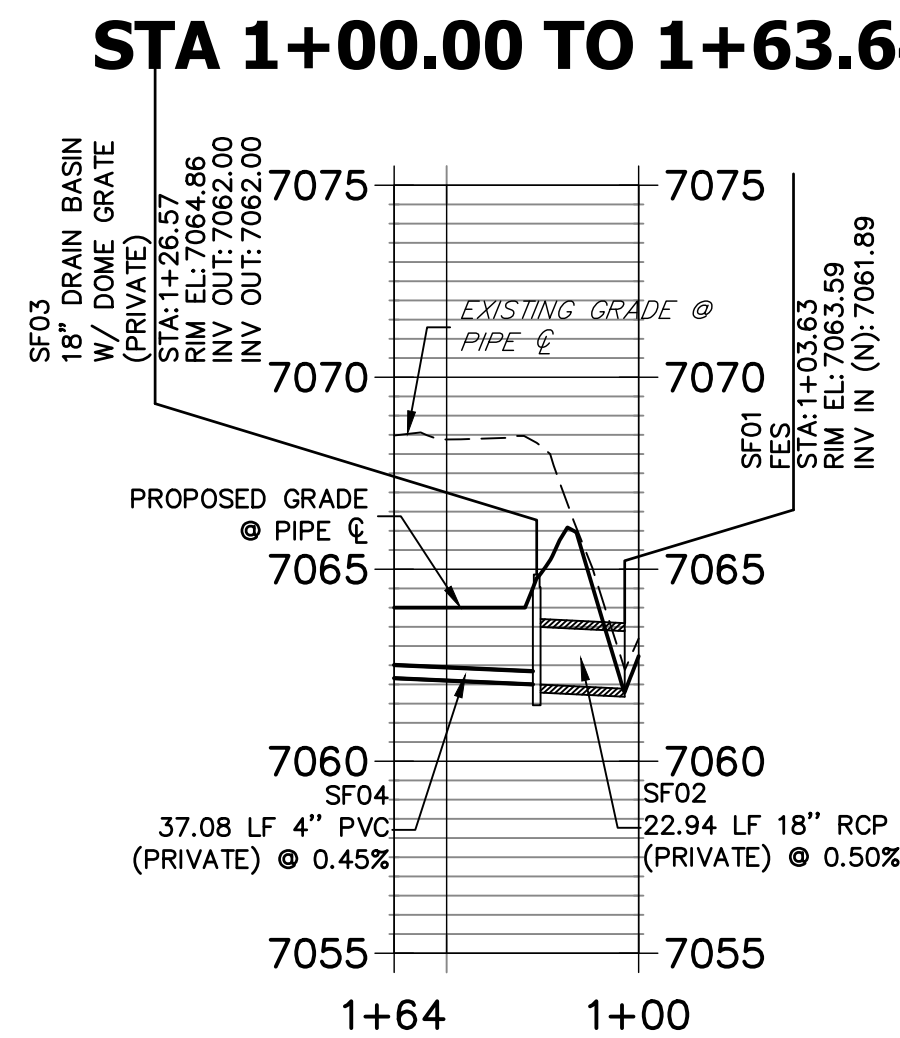
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DP13 PROFILE STA 1+00.00 TO 1+63.18



SAND FILTER PROFILE STA 1+00.00 TO 1+63.64



ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING

MIKE A. BRAMLETT, P.E.
COLORADO P.E. 32314

FOR AND ON BEHALF OF JR ENGINEERING, LLC
DATE: 12/15/21

CLOVERLEAF FILING 2

STORM SEWER PLAN AND
PROFILE

SHEET 8 OF 28

JOB NO. 25158.01

J.R. ENGINEERING
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POINT TABULATION			
ID NO.	DESCRIPTION	NORTHING/EASTING	ELEVATION
M1	MAINT. ROAD	N: 455859.27 E: 186982.75	7093.41
M2	MAINT. ROAD	N: 455929.11 E: 186917.87	7084.58
M3	MAINT. ROAD	N: 455929.52 E: 186912.45	7084.23
M4	MAINT. ROAD	N: 455824.20 E: 186824.05	7075.94
M5	MAINT. ROAD	N: 455796.60 E: 186739.15	7073.31
M6	MAINT. ROAD	N: 455811.38 E: 186707.97	7073.31
M7	MAINT. ROAD	N: 455876.36 E: 186634.66	7070.00
M8	MAINT. ROAD	N: 455886.75 E: 186625.77	7069.29
M9	MAINT. ROAD	N: 455890.96 E: 186623.06	7069.19
M10	MAINT. ROAD	N: 455949.19 E: 186631.67	7067.59
M11	MAINT. ROAD	N: 455970.30 E: 186656.43	7066.58
M12	MAINT. ROAD	N: 455959.22 E: 186668.55	7066.66
M13	MAINT. ROAD	N: 455937.78 E: 186641.41	7067.67
M14	MAINT. ROAD	N: 455899.07 E: 186635.68	7068.73
M15	MAINT. ROAD	N: 455894.86 E: 186638.38	7068.78
M16	MAINT. ROAD	N: 455886.91 E: 186645.38	7069.43
M17	MAINT. ROAD	N: 455824.02 E: 186716.33	7073.00
M18	MAINT. ROAD	N: 455810.15 E: 186745.57	7073.01
M19	MAINT. ROAD	N: 455831.37 E: 186810.88	7075.63
M20	MAINT. ROAD	N: 455941.26 E: 186903.11	7083.93
M21	MAINT. ROAD	N: 455939.32 E: 186928.66	7084.20
M22	MAINT. ROAD	N: 455869.86 E: 186993.39	7093.83
R1	RIPRAP GRADEBREAK	N: 456417.32 E: 186526.83	7068.83
R2	RIPRAP GRADEBREAK	N: 456409.36 E: 186527.65	7066.79

POINT TABULATION			
ID NO.	DESCRIPTION	NORTHING/EASTING	ELEVATION
R3	RIPRAP GRADEBREAK	N: 456384.49 E: 186530.21	7066.79
R4	RIPRAP GRADEBREAK	N: 456376.53 E: 186531.03	7068.83
S1	SPILLWAY TOP AT CUTOFF WALL	N: 456367.48 E: 186557.13	7073.00
S2	SPILLWAY CREST AT CUTOFF WALL	N: 456383.46 E: 186556.01	7070.75
S3	SPILLWAY CREST AT CUTOFF WALL	N: 456415.55 E: 186552.06	7070.75
S4	SPILLWAY TOP AT CUTOFF WALL	N: 456431.34 E: 186548.93	7073.00
T1	TOE	N: 456413.61 E: 186593.15	7067.01
T2	TOE	N: 456328.97 E: 186620.43	7066.90
T3	TOE	N: 456306.32 E: 186625.94	7066.82
T4	TOE	N: 456240.96 E: 186633.60	7066.36
T5	TOE	N: 456203.99 E: 186643.21	7066.25
T6	TOE	N: 456160.89 E: 186659.64	7066.47
T7	TOE	N: 456124.98 E: 186678.53	7066.91
T8	TOE	N: 456093.67 E: 186705.02	7068.38
T9	TOE	N: 455983.58 E: 186797.19	7068.58
T10	TOE	N: 455954.31 E: 186810.68	7067.69
T11	TOE	N: 455929.48 E: 186813.19	7067.67
T12	TOE	N: 455897.60 E: 186806.09	7068.55
T13	TOE	N: 455873.20 E: 186798.26	7069.20
T14	TOE	N: 455858.29 E: 186794.84	7069.61
T15	TOE	N: 455832.24 E: 186776.72	7070.24
T16	TOE	N: 455827.42 E: 186737.04	7070.15
T17	TOE	N: 455832.38 E: 186726.82	7070.00
T18	TOE	N: 455876.42 E: 186691.51	7068.79

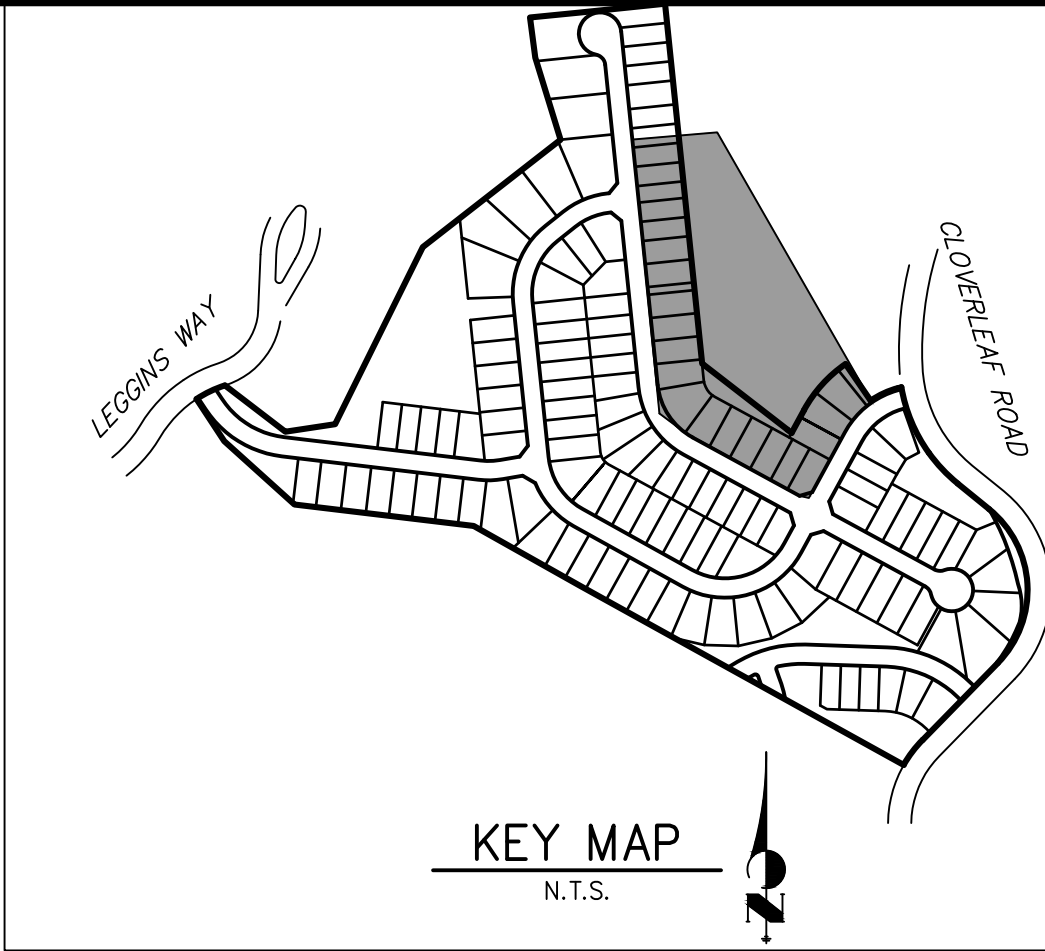
POINT TABULATION			
ID NO.	DESCRIPTION	NORTHING/EASTING	ELEVATION
T19	TOE	N: 455883.90 E: 186660.93	7068.81
T20	TOE	N: 455893.70 E: 186621.30	7069.12
T21	TOE	N: 455898.03 E: 186606.28	7069.23
T22	TOE	N: 455930.48 E: 186595.60	7068.74
T23	TOE	N: 456105.81 E: 186601.23	7066.90
T24	TOE	N: 456167.68 E: 186599.52	7066.05
T25	TOE	N: 456205.64 E: 186593.52	7066.70
T26	TOE	N: 456368.66 E: 186593.49	7066.90
T27	TOE	N: 456409.74 E: 186569.20	7067.31
T28	TOE	N: 456414.59 E: 186580.00	7066.98
T29	TOP	N: 456442.05 E: 186579.64	7073.19
T30	TOP	N: 456419.31 E: 186617.68	7073.00
T31	TOP	N: 456335.84 E: 186678.53	7073.00
T32	TOP	N: 456296.42 E: 186655.10	7073.00
T33	TOP	N: 456249.94 E: 186639.33	7073.00
T34	TOP	N: 456221.20 E: 186666.17	7073.00
T35	TOP	N: 456168.72 E: 186685.03	7073.00
T36	TOP	N: 456136.14 E: 186700.45	7073.00
T37	TOP	N: 456103.33 E: 186721.00	7073.00
T38	TOP	N: 456075.98 E: 186742.05	7073.00
T39	TOP	N: 455979.98 E: 186823.14	7073.00
T40	TOP	N: 455950.58 E: 186833.42	7073.00
T41	TOP	N: 455903.27 E: 186828.70	7073.00
T42	TOP	N: 455868.63 E: 186812.93	7073.00

POINT TABULATION			
ID NO.	DESCRIPTION	NORTHING/EASTING	ELEVATION
T43	TOP	N: 455853.68 E: 186807.47	7073.00
T44	TOP	N: 455812.76 E: 186774.67	7073.00
T45	TOP	N: 455819.72 E: 186725.40	7073.00
T46	TOP	N: 455847.07 E: 186667.71	7073.00
T47	TOP	N: 455869.22 E: 186616.76	7073.00
T48	TOP	N: 455897.46 E: 186586.05	7073.00
T49	TOP	N: 455931.76 E: 186576.66	7073.00
T50	TOP	N: 456218.27 E: 186565.74	7073.00
T51	TOP	N: 456367.16 E: 186557.36	7073.00
T52	TOP	N: 456207.73 E: 186565.98	7073.00
TC1	TRICKLE CHANNEL	N: 455939.64 E: 186792.76	7066.83
TC2	TRICKLE CHANNEL	N: 455935.22 E: 186747.86	7066.60
TC3	TRICKLE CHANNEL	N: 456037.60 E: 186638.10	7065.72
TC4	TRICKLE CHANNEL	N: 456094.31 E: 186639.72	7065.43
TC5	TRICKLE CHANNEL	N: 456104.39 E: 186639.33	7065.38
TC6	TRICKLE CHANNEL	N: 456135.29 E: 186636.04	7065.22
TC7	TRICKLE CHANNEL	N: 456161.67 E: 186600.41	7065.00
TC8	TRICKLE CHANNEL	N: 456197.06 E: 186626.73	7065.32
TC9	TRICKLE CHANNEL	N: 456414.78 E: 186585.67	7066.43
TR1	TRAIL	N: 455842.31 E: 186673.08	7073.04
TR2	TRAIL	N: 455869.12 E: 186616.53	7073.04
TR3	TRAIL	N: 455929.77 E: 186576.56	7073.04
TR4	TRAIL	N: 456208.10 E: 186566.22	7073.00
TR5	TRAIL	N: 456367.14 E: 186557.15	7073.05

POINT TABULATION			
ID NO.	DESCRIPTION	NORTHING/EASTING	ELEVATION
TR6	TRAIL	N: 456408.08 E: 186553.54	7070.73
TR7	TRAIL	N: 456424.26 E: 186550.33	7071.99
TR8	TRAIL	N: 456613.63 E: 186512.82	7072.86
TR9	TRAIL	N: 456629.64 E: 186491.15	7072.27
TR10	TRAIL	N: 456616.97 E: 186368.07	7070.00
TR11	TRAIL	N: 456607.02 E: 186369.10	7069.74
TR12	TRAIL	N: 456619.69 E: 186492.18	7072.67
TR13	TRAIL	N: 456611.69 E: 186503.01	7073.11
TR14	TRAIL	N: 456406.51 E: 186543.65	7070.93
TR15	TRAIL	N: 456207.73 E: 186556.23	7073.20
TR16	TRAIL	N: 455929.40 E: 186566.57	7073.24
TR17	TRAIL	N: 455860.09 E: 186612.24	7073.24
TR18	TRAIL	N: 455818.52 E: 186699.92	7073.25

LINE TABLE		
LINE	BEARING	DISTANCE
L6	S84°22'20"W	45.12'
L8	N01°38'18"E	56.74'
L10	N06°04'25"W	21.04'
L12	N10°40'50"W	221.56'

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C6	97°15'58"	100.00'	169.76'
C7	7°42'43"	75.00'	10.09'
C8	95°00'29"	30.01'	49.77'
C9	94°37'15"	30.00'	49.54'



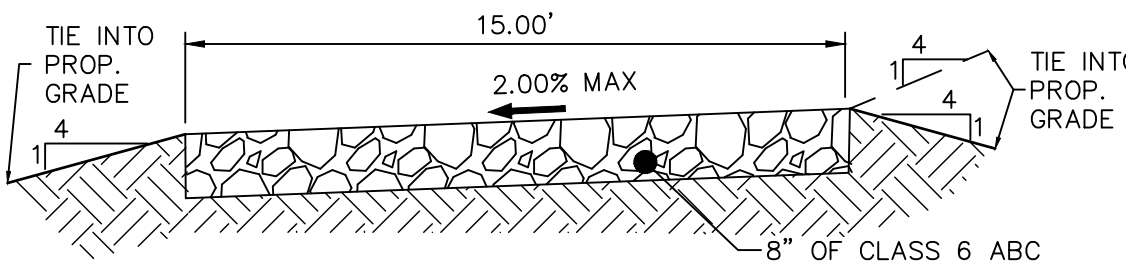
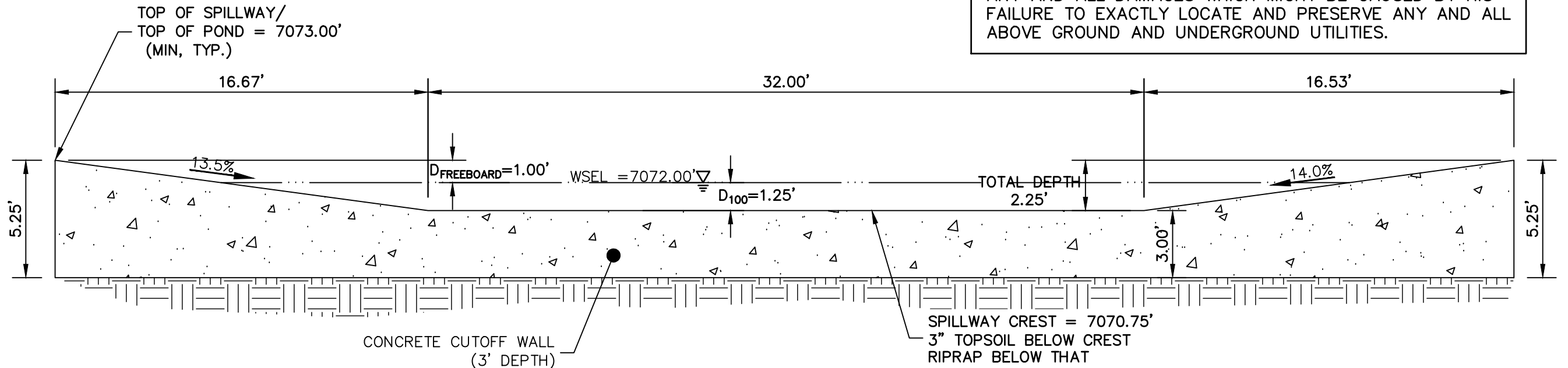
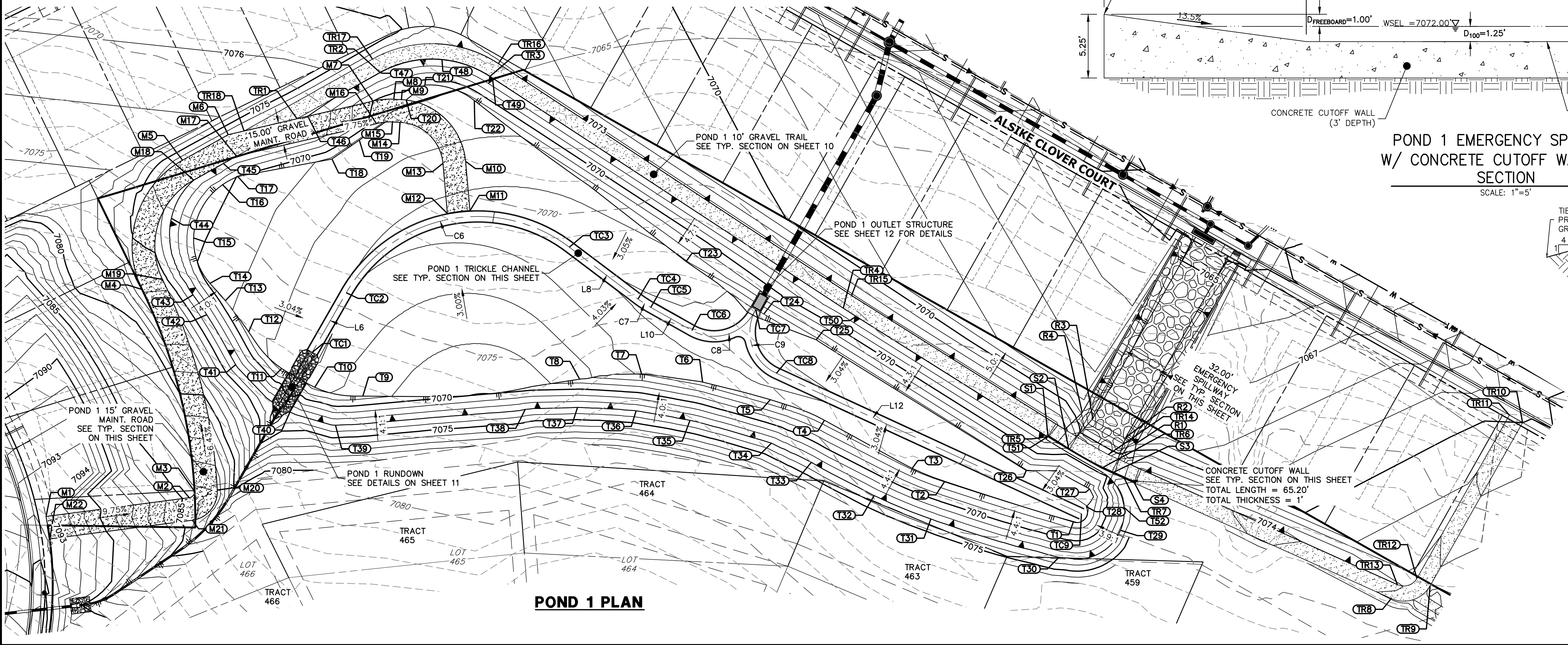
NOTES

- ALL PROPOSED POND IMPROVEMENTS ARE PRIVATE UNLESS OTHERWISE NOTED.
- SEE SHEETS 3-8 FOR PROPOSED STORM SEWER DESIGN.
- CLOVERLEAF METROPOLITAN DISTRICT WILL OWN AND MAINTAIN ALL RETAINING WALLS WITHIN TRACTS. WALLS ON LOTS WILL BE OWNED AND MAINTAINED BY THE INDIVIDUAL LOT OWNER.

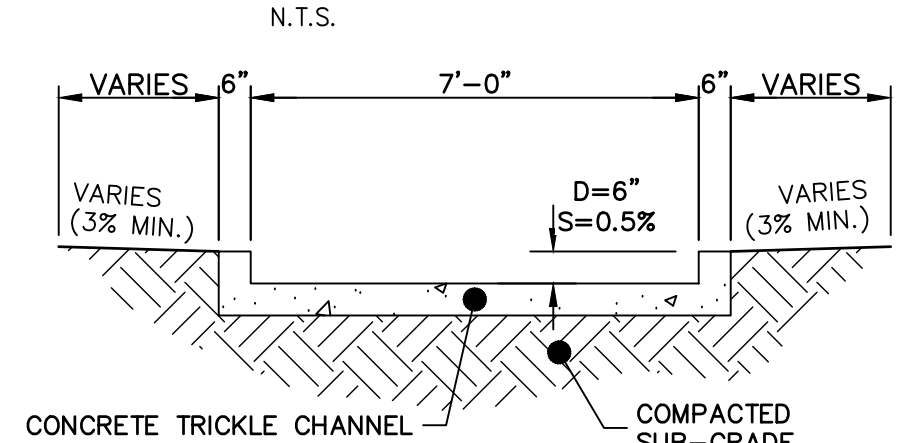


Know what's below.
Call before you dig.

THE LOCATIONS OF EXISTING ABOVE GROUND AND 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 ABOVE GROUND AND UNDERGROUND UTILITIES.



15' GRAVEL MAINTENANCE ACCESS ROAD TYPICAL SECTION



ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING

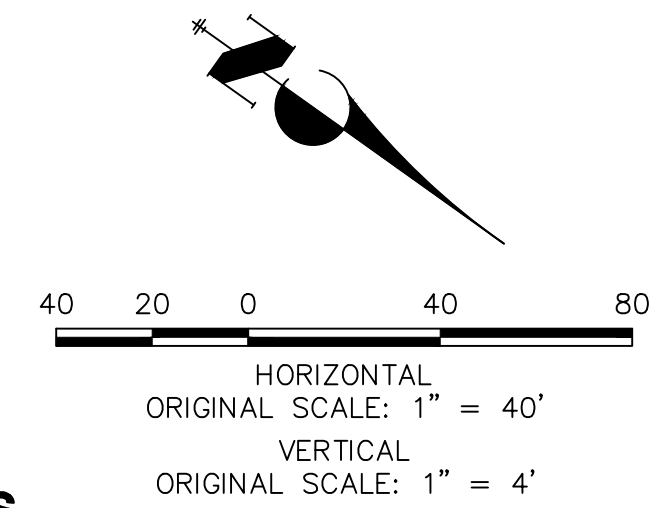
Mike Bramlett
32314

MIKE A. BRAMLETT, P.E.
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, LLC

PREPARED FOR	UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE AGENCIES, OR ENGINEERING APPROVES THEIR USE. DESIGNATED BY WRITTEN AUTHORIZATION.			
	MONUMENT HILL CM LLC 1864 WOODMOOR DR., STE 100 COLORADO SPRINGS, CO 80920 ATTN: JOE DESJARDIN (719) 476-0800 JDESJARDIN@PROTERRAC.COM			
BY	DATE			
	No. REVISION			
H-SCALE	1"=40'	N/A	12/15/21	
V-SCALE				
DESIGNED BY		GVT		
DRAWN BY		GVT		
CHECKED BY				
CLOVERLEAF FILING 2				
POND PLANS AND DETAILS				
SHEET 9 OF 28				
JOB NO. 25158.01				

Profile view of the proposed concrete trickle channel. The graph shows elevation (602 to 608) versus stationing (0+00 to 2+002+22). Key features include:

- MATCH EXIST.** STA: 0+08.76 EL: ±7078.10
- PROPOSED GRADE** (solid line)
- EX. GRADE** (dashed line)
- GB** (Ground Bank) points:
 - STA: 0+46.86 EL: 7068.70
 - STA: 1+77.65 EL: 7067.97
 - STA: 1+73.52 EL: 7067.27
 - STA: 2+09.45 EL: 7073.22
 - STA: 1+99.45 EL: 7073.02
 - STA: 2+20.00 EL: 7071.46
 - STA: 2+21.53 EL: 7071.28
- TC** (Top of Channel) points:
 - STA: 1+29.66 EL: 7066.19
 - STA: 1+37.66 EL: 7066.20
- BERM** (Borrow Pit) points:
 - STA: 2+09.45 EL: 7073.22
 - STA: 1+99.45 EL: 7073.02
- Slopes:** 4.0:1, 3.02%, 3.00%, 10.83%, 4.5:1, 16.92%, 12.08%



1. ALL PROPOSED POND IMPROVEMENTS ARE PRIVATE UNLESS OTHERWISE NOTED.
2. SEE SHEETS 3-8 FOR PROPOSED STORM SEWER DESIGN.
3. CLOVERLEAF METROPOLITAN DISTRICT WILL OWN AND MAINTAIN ALL RETAINING WALLS WITHIN TRACTS. WALLS ON LOTS WILL BE OWNED AND MAINTAINED BY THE INDIVIDUAL LOT OWNER.



10.00'

4:1 MAX

2.00% TYP.

4:1 MAX

CRUSHED LIMESTONE
SEE DETAIL SHEET 27
FOR SPECIFICATION

GRAVEL TRAIL TYPICAL SECTION

N.T.S. (RUNS WITHIN POND)

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR
ENGINEERING

Mike Br...

MIKE A. BRAMLETT, P.E.
COLORADO P.E. 32314
FOR AND ON BEHALF OF

2/15/21

POND PLANS AND DETAILS

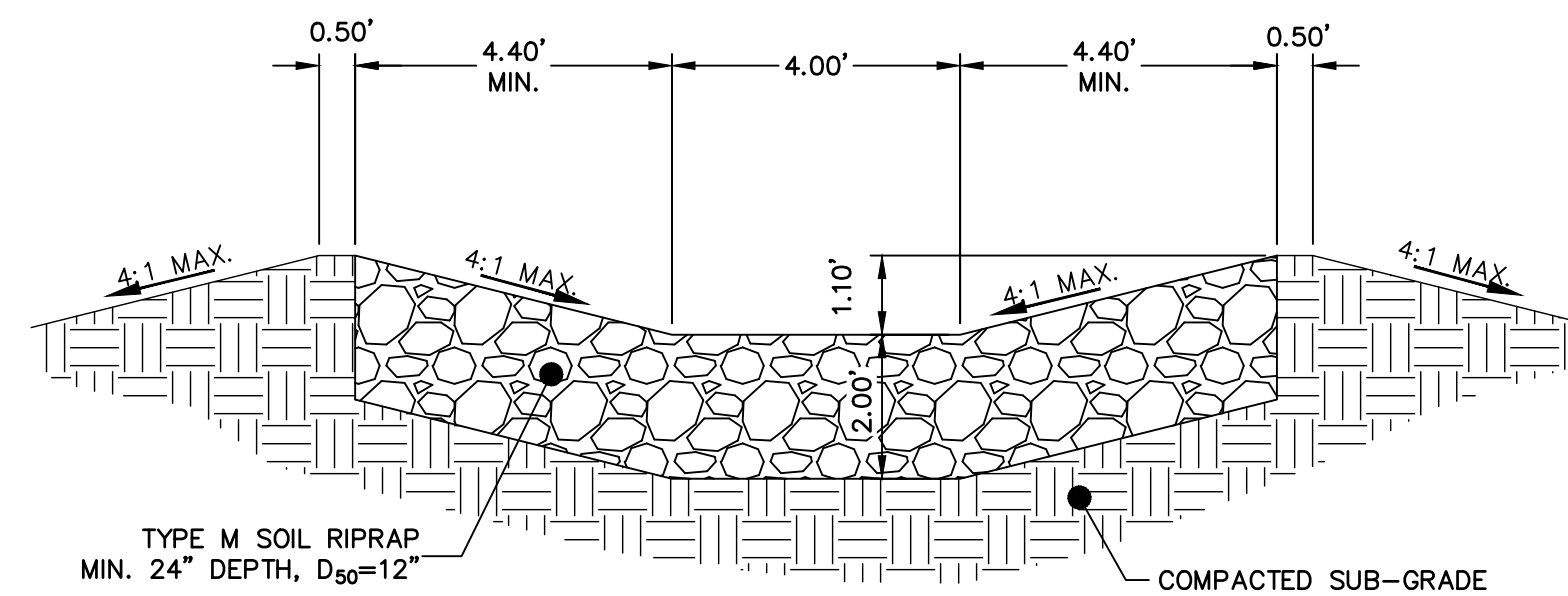
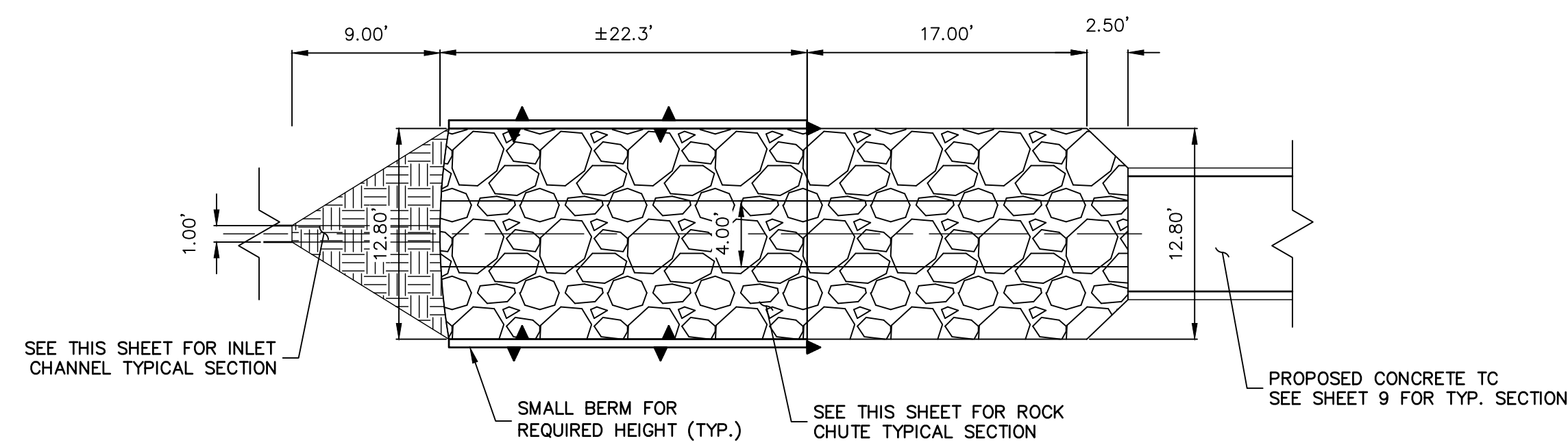
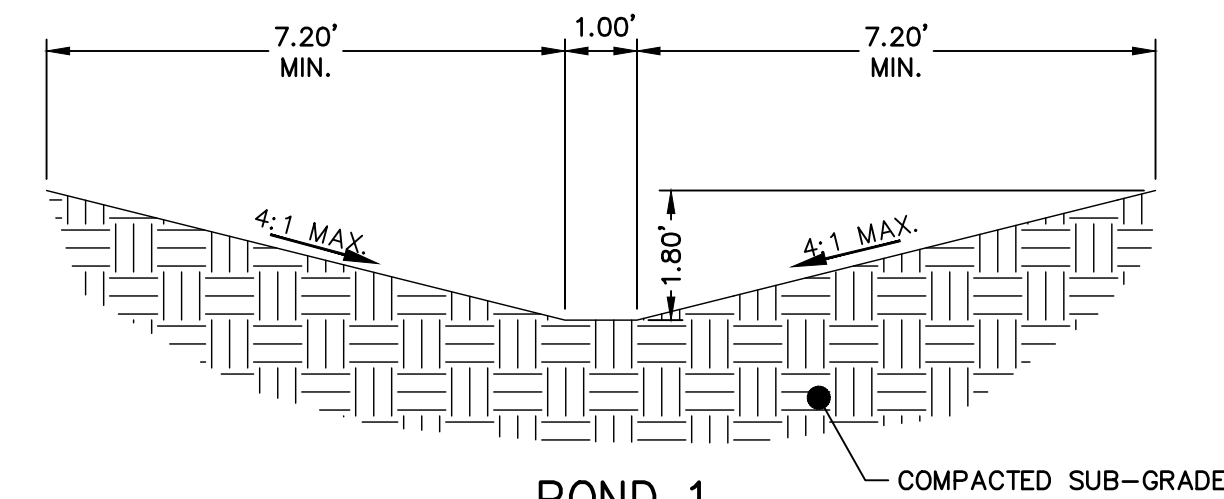
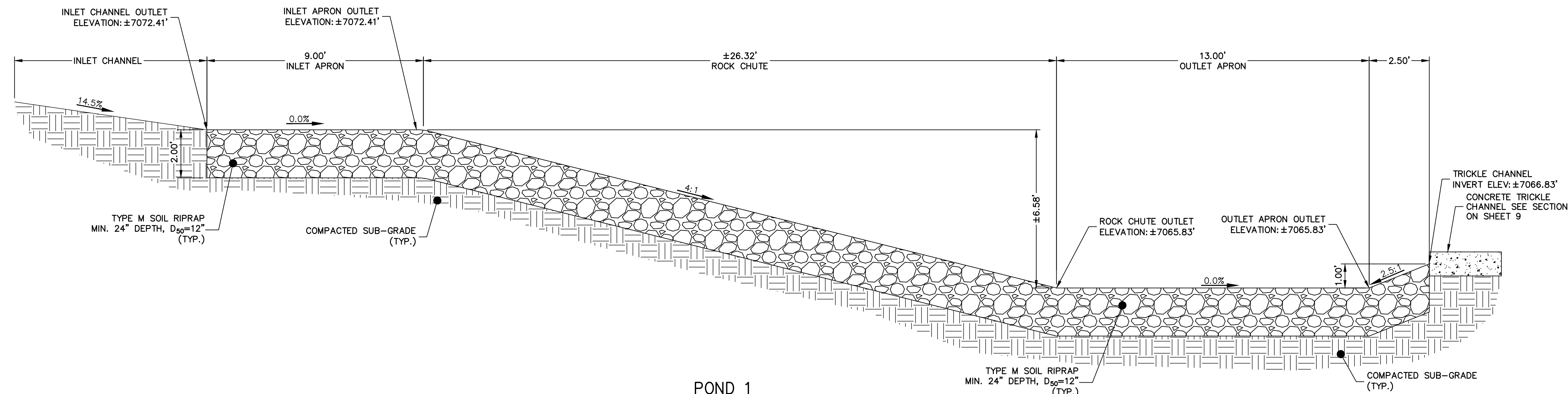
B NO. 25158.01

J·R ENGINEERING
A Westrian Company

Fort Collins 970-491-9888 • www.jirengineering.com

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

MONUMENT HILL CMLLC
1864 WOODMOOR DR, STE 100
COLORADO SPRINGS, CO 80920
ATTN: JOE DESJARDIN
(719) 476-0800
JDESJARDIN@PROTERRA.CO.COM



ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION, AND ON BEHALF OF JR
ENGINEERING

Mit Beste

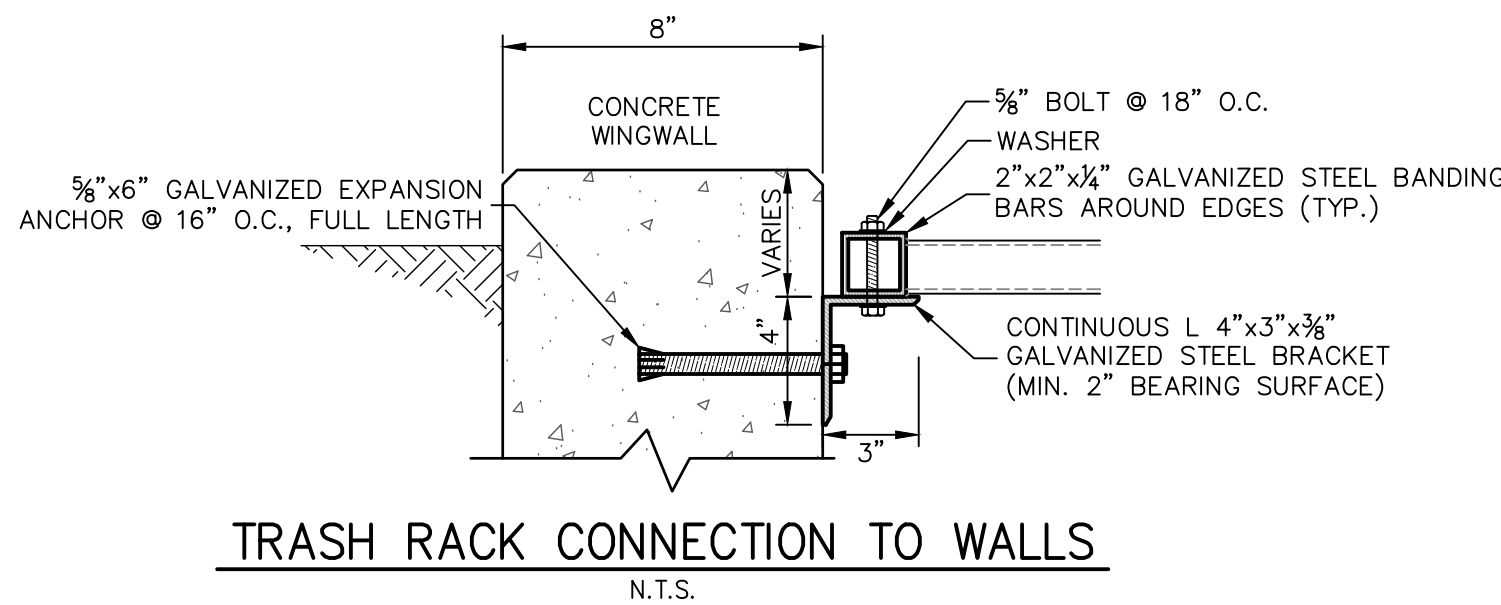
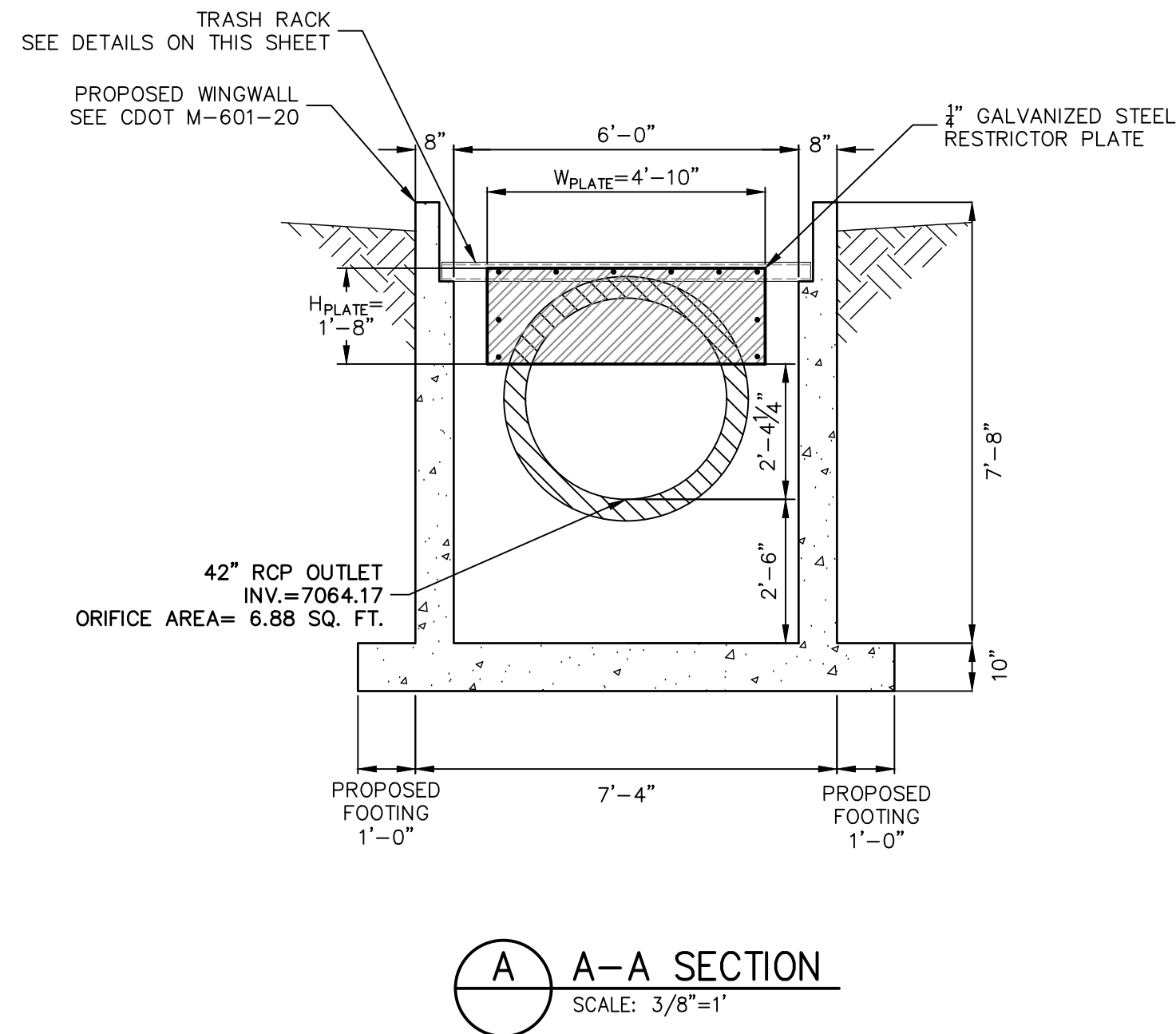
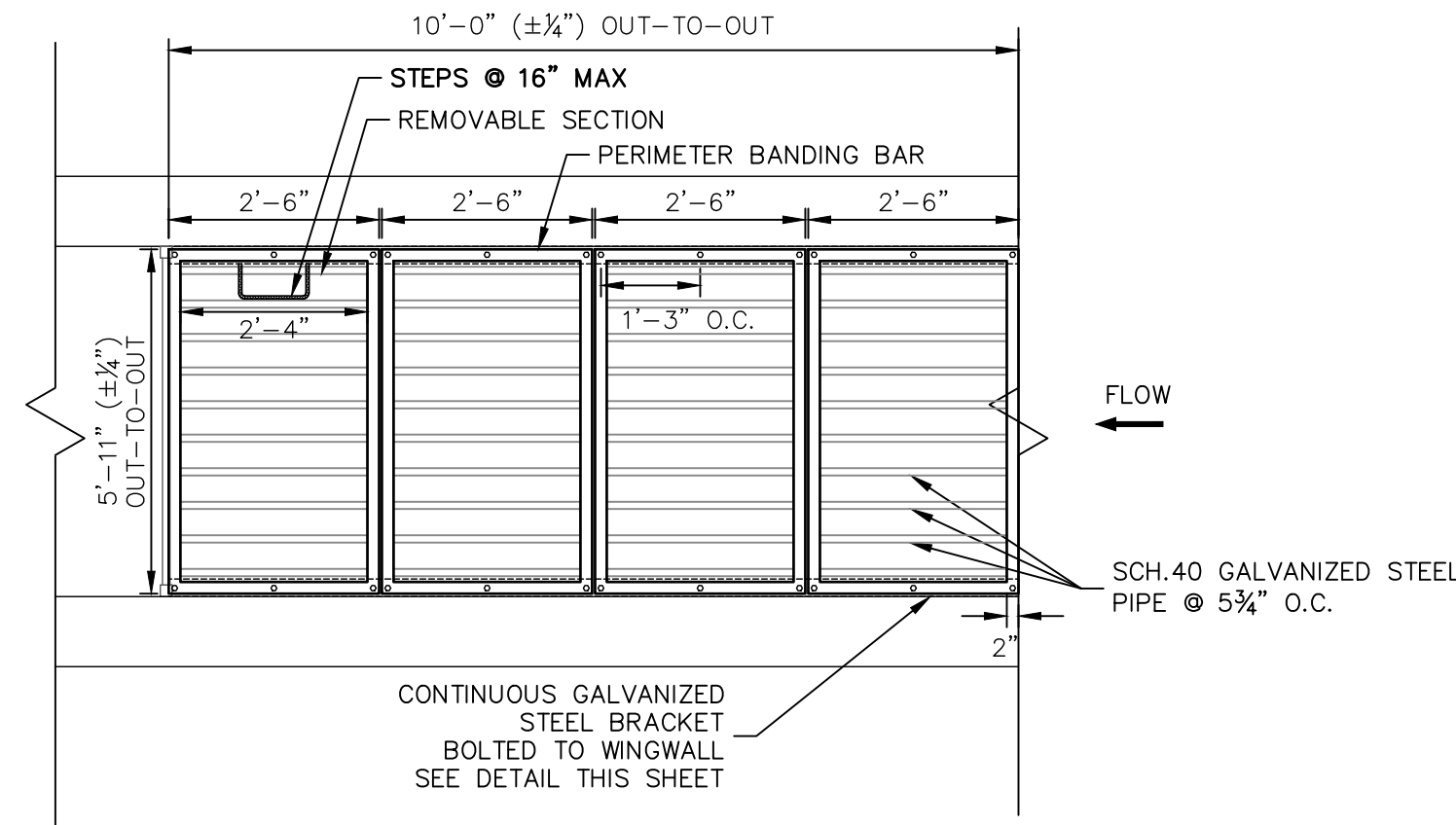
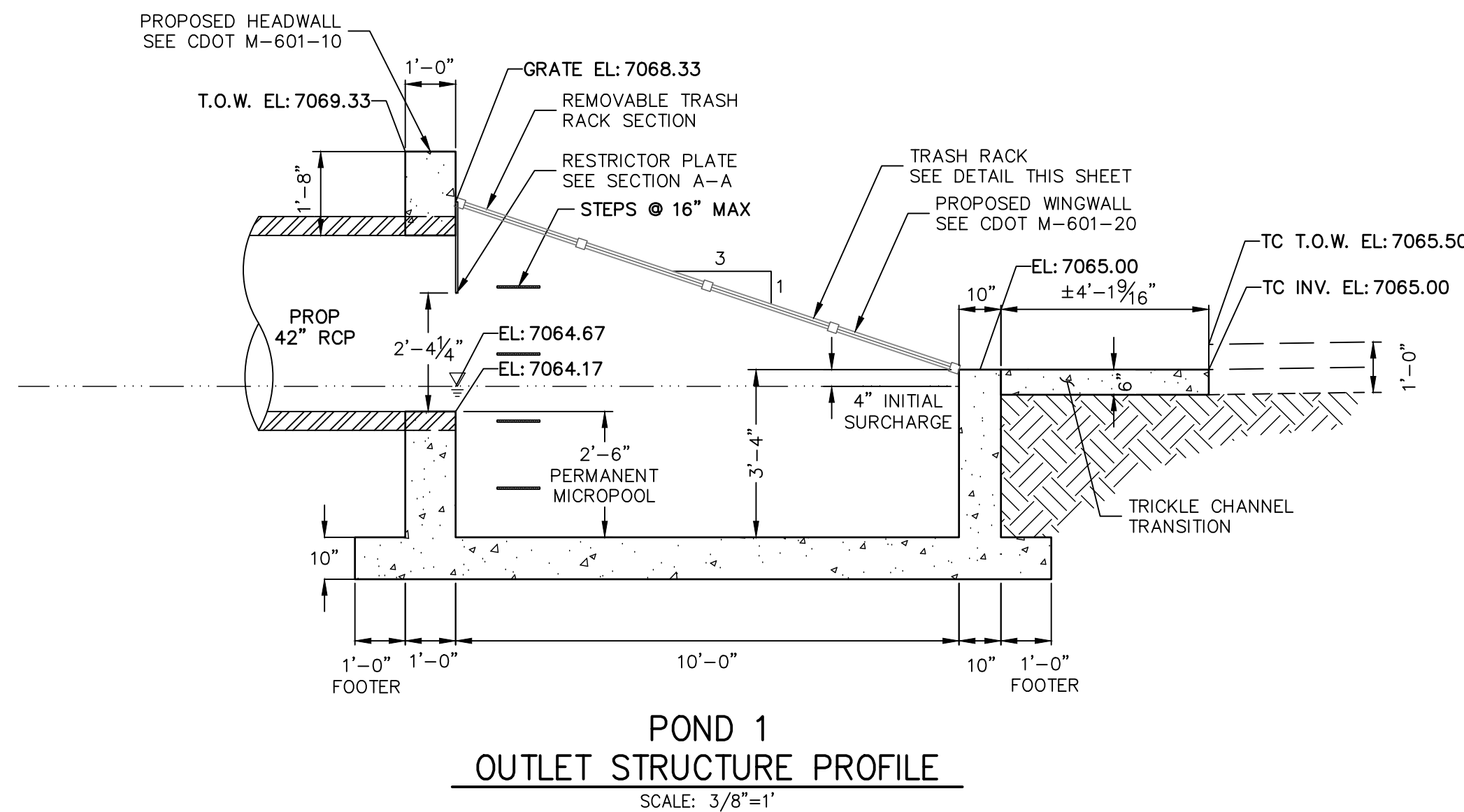
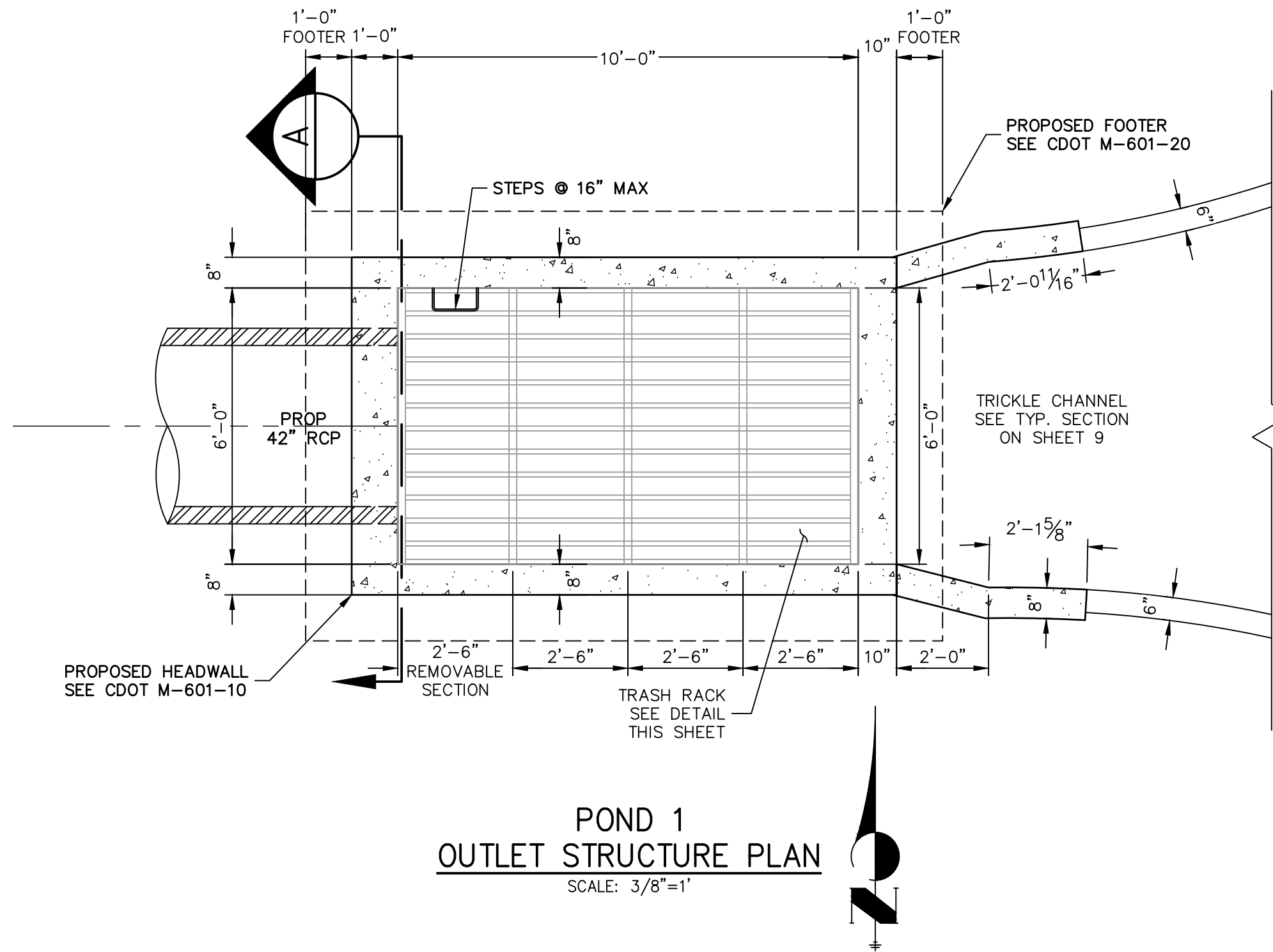
MIKE A. BRAMLETT, P.E.
COLORADO P.E. 32314

FOR AND ON BEHALF OF JR ENGINEERING

DATE _____

2/15/21

SHEET		11		OF		28		
JOB NO.		25158.01						
CLOVERLEAF FILING 2		H-SCALE	V-SCALE	V-SCALE	NO.	REVISION	BY	DATE
		V-SCALE	V-SCALE	V-SCALE				
POND PLANS AND DETAILS		DESIGNED BY	DATE	12/15/21				
		DRAWN BY	GAG					
		CHECKED BY						



POND 1 OUTLET STRUCTURE NOTES:

- TRASH RACKS:**
1. TRASH RACKS SHALL BE 1 1/2" SCH.40 STEEL PIPE, GALVANIZED, @ 6" CENTERS. SUPPORT BARS SHALL BE 1/2"x2" STEEL RECTANGULAR BARS, GALVANIZED, @ 36". ALL TRASH RACKS SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE.
 2. REMOVABLE TRASH RACK SECTIONS SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE AND PROVIDED WITH HINGED & LOCKABLE OR BOLTABLE ACCESS PANELS AS SHOWN ON THE PLANS.
 3. STEEL TRASH RACKS SHALL BE HOT DIP GALVANIZED AND MAY BE HOT POWDER COATED AFTER GALVANIZING.
 4. STRUCTURAL STEEL FOR GRATES AND BARS SHALL BE GALVANIZED AND SHALL BE IN ACCORDANCE WITH CDOT STANDARD SPECIFICATIONS, SUBSECTION 712.06.
 5. ALL HARDWARE, BOLTS, AND FASTENERS SHALL BE STAINLESS STEEL.
 6. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL PLATES AND GRATING FOR ENGINEER'S APPROVAL PRIOR TO CONSTRUCTION.



Know what's below.
Call before you dig.

ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING

Mike A. Bramlett, P.E.
32314

COLORADO P.E. 32314

FOR AND ON BEHALF OF JR ENGINEERING, LLC

DATE 12/15/21

CLOVERLEAF FILING 2

POND PLANS AND DETAILS

SHEET 12 OF 28

JOB NO. 25158.01

PREPARED FOR

MONUMENT HILL CM LLC

1864 WOODMOOR DR, STE 100
COLORADO SPRINGS, CO 80920
ATTN: JOE DESJARDIN
(719) 476-0800
JDESJARDIN@PROTERRACO.COM

J.R. ENGINEERING

A Western Company



Central 303-740-9888 • Colorado Springs 719-583-2583
Fort Collins 970-491-9888 • www.jrengineering.com

UNTIL SUCH TIME AS
THESE DRAWINGS ARE
APPROVED BY THE
APPROPRIATE REVIEWING
AGENCIES, OR ENGINEERING
APPROVES THEIR USE,
THESE DRAWINGS ARE
DESIGNATED BY WRITTEN
AUTHORIZATION.

POINT TABULATION			
ID NO.	DESCRIPTION	NORTHING/EASTING	ELEVATION
M1	MAINT. ROAD	N: 455732.46 E: 185646.43	7024.96
M2	MAINT. ROAD	N: 455873.71 E: 185680.33	7030.30
M3	MAINT. ROAD	N: 455879.71 E: 185682.16	7030.07
M4	MAINT. ROAD	N: 455885.10 E: 185685.34	7030.25
M5	MAINT. ROAD	N: 455980.46 E: 185749.61	7026.93
M6	MAINT. ROAD	N: 456028.14 E: 185828.24	7025.31
M7	MAINT. ROAD	N: 456030.85 E: 185852.13	7024.69
M8	MAINT. ROAD	N: 456015.44 E: 185849.40	7024.53
M9	MAINT. ROAD	N: 456013.24 E: 185829.92	7025.02
M10	MAINT. ROAD	N: 455972.07 E: 185762.05	7026.29
M11	MAINT. ROAD	N: 455876.28 E: 185697.48	7030.31
M12	MAINT. ROAD	N: 455873.67 E: 185695.89	7030.17
M13	MAINT. ROAD	N: 455870.73 E: 185695.04	7030.02
R1	RIPRAP GRADEBREAK	N: 455824.15 E: 185726.17	7030.34
R2	RIPRAP GRADEBREAK	N: 455726.36 E: 185697.65	7027.75
R3	RIPRAP GRADEBREAK	N: 455730.67 E: 185661.41	7025.78
R4	RIPRAP GRADEBREAK	N: 455834.23 E: 185691.61	7029.47

POINT TABULATION			
ID NO.	DESCRIPTION	NORTHING/EASTING	ELEVATION
R5	RIPRAP GRADEBREAK	N: 455876.86 E: 185697.87	7030.34
S1	SPILLWAY TOP AT CUTOFF WALL	N: 455844.40 E: 185742.36	7030.00
S2	SPILLWAY CREST AT CUTOFF WALL	N: 455853.29 E: 185735.36	7028.12
S3	SPILLWAY CREST AT CUTOFF WALL	N: 455879.81 E: 185707.42	7028.12
S4	SPILLWAY TOP AT CUTOFF WALL	N: 455886.98 E: 185705.15	7030.00
T1	TOE	N: 456196.51 E: 185860.07	7026.92
T2	TOE	N: 456194.31 E: 185886.26	7026.49
T3	TOE	N: 456192.25 E: 185910.80	7027.02
T4	TOE/FOREBAY	N: 456074.58 E: 185921.13	7026.28
T5	TOE/FOREBAY	N: 456058.98 E: 185922.64	7026.28
T6	TOE	N: 455935.99 E: 185933.24	7026.52
T7	TOE	N: 455873.95 E: 185908.84	7025.76
T8	TOE/FOREBAY	N: 455856.09 E: 185843.33	7025.26
T9	TOE/FOREBAY	N: 455858.58 E: 185830.11	7025.06
T10	TOE	N: 455873.27 E: 185751.88	7023.88
T11	TOE	N: 455877.69 E: 185742.61	7022.51
T12	TOE	N: 455883.54 E: 185737.91	7023.13

POINT TABULATION			
ID NO.	DESCRIPTION	NORTHING/EASTING	ELEVATION
T13	TOE	N: 455902.00 E: 185753.40	7023.17
T14	TOE	N: 455940.54 E: 185760.17	7025.00
T15	TOE	N: 455982.65 E: 185755.05	7026.66
T16	TOE	N: 456091.94 E: 185790.68	7027.05
T19	TOP	N: 456225.18 E: 185919.99	7030.00
T20	TOP/FOREBAY	N: 456072.49 E: 185939.85	7030.84
T21	TOP/FOREBAY	N: 456064.83 E: 185940.62	7030.84
T22	TOP	N: 455929.91 E: 185948.77	7030.00
T23	TOP	N: 455869.86 E: 185929.94	7030.00
T24	TOP	N: 455836.83 E: 185873.99	7030.00
T25	TOP	N: 455944.40 E: 185742.36	7030.00
T26	TOP	N: 455835.74 E: 185734.87	7030.00
T30	TOP/MAINT. ROAD	N: 455875.64 E: 185698.20	7030.00
T31	TOP/MAINT. ROAD	N: 455943.62 E: 185724.78	7030.00
T32	TOP	N: 456092.63 E: 185775.71	7030.00
T33	TOP	N: 456208.06 E: 185853.24	7030.00
T34	TOP/MAINT. ROAD	N: 455901.35 E: 185696.29	7030.13

POINT TABULATION			
ID NO.	DESCRIPTION	NORTHING/EASTING	ELEVATION
T35	TOP	N: 456101.53 E: 185767.79	7030.00
T36	TOP/MAINT. ROAD	N: 455887.44 E: 185705.00	7030.12
T37	TOE/MAINT. ROAD	N: 455964.90 E: 185757.21	7026.72
TC1	TRICKLE CHANNEL	N: 456064.41 E: 185898.85	7024.65
TC2	TRICKLE CHANNEL	N: 456052.26 E: 185870.89	7024.45
TC3	TRICKLE CHANNEL	N: 456185.30 E: 185883.03	7025.76
TC4	TRICKLE CHANNEL	N: 456023.30 E: 185854.35	7024.12
TC5	TRICKLE CHANNEL	N: 455955.29 E: 185842.30	7023.43
TC6	TRICKLE CHANNEL	N: 455918.85 E: 185824.82	7023.02
TC7	TRICKLE CHANNEL	N: 455867.13 E: 185837.89	7023.29
TC8	TRICKLE CHANNEL	N: 455893.79 E: 185827.22	7022.99
TC9	TRICKLE CHANNEL	N: 455899.27 E: 185799.02	7022.69
TC10	TRICKLE CHANNEL	N: 455896.72 E: 185791.00	7022.61
TC11	TRICKLE CHANNEL	N: 455880.68 E: 185740.45	7022.00

LINE TABLE			CURVE TABLE			
LINE	BEARING	DISTANCE	CURVE	DELTA	RADIUS	LENGTH
L1	N10°02'28"E	164.48'	C1	62°20'59"	75.20'	81.83'
L2	N10°02'28"E	69.12'	C2	70°25'33"	50.40'	61.95'
L3	N72°23'27"E	53.04'	C3	114°23'59"	30.00'	59.90'
L4	S84°07'17"W	18.94'				
L5	S13°41'44"W	2.84'				
L6	S06°47'26"W	2.01'				
L7	N72°23'27"E	8.41'				

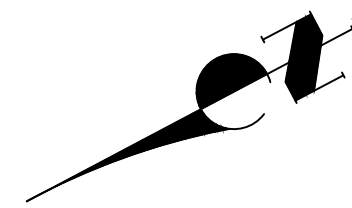
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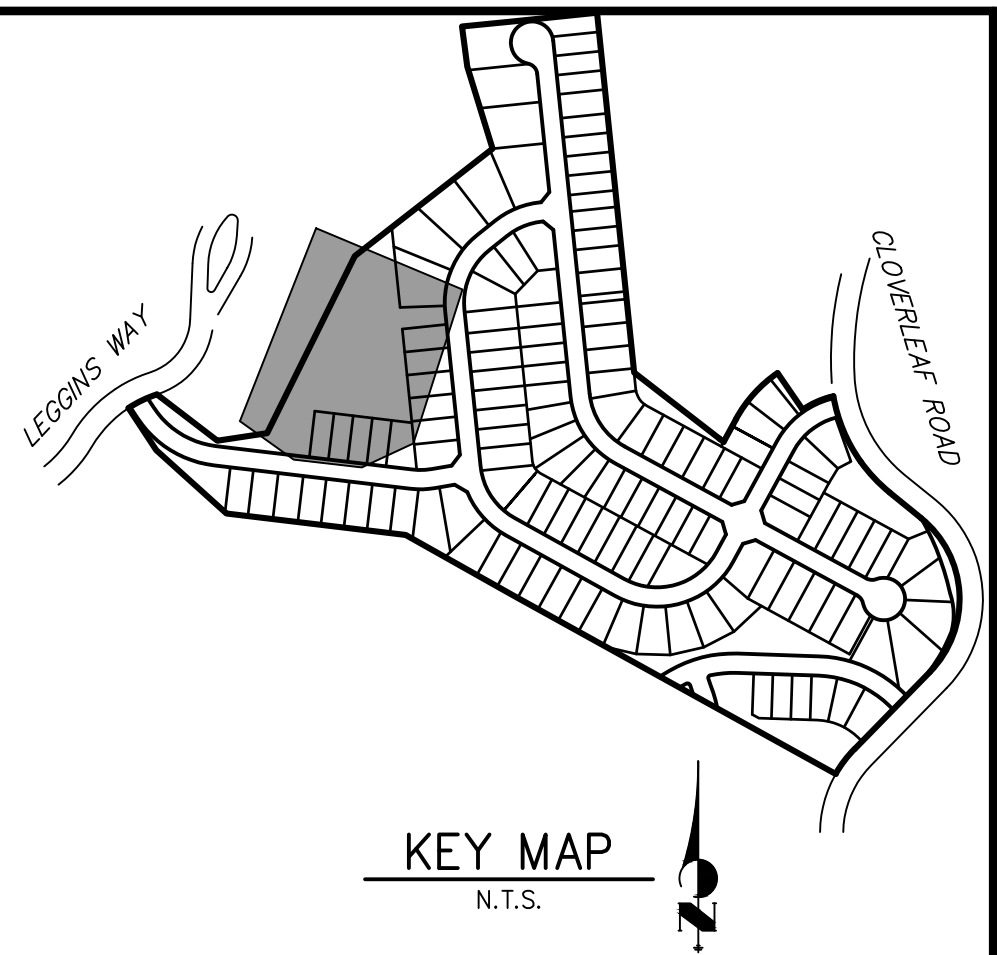


Know what's **below**.
Call before you dig.

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20 10 0 20 40
ORIGINAL SCALE: 1" = 20'



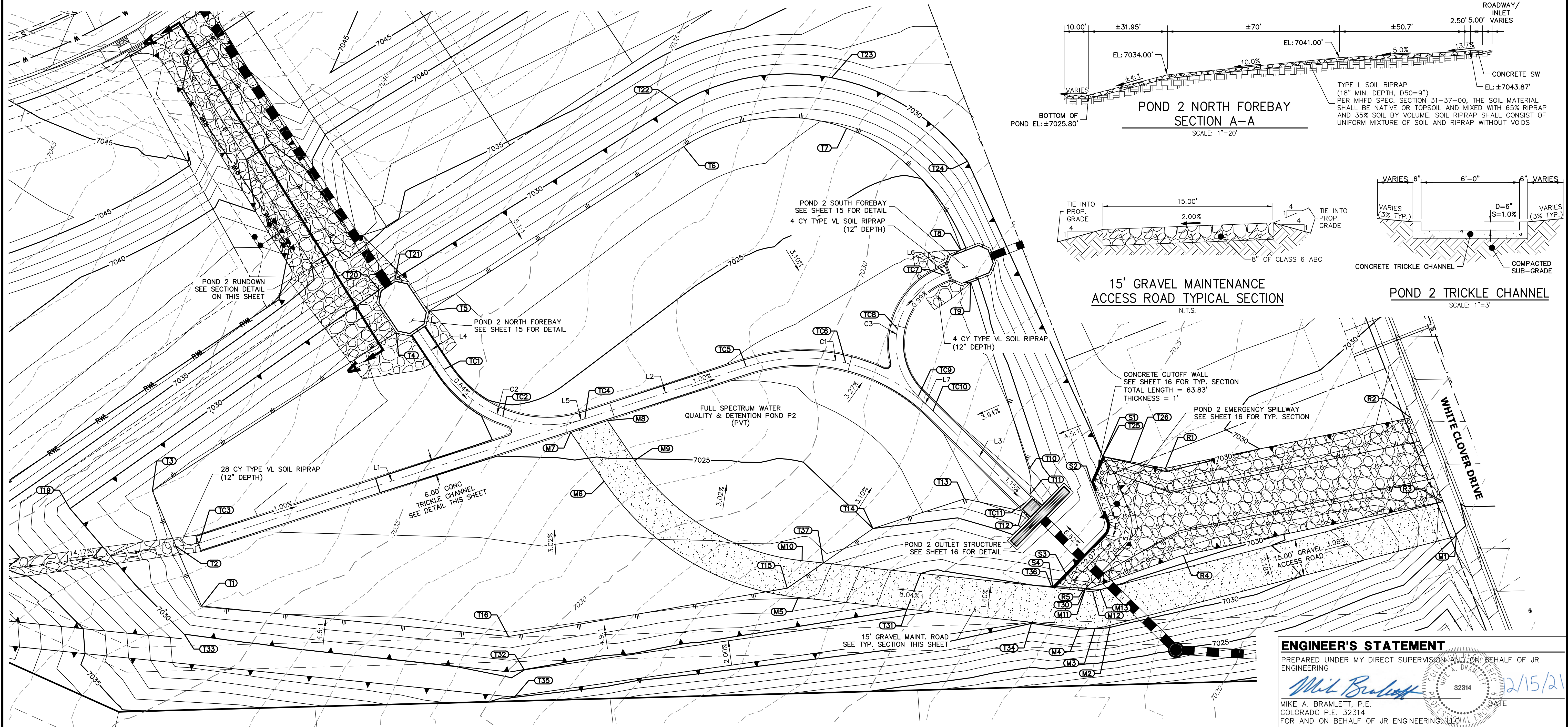
PREPARED FOR

MONUMENT HILL CM LLC
1864 WOODMOOR DR, STE 100
COLORADO SPRINGS, CO 80920
ATTN: JOE DESJARDIN
(719) 476-0800
JDESJARDIN@PROTECTORACO.COM

J·R ENGINEERING
A Westrian Company



Centennial 303-740-9393 • Colorado Springs 719-593-2593
Fort Collins 970-491-9888 • www.jirengineering.com

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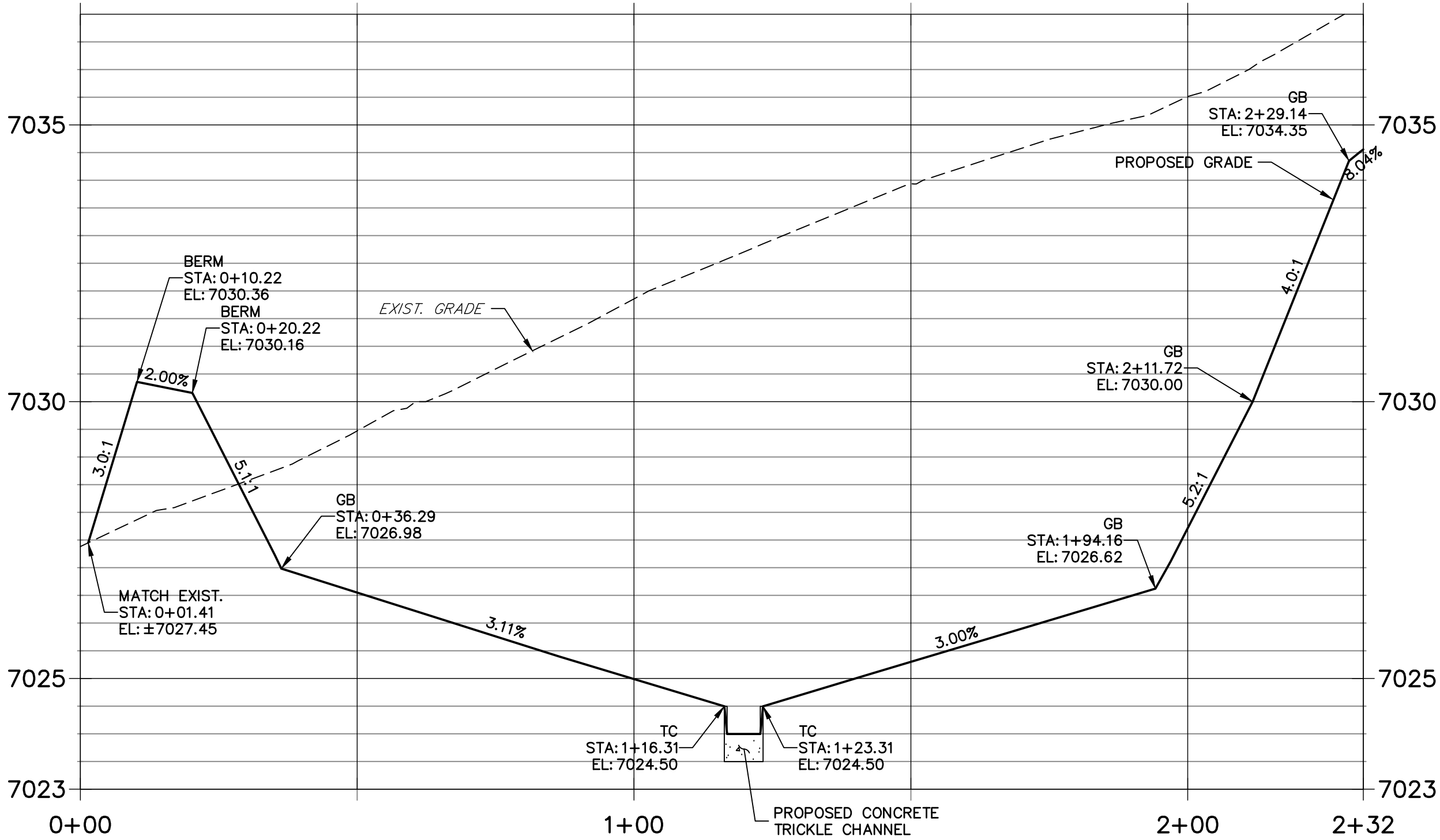
ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR
ENGINEERING

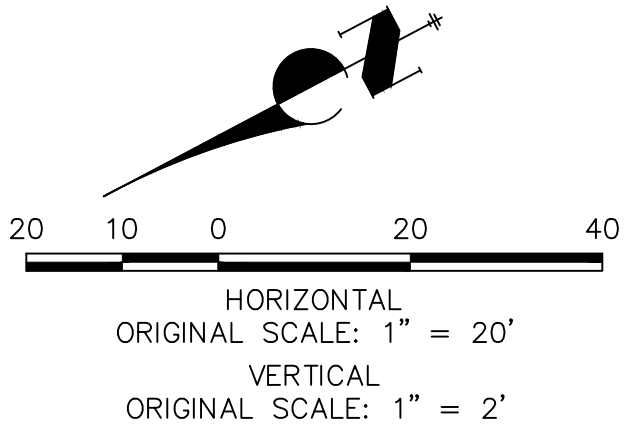
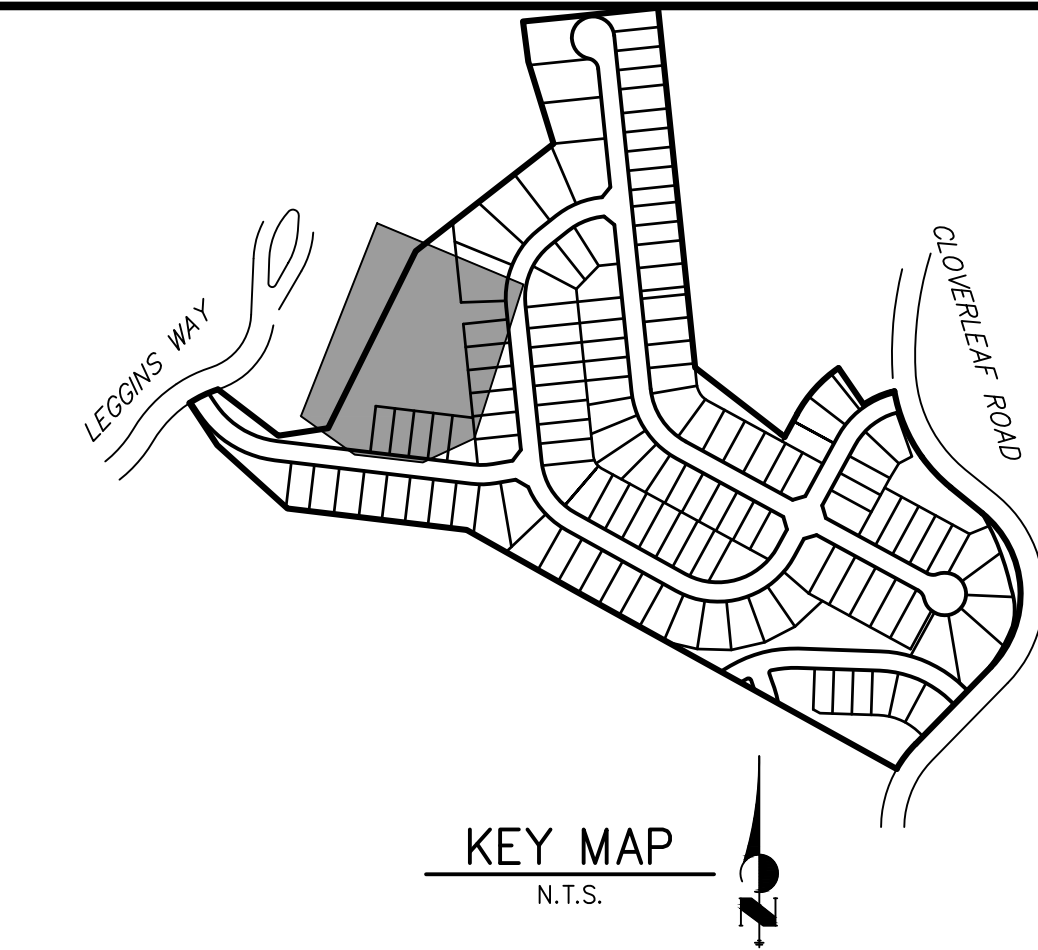
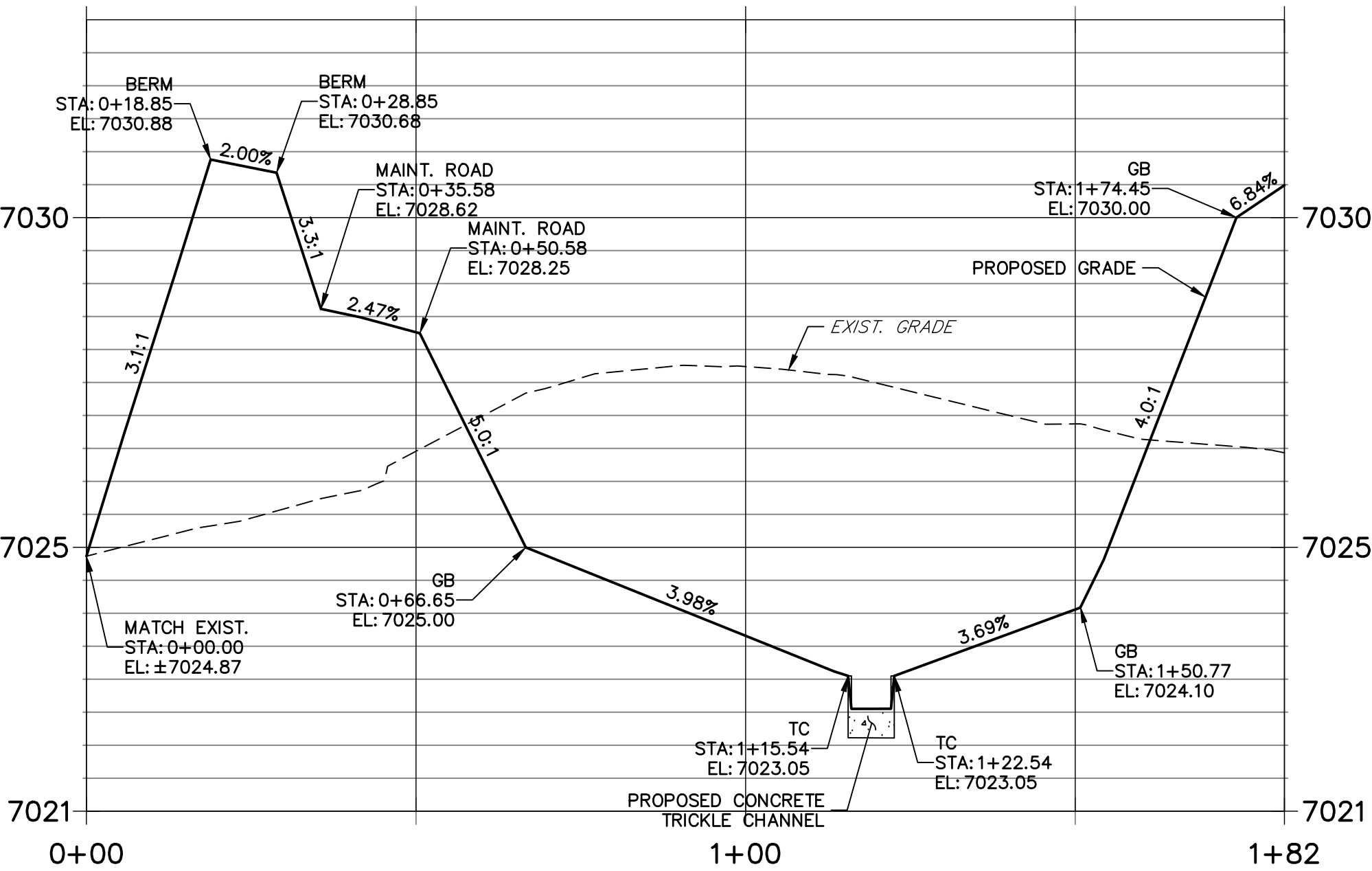
Mit Bräutigam

MIKE A. BRAMLETT, P.E.
COLORADO P.E. 32314
FOR AND ON BEHALF OF

POND P2-1 PROFILE
STA 0+00.00 TO 2+31.71

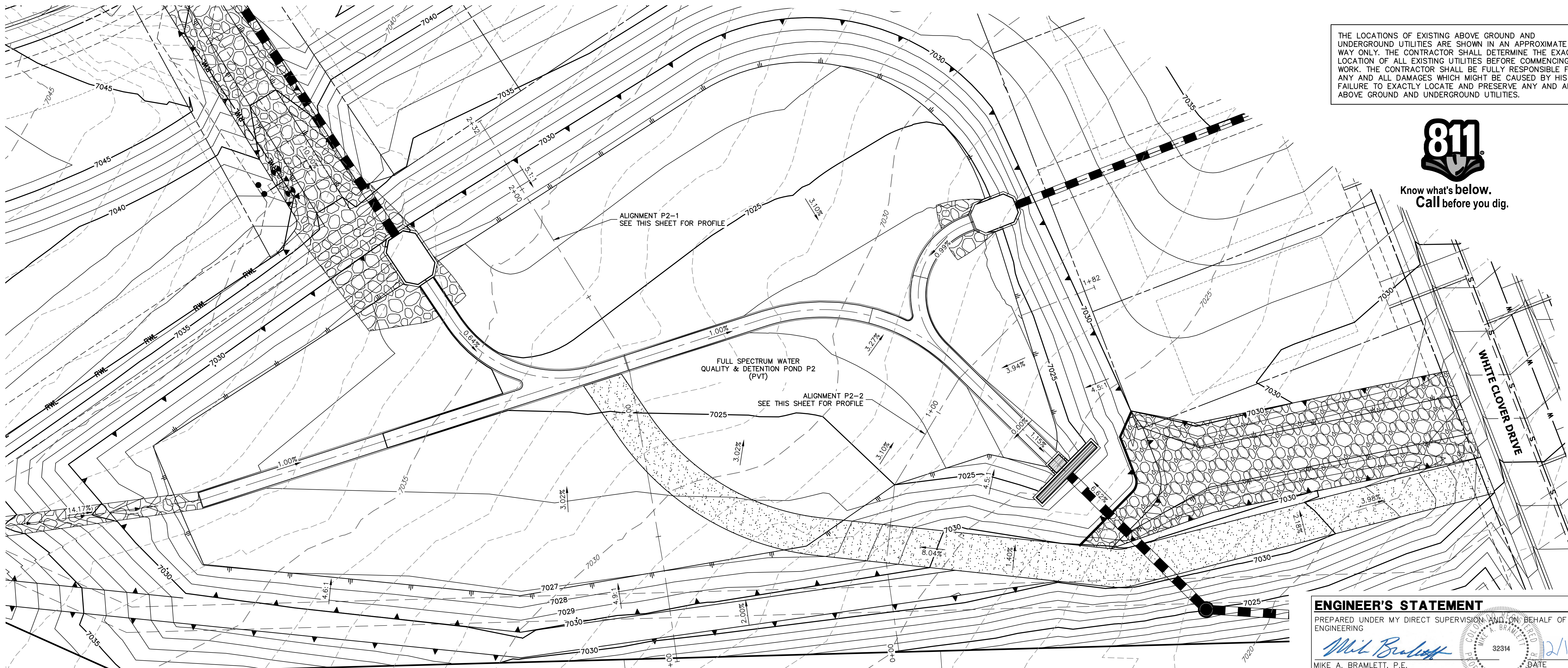


POND P2-2 PROFILE
STA 0+00.00 TO 1+81.73



- NOTES**
- ALL PROPOSED POND IMPROVEMENTS ARE PRIVATE UNLESS OTHERWISE NOTED.
 - SEE SHEETS 3-8 FOR PROPOSED STORM SEWER DESIGN.
 - CLOVERLEAF METROPOLITAN DISTRICT WILL OWN AND MAINTAIN ALL RETAINING WALLS WITHIN TRACTS. WALLS ON LOTS WILL BE OWNED AND MAINTAINED BY THE INDIVIDUAL LOT OWNER.

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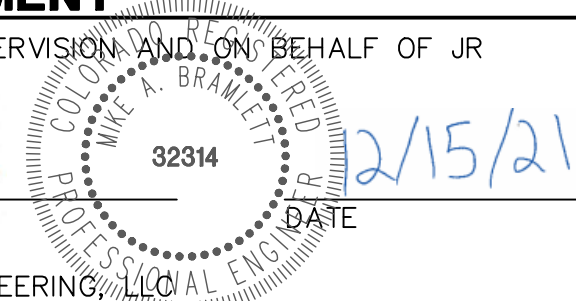


ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING

Mike A. Bramlett, P.E.
COLORADO P.E. 32314

FOR AND ON BEHALF OF JR ENGINEERING, LLC



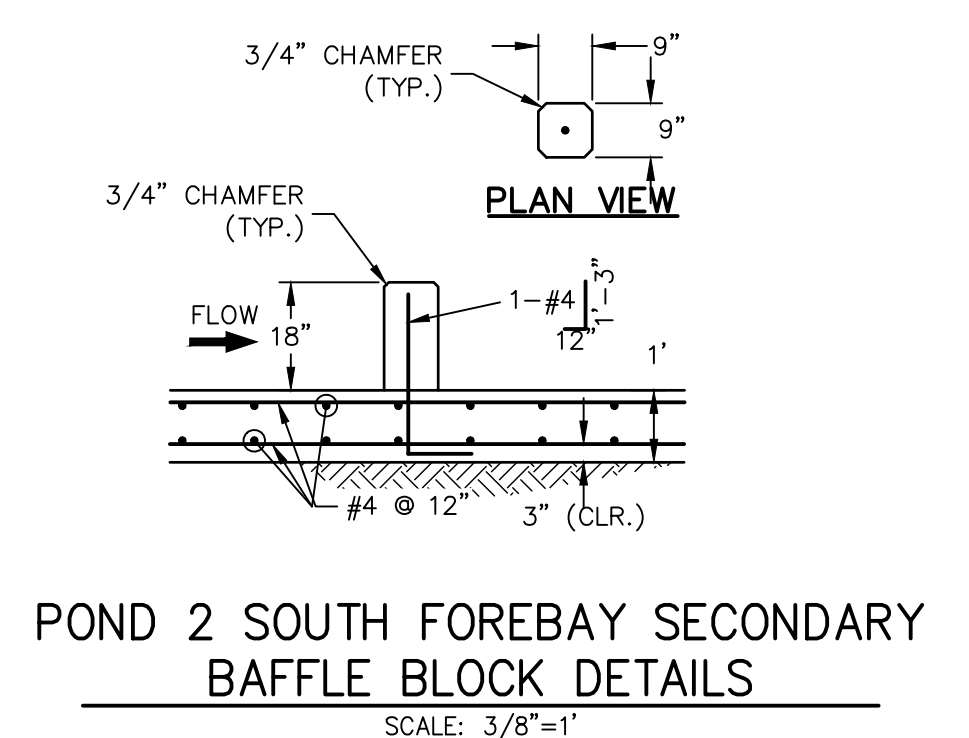
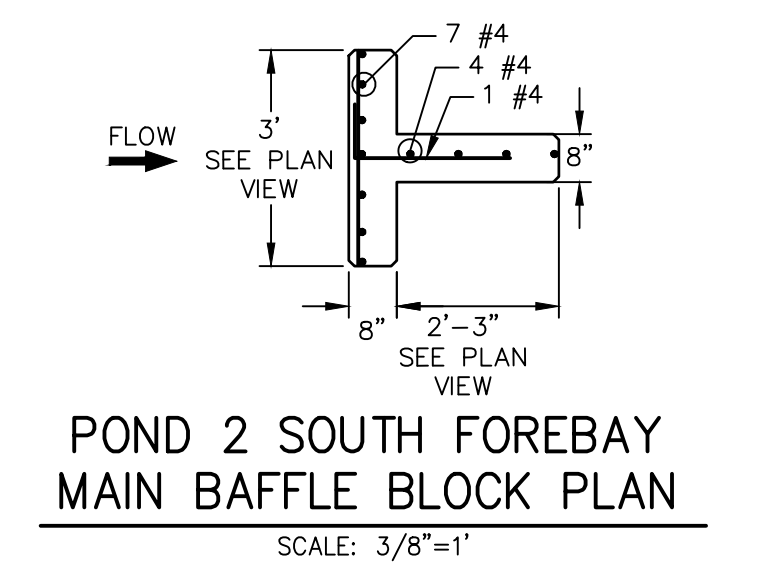
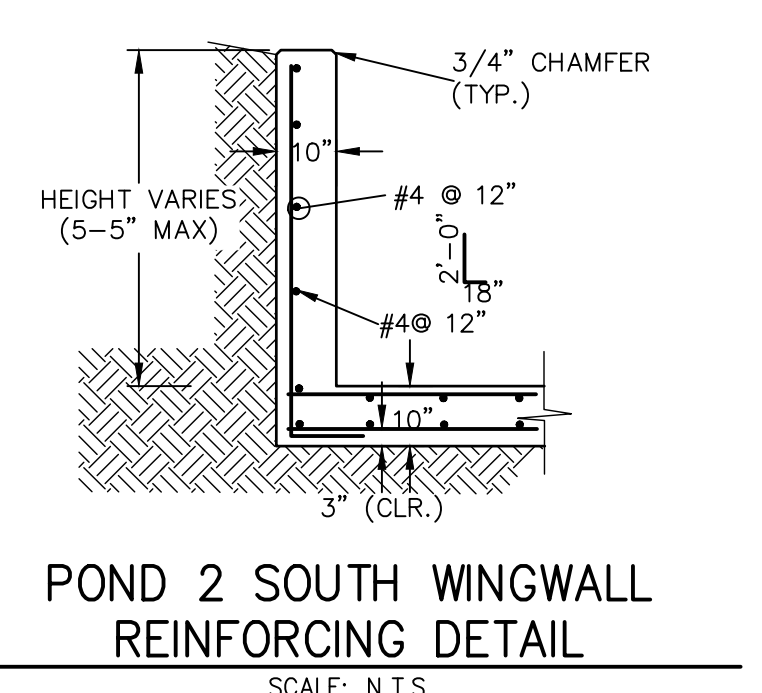
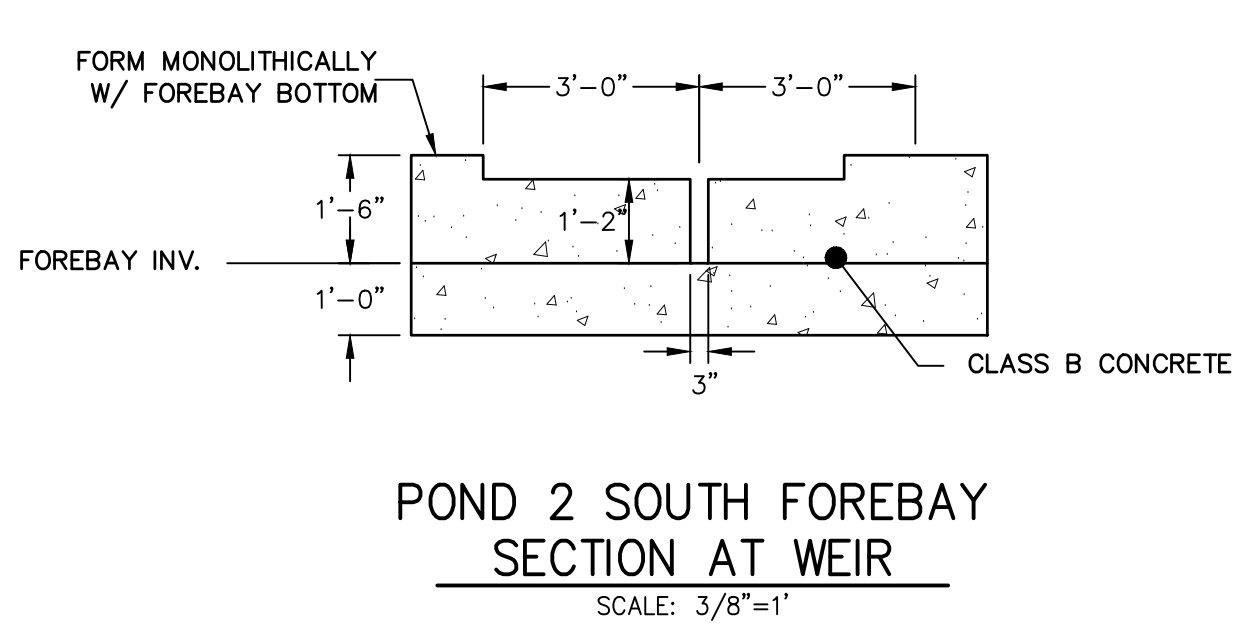
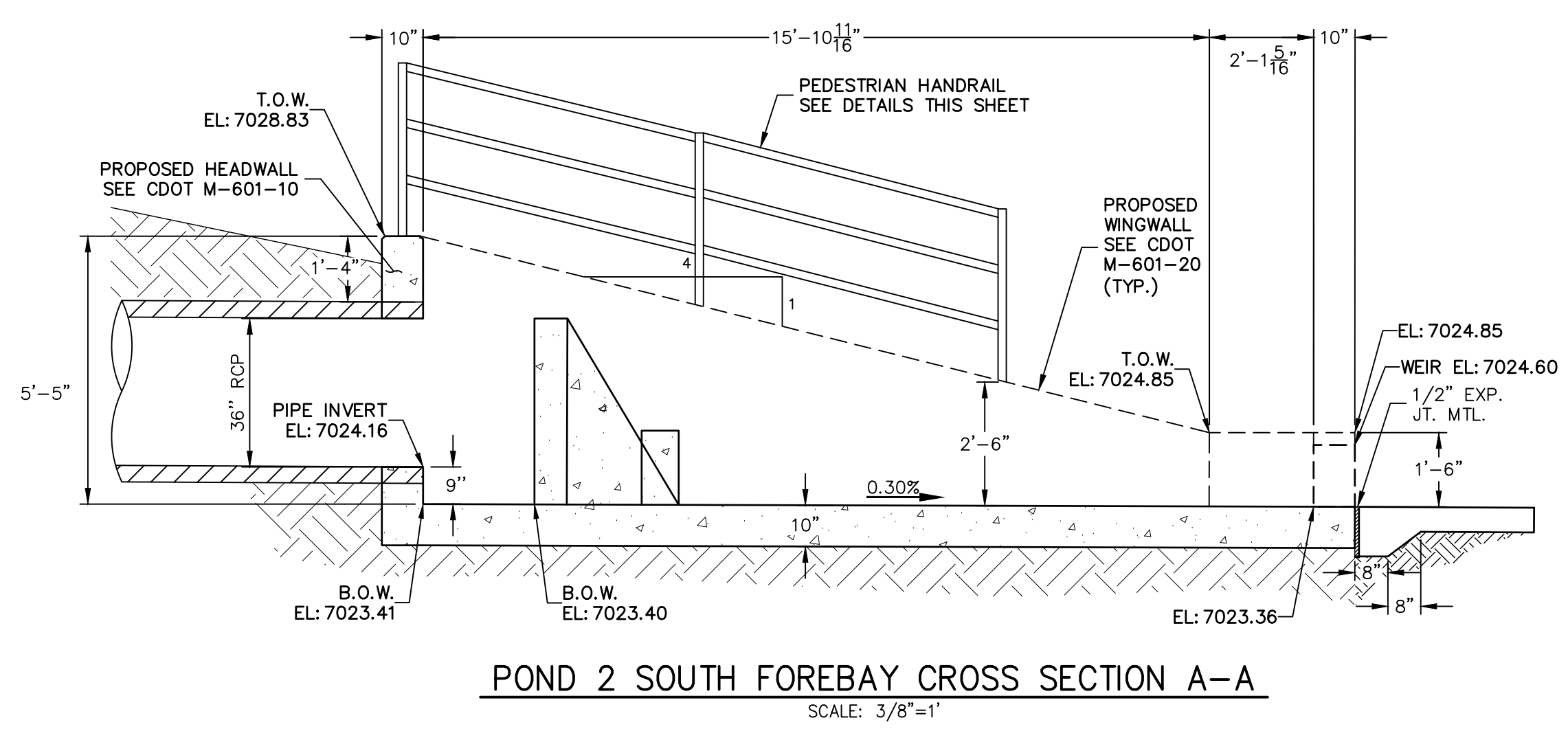
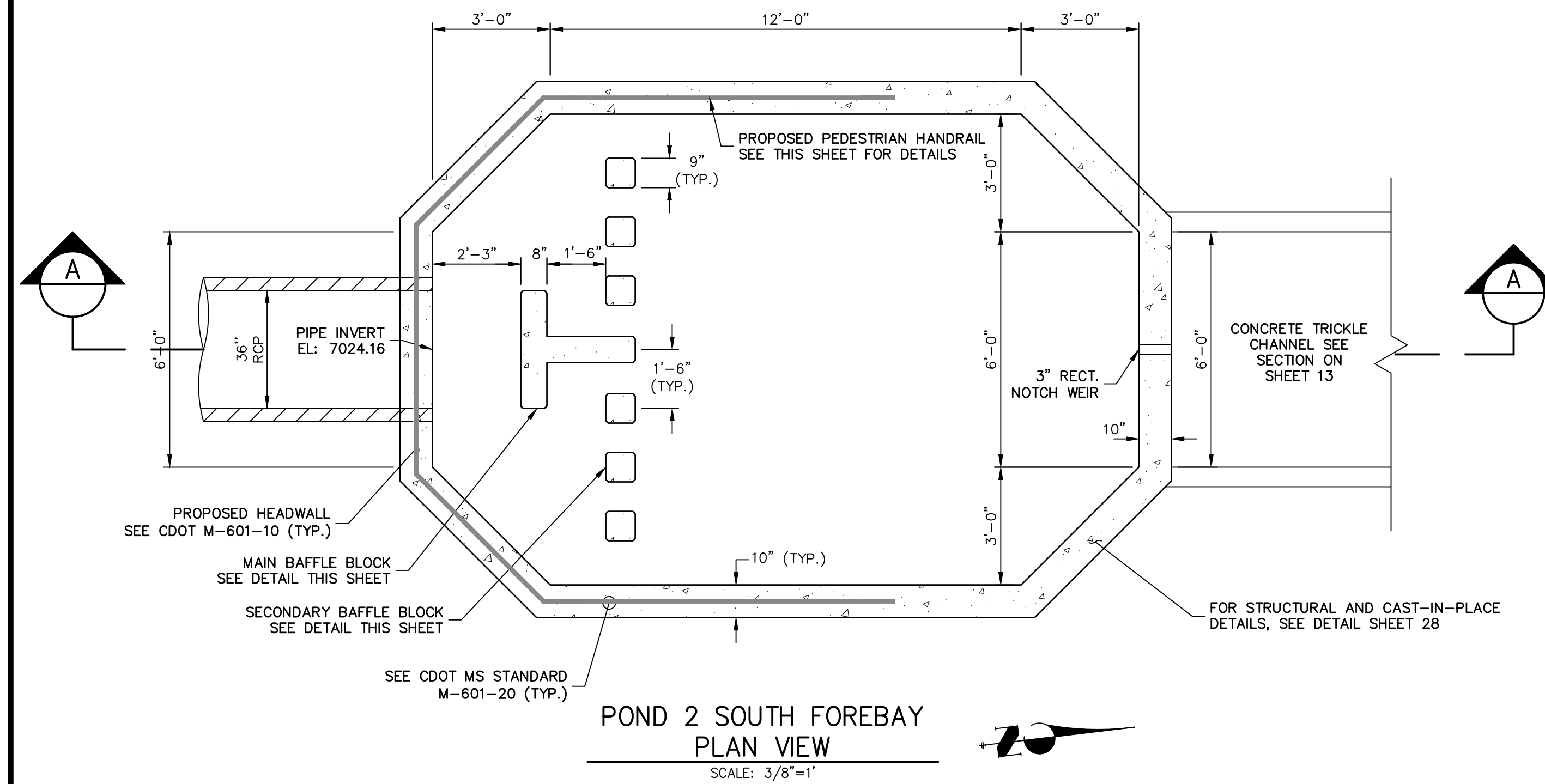
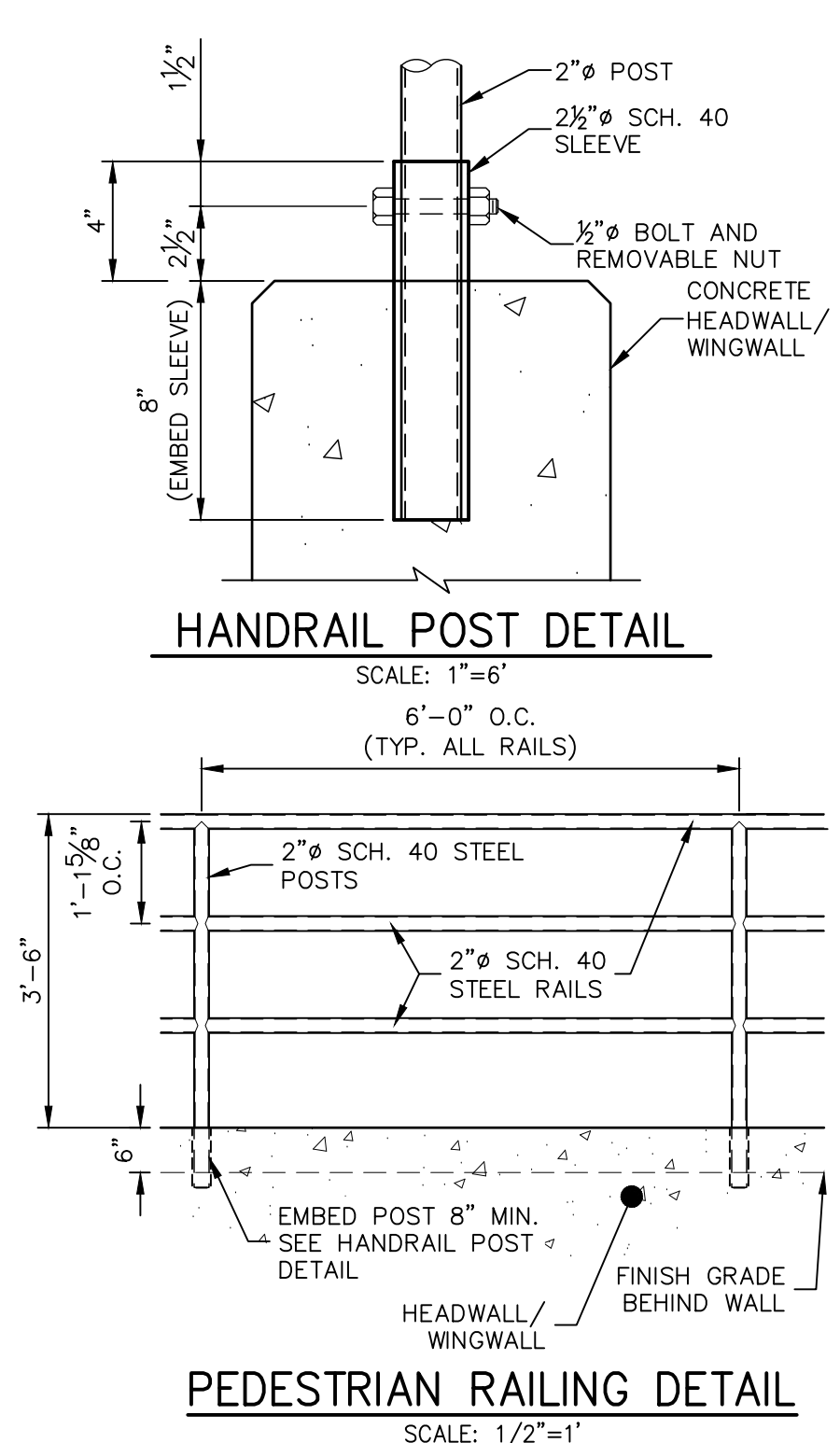
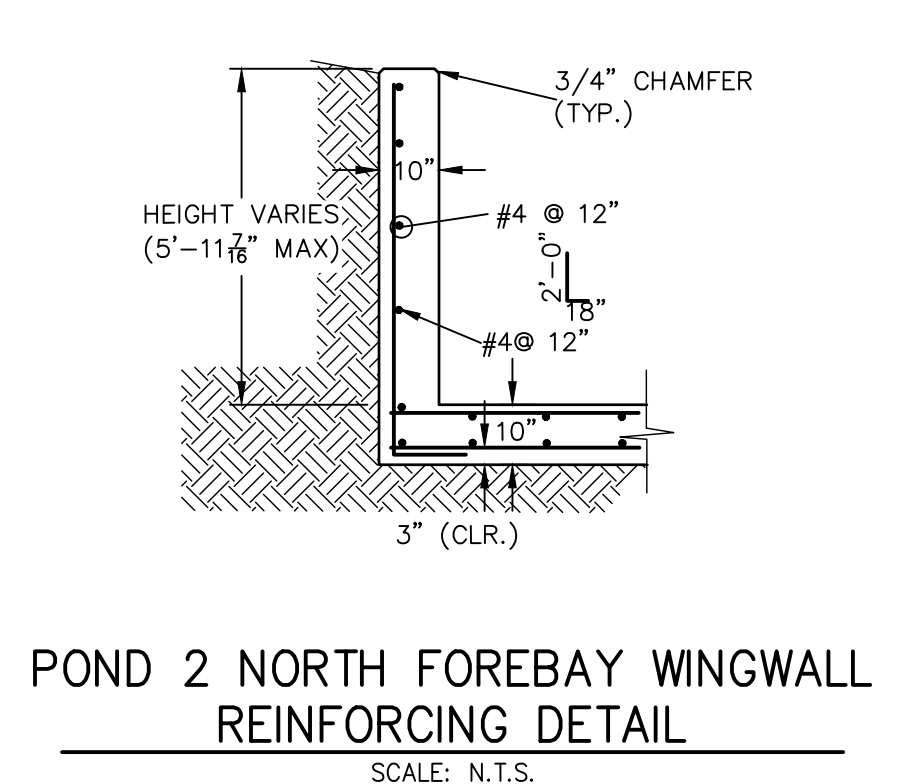
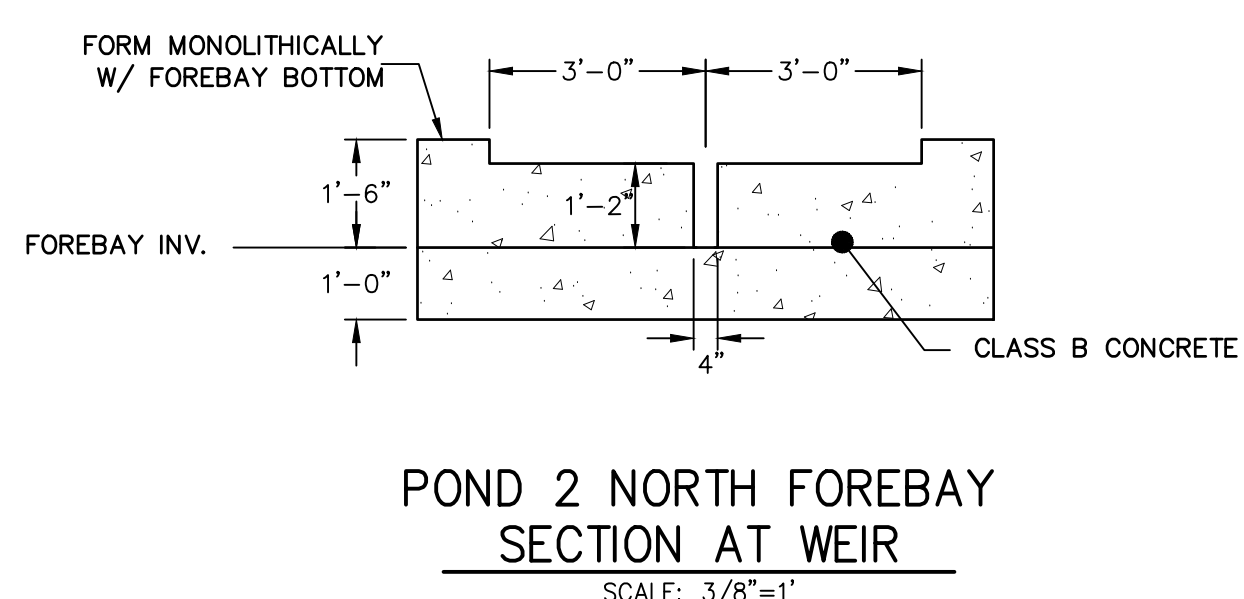
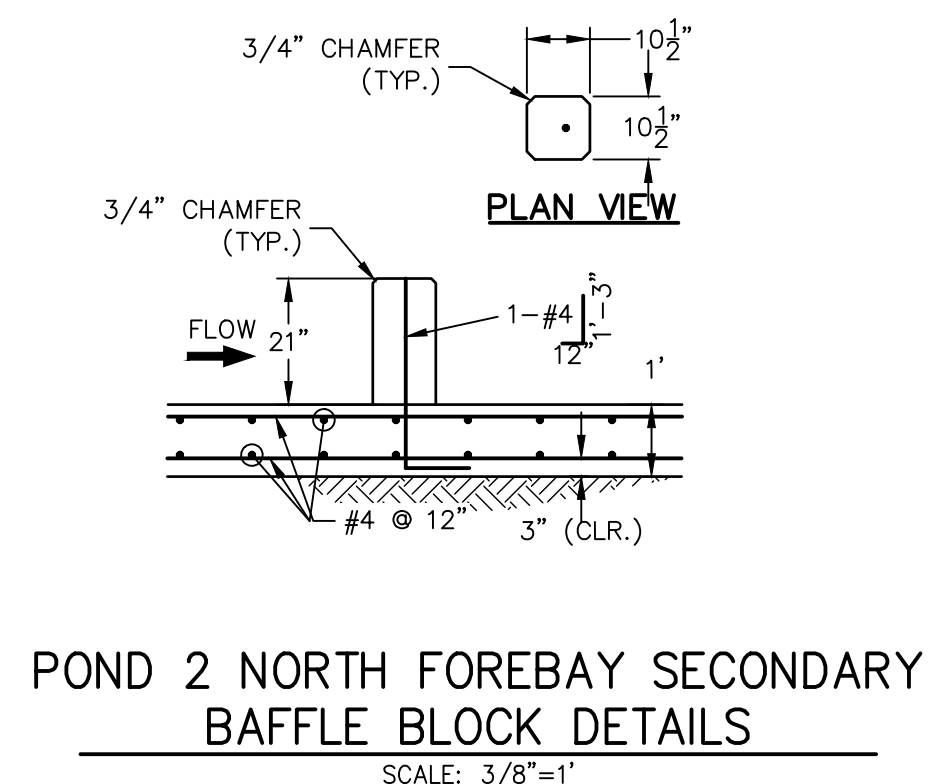
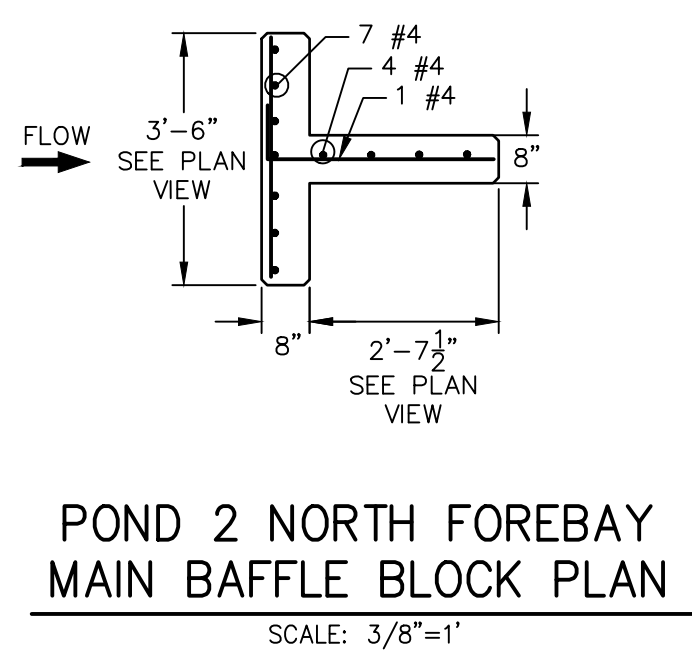
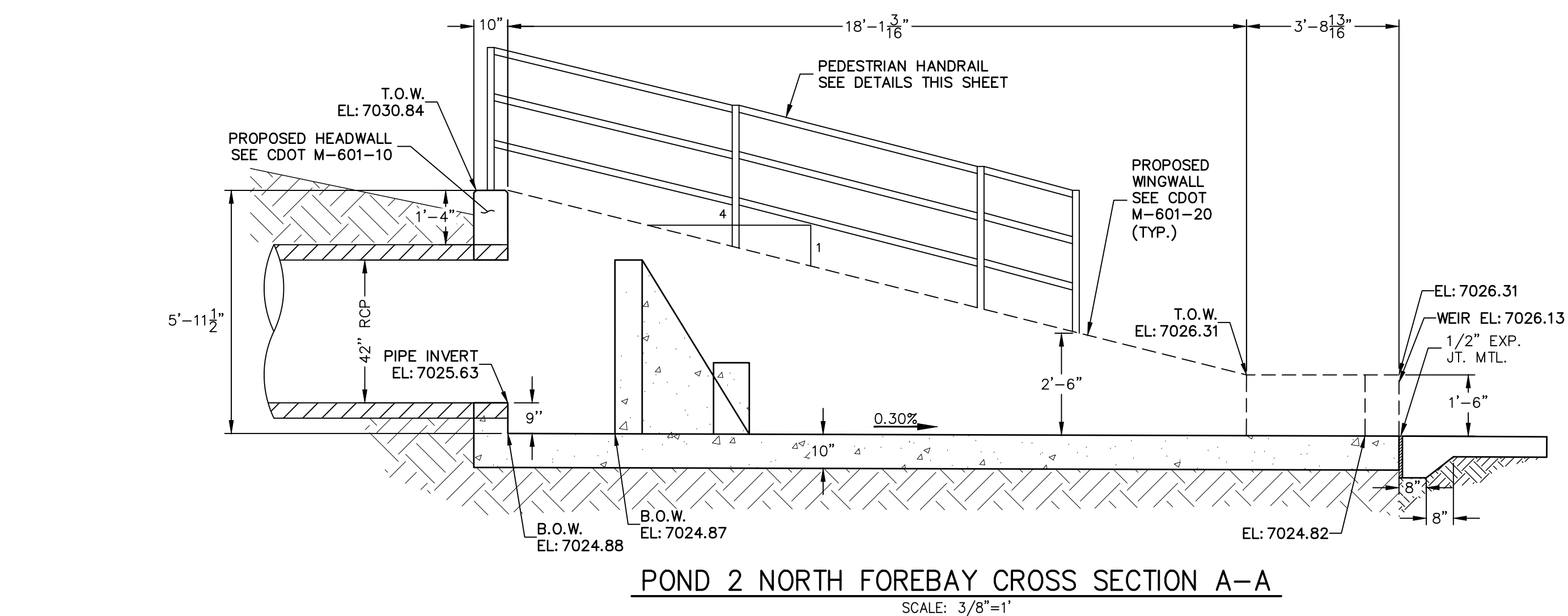
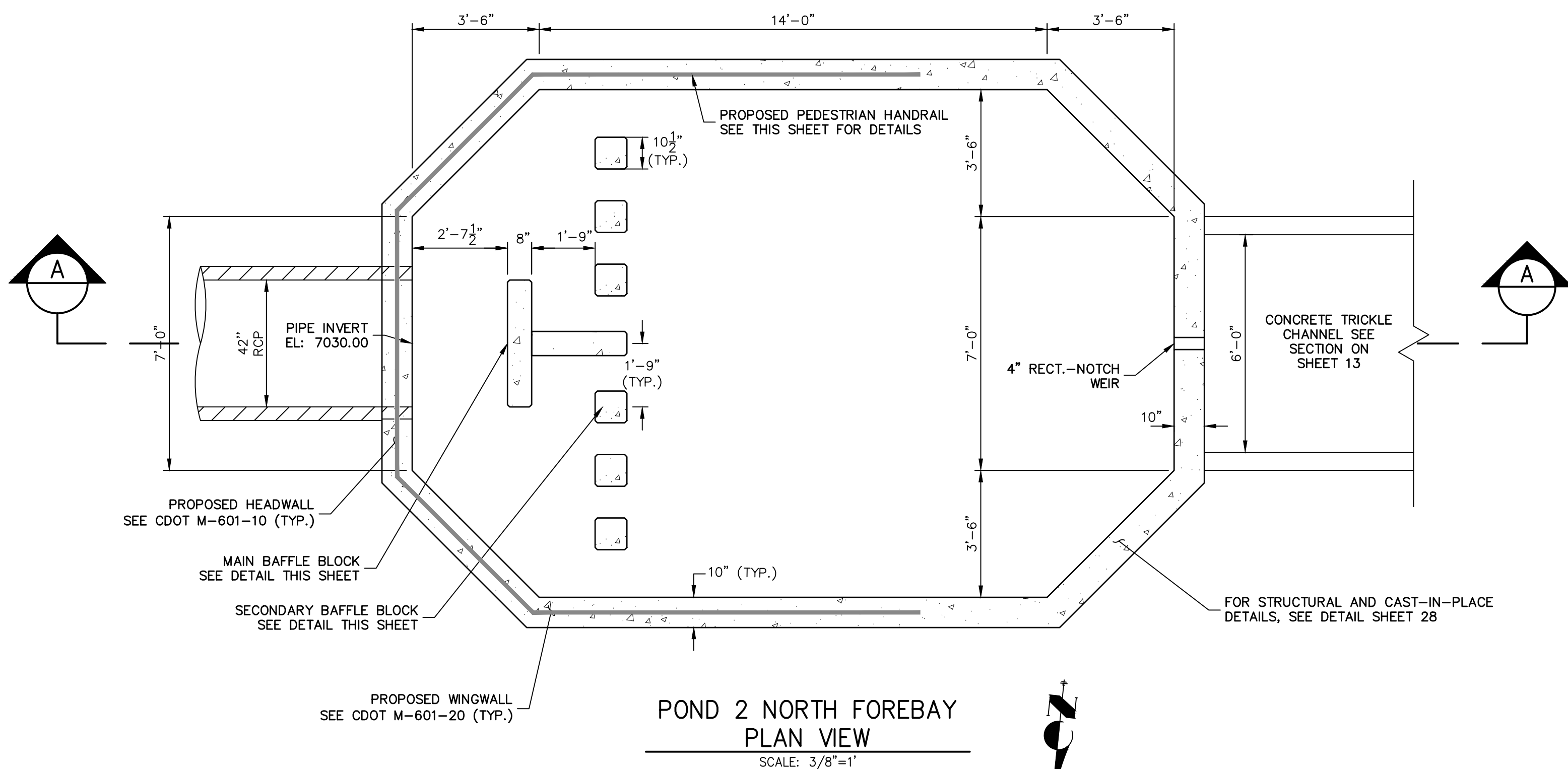
CLOVERLEAF FILING 2	POND PLANS AND DETAILS	BY				DATE			
		No.	REVISION	1"=20'	1"=2'	DATE	DESIGNED BY	DRAWN BY	CHECKED BY
						12/15/21	GVT	GVT	
SHEET 14 OF 28		JOB NO. 25158.01							

J.R. ENGINEERING
A Western Company

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Fort Collins 970-491-9888 • www.jrengineering.com

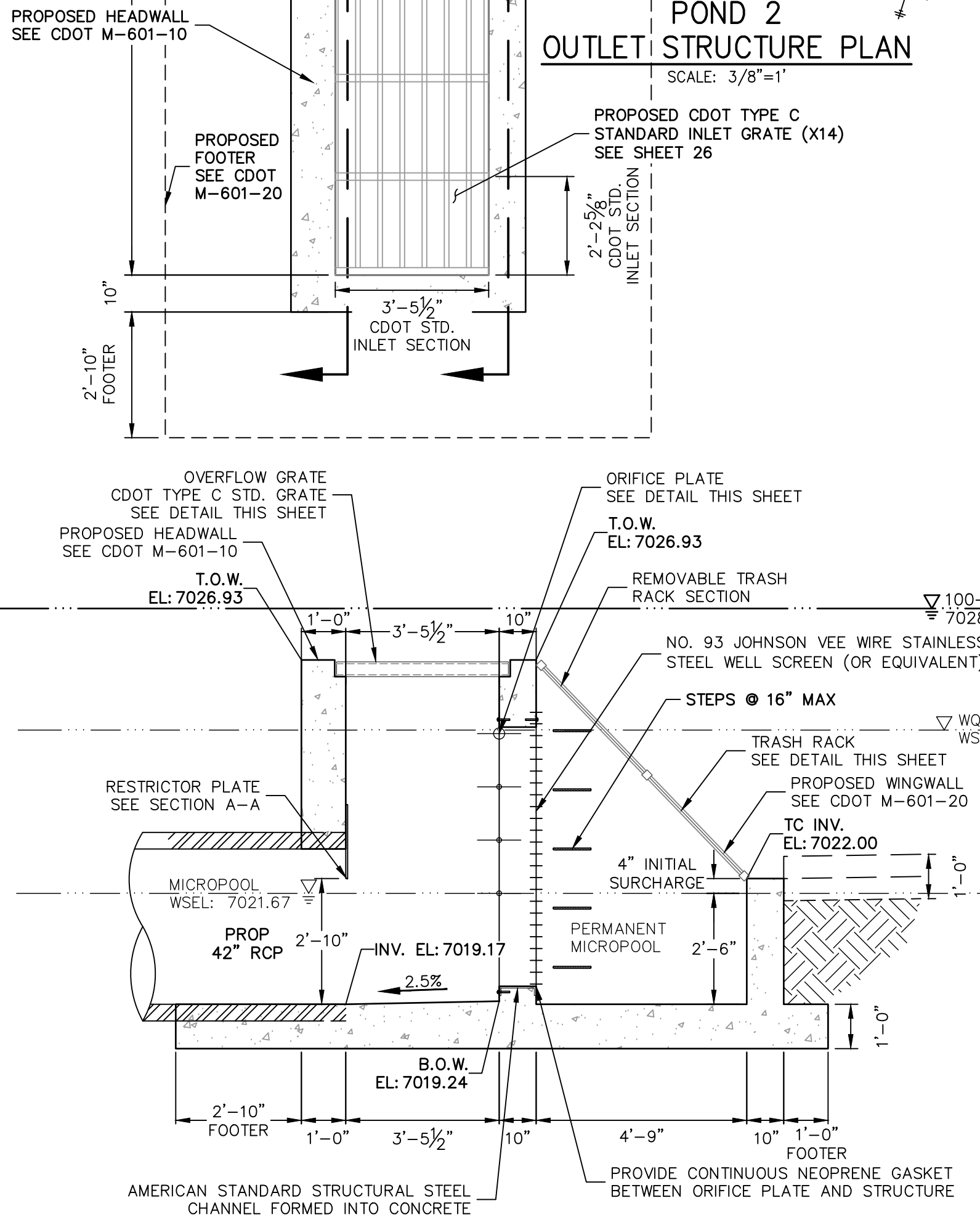
PREPARED FOR
MONUMENT HILL CM LLC
1864 WOODMOOR DR, STE 100
COLORADO SPRINGS, CO 80920
ATTN: JOE DESJARDIN
(719) 476-0800
JDESJARDIN@PROTERRACO.COM

UNTIL SUCH TIME AS
THESE DRAWINGS ARE
APPROVED BY THE
APPROPRIATE REVIEWING
AGENCIES, OR ENGINEERING
APPROVES THEIR USE,
THEY ARE NOT TO BE
DESIGNATED BY WRITTEN
AUTHORIZATION.



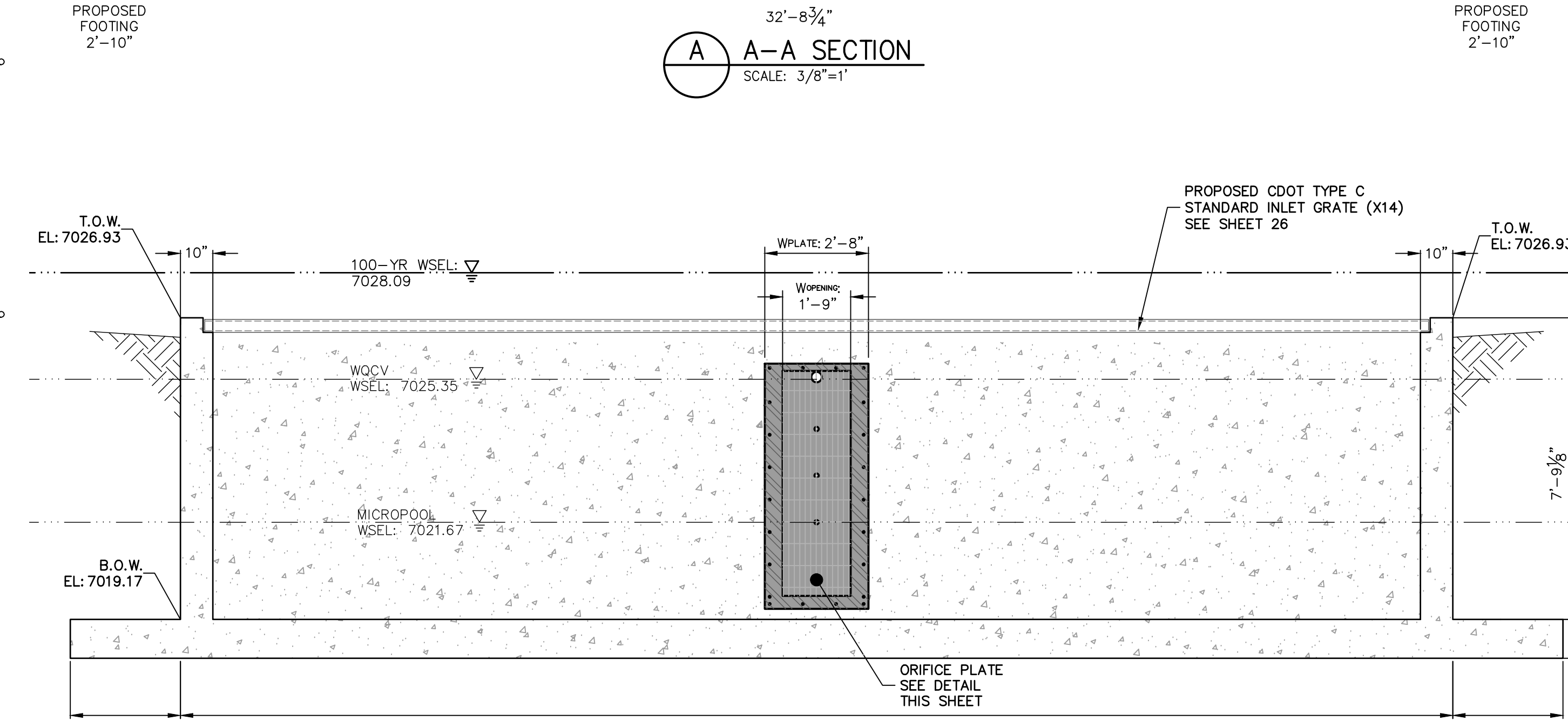
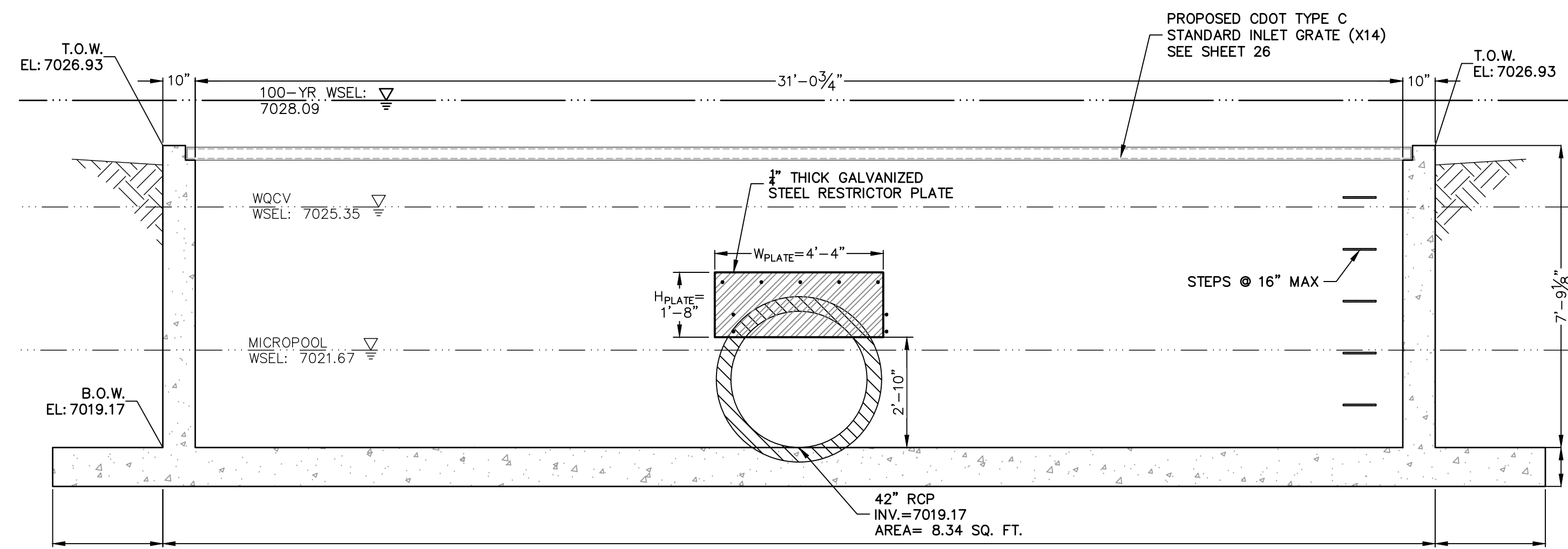
ENGINEER'S STATEMENT
PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING
Mike Bramlett
MIKE A. BRAMLETT, P.E.
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, LLC
DATE 12/15/21

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE AGENCIES, OR ENGINEERING APPROVES THEIR USE. DESIGNATED BY WRITTEN AUTHORIZATION.		PREPARED FOR MONUMENT HILL CM LLC 1864 WOODMOOR DR, STE 100 COLORADO SPRINGS, CO 80920 ATTN: JOE DESJARDIN (719) 476-0800 JDESJARDIN@PROTERRACCO.COM	
J.R. ENGINEERING A Western Company		Central 303-740-9888 • Colorado Springs 719-583-2593 Fort Collins 970-491-9888 • www.jrengineering.com	
CLOVERLEAF FILING 2	BY	DATE	
	NO.	REVISION	
	H-SCALE	V-SCALE	DATE
	DESIGNED BY	DRAWN BY	CHECKED BY
POND PLANS AND DETAILS		12/15/21	GAG
SHEET 15 OF 28		JOB NO. 25158.01	

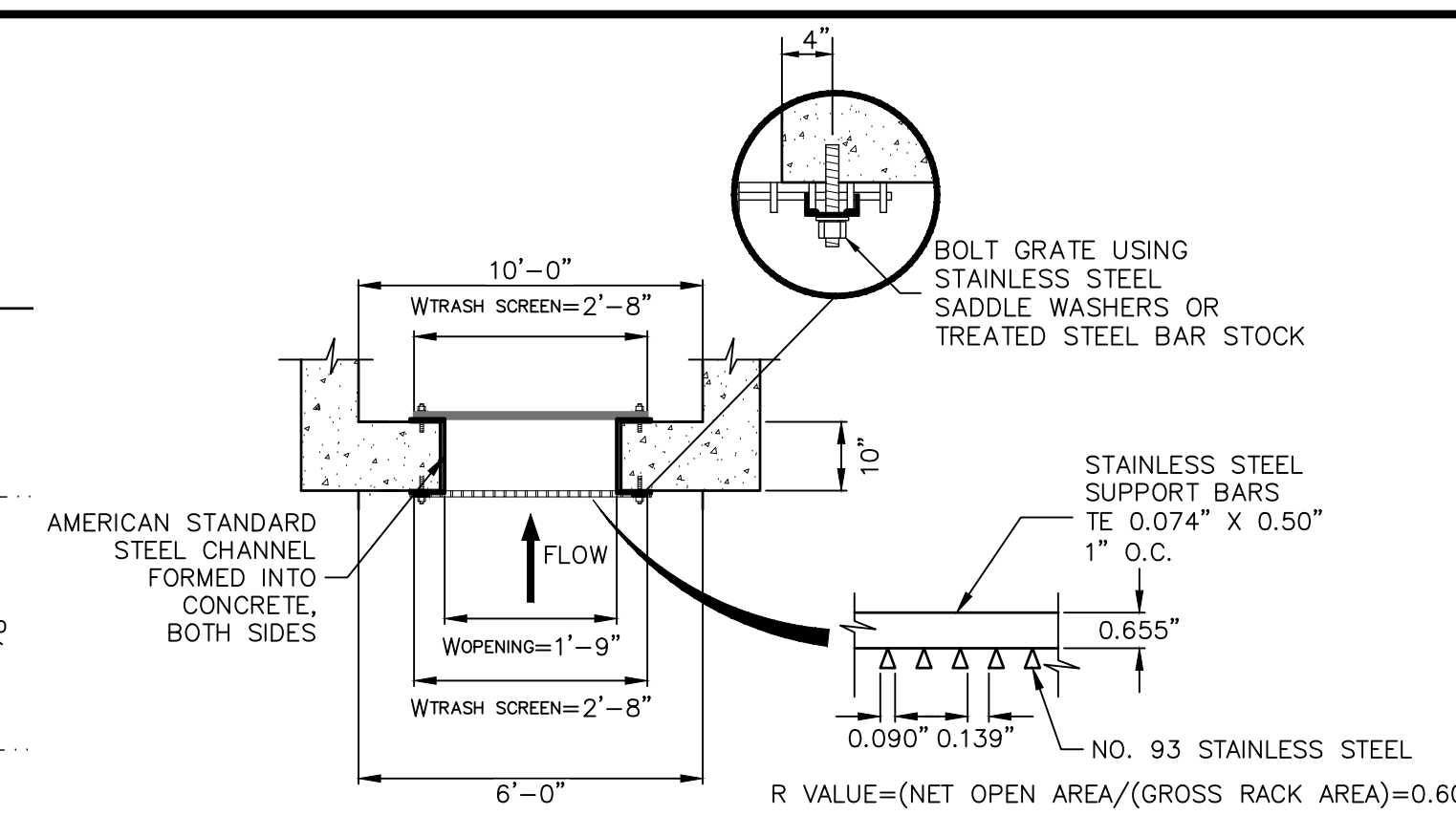
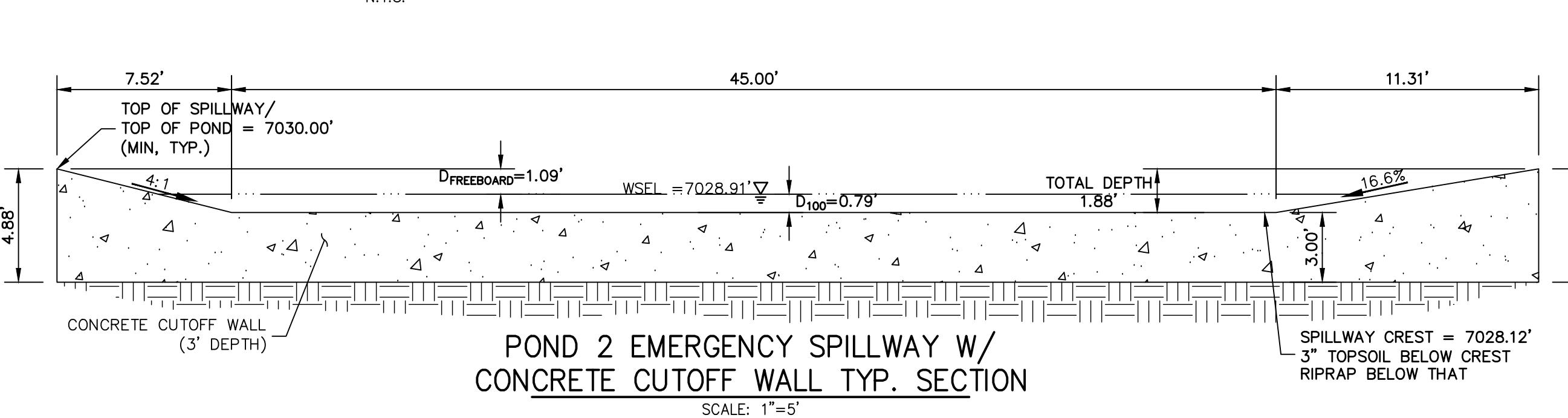
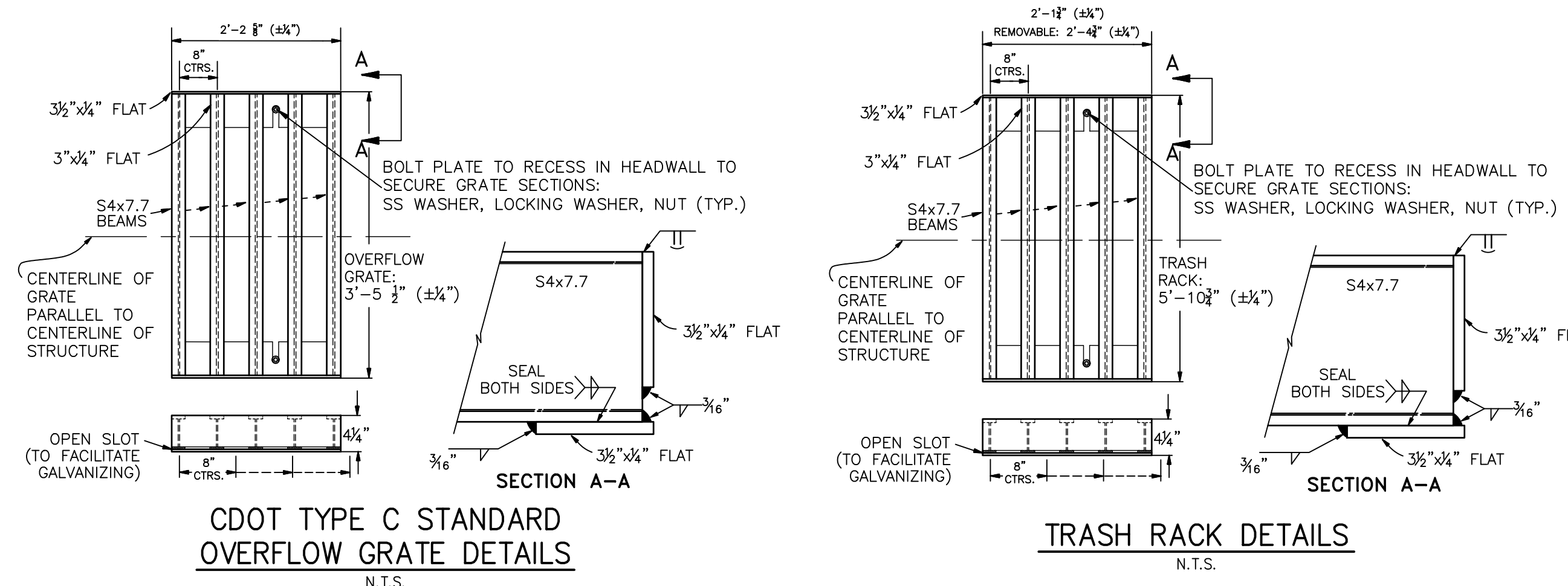


POND 2
OUTLET STRUCTURE PROFILE

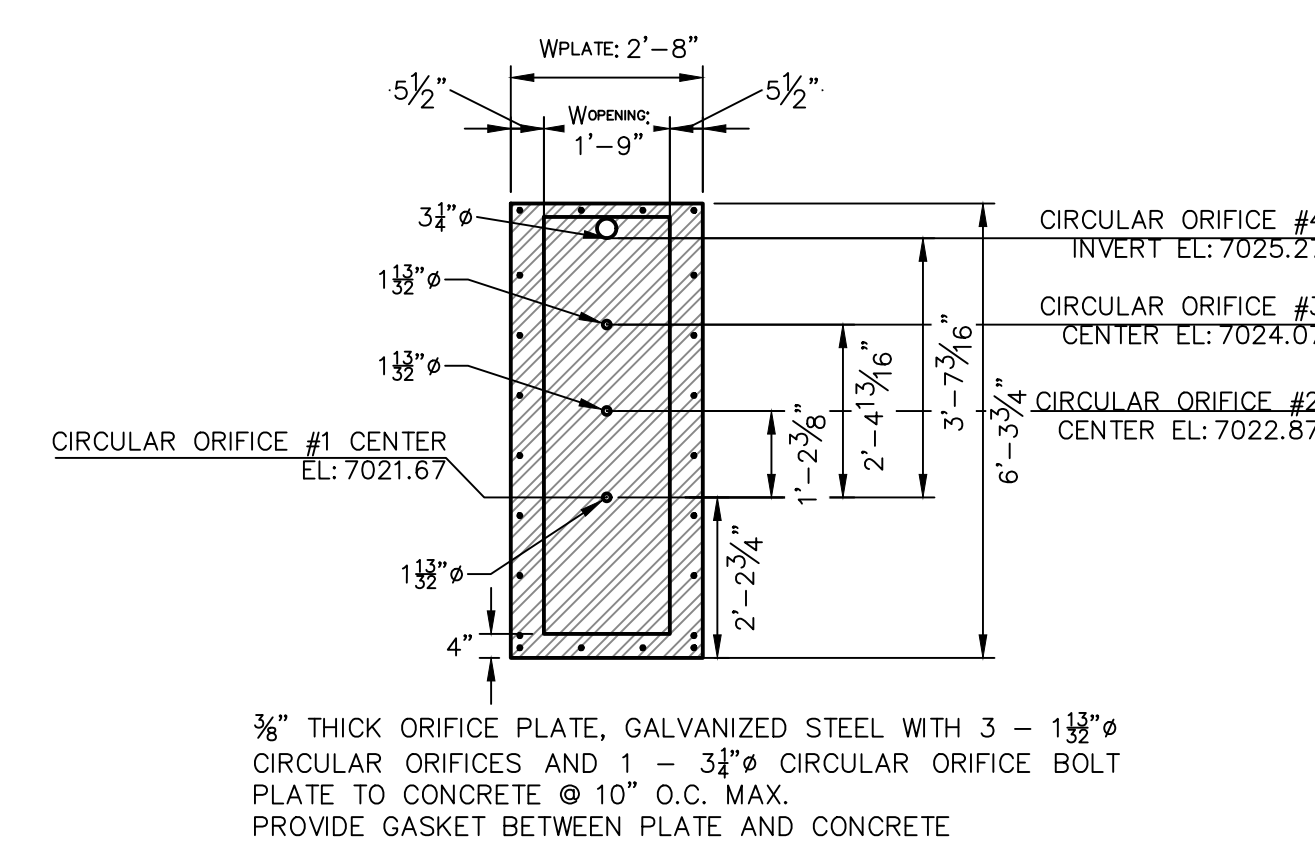
SCALE: 3/8"=1'



32'-8 $\frac{3}{4}$ "
B B-B SECTION
SCALE: 3/8"=1'



TRASH SCREEN AND PLATE
DETAIL (PLAN)

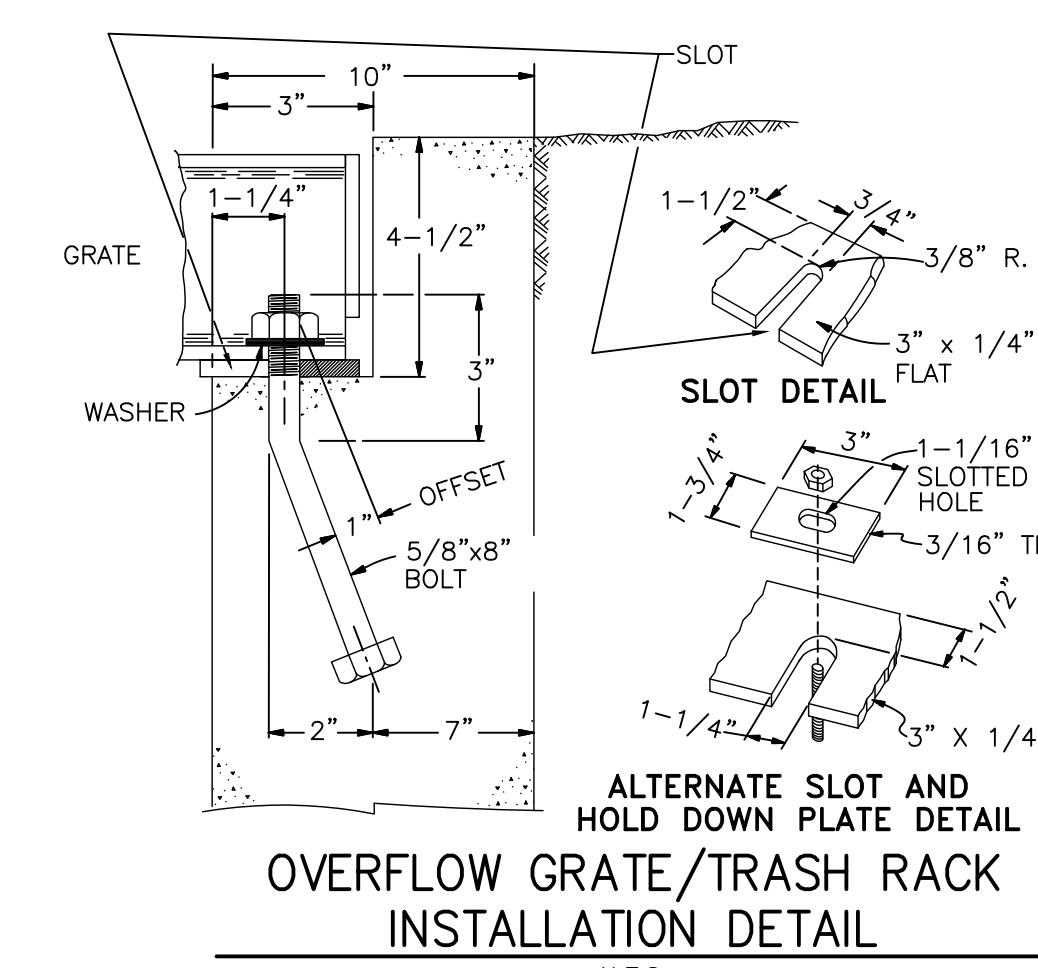


ORIFICE PLATE DETAIL

SCALE: 3/8"=1'

POND 2 OUTLET STRUCTURE NOTES:

- ORIFICE PLATE:**
1. PROVIDE CONTINUOUS NEOPRENE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE AND BETWEEN THE RESTRICTOR PLATE AND CONCRETE.
 2. BOLT PLATE TO CONCRETE 12" MAX. ON CENTER.
- TRASH RACKS:**
1. TRASH RACKS SHALL BE 1½" SCH.40 STEEL PIPE, GALVANIZED, @ 6" CENTERS. SUPPORT BARS SHALL BE ½"x2" STEEL RECTANGULAR BARS, GALVANIZED, @ 36". ALL TRASH RACKS SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE.
 2. REMOVABLE TRASH RACK SECTIONS SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE AND PROVIDED WITH HINGED & LOCKABLE REMOVABLE ACCESS PLATES AS SHOWN ON THE PLANS.
 3. STEEL TRASH RACKS SHALL BE HOT DIP GALVANIZED AND MAY BE HOT POWDER COATED AFTER GALVANIZING.
 4. STRUCTURAL STEEL FOR GRATES, ORIFICE PLATES, AND BARS SHALL BE GALVANIZED AND SHALL BE IN ACCORDANCE WITH CDD STANDARD SPECIFICATIONS, SUBSECTION 712.06.
 5. ALL HARDWARE, HANGERS, PLATES AND BARS SHALL BE STAINLESS STEEL.
 6. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL PLATES AND GRATING FOR ENGINEER'S APPROVAL PRIOR TO CONSTRUCTION.



OVERFLOW GRATE/TRASH RACK INSTALLATION DETAIL

N.T.S.



Know what's **below**.
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ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR
ENGINEERING

Mich Br

MIKE A. BRAMLETT, P.E.
COLORADO P.E. 32314
FOR AND ON BEHALF OF

PREPARED FOR

J·R ENGINEERING
A Weetman Company



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Fort Collins 970-491-9888 • www.jrengineering.com

No.	REVISION	BY	DATE
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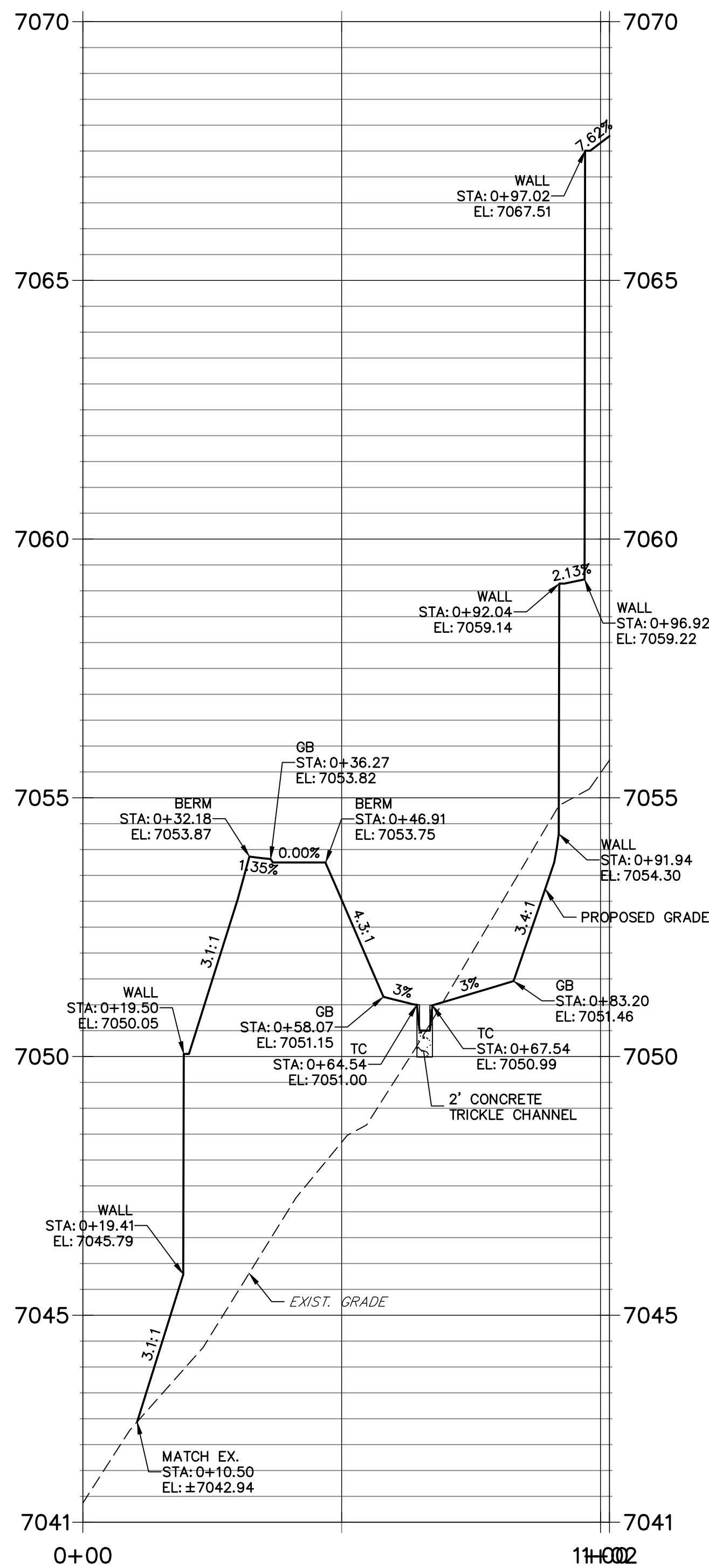
CLOVERLEAF FILING 2

POND PLANS AND DETAILS

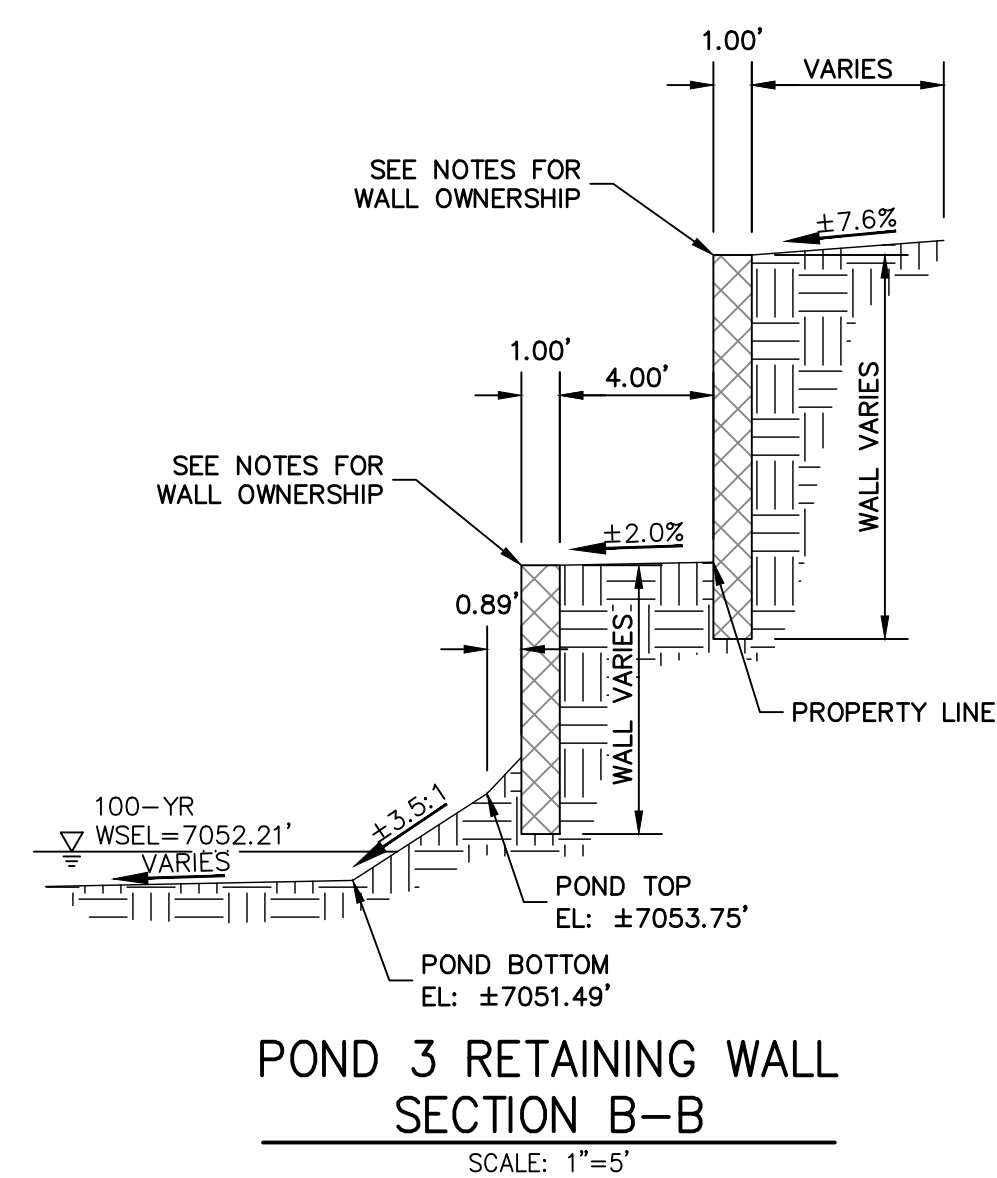
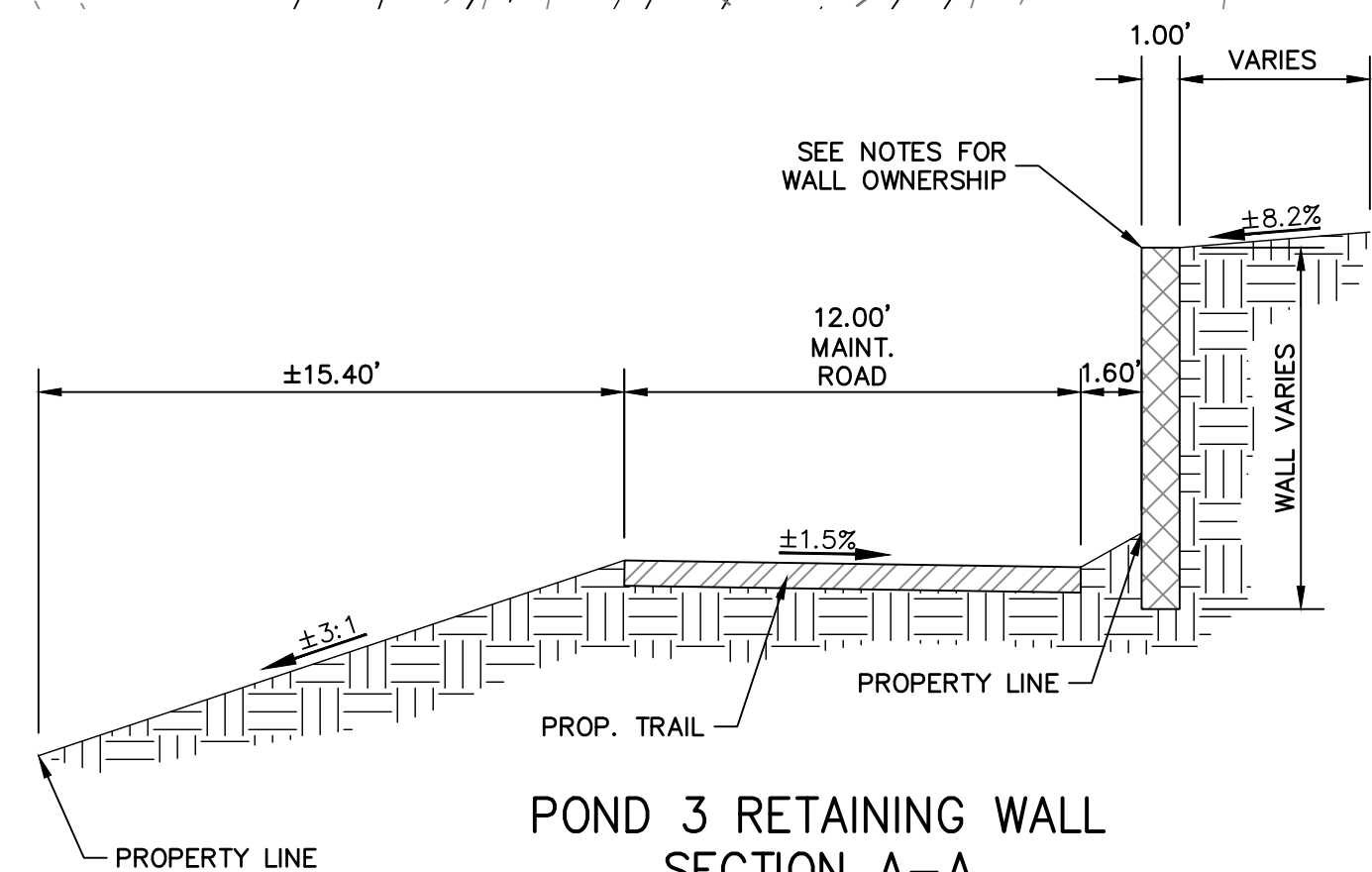
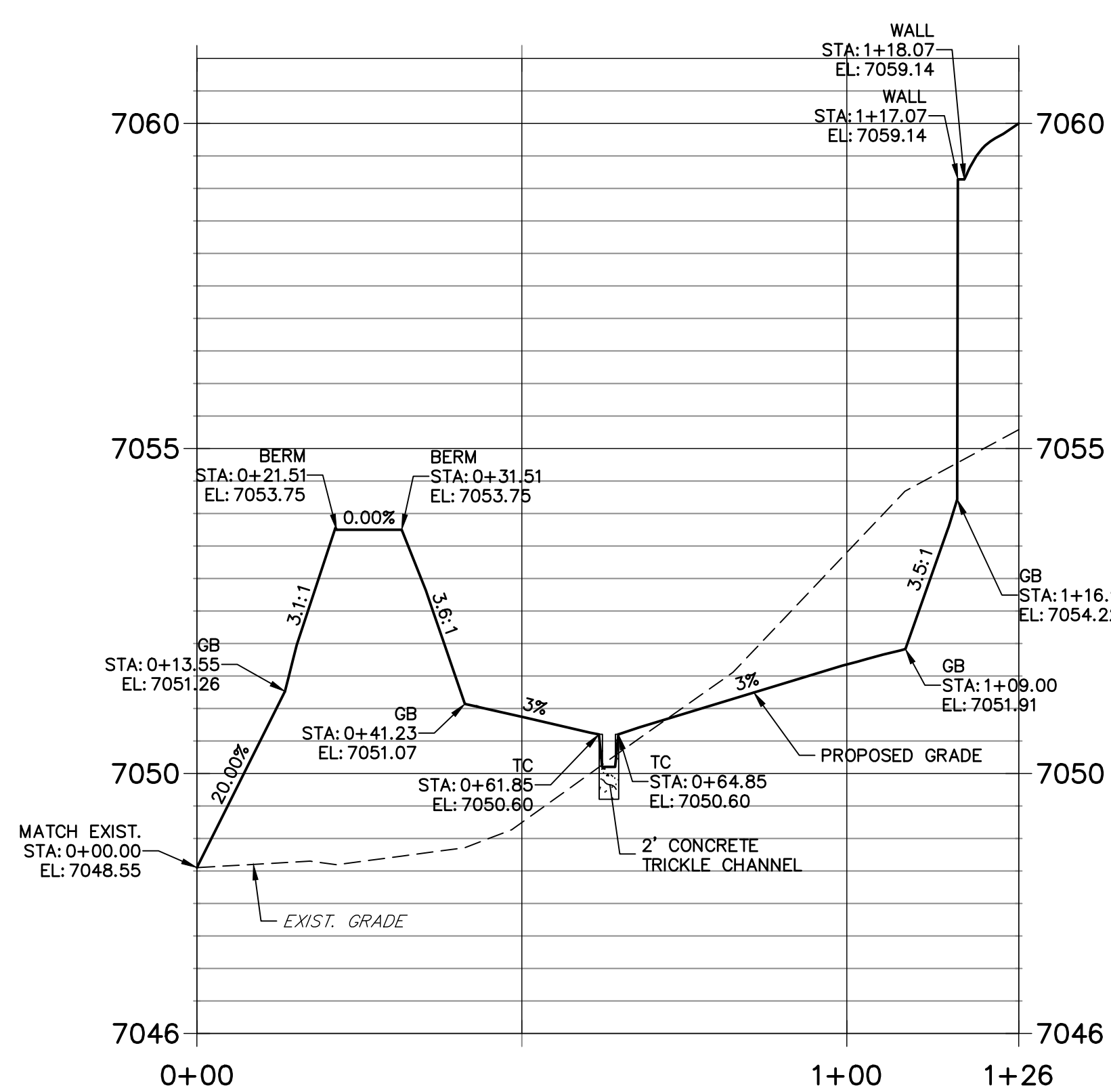
SHEET 16 OF 28

JOB NO. 25158.01

POND P3-1 PROFILE
STA 0+00.00 TO 1+01.74



POND P3-2 PROFILE
STA 0+00.00 TO 1+26.44



NOTES

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Know what's below.
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ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING

Mike A. Bramlett, P.E.
COLORADO P.E. 32314

FOR AND ON BEHALF OF JR ENGINEERING, LLC

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE AGENCIES, OR ENGINEERING APPROVES THEIR USE, THESE DRAWINGS ARE DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR
MONUMENT HILL CM LLC
1864 WOODMOOR DR, STE 100
COLORADO SPRINGS, CO 80920
ATTN: JOE DESJARDIN
(719) 476-0800
JDESJARDIN@PROTERRACO.COM

J.R. ENGINEERING
A Western Company

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No.	REVISION	BY	DATE
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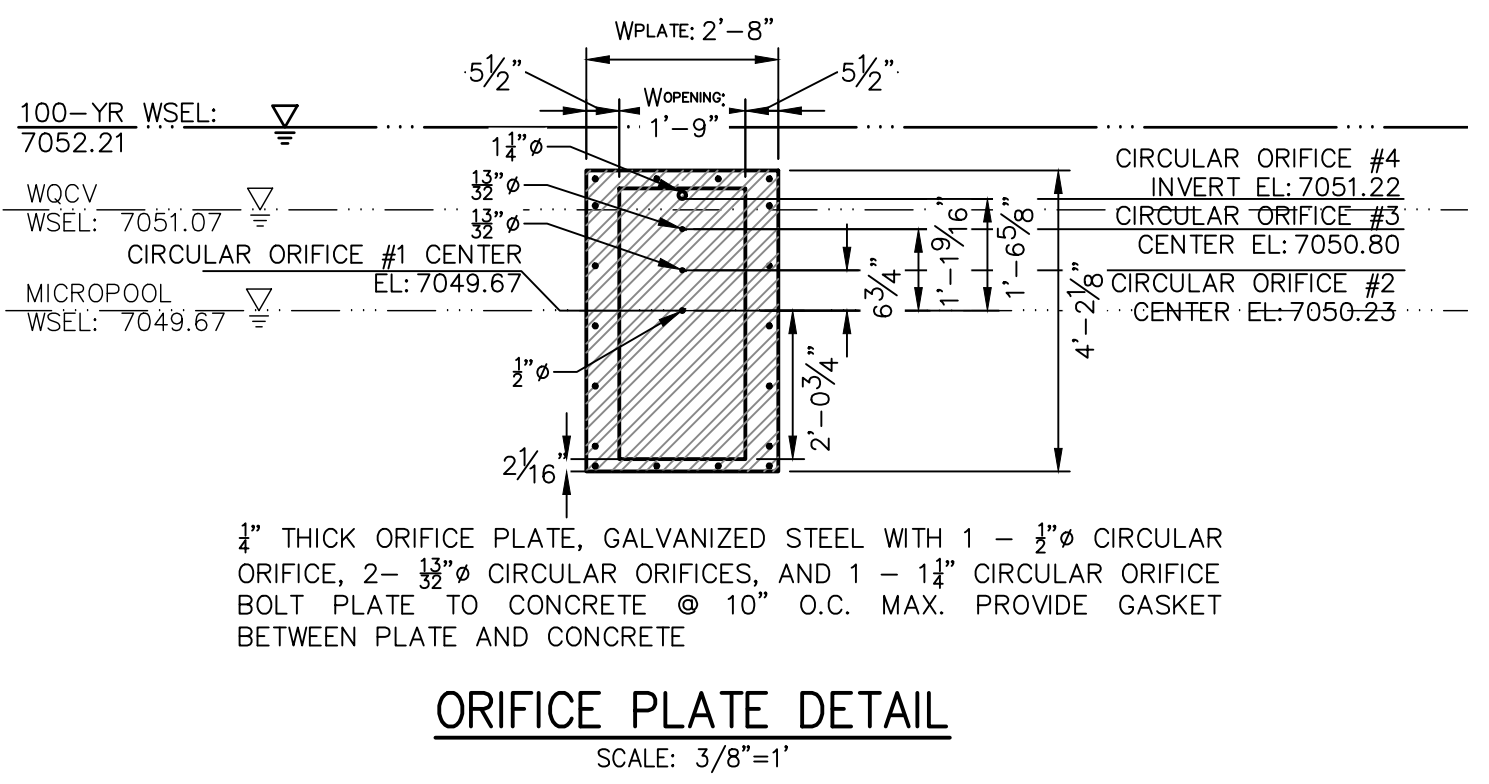
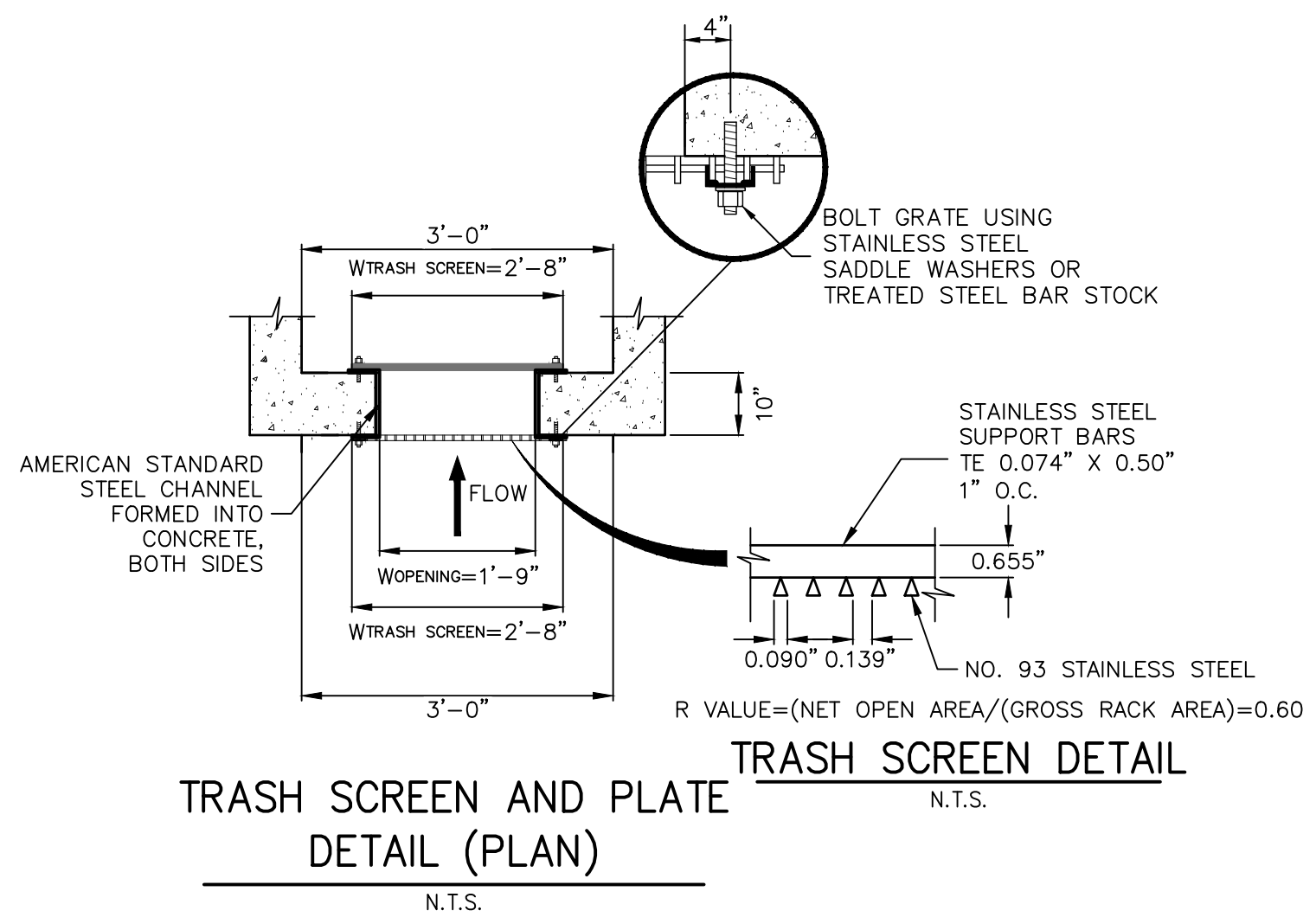
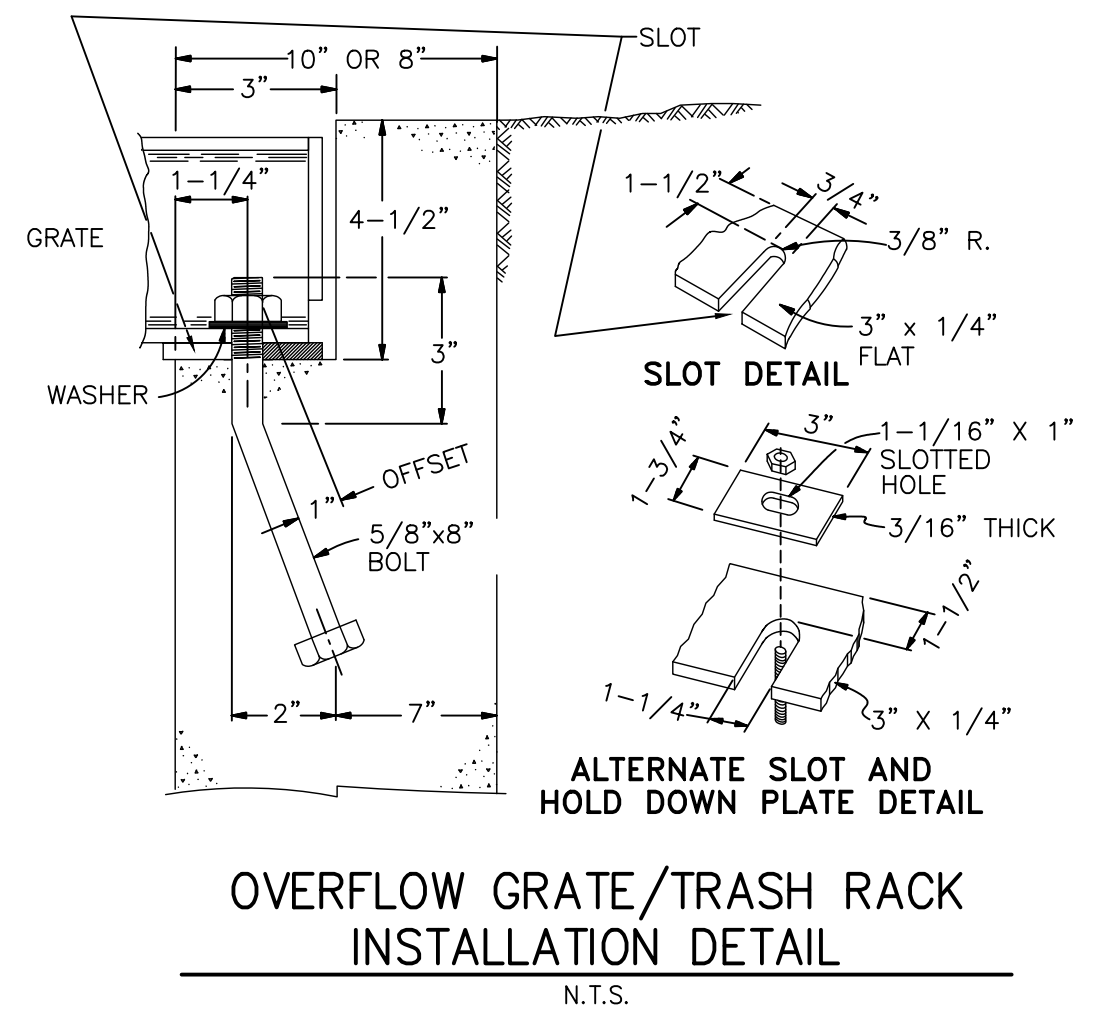
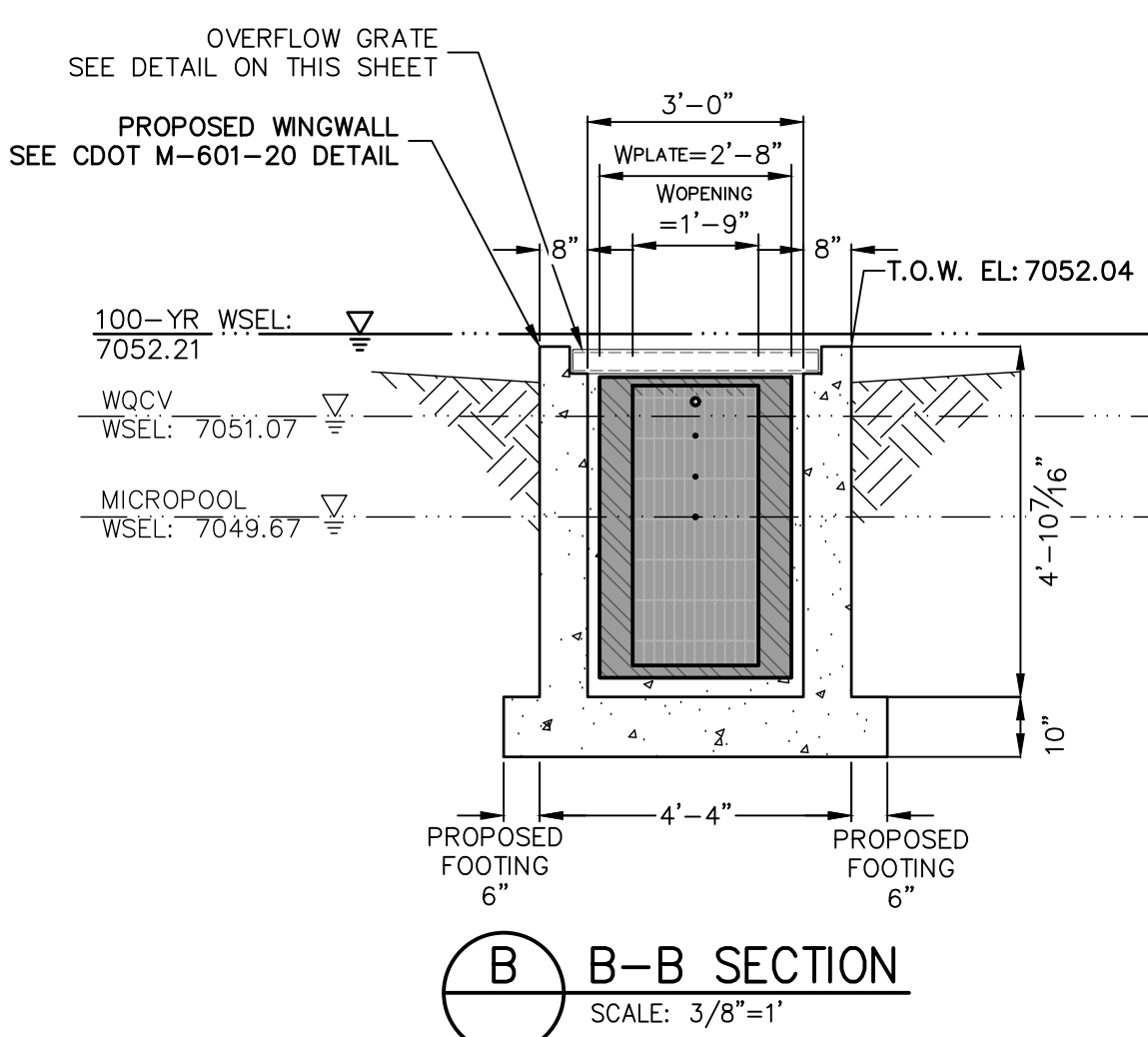
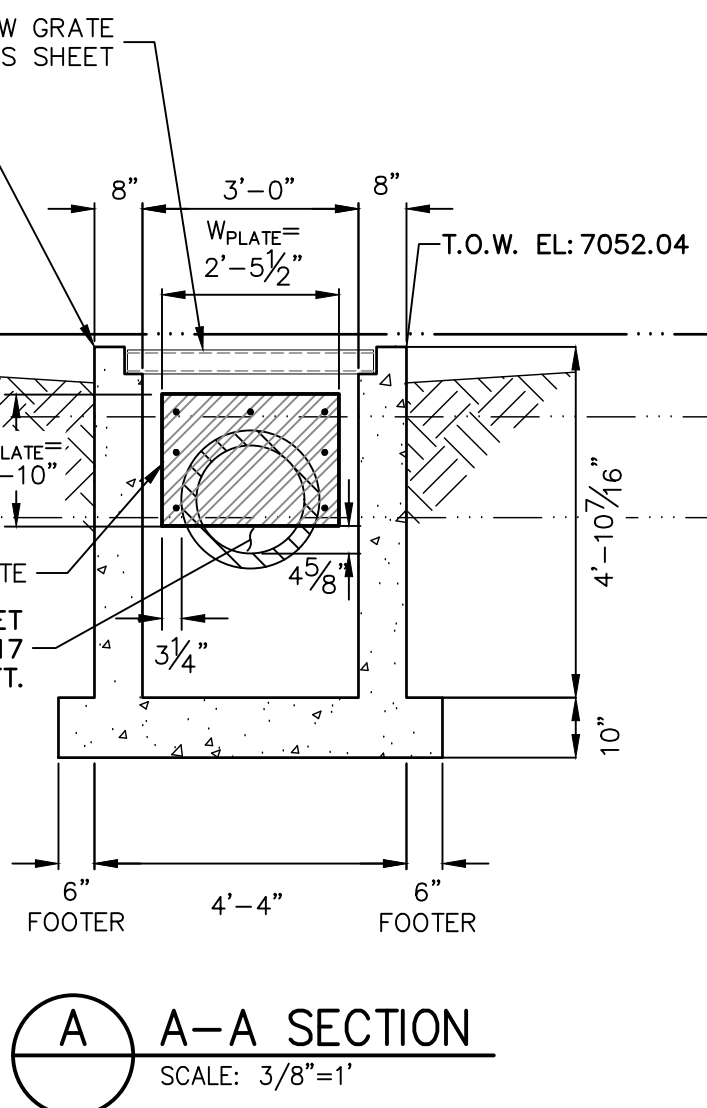
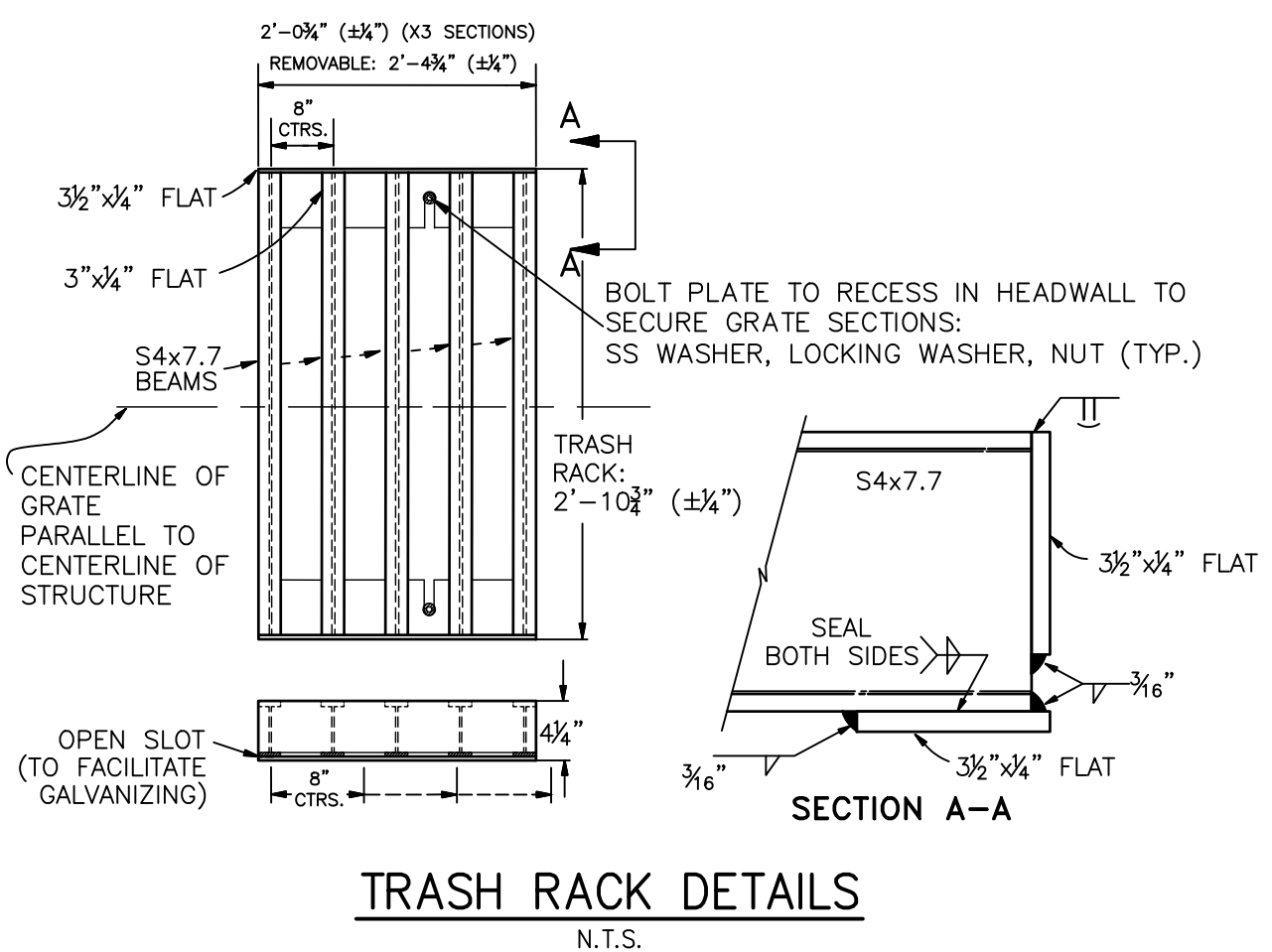
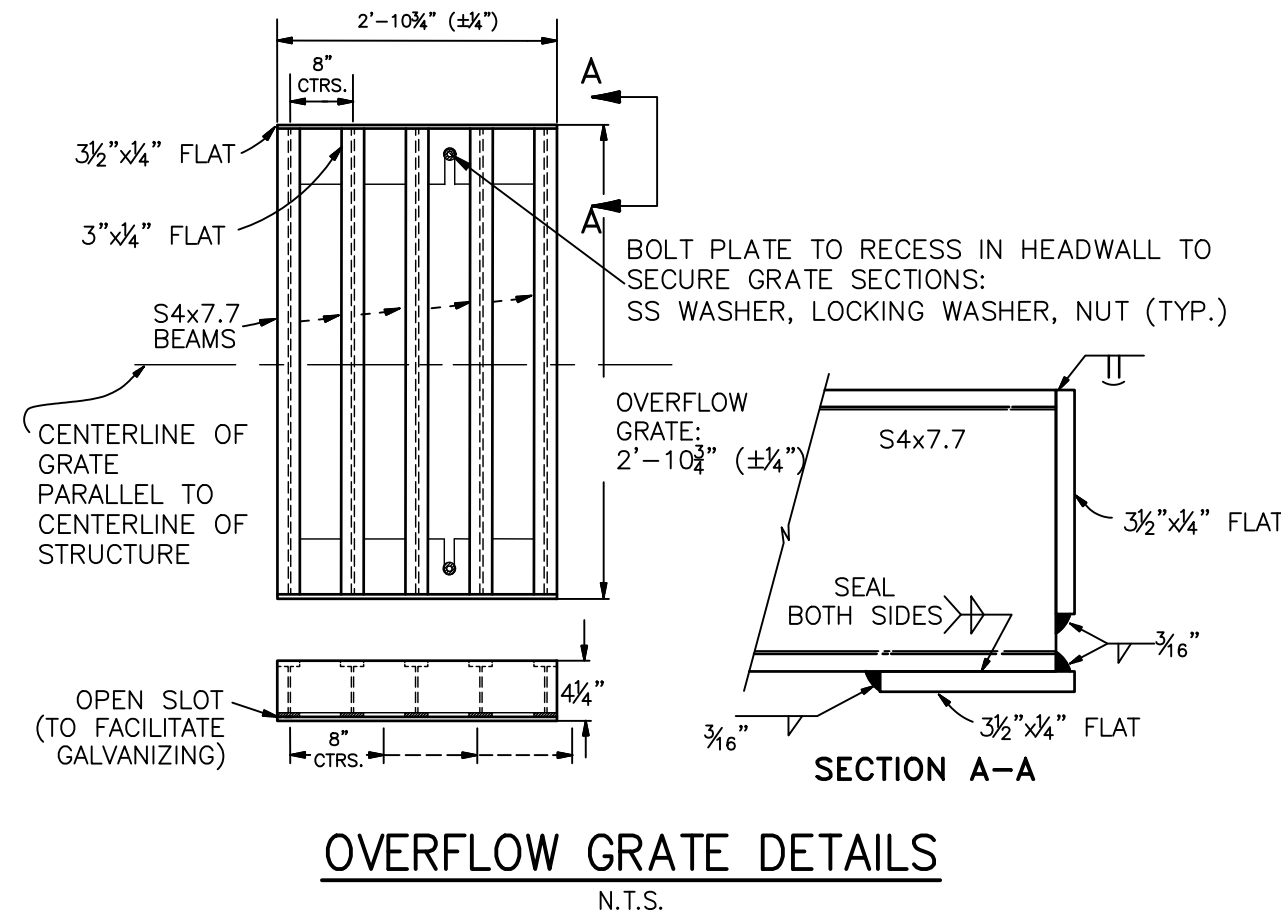
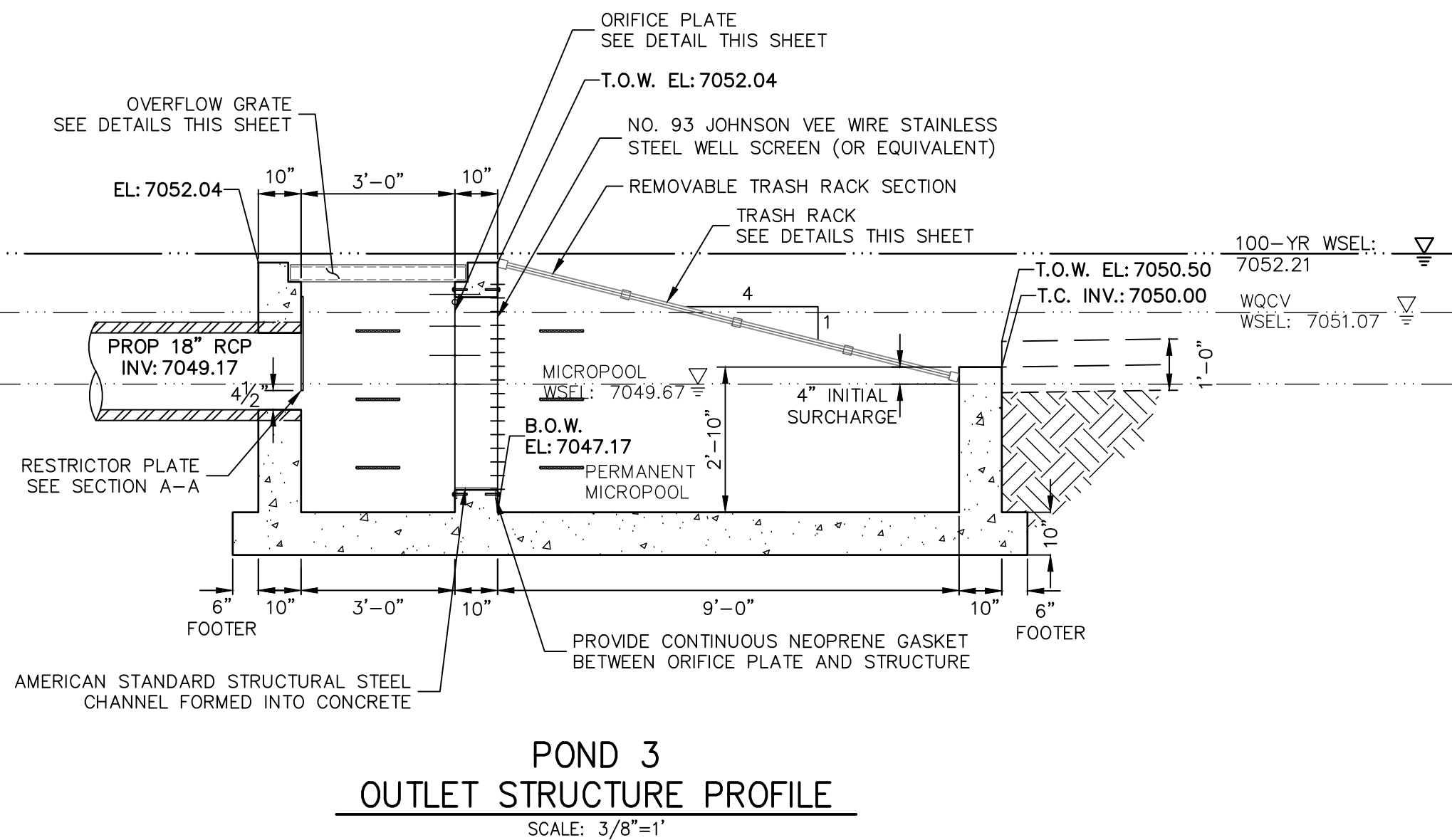
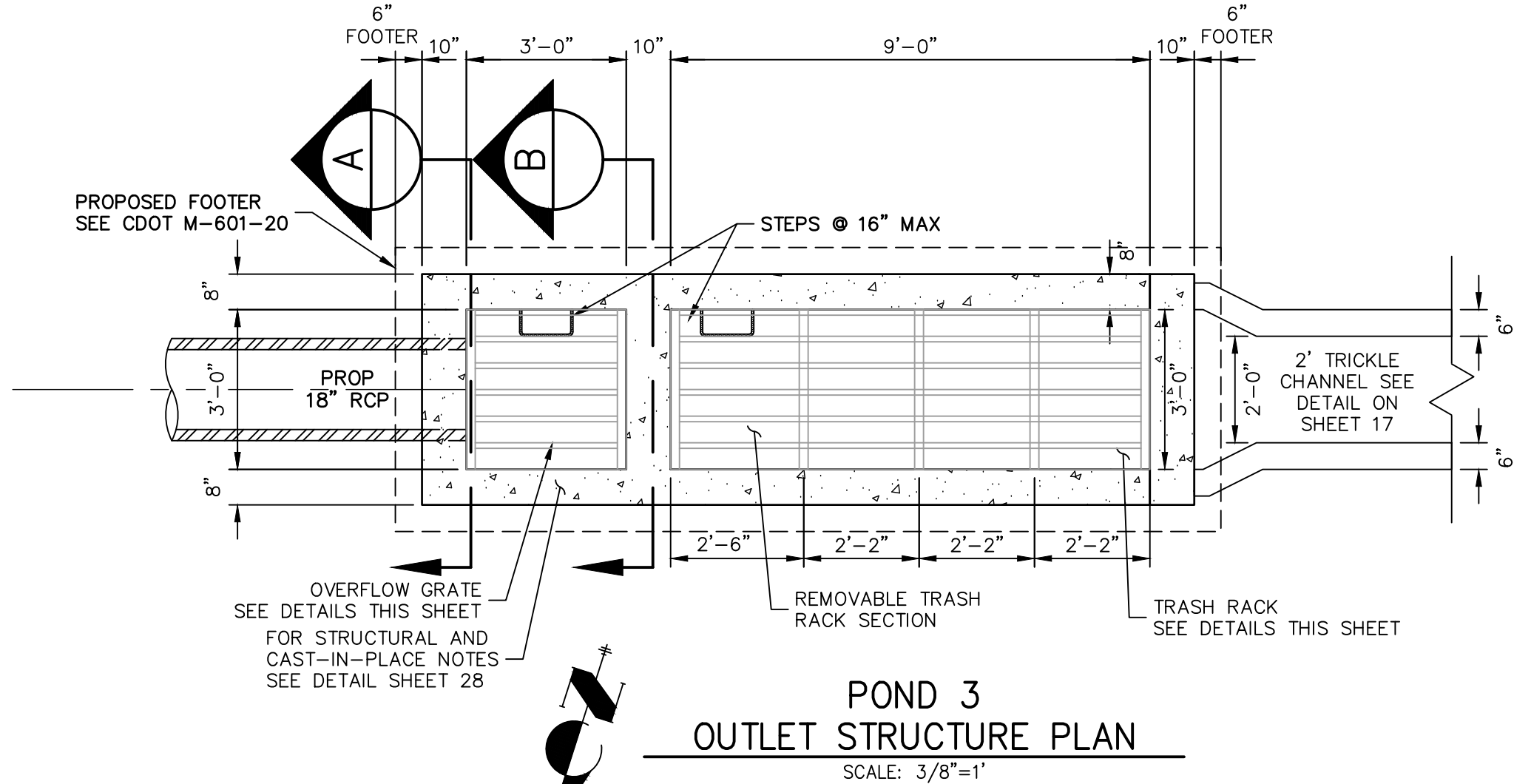
H-SCALE	V-SCALE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY
1"=20'	1"=2'	12/15/21	GVT	GVT	

CLOVERLEAF FILING 2

POND PLANS AND DETAILS

SHEET 18 OF 28

JOB NO. 25158.01



- POND 3 OUTLET STRUCTURE NOTES:**
- ORIFICE PLATE:**
1. PROVIDE CONTINUOUS NEOPRENE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE AND BETWEEN THE RESTRICTOR PLATE AND CONCRETE.
 2. BOLT PLATE TO CONCRETE 12" MAX. ON CENTER.
- TRASH RACKS:**
3. TRASH RACKS SHALL BE 1 1/2" SCH.40 STEEL PIPE, GALVANIZED, @ 6" CENTERS. SUPPORT BARS SHALL BE 1/2"x2" STEEL RECTANGULAR BARS, GALVANIZED, @ 36". ALL TRASH RACKS SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE.
 4. REMOVABLE TRASH RACK SECTIONS SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE AND PROVIDED WITH HINGED & LOCKABLE OR BOLTABLE ACCESS PANELS AS SHOWN ON THE PLANS.
 5. STEEL TRASH RACKS SHALL BE HOT DIP GALVANIZED AND MAY BE HOT POWDER COATED AFTER GALVANIZING.
 6. STRUCTURAL STEEL FOR GRATES, ORIFICE PLATES, AND BARS SHALL BE GALVANIZED AND SHALL BE IN ACCORDANCE WITH CDOT STANDARD SPECIFICATIONS, SUBSECTION 712.06.
 7. ALL HARDWARE, BOLTS, AND FASTENERS SHALL BE STAINLESS STEEL.
 8. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL PLATES AND GRATING FOR ENGINEER'S APPROVAL PRIOR TO CONSTRUCTION.



ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING

Mike A. Bramlett

MIKE A. BRAMLETT, P.E.
COLORADO P.E. 32314

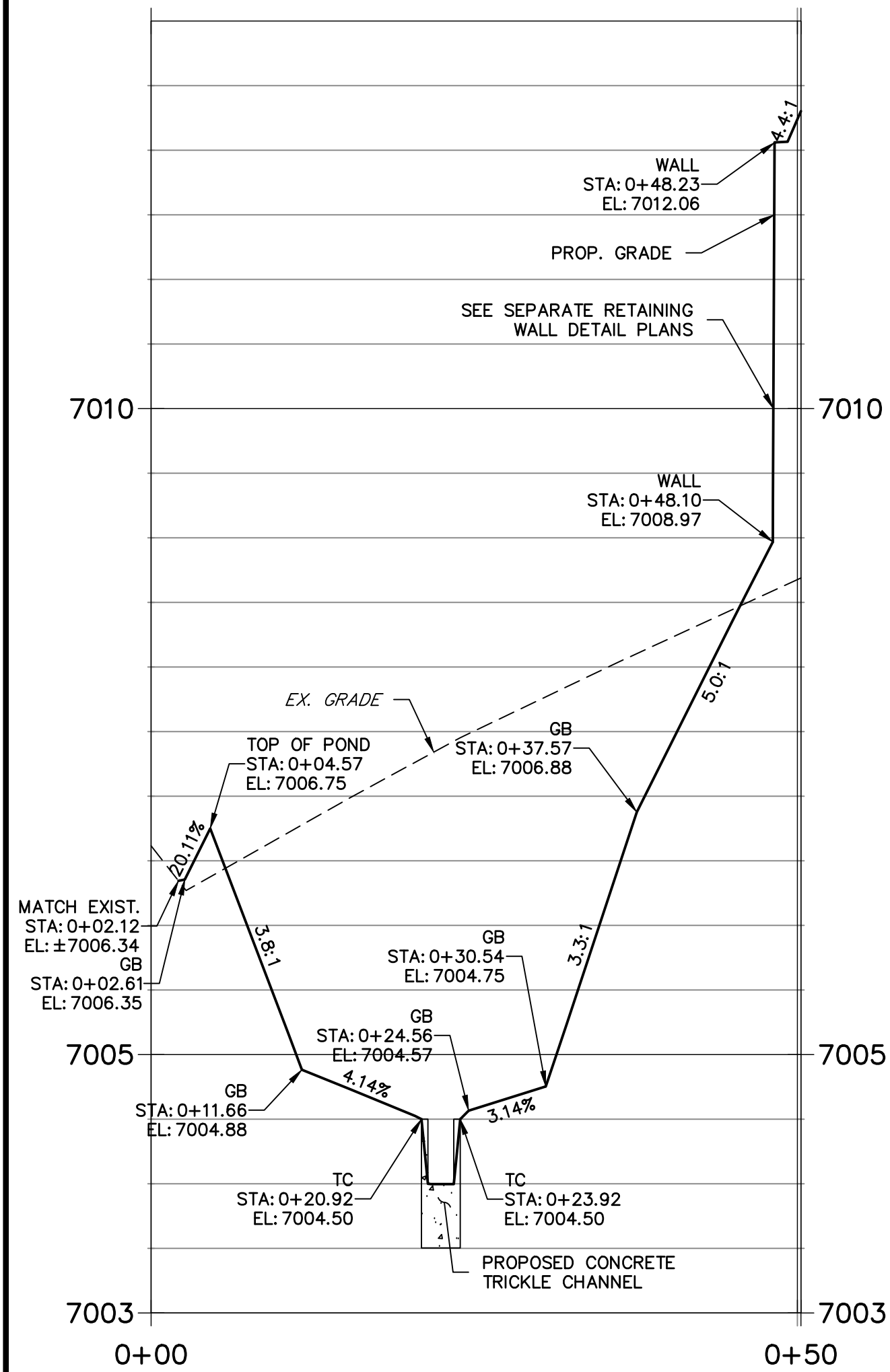
FOR AND ON BEHALF OF JR ENGINEERING, LLC

DATE: 12/15/21

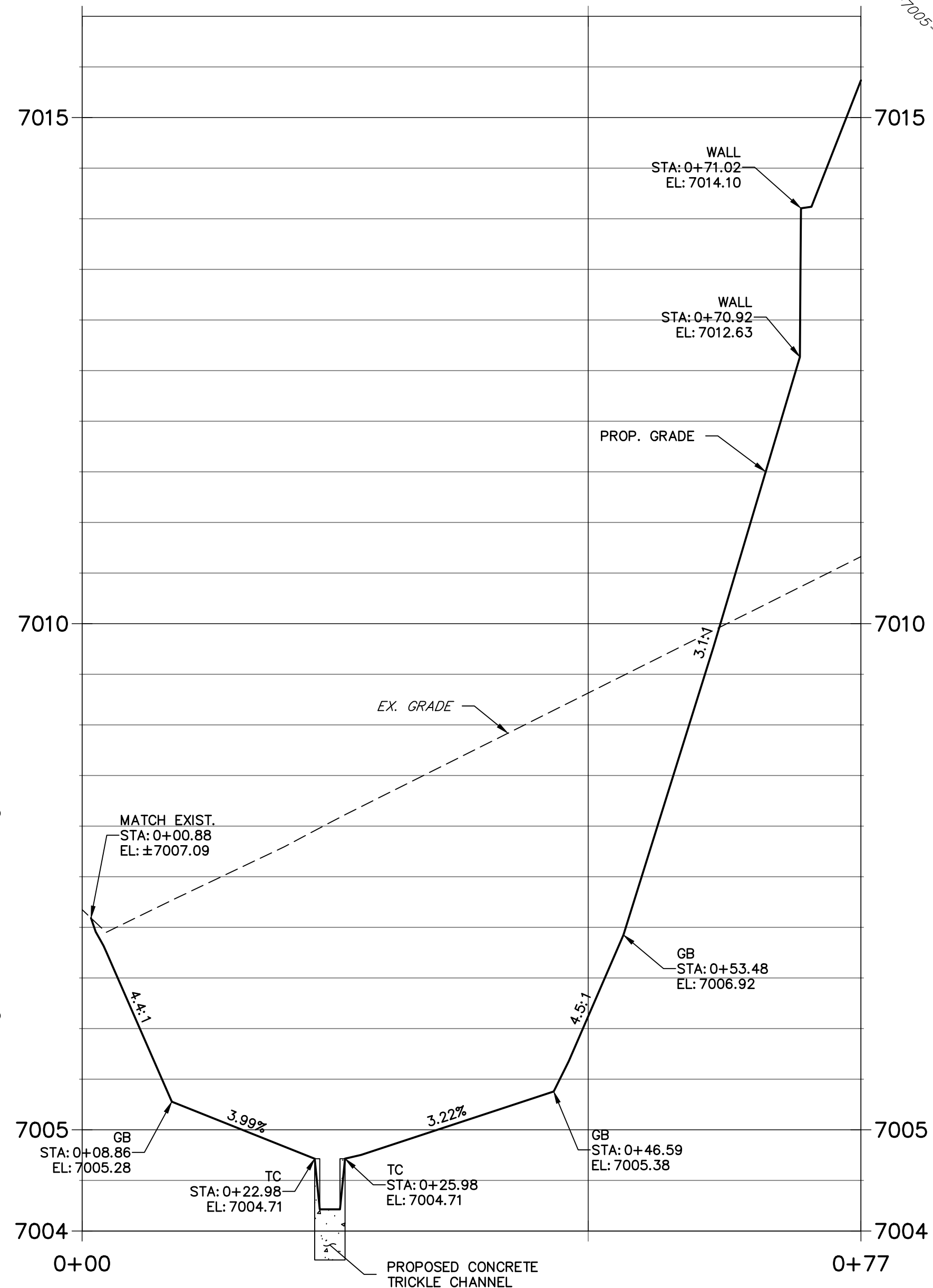
CLOVERLEAF FILING 2	SHEET 19 OF 28		JOB NO. 25158.01	
	DESIGNED BY GAG		DRAWN BY GAG	
	CHECKED BY		DATE 12/15/21	
	H-SCALE 3/8"=1"		V-SCALE 3/8"=1"	
	NO.		REVISION	
	BY		DATE	
POND PLANS AND DETAILS				
				
J.R. ENGINEERING A Western Company				
Central 303-740-9383 • Colorado Springs 719-583-2583 Fort Collins 970-491-9888 • www.jrengineering.com				

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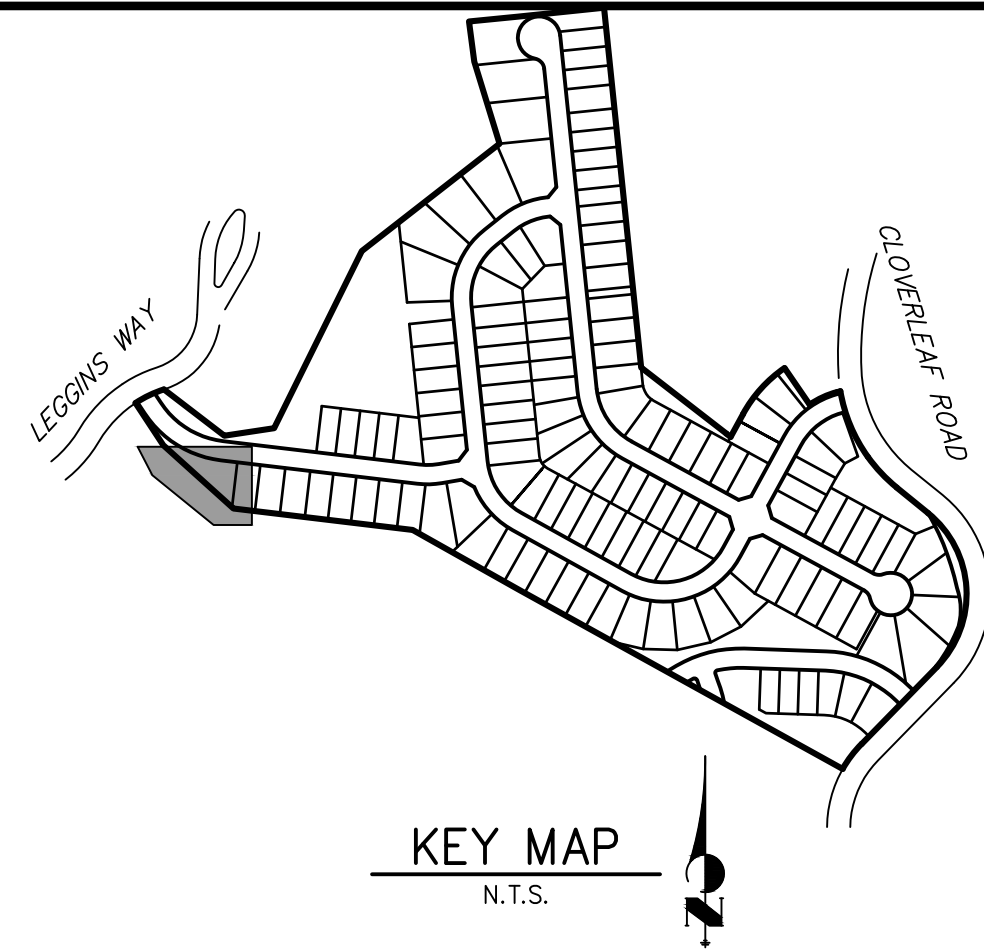
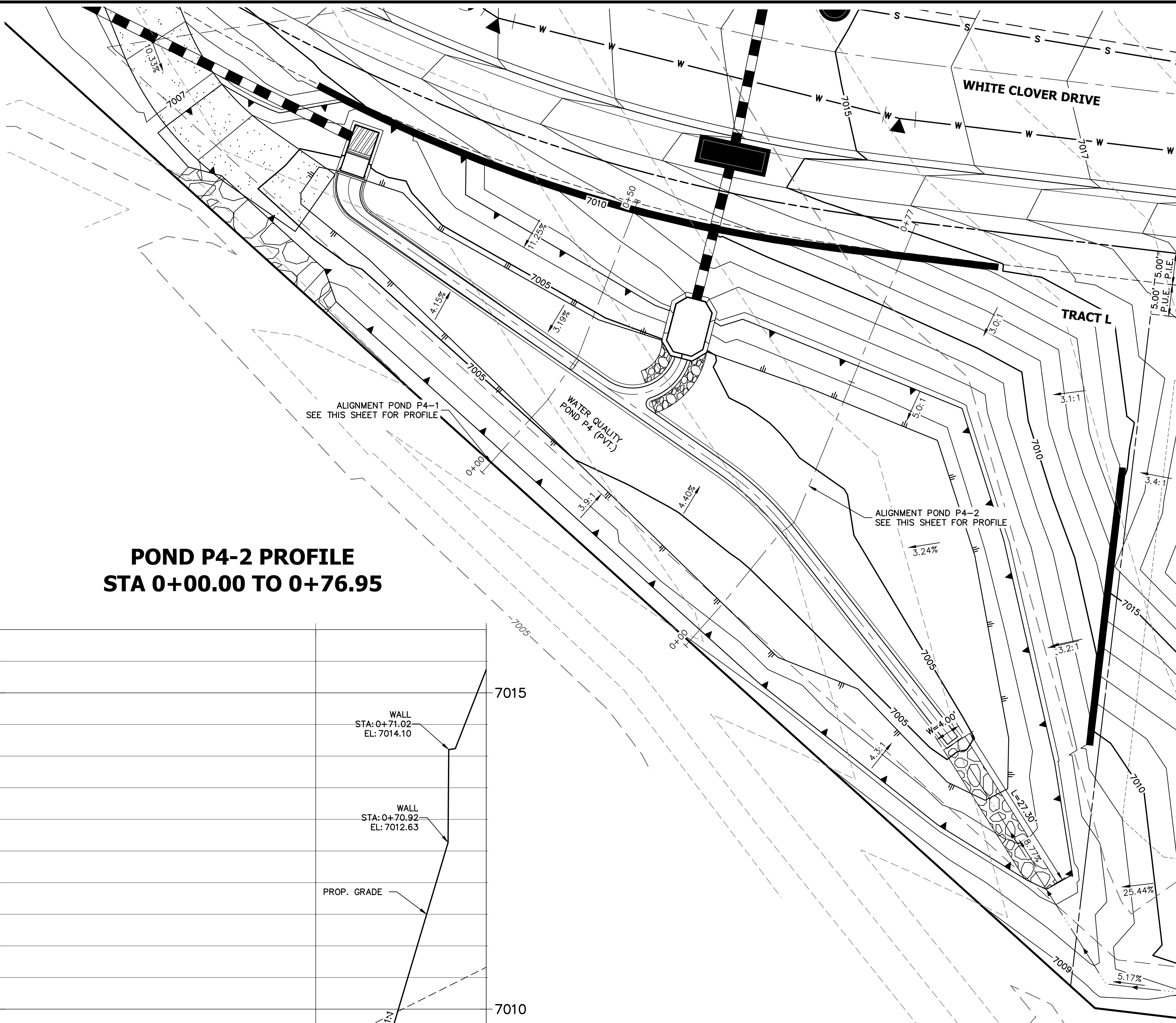
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STA 0+00.00 TO 0+50.27**



**POND P4-2 PROFILE
STA 0+00.00 TO 0+76.95**



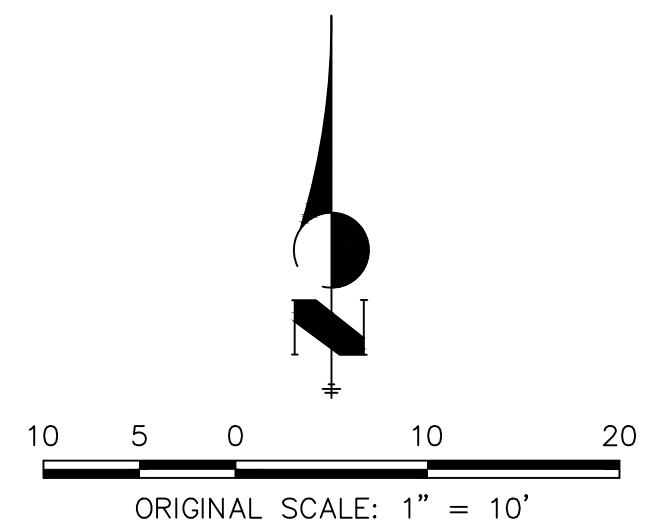
POND 4- PLAN



NOTES

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PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING

Mike A. Bramlett
MIKE A. BRAMLETT, P.E.
COLORADO P.E. 32314

FOR AND ON BEHALF OF JR ENGINEERING, LLC
DATE 12/15/21

CLOVERLEAF FILING 2

POND PLANS AND DETAILS

SHEET 21 OF 28

JOB NO. 25158.01

PREPARED FOR

MONUMENT HILL CM LLC

1864 WOODMOOR DR, STE 100
COLORADO SPRINGS, CO 80920

ATTN: JOE DESJARDIN

(719) 476-0800

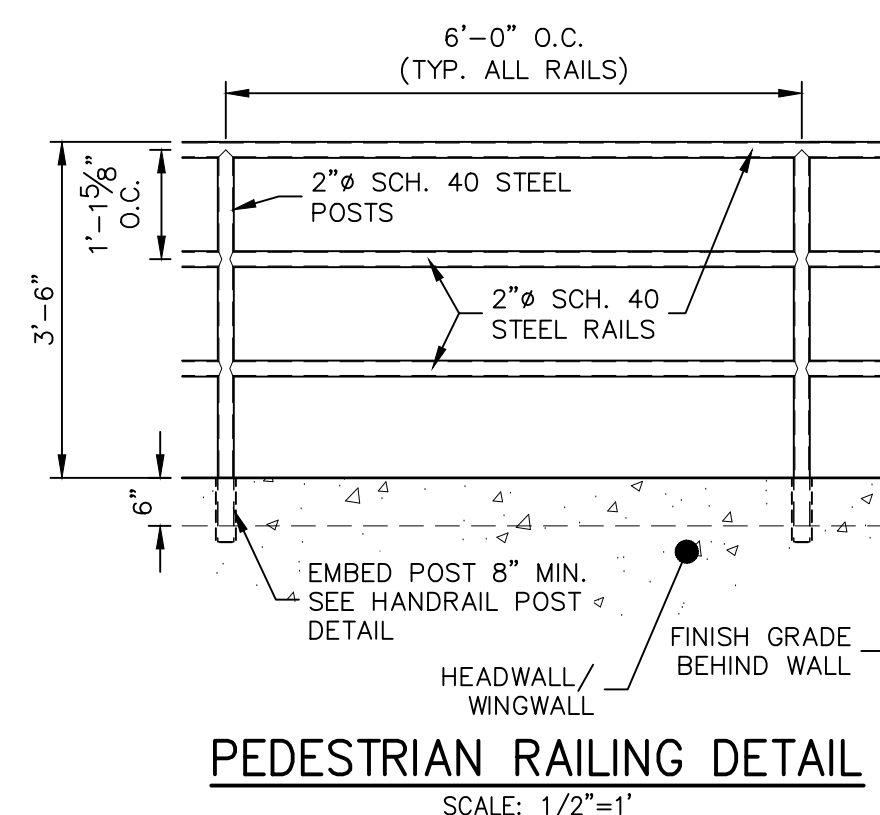
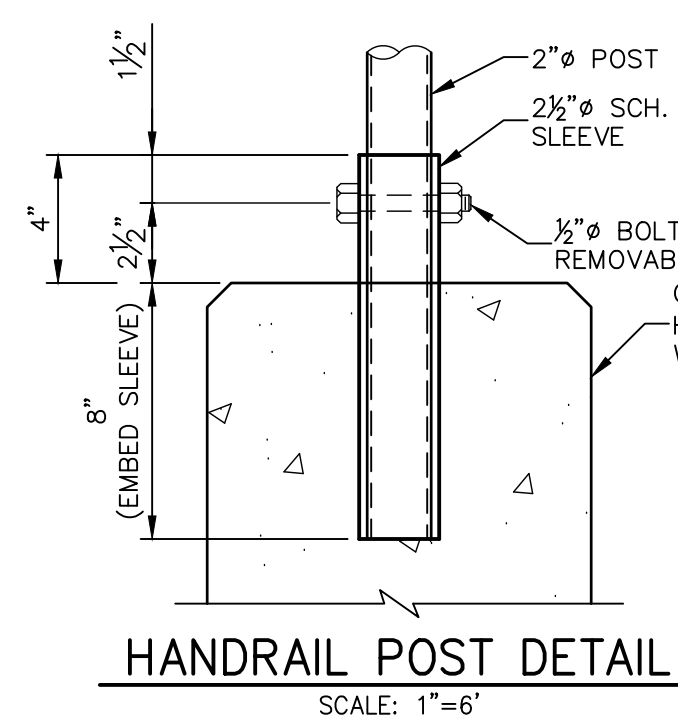
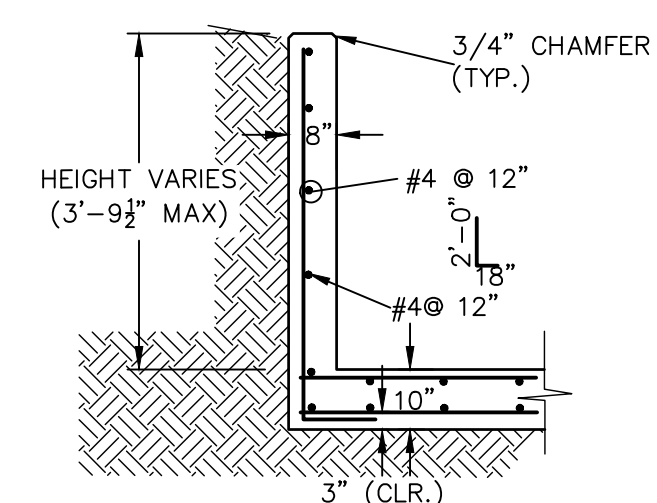
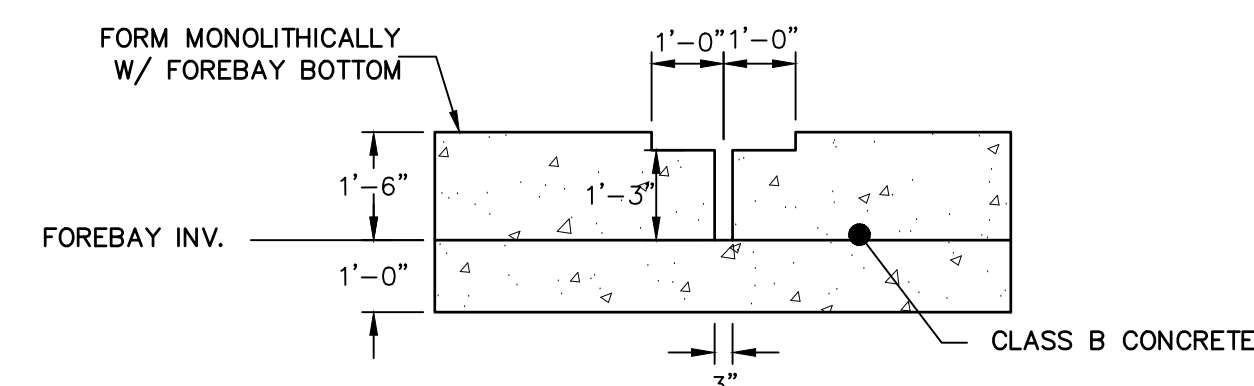
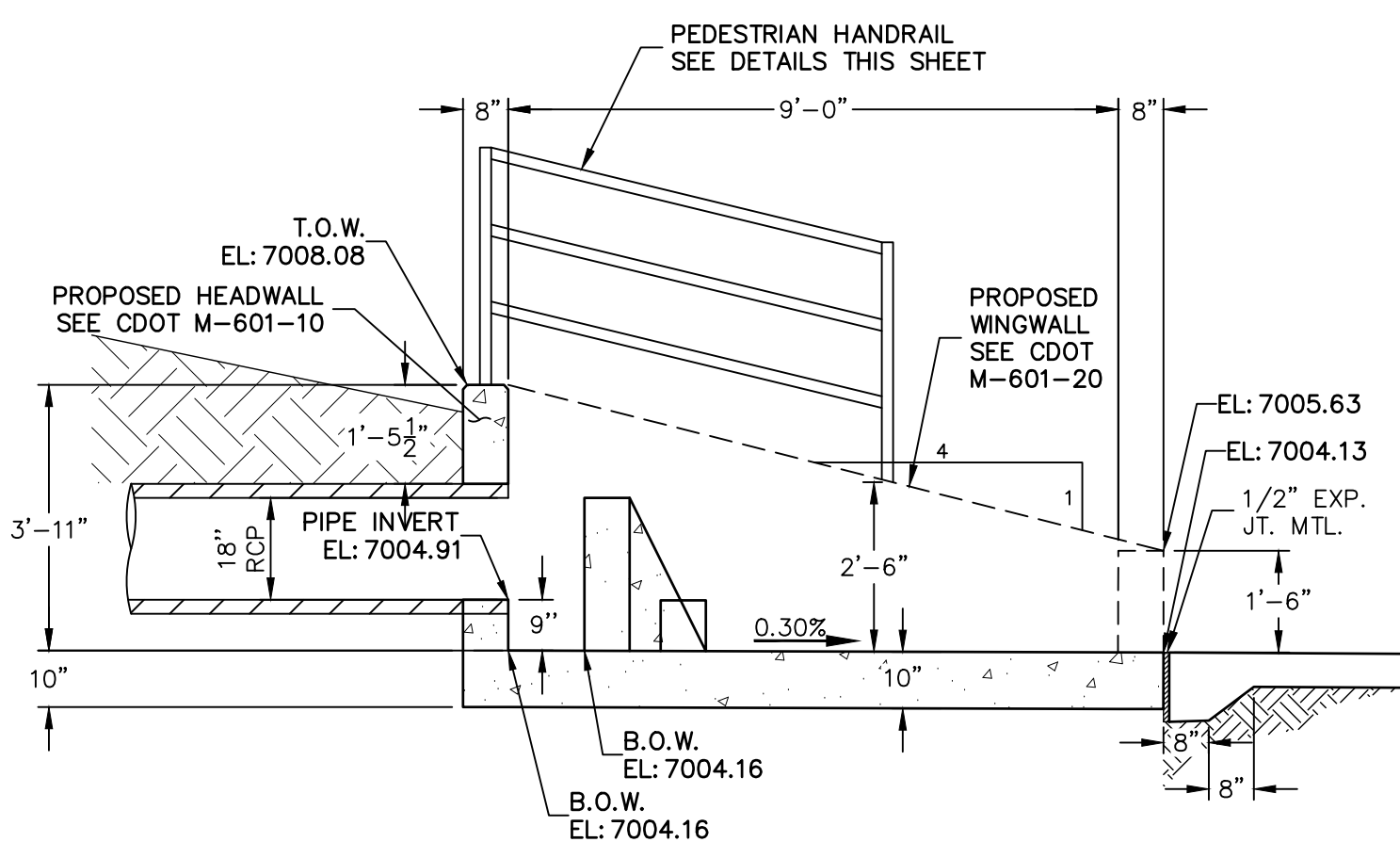
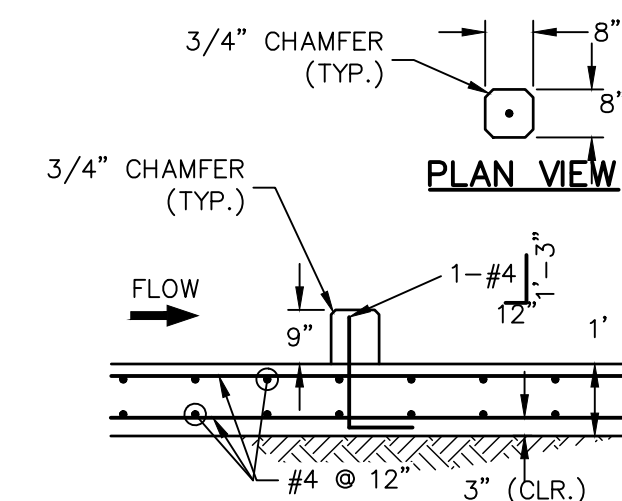
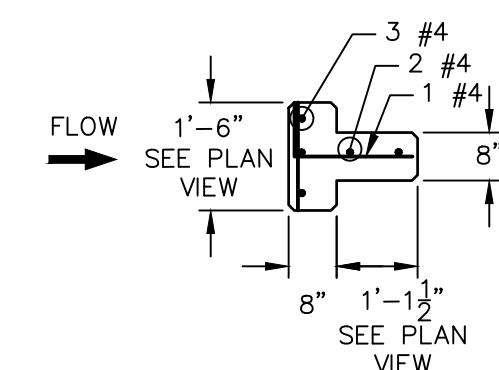
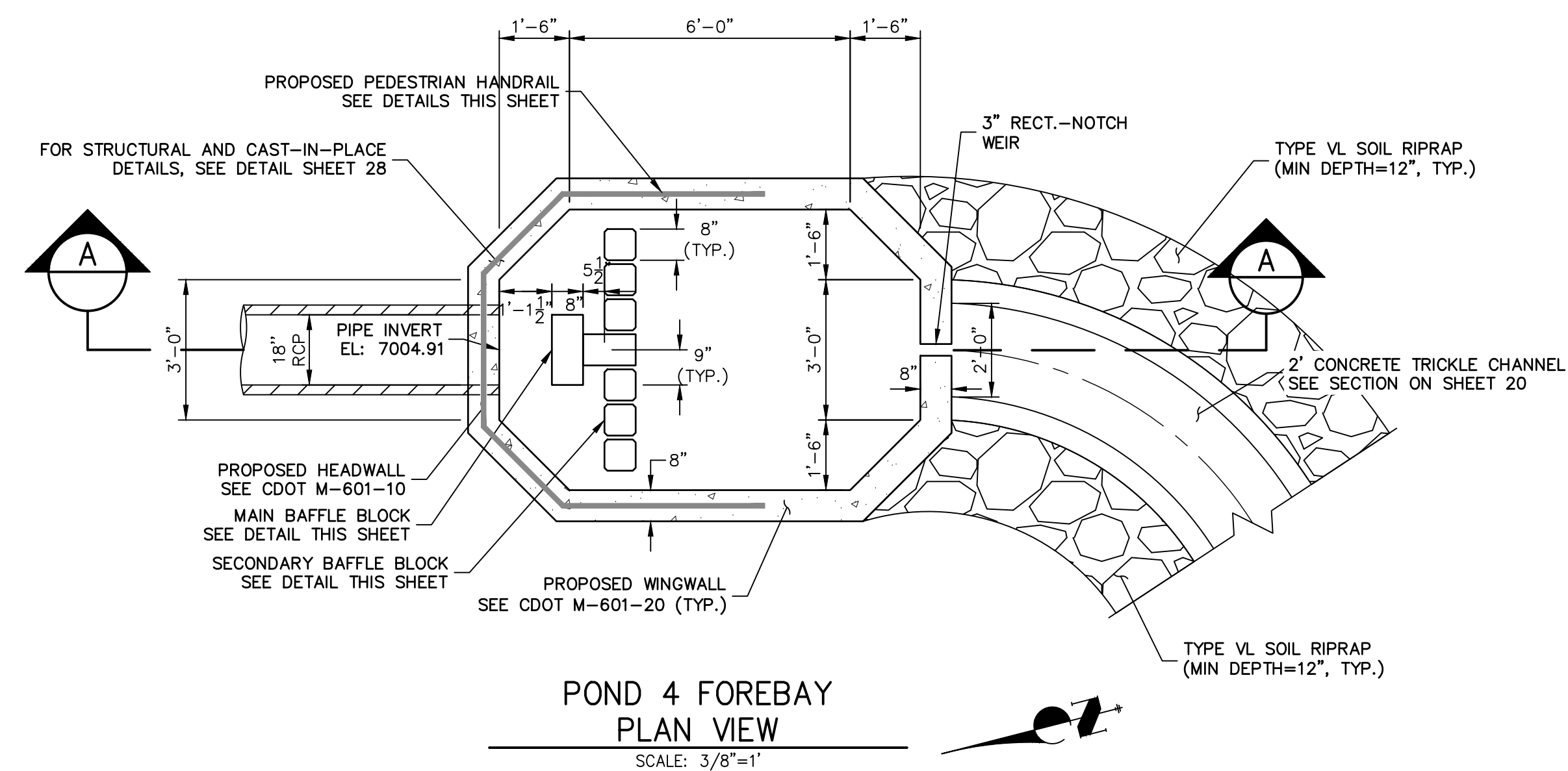
JDESJARDIN@PROTERRACO.COM

J.R. ENGINEERING
A Western Company



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Fort Collins 970-491-9888 • www.jrengineering.com

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AGENCIES, OR ENGINEERING
FIRM, THEIR USE IS
DESIGNATED BY WRITTEN
AUTHORIZATION.



Know what's **below**.
Call before you dig.

ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR
ENGINEERING

Mit Bräutigam

MIKE A. BRAMLETT, P.E.

MILK A. BRAMLETT, P.E.
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING

MENT
ERVISION AND ON BEHALF OF JR
32314
DATE
EERING, LLC

CLOVERLEAF FILING 2

POND PLANS AND DETAILS

SHEET 22 OF 28

JOB NO. 25158.01

PREPARED FOR

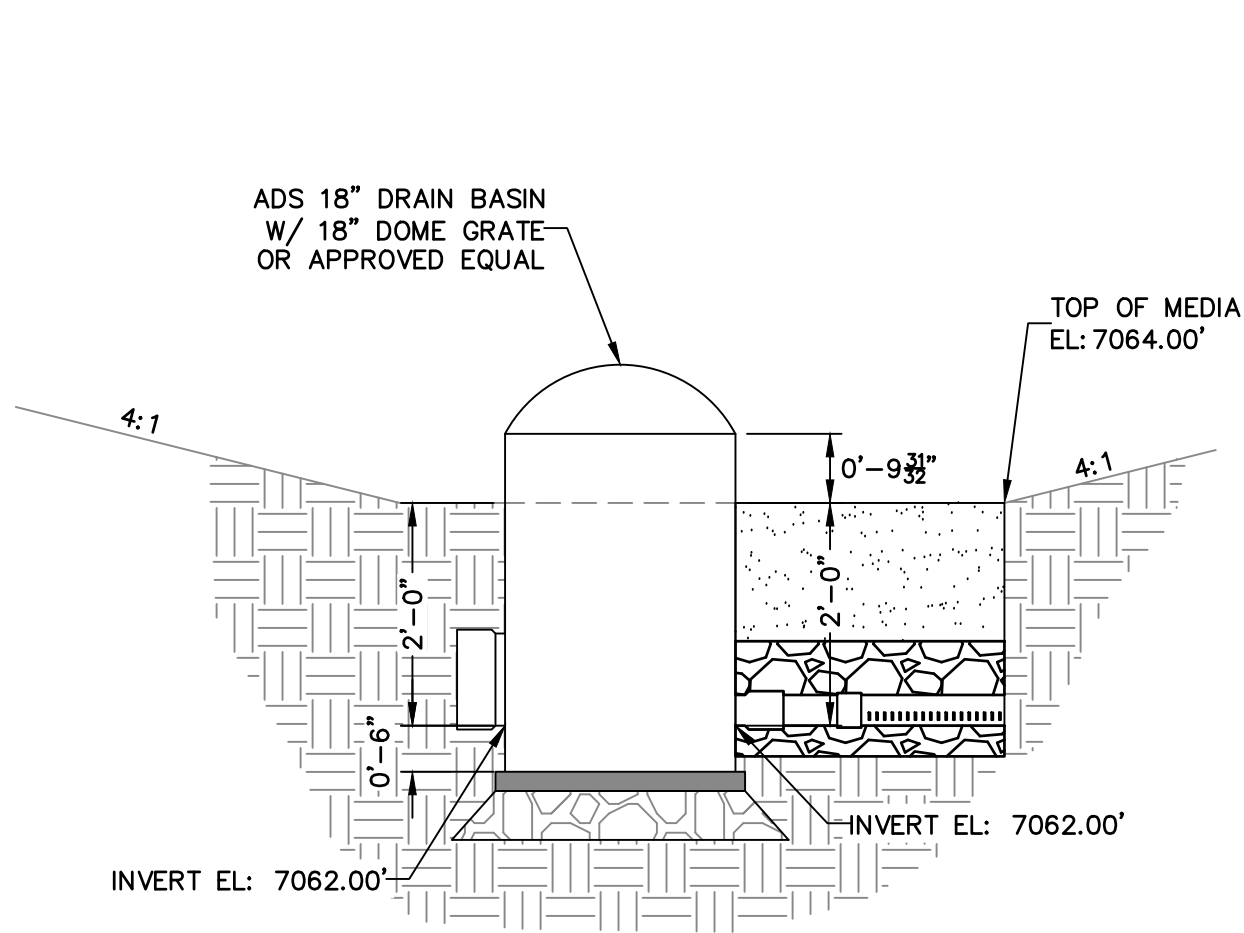
MONUMENT HILL CM LLC
1864 WOODMOOR DR, STE 100
COLORADO SPRINGS, CO 80920
ATTN: JOE DESJARDIN
(719) 476-0800
JDESJARDIN@PROTERRACO.COM

J·R ENGINEERING
A Westrian Company

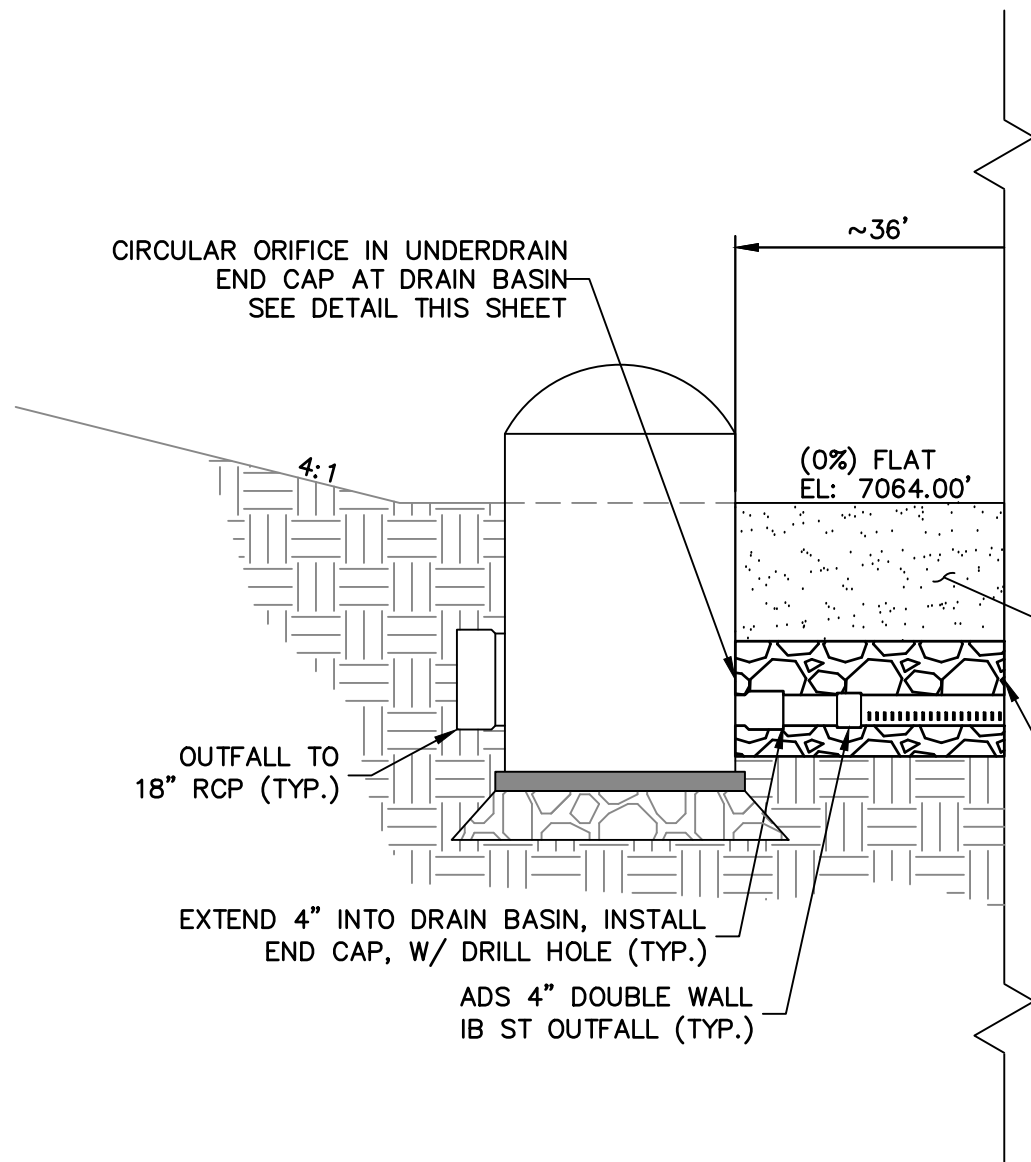


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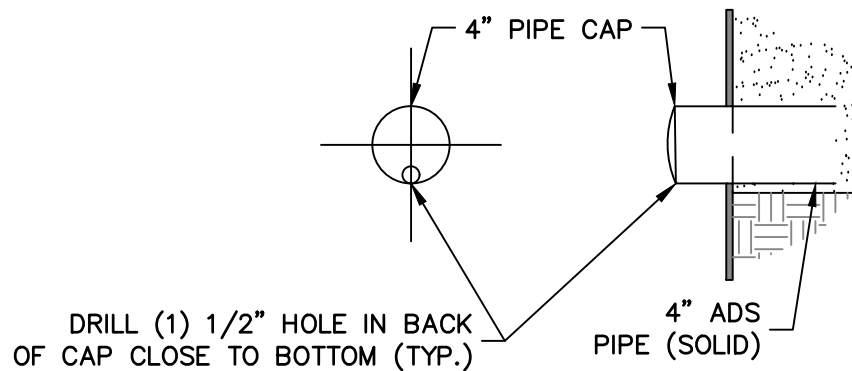


DRAIN BASIN
OUTLET FRONT DETAIL
SCALE: N.T.S.

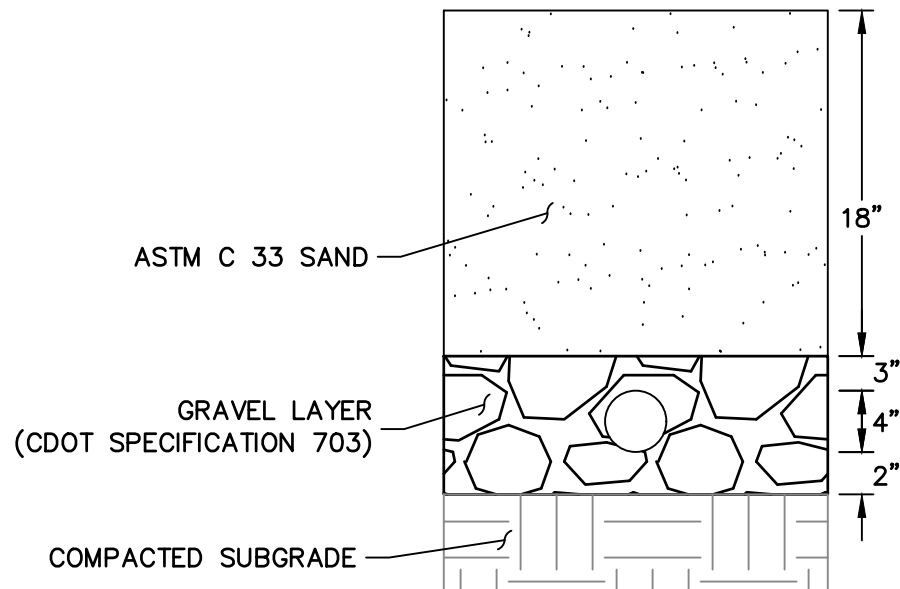


SAND FILTER
LONGITUDINAL CROSS
SECTION DETAILS
SCALE: N.T.S.

NOTE: SEE URBAN DRAINAGE VOLUME 3 FACT SHEETS T-6
FOR FURTHER DETAILS AND SPECIFICATIONS.



SAND FILTER UNDERDRAIN
END CAP DETAIL
SCALE: N.T.S.



SAND FILTER
SUB-SURFACE
TYP. SECTION
SCALE: N.T.S.

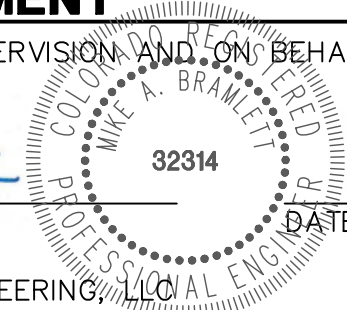


ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR
ENGINEERING

Mike Bramlett
MIKE A. BRAMLETT, P.E.
COLORADO P.E. 32314

FOR AND ON BEHALF OF JR ENGINEERING, LLC



CLOVERLEAF FILING 2

POND PLANS AND DETAILS

SHEET 25 OF 28

JOB NO. 25158.01

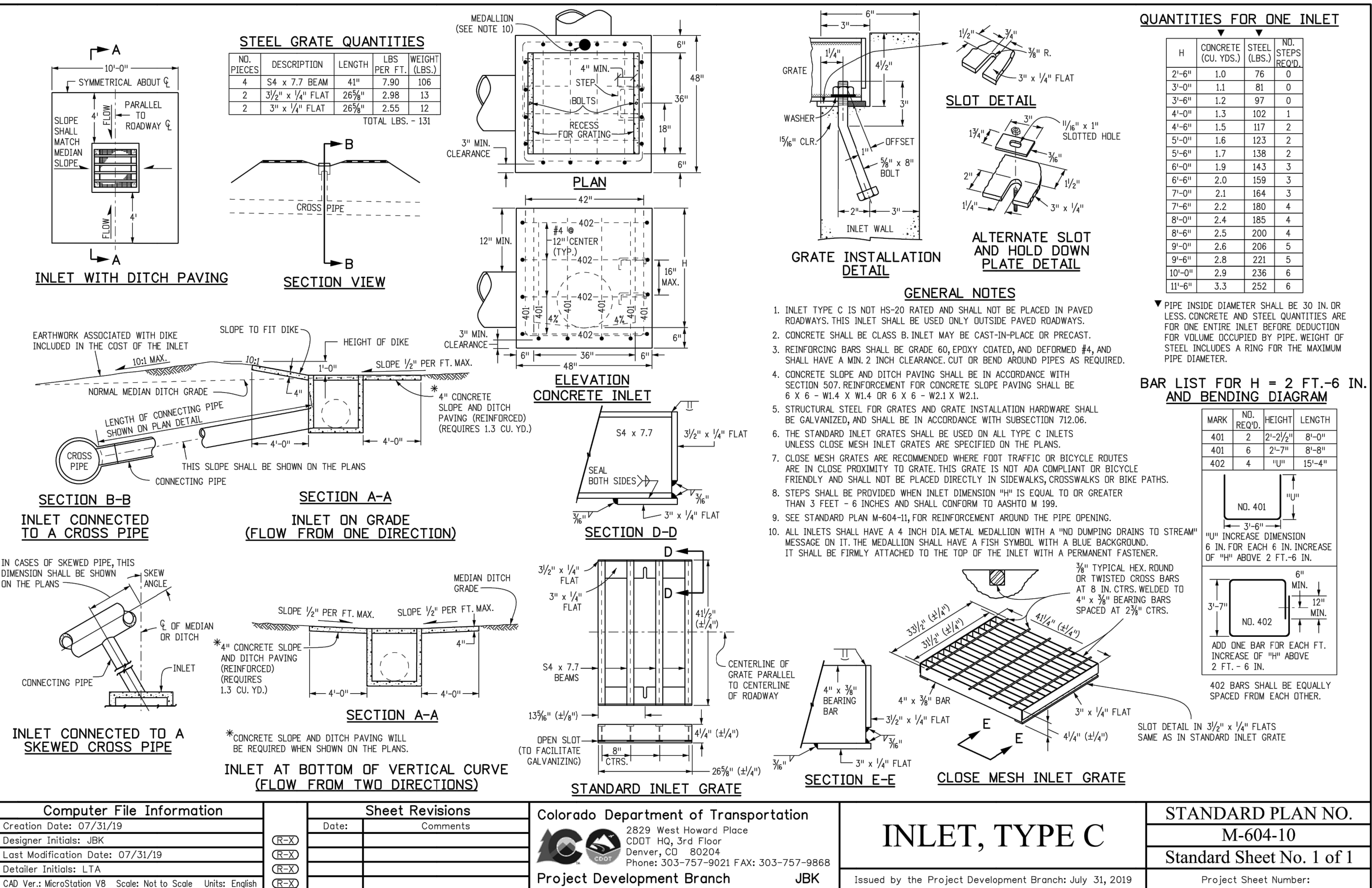
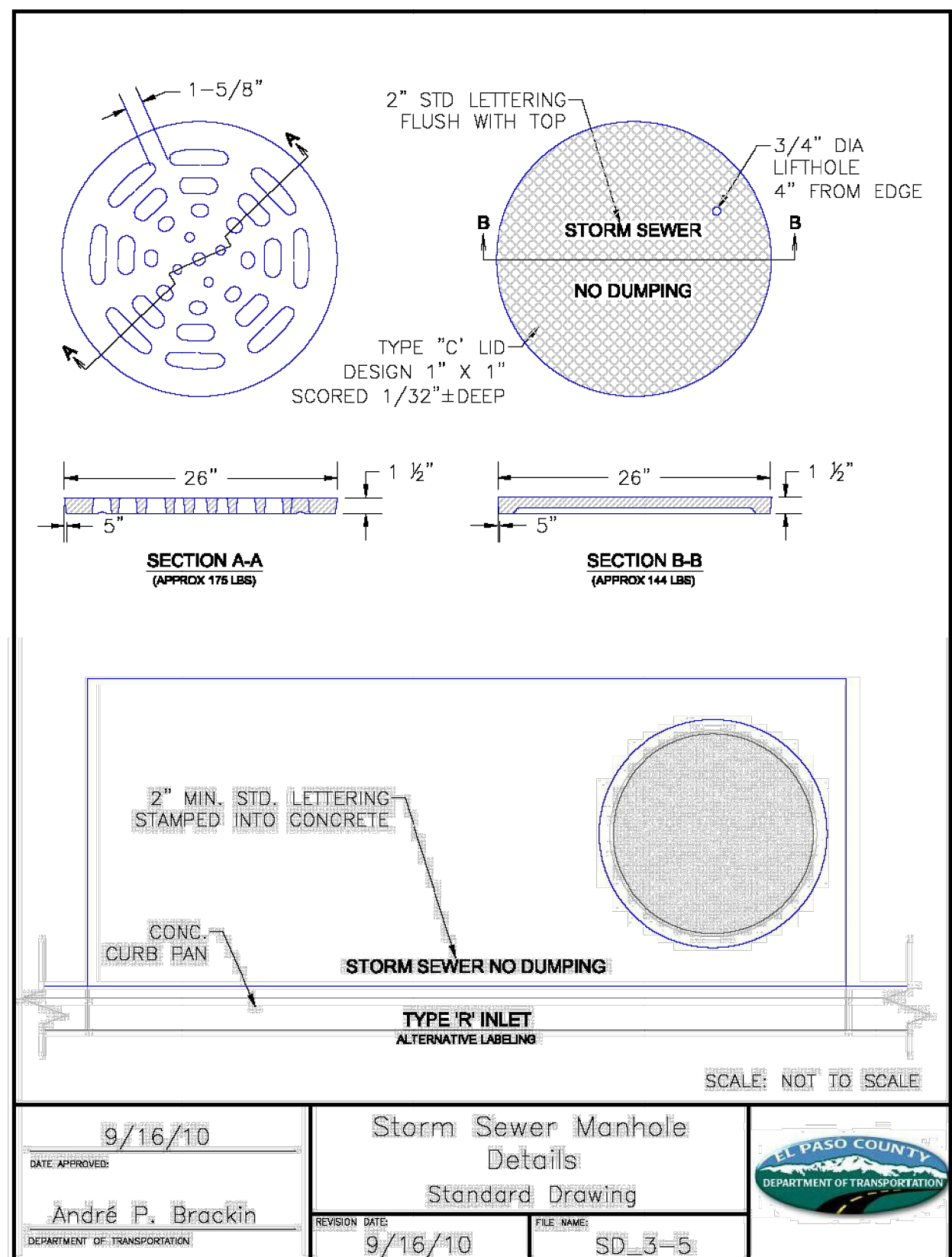
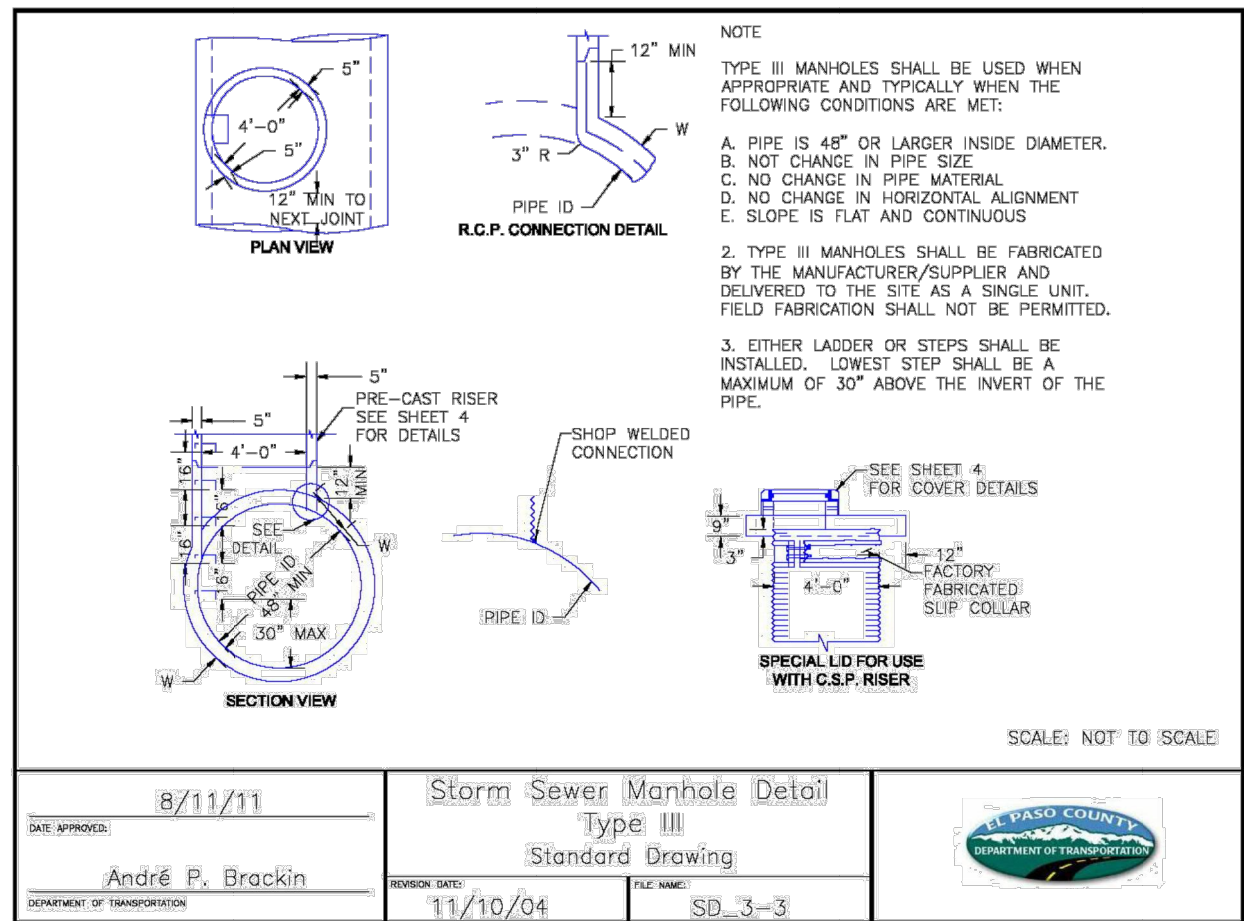
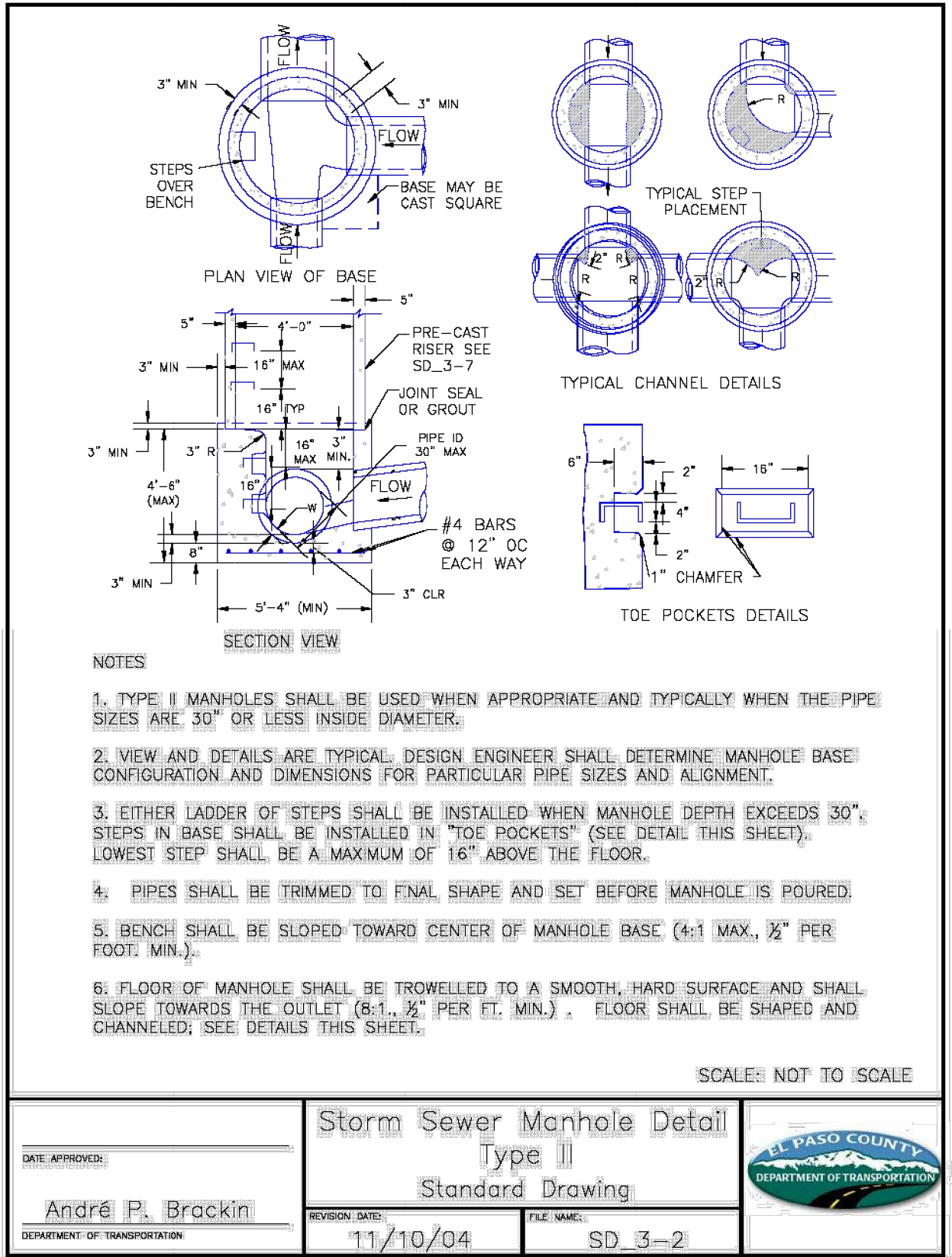
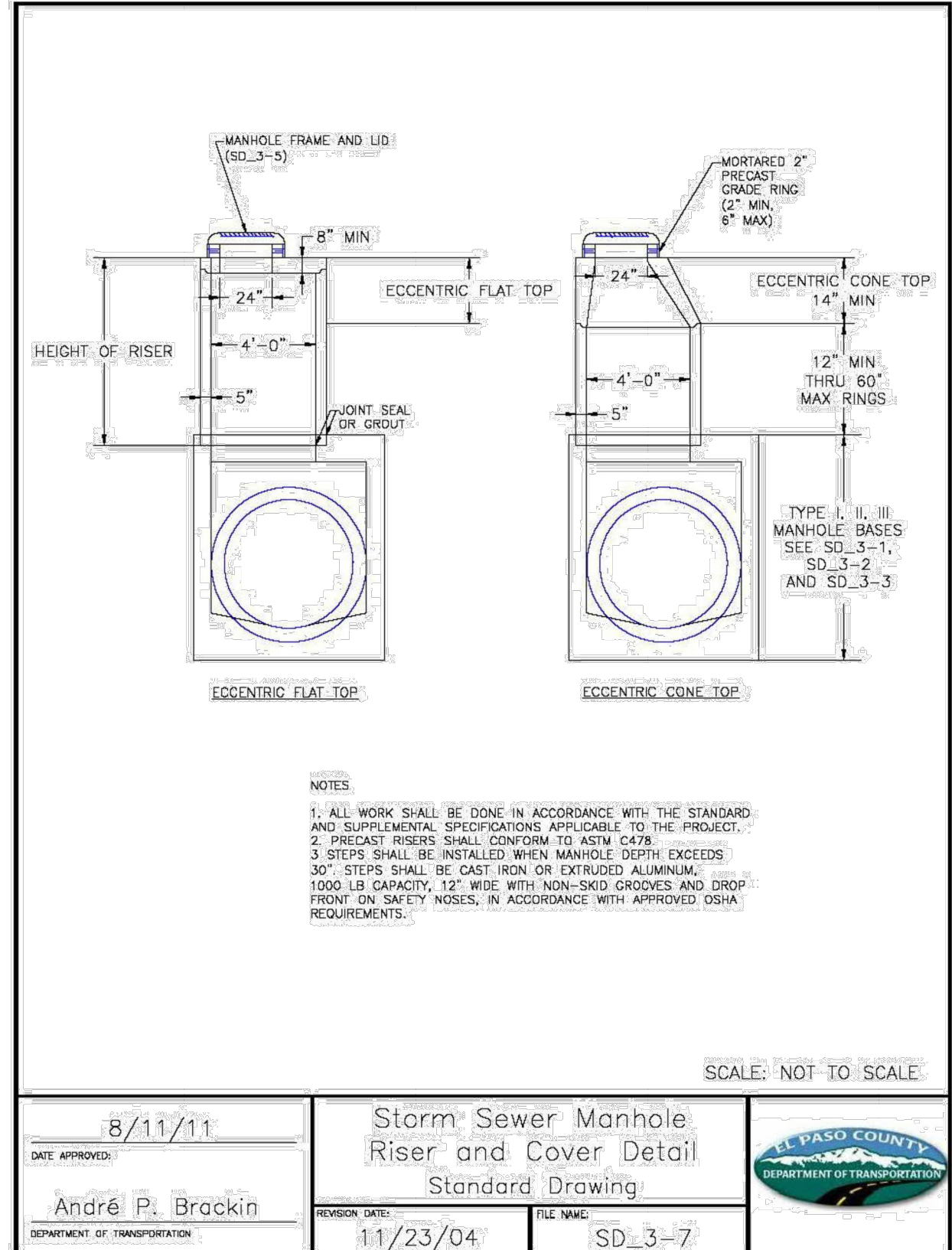
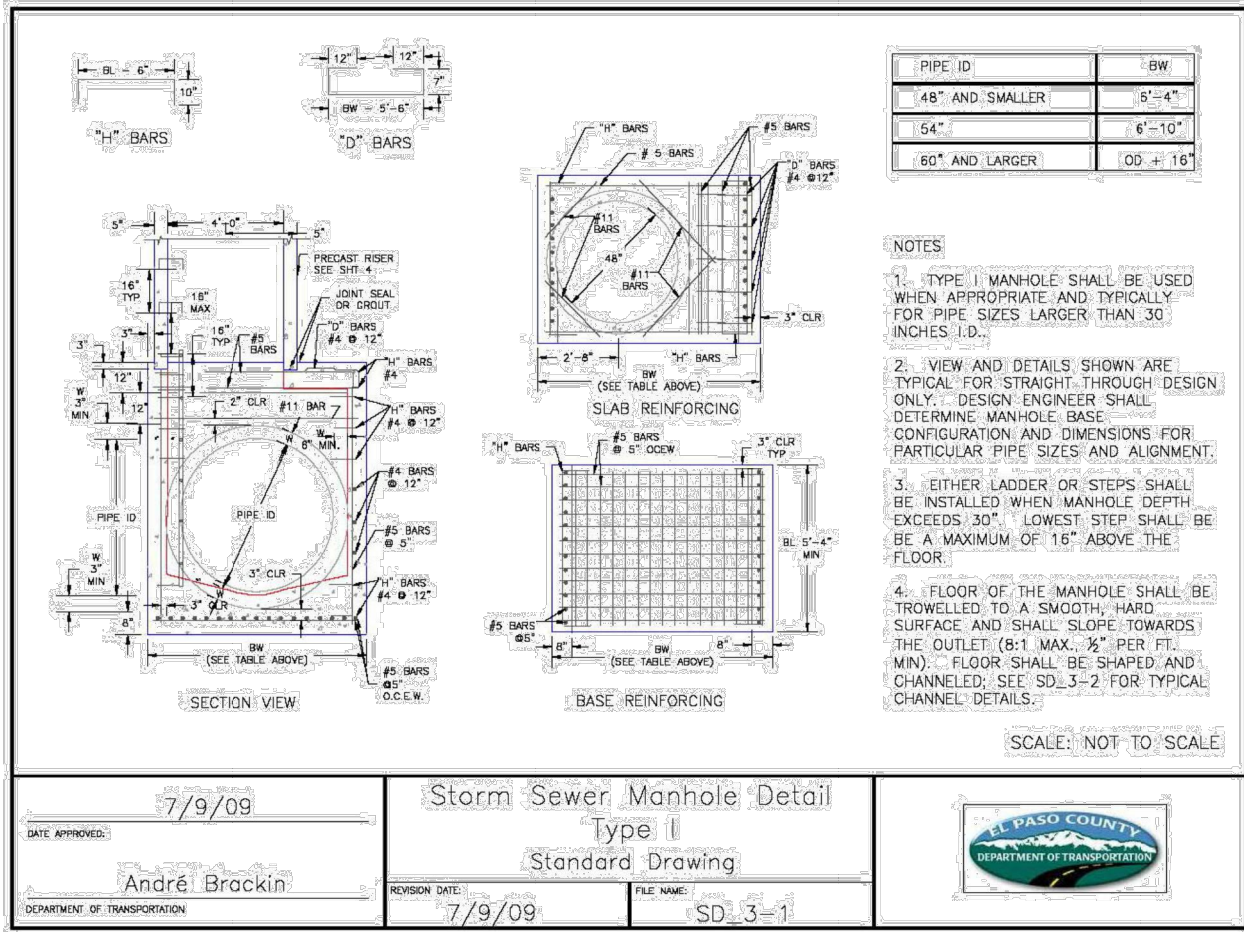
BY	DATE	REVISION	No.	N.T.S.	H-SCALE	V-SCALE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY
				N.T.S.			12/15/21	GAG		
								GAG		



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COLORADO SPRINGS, CO 80920
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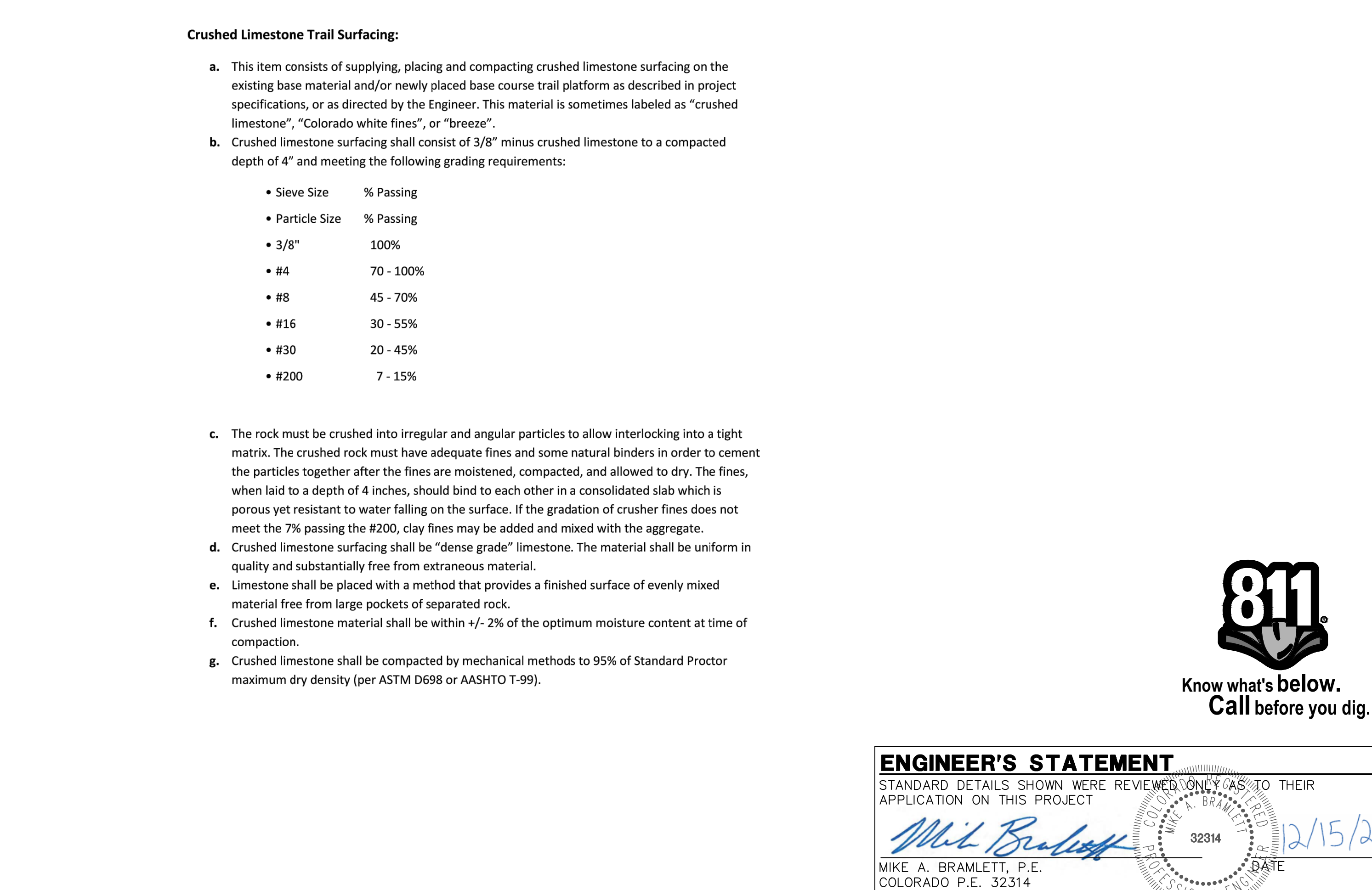
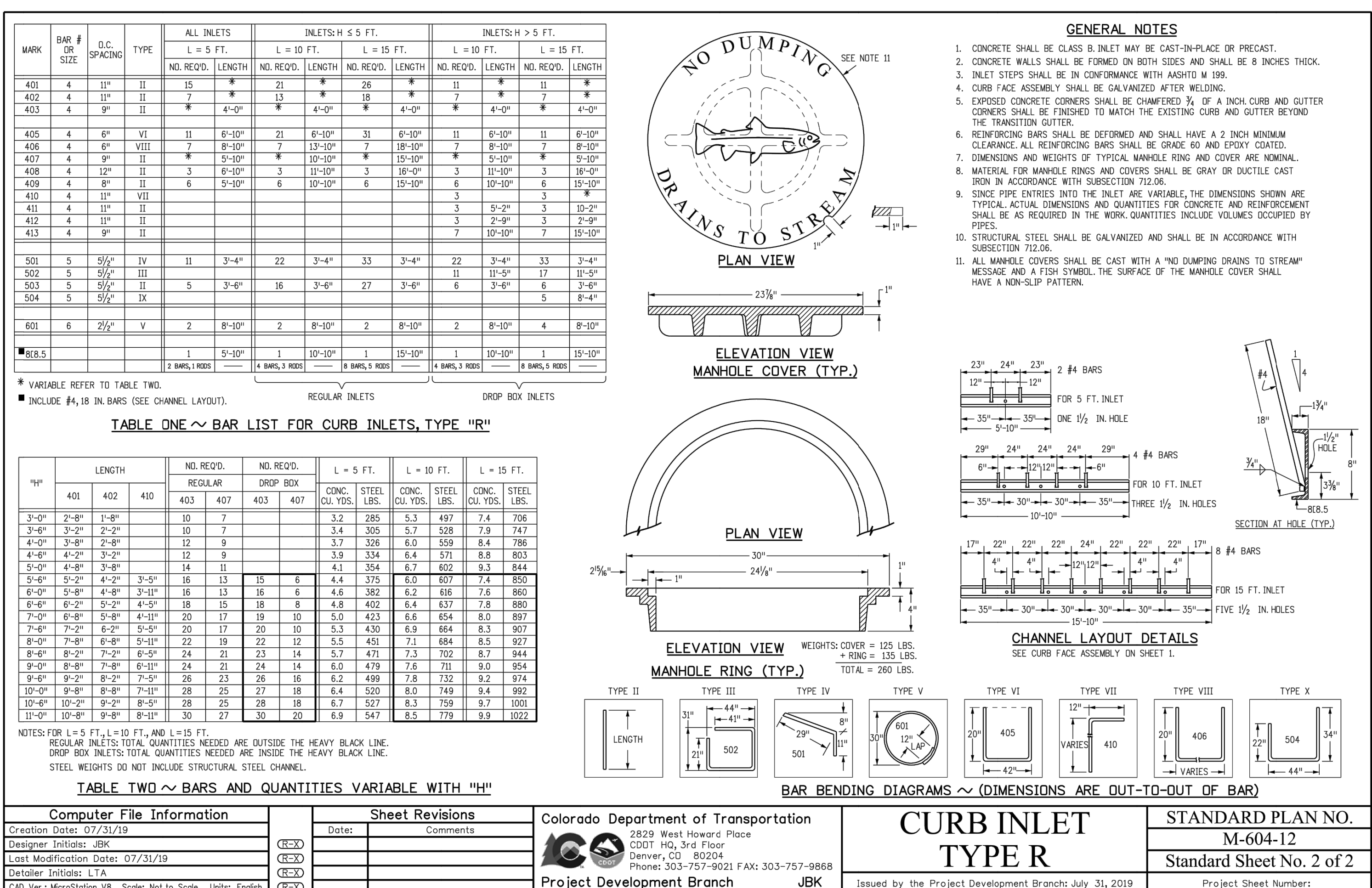
ENGINEER'S STATEMENT

STANDARD DETAILS SHOWN WERE REVIEWED ONLY AS TO THEIR APPLICATION ON THIS PROJECT

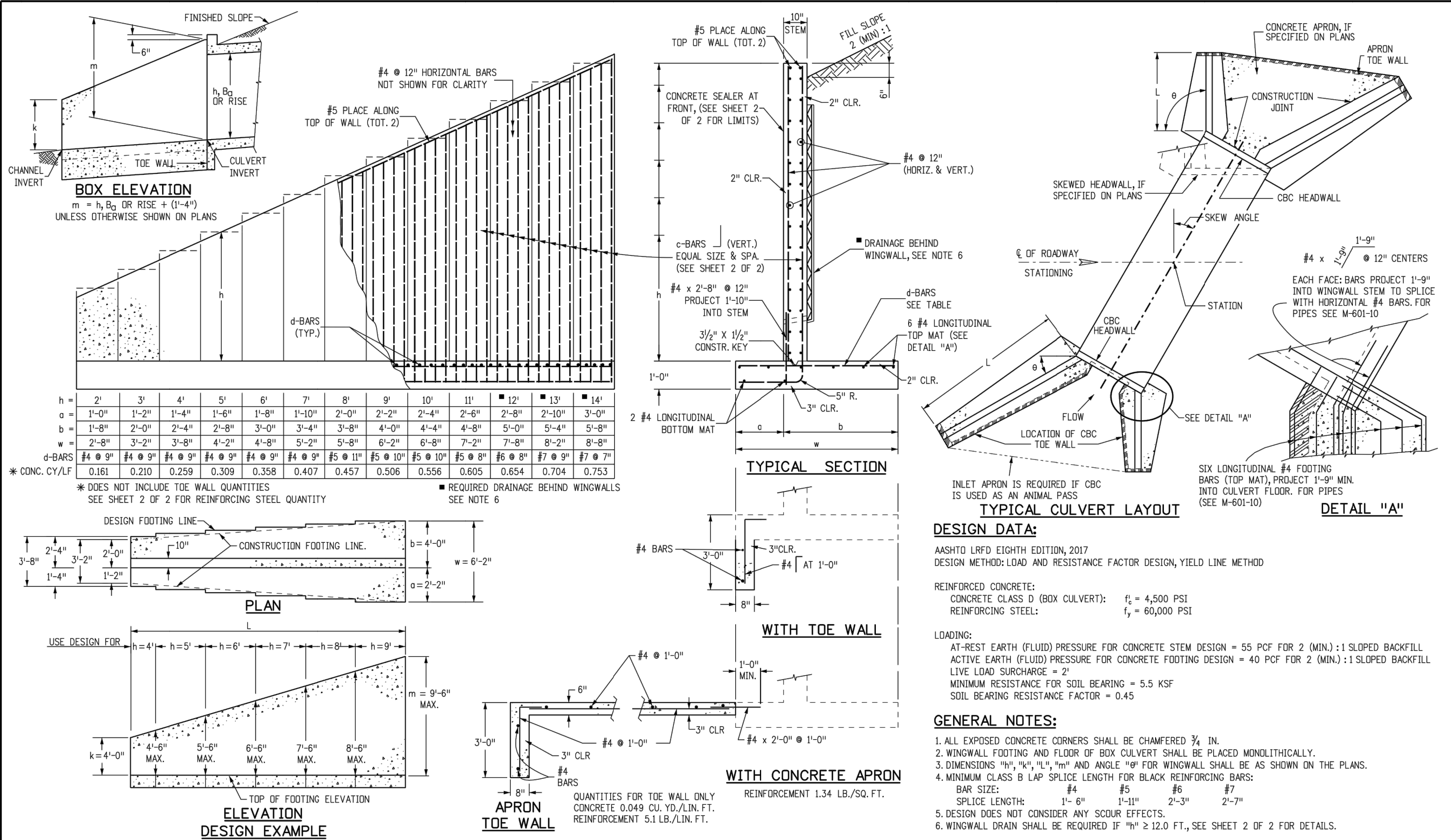
Mike A. Bramlett, P.E.

COLORADO P.E. 32314

FOR AND ON BEHALF OF JR ENGINEERING, LLC



SHEET	27	OF	28																																				
CLOVERLEAF FILING 2																																							
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DETAIL SHEET																																							



Computer File Information				Sheet Revisions				Colorado Department of Transportation				STANDARD PLAN NO.			
Creation Date: 07/31/19				Date:				2829 West Howard Place				M-601-20			
Designer Initials: JBK								CDOT HQ, 3rd Floor							
Last Modification Date: 07/31/19								Denver, CO 80204							
Detailer Initials: LTA								Phone: 303-757-9021 FAX: 303-757-9868							
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English								Project Development Branch							
								JBK							

GENERAL STRUCTURE NOTES:

ALL WORK SHALL BE DONE IN ACCORDANCE WITH CITY OR COUNTY STANDARD CONSTRUCTION SPECIFICATIONS. EXCEPT AS SHOWN IN THE PLANS, STRUCTURE EXCAVATION AND BACKFILL SHALL BE IN ACCORDANCE WITH CDOT M-206-1, AND M-206-2 EXPANSION JOINT MATERIAL SHALL MEET AASHTO SPECIFICATION M-213.

THE INFORMATION SHOWN ON THESE PLANS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO A 1-800-922-1987 AT LEAST 2 DAYS (NOT INCLUDING THE DAY OF NOTIFICATION) PRIOR TO ANY EXCAVATION OF OTHER.

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DESIGNING AND PROVIDING ALL BRACING AND SHORING AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE EXCAVATION PROCEDURES INCLUDING ANY SHORING REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION.

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL METHODS AND MEANS OF CONSTRUCTION AS WELL AS ALL JOB SITE SAFETY & HEALTH PRECAUTIONS.

ALL SOILS WORK INCLUDING (BUT NOT LIMITED TO) PIER DRILLING AND CONSTRUCTION, SOILS EXCAVATION, FILL PLACEMENT, AND STRUCTURE BACKFILL SHALL BE IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT, UNLESS MORE STRINGENT REQUIREMENTS ARE PRINTED ON THE "IRRIGATION NOTES".

BACKFILL SHALL NOT BEGIN UNTIL CONCRETE WALLS REACH COMPRESSION STRENGTH AT LEAST 80 PERCENT OF THE REQUIRED 28 DAY STRENGTH, 0.8fc'.

REINFORCED CONCRETE:
CLASS D CONCRETE: fc' = 4,500 psi
REINFORCING STEEL: fy = 60,000 PSI
ALL CAST-IN-PLACE CONCRETE SHALL BE CLASS D UNLESS NOTED OTHERWISE.

REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60 U.N.O.
REINFORCING BARS TO BE WELDED SHALL CONFORM TO ASTM A706, GRADE 60.
ALL REINFORCING, EXCEPT PIER REINFORCING, SHALL BE EPOXY COATED AND SHALL CONFORM TO ASTM A775.
ALL REINFORCING SHALL HAVE 2" CONCRETE COVER, N.O. ON PLANS, 3" AGAINST GROUND (BOTTOM SLAB)
ALL REINFORCING SHALL BE HOOKED AROUND CORNERS AND LAPPED, SEE DETAILS.
ALL LAP SPLICE LOCATIONS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

THE FOLLOWING TABLE GIVES THE MINIMUM CLASS B (STAGGERED) LAP SPLICE LENGTH FOR EPOXY COATED REINFORCING BARS PLACED IN ACCORDANCE WITH SUBSECTION 602.06. THESE SPLICE LENGTHS SHALL BE INCREASED BY 25% FOR BARS SPACED AT LESS THAN 6" ON CENTER, INCREASED BY 40% FOR HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE BELOW (TOP BARS), AND INCREASED BY 75% IF BOTH CONDITIONS EXIST. THE INCREASES ABOVE FOR #6 THRU #11 BARS MAY BE 25%, 13%, AND 42% RESPECTIVELY.

#4	1'-3"	#5	1'-7"
#6	2'-5"	#7	2'-10"
#8	3'-8"	#9	4'-8"
#10	5'-11"	#11	7'-3"

WHEN THE CONTRACTOR ELECTS TO SUBSTITUTE EPOXY COATED REINFORCEMENT FOR BLACK REINFORCING BARS. THE MINIMUM LAP SPLICE SHALL BE AS DESCRIBED ABOVE.

STATIONS, ELEVATIONS, AND DIMENSIONS CONTAINED IN THESE PLANS ARE CALCULATED FROM A RECENT FIELD SURVEY. THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.

THE CONTRACTOR SHALL SUBMIT REINFORCING STEEL PLACING DRAWINGS (PRIOR TO CONSTRUCTION) TO THE ENGINEER FOR REVIEW FOR CONFORMANCE WITH THE DESIGN DRAWINGS. THE DESIGN DRAWINGS SHALL GOVERN OVER PLACING DRAWINGS IN ALL CASES UNLESS MODIFICATIONS ARE APPROVED IN WRITING BY ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION.

E.F. = EACH FACE
F.A. = FACE
N.F. = NEAR FACE
I.F. = INSIDE FACE
T.W. = TWO WAY
E.S. = EACH SIDE

O.F. = OUTSIDE FACE
T.&B. = TOP AND BOTTOM
T.F. = TOP FACE
B.F. = BOTTOM FACE
T.F. = TWO FACES
Lp = LAP LENGTH

c-BARS AND REINFORCING STEEL QUANTITY (EXCLUDE TOE WALL)												* REINFORCING STEEL QUANTITY INCLUDES STEM AND FOOTING QUANTITIES, BUT DOES NOT INCLUDE TOE WALL QUANTITIES.											
L (MULTIPLE OF m)	≤ (1.0 x m)	≤ (1.25 x m)	≤ (1.5 x m)	≤ (1.75 x m)	≤ (2.0 x m)	≤ (2.25 x m)	≤ (2.5 x m)	≤ (2.75 x m)	≤ (3.0 x m)	≤ (3.25 x m)	≤ (3.5 x m)												
m (FT)	k (FT)	* REINFORC. (L.B./F.T.)	* REINFORC. (L.B./F.T.)	* REINFORC. (L.B./F.T.)	* REINFORC. (L.B./F.T.)	* REINFORC. (L.B./F.T.)	* REINFORC. (L.B./F.T.)	* REINFORC. (L.B./F.T.)	* REINFORC. (L.B./F.T.)	* REINFORC. (L.B./F.T.)	* REINFORC. (L.B./F.T.)												
14	4	#4-01	53.60	#4-01	57.95	#4-01	57.10	#4-01	60.22	#4-01	62.43	#4-01	62.09	#4-01	65.38	#4-01	65.15	#4-01	68.10	#4-01	66.94	#4-01	70.66
	5	#4-01	55.86	#4-01	60.46	#4-01	59.60	#4-01	62.89	#4-01	65.23	#4-01	64.88	#4-01	68.34	#4-01	68.11	#4-01	70.77	#4-01	70.00	#4-01	73.90
	6	#4-01	57.94	#4-01	62.94	#4-01	62.08	#4-01	65.53	#4-01	67.97	#4-01	67.62	#4-01	71.24	#4-01	71.01	#4-01	73.57	#4-01	72.70	#4-01	76.84
	7	#5-01	67.29	#5-01	73.76	#5-01	72.84	#5-01	76.83	#5-01	78.32	#5-01	78.74	#5-01	81.87	#5-01	81.45	#5-01	84.02	#5-01	86.86	#5-01	93.75
	8	#5-01	74.71	#5-01	83.46	#5-01	82.09	#5-01	86.54	#5-01	92.54	#5-01	94.47	#5-01	97.04	#5-01	107.11	#5-01	106.86	#5-01	106.49	#5-01	116.35
13	4	#5-01	78.10	#5-01	87.23	#5-01	87.03	#5-01	96.64	#5-01	96.72	#5-01	103.93	#5-01	103.78	#5-01	111.65	#5-01	111.45	#5-01	111.28	#5-01	122.13
	5	#4-01	50.51	#4-01	49.25	#4-01	53.71	#4-01	53.09	#4-01	52.36	#4-01	53.85	#4-01	55.54	#4-01	57.85	#4-01	57.67	#4-01	57.51	#4-01	59.93
	6	#4-01	52.66	#4-01	51.37	#4-01	55.83	#4-01	55.21	#4-01	54.58	#4-01	56.07	#4-01	57.75	#4-01	59.91	#4-01	59.72	#4-01	60.17	#4-01	62.81
	7	#4-01	54.92	#4-01	54.48	#4-01	58.91	#4-01	58.31	#4-01	57.68	#4-01	59.20	#4-01	60.70	#4-01	62.77	#4-01	73.12	#4-01	72.95	#4-01	75.81
	8	#4-01	57.36	#4-01	57.36	#4-01	62.16	#4-01	63.95	#4-01	70.66	#4-01	70.16	#4-01	69.78	#4-01	72.75	#4-01	72.50	#4-01	76.52	#4-01	76.35
12	4	#4-01	66.39	#4-01	72.82	#4-01	73.07	#4-01	81.68	#4-01	81.76	#4-01	81.89	#4-01	86.67	#4-01	86.37	#4-01	93.18	#4-01	92.97	#4-01	92.80
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	6	#4-01	43.91	#4-01	42.65	#4-01	48.42	#4-01	47.22	#4-01	46.10	#4-01	40.78	#4-01	42.59	#4-01	44.61	#4-01	44.37	#4-01	44.18	#4-01	44.01
	7	#4-01	45.91	#4-01	43.71	#4-01	49.74	#4-01	48.53	#4-01	47.40	#4-01	42.08	#4-01	43.91	#4-01	45.75	#4-01	45.51	#4-01	45.32	#4-01	45.14
	8	#4-01	47.80	#4-01	46.51	#4-01	45.65	#4-01	50.06	#4-01	50.06	#4-01	49.59	#4-01	50.23	#4-01	48.94	#4-01	48.69	#4-01	50.00	#4-01	51.72
10	4	#4-01	49.84	#4-01	48.53	#4-01	47.66	#4-01	45.85	#4-01	52.33	#4-01	51.85	#4-01	49.23	#4-01	51.19	#4-01	50.94	#4-01	52.33	#4-01	54.14
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	7	#4-01	62.91	#4-01	62.45	#4-01	67.46	#4-01	70.68	#4-01	70.20	#4-01	69.87	#4-01	76.44	#4-01	76.13	#4-01	81.36	#4-01	81.12	#4-01	80.98
	8	#4-01	65.84	#4-01	64.15	#4-01	70.44	#4-01	73.82	#4-01	73.41	#4-01	73.33	#4-01	79.86	#4-01	79.54	#4-01	79.28	#4-01	84.95	#4-01	84.77
9	2	#4-01	41.70	#4-01	40.42	#4-01	39.57	#4-01	38.96	#4-01	38.10	#4-01	38.50	#4-01	38.15	#4-01	37.87	#4-01	37.63	#4-01	38.25	#4-01	41.46
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	4	#4-01	45.48	#4-01	44.16	#4-01	43.28	#4-01	42.66	#4-01	41.99	#4-01	43.09	#4-01	40.57	#4-01	45.07	#4-01	46.02	#4-01	45.82	#4-01	45.85
	5	#4-01	47.46	#4-01	46.10	#4-01	45.03	#4-01	44.31	#4-01	43.62	#4-01	45.06	#4-01	45.08	#4-01	48.74	#4-01	48.48	#4-01	48.19	#4-01	48.81
	6	#4-01	49.42	#4-01	48.14	#4-01	47.31	#4-01	46.59	#4-01	45.88	#4-01	47.30	#4-01	47.30	#4-01	52.27	#4-01	52.27	#4-01	51.99	#4-01	56.86
8	4	#4-01	51.73	#4-01	50.31	#4-01	50.43	#4-01	50.21	#4-01	54.29	#4-01	53.78	#4-01	55.04	#4-01	54.73	#4-01	58.81	#4-01	58.35	#4-01	58.84
	5	#4-01	54.00	#4-01	58.44	#4-01	57.04	#4-01	60.64	#4-01	60.77	#4-01	62.92	#4-01	65.61	#4-01	65.94	#4-01	65.69	#4-01	67.76	#4-01	67.57
	6	#4-01	56.20	#4-01	60.87	#4-01	59.85	#4-01	63.21	#4-01	65.77	#4-01	65.60	#4-01	68.25	#4-01	68.78	#4-01	68.52	#4-01	70.69	#4-01	70.51
	7	#4-01	39.84	#4-01	39.53	#4-01	37.65	#4-01	37.03	#4-01	36.57	#4-01	36.20	#4-01	35.91	#4-01	35.67	#4-01	35.48	#4-01	36.49	#4-01	36.93
	8	#4-01	41.69	#4-01	39.47	#4-01	40.10	#4-01	39.47	#4-01	38.77	#4-01	38.17	#4-01	37.46	#4-01	37.11	#4-01	36.86	#4-01	37.46	#4-01	37.76
10	4	#4-01	43.58	#4-01	42.22	#4-01	41.31	#4-01	40.67	#4-01	40.19	#4-01	39.82	#4-01	39.53	#4-01	39.28	#4-01	39.08	#4-01	39.48	#4-01	39.77
	5	#4-01	45.53	#4-01	44.14	#4-01	43.21	#4-01	42.56	#4-01	42.07	#4-01	41.64	#4-01	41.33	#4-01	41.07	#4-01	40.87	#4-01	41.27	#4-01	41.54
	6	#4-01	47.58	#4-01	46.14	#4-01	45.20	#4-01	44.53	#4-01	44.03	#4-01	43.67	#4-01	43.35	#4-01	43.08	#4-01	42.88	#4-01	43.28	#4-01	43.54
	7	#4-01	49.79	#4-01	48.33	#4-01	47.34	#4-01	46.67	#4-01	46.19	#4-01	45.84	#4-01	45.54	#4-01	45.29	#4-01	45.09	#4-01	45.49	#4-01	45.75
	8	#4-01	52.08	#4-01	50.54	#4-01	49.54	#4-01	48.87	#4-01	48.39	#4-01	47.93	#4-01	47.63	#4-01	47.38	#4-01	47.18	#4-01	47.58	#4-01	47.84
9	2	#4-01	38.01	#4-01	36.75	#4-01	35.85	#4-01	35.21	#4-01	34.73	#4-01	34.36	#4-01	34.06	#4-01	33.81	#4-01	33.61	#4-01	33.44	#4-01	33.44
	3	#4-01	39.93	#4-01	38.56	#4-01	37.64	#4-01	36.99	#4-01	36.51	#4-01	36.13	#4-01	35.83	#4-01	35.58	#4-01	35.38	#4-01	35.70	#4-01	35.71
	4	#4-01	41.81	#4-01	40.40	#4-01	39.47	#4-01	38.81	#4-01	38.31	#4-01	37.93	#4-01	37.63	#4-01	37.37	#4-01	37.17	#4-01	37.50	#4-01	36.99
	5	#4-01	43.75	#4-01	42.30	#4-01	41.33	#4-01	40.67	#4-01	40.17	#4-01	39.78	#4-01	39.47	#4-01	39.20	#4-01	39.01	#4-01	39.86	#4-01	39.87
	6	#4-01	45.79	#4-01	44.30	#4-01	43.35	#4-01	42.62	#4-01	42.10	#4-01	41.71	#4-01	41.39	#4-01	41.12	#4-01	40.94	#4-01	41.82	#4-01	41.82
8	4	#4-01	45.79	#4-01	45.40	#4-01	45.09	#4-01	44.78	#4-01	44.47	#4-01	44.16	#4-01	43.85	#4-01	43.54	#4-01	43.23	#4-01	42.92	#4-01	42.61
	5	#4-01	50.43	#4-01	48.84	#4-01	47.80	#4-01	47.06	#4-01	46.06	#4-01	45.83	#4-01	45.10	#4-01	45.05	#4-01	44.70	#4-01	45.54	#4-01	45.35
	6	#4-01	36.41	#4-01	35.01	#4-01	34.08	#4-01	33.42	#4-01	32.94	#4-01	32.54	#4-01	32.23	#4-01	31.97	#4-01	31.77	#4-01	31.77	#4-01	31.59
	7	#4-01	38.23	#4-01	36.80	#4-01	35.84	#4-01	35.18	#4-01	34.67	#4-01	34.28	#4-01	33.97	#4-01	33.70	#4-01	33.50	#4-01	33.50	#4-01	33.32
	8	#4-01	40.09	#4-01	38.61	#4-01	37.65	#4-01	36.95	#4-01	36.44	#4-01	36.04	#4-01	35.72	#4-01	35.45	#4-01	35.25	#4-01	35.25	#4-01	35.07
7	4	#4-01	41.98	#4-01	40.47	#4-01	39.47	#4-01	38.81	#4-01	38.30	#4-01	37.89	#4-01	37.48	#4-01	37.07	#4-01	36.66	#4-01	37.23	#4-01	36.82
	5	#4-01	43.97	#4-01	42.40	#4-01	41.36	#4-01	40.64	#4-01	40.10	#4-01	39.68	#4-01	39.35	#4-01	39.07	#4-01	38.87	#4-01	43.33	#4-01	43.13
	6	#4-01	46.19	#4-01	44.56	#4-01	43.49	#4-01	42.74	#4-01	42.18	#4-01	41.75	#4-01	41.41	#4-01	41.13	#4-01	40.93	#4-01	45.65	#4-01	45.45
	7	#4-01	34.90	#4-01	33.44	#4-01	32.47	#4-01	31.78	#4-01	31.27	#4-01	30.86	#4-01	30.54	#4-01	30.27	#4-01	30.06	#4-01	30.01	#4-01	29.88
	8	#4-01	36.73	#4-01	35.23	#4-01	34.23	#4-01	33.53	#4-01	33.00	#4-01	32.59	#4-01	32.26	#4-01	31.99	#4-01	31.78	#4-01	31.78	#4-01	31.61
6	4	#4-01	38.52	#4-01	37.09	#4-01	36.01	#4-01	35.29	#4-01	34.75	#4-01	34.33	#4-01	33.99	#4-01	33.71	#4-01	33.50	#4-01	33.50	#4-01	33.34
	5	#4-01	40.48	#4-01	38.96	#4-01	37.88	#4-01	37.16	#4-01	36.62	#4-01	36.20	#4-01	35.85	#4-01	35.57	#4-01	35.36	#4-01	35.36	#4-01	35.20
	6	#4-01	42.39	#4-01	40.77	#4-01	39.61	#4-01	38.84	#4-01	38.26	#4-01	37.82	#4-01	37.47	#4-01	37.17	#4-01	36.95	#4-01	36.95	#4-01	36.75
	7	#4-01	44.29	#4-01	42.61	#4-01	41.36	#4-01	40.59	#4-01	40.00	#4-01	39.56	#4-01	39.21	#4-01	38.91	#4-01	38.70	#4-01	38.70	#4-01	38.50
	8	#4-01																					