

# LAZY Y AND ROCKIN J SUBDIVISION

LOCATED IN THE SOUTH HALF OF SECTION 7  
TOWNSHIP 12 SOUTH, RANGE 63 WEST OF THE 6TH P.M.  
**STREET IMPROVEMENT PLANS**  
COUNTY OF EL PASO, STATE OF COLORADO



Know what's below.  
Call before you dig.

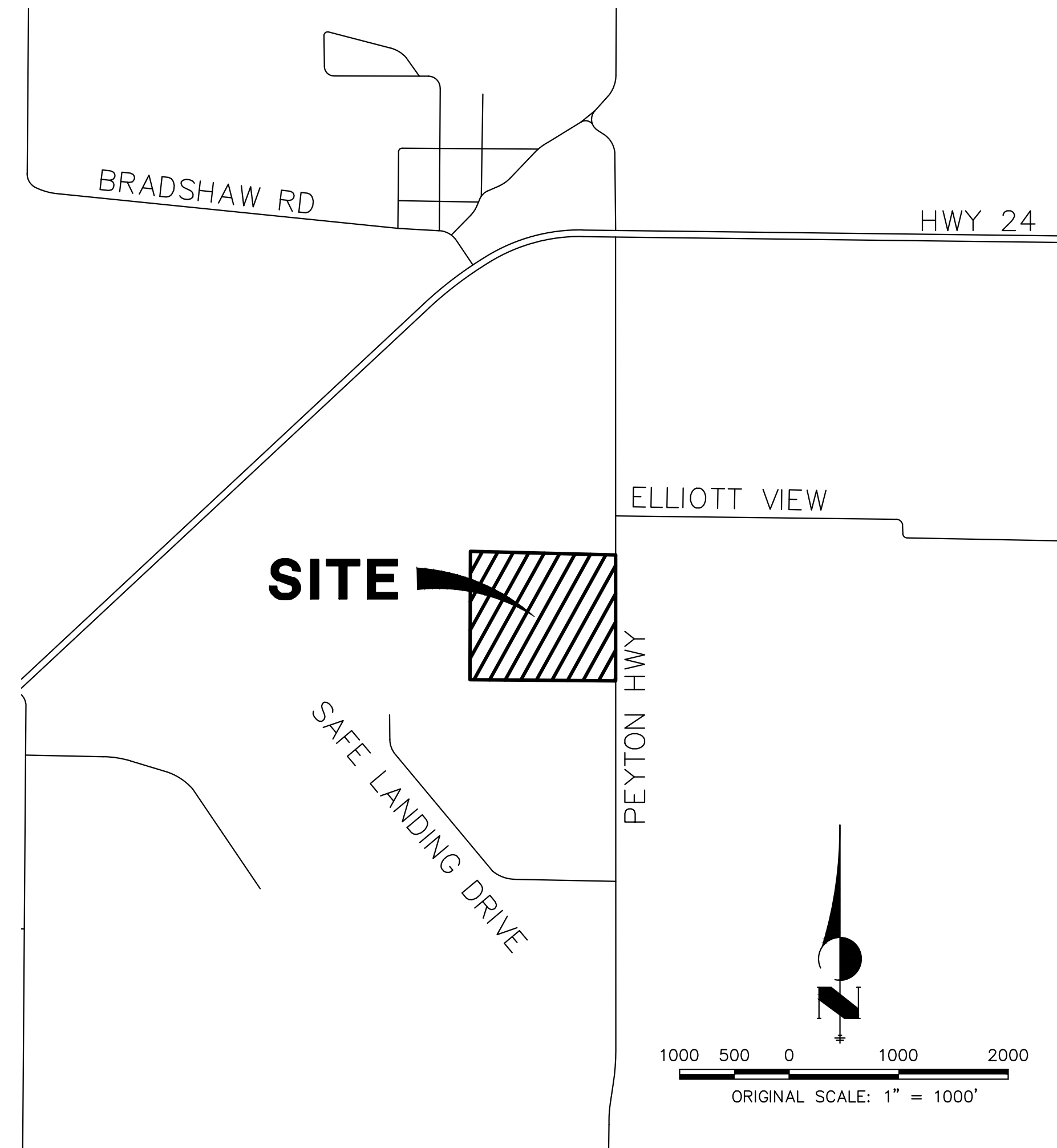
UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, OR ENGINEERING APPROVES THEIR USE, THESE DRAWINGS ARE DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR  
LYRJ  
1172 GREENLAND FOREST DRIVE  
MONUMENT, CO 80106  
SCOTT SMITH  
(719) 499-7764

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

**BASIS OF BEARING:**

BASIS OF BEARINGS: THE EAST LINE OF SECTION 7, TOWNSHIP 12 SOUTH, RANGE 63 WEST OF THE 6TH PRINCIPAL MERIDIAN, BEING MONUMENTED AT THE SOUTH END BY A 3.25" ALUMINUM CAP STAMPED "LS 17496 1995" IN A RANGE BOX AND AT THE NORTH END BY A 3.25" ALUMINUM CAP STAMPED "CDOT LS 25381 2007" IN A RANGE BOX, BEARING S01°04'47"E AS REFERENCED TO COLORADO STATE PLANE CENTRAL ZONE.

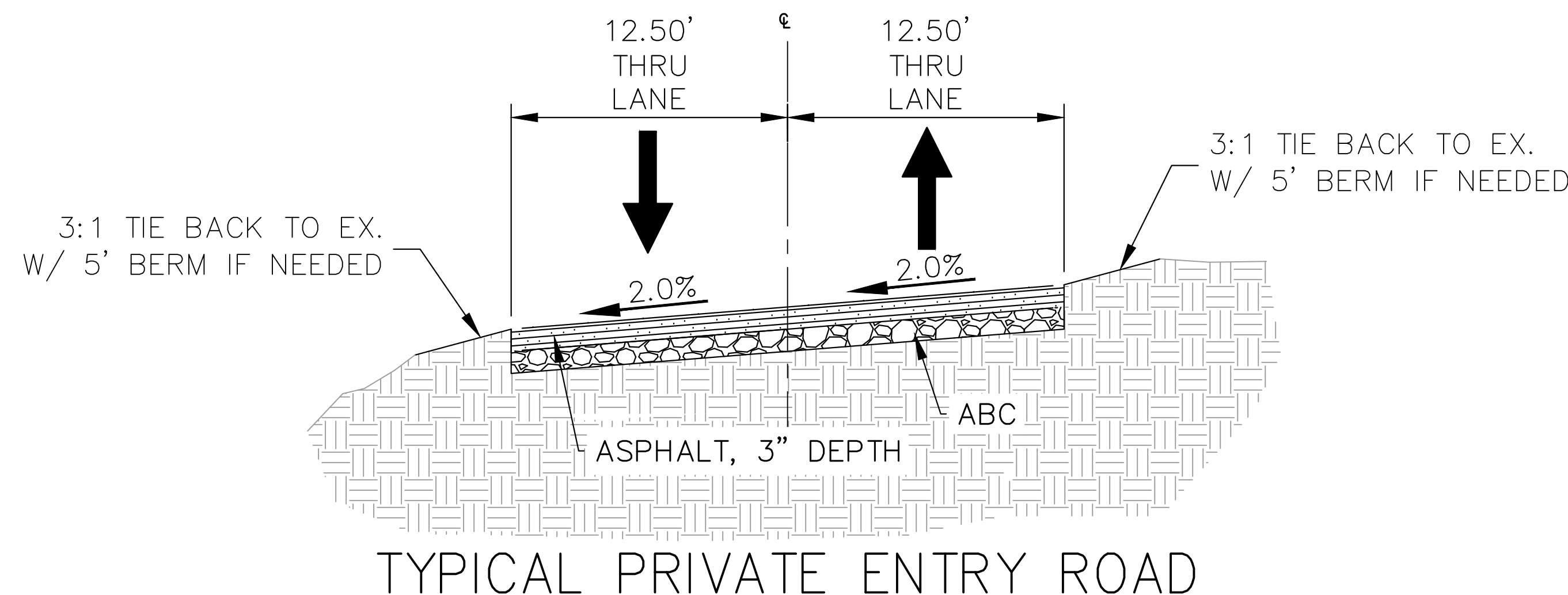
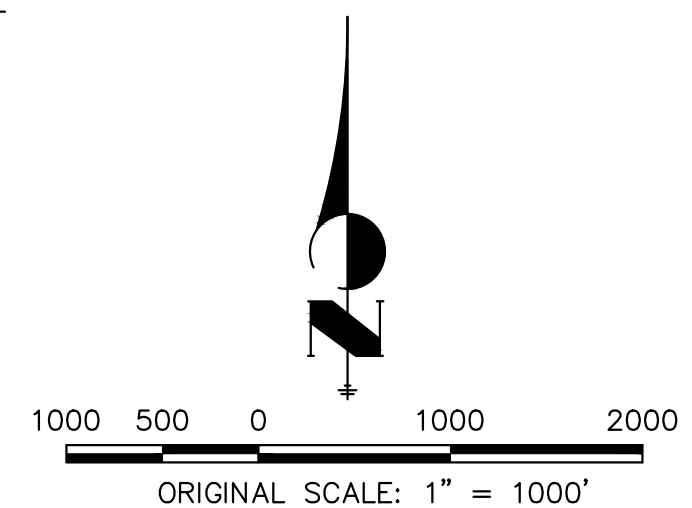


**AGENCIES**

<p><b>OWNER/DEVELOPER:</b> LYRJ 1172 GREENLAND FOREST DRIVE MONUMENT, CO 80106 SCOTT SMITH (719) 499-7764</p> <p><b>CIVIL ENGINEER:</b> JR ENGINEERING, LLC 5475 TECH CENTER DRIVE COLORADO SPRINGS, CO 80919 BRYAN LAW P.E. (303) 267-6254</p> <p><b>COUNTY ENGINEERING:</b> EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT 2880 INTERNATIONAL CIRCLE, SUITE 110 COLORADO SPRINGS, CO 80910 CHARLENE DURHAM, P.E. (719) 520-7951</p> <p><b>TRAFFIC ENGINEERING:</b> EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS 3275 AKERS DRIVE COLORADO SPRINGS, CO 80922 JOSHUA PALMER, P.E. (719) 520-6460</p>	<p><b>FIRE DISTRICT:</b> BLACK FOREST FIRE PROTECTION DISTRICT 11445 TEACHOUT ROAD COLORADO SPRINGS, CO 80908 CHIEF BRYAN JACK (719) 495-4300</p> <p><b>GAS DEPARTMENT:</b> BLACK HILLS ENERGY 7080 ALEGRE STREET FOUNTAIN, CO 80817 (719) 393-6625</p> <p><b>ELECTRIC DEPARTMENT:</b> MOUNTAIN VIEW ELECTRIC 11140 E. WOODMEN ROAD FALCON, CO 80631 (719) 495-2283</p> <p><b>COMMUNICATIONS:</b> U.S. WEST COMMUNICATIONS (LOCATORS) (800) 922-1987</p>
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**SHEET INDEX:**

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2	-	LEGEND AND GENERAL NOTES
3	-	STREET IMPROVEMENT PLAN
4	-	SIGNAGE AND STRIPING PLAN
4	-	TOTAL SHEETS



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.

**OWNER/DEVELOPER STATEMENT**

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

SCOTT SMITH \_\_\_\_\_ DATE \_\_\_\_\_  
LYRJ  
1172 GREENLAND FOREST DRIVE  
MONUMENT, CO 80106

**EL PASO COUNTY STATEMENT**

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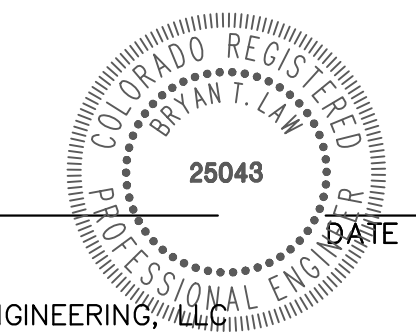
FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

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.

JOSHUA PALMER, 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.



BRYAN T. LAW, P.E.  
COLORADO P.E. 25043  
FOR AND ON BEHALF OF JR ENGINEERING, LLC

BY	DATE								
No.	REVISION								
H-SCALE	1"=1000'	N/A							
V-SCALE			01/29/26	PAL	PAL				
DESIGNED BY									
DRAWN BY									
CHECKED BY									
LAZY Y AND ROCKIN J SUBDIVISION COVER SHEET									
SHEET 1 OF 4									
JOB NO. 25228.00									







# LAZY Y AND ROCKING J SUBDIVISION

LOCATED IN THE SOUTH HALF OF SECTION 7  
TOWNSHIP 12 SOUTH, RANGE 63 WEST OF THE 6TH P.M.  
**STORM SEWER AND POND PLANS**  
COUNTY OF EL PASO, STATE OF COLORADO



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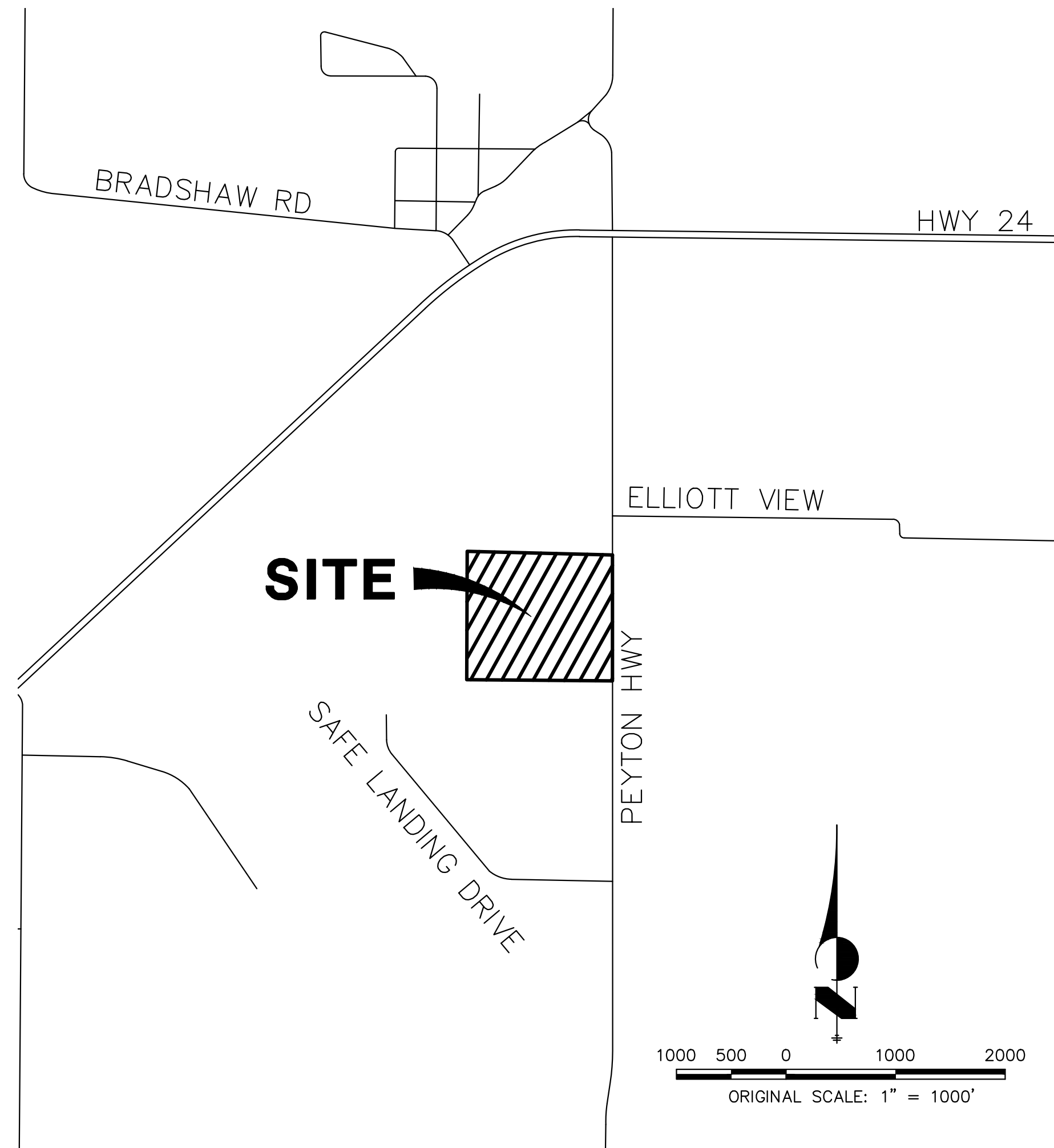
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### STANDARD NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS

- 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 OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

### BASIS OF BEARING:

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### SHEET INDEX:

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### STORM SEWER NOTES

- SEE SHEET 1 FOR BASIS OF BEARING. SEE SHEET 2 FOR LEGEND.
- 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.
- ALL STATIONING IS PIPE CENTERLINE UNLESS OTHERWISE NOTED.
- ALL PROPOSED RCP STORM SEWER PIPE 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.
- WHERE PIPES ENTER STRUCTURES, THE CENTERLINE STATION CALLED OUT ON THE PLANS IS TO THE CENTER OF STRUCTURE. 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.
- PIPES SHALL HAVE JOINT RESTRAINTS ON LAST 3 JOINTS AT PIPE OUTFALL.
- PIPES WITH PRESSURE HEAD SHALL USE WATER TIGHT JOINTS WITH A 100-YEAR SERVICE LIFE.
- PIPE BEDDING SHALL CONFORM TO EL PASO COUNTY CONSTRUCTION STANDARDS AND SPECIFICATIONS. BEDDING FOR RCP SHALL BE AG7122 NO. 57/67 CRUSHED ROCK. SQUEEGEE OR MIXTURES CONTAINING SQUEEGEE SHALL NOT BE USED. BEDDING SHALL BE 6 TO 8 INCHES DEEP UNDER THE PIPE AND BACKFILLED TO THE SPRING LINE.
- ALL MATERIALS AND INSTALLATION PROCEDURES SHALL BE IN COMPLIANCE WITH MANUFACTURERS SPECIFICATIONS AND EL PASO COUNTY STANDARDS AND SPECIFICATION.
- SEE DETAIL SHEET 15 - 16 FOR APPLICABLE DETAILS.

### POND NOTES

- ALL PROPOSED POND IMPROVEMENTS ARE PRIVATE UNLESS OTHERWISE NOTED.
- SEE SHEETS 3-6 FOR PROPOSED STORM SEWER DESIGN.
- SEE PRIVATE STREET IMPROVEMENT PLANS BY JR ENGINEERING FOR PROPOSED PRIVATE STREET DESIGN.
- SEE GRADING AND EROSION CONTROL PLAN BY JR ENGINEERING.

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SCOTT SMITH \_\_\_\_\_ DATE \_\_\_\_\_

LYRJ  
1172 GREENLAND FOREST DRIVE  
MONUMENT, CO 80106

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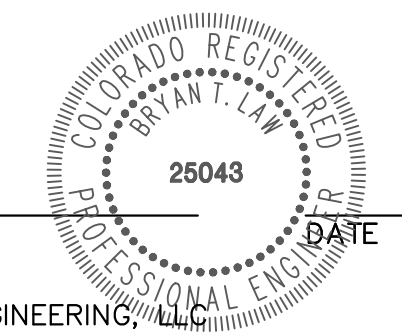
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COUNTY ENGINEER/ECM ADMINISTRATOR

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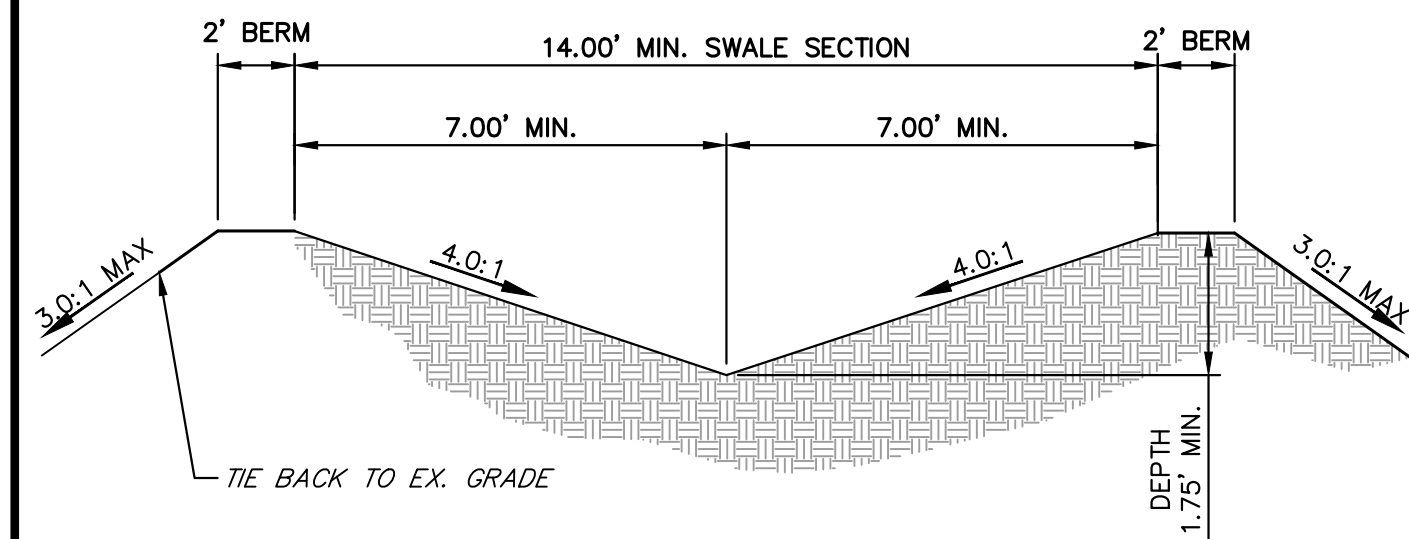
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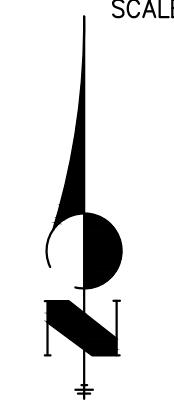
LAZY Y AND ROCKING J SUBDIVISION COVER	BY	DATE							
	No. REVISION								
H-SCALE	1"=1000'	N/A	DATE	01/29/26	DESIGNED BY	PAL	PAL	DRAWN BY	
V-SCALE					CHECKED BY				
SHEET		1	OF	16	JOB NO.		25228.00		



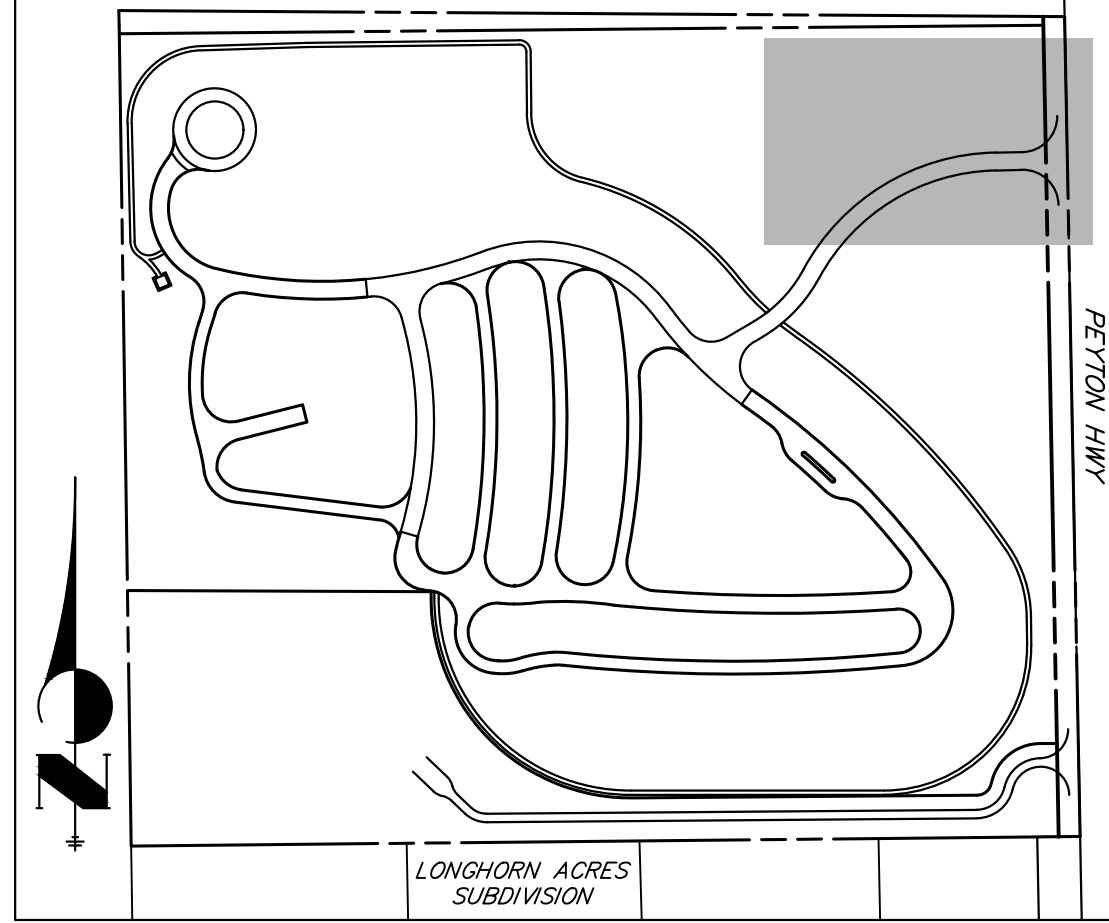
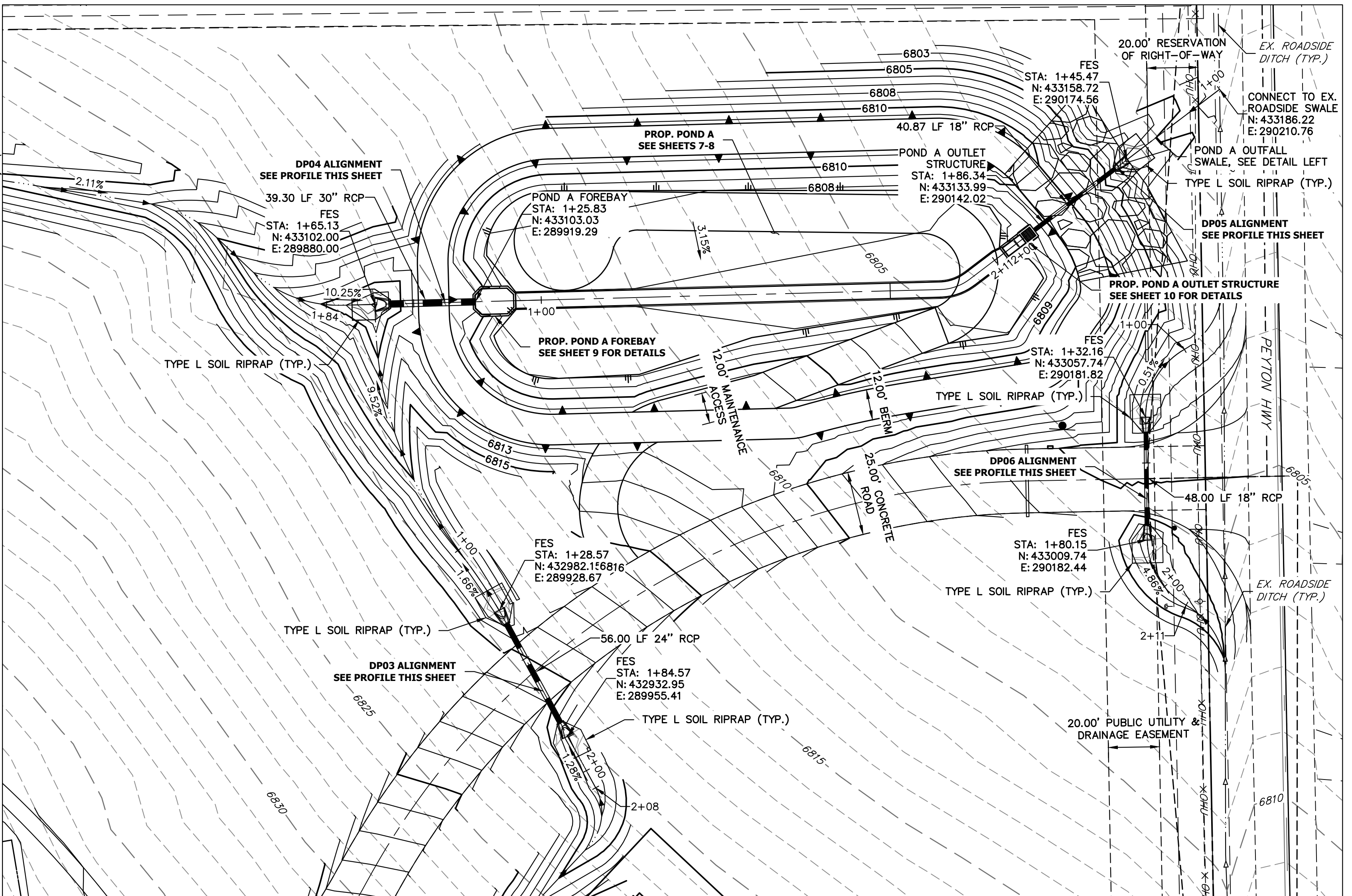




**POND A OUTFALL SWALE**  
SCALE: N.T.S.



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

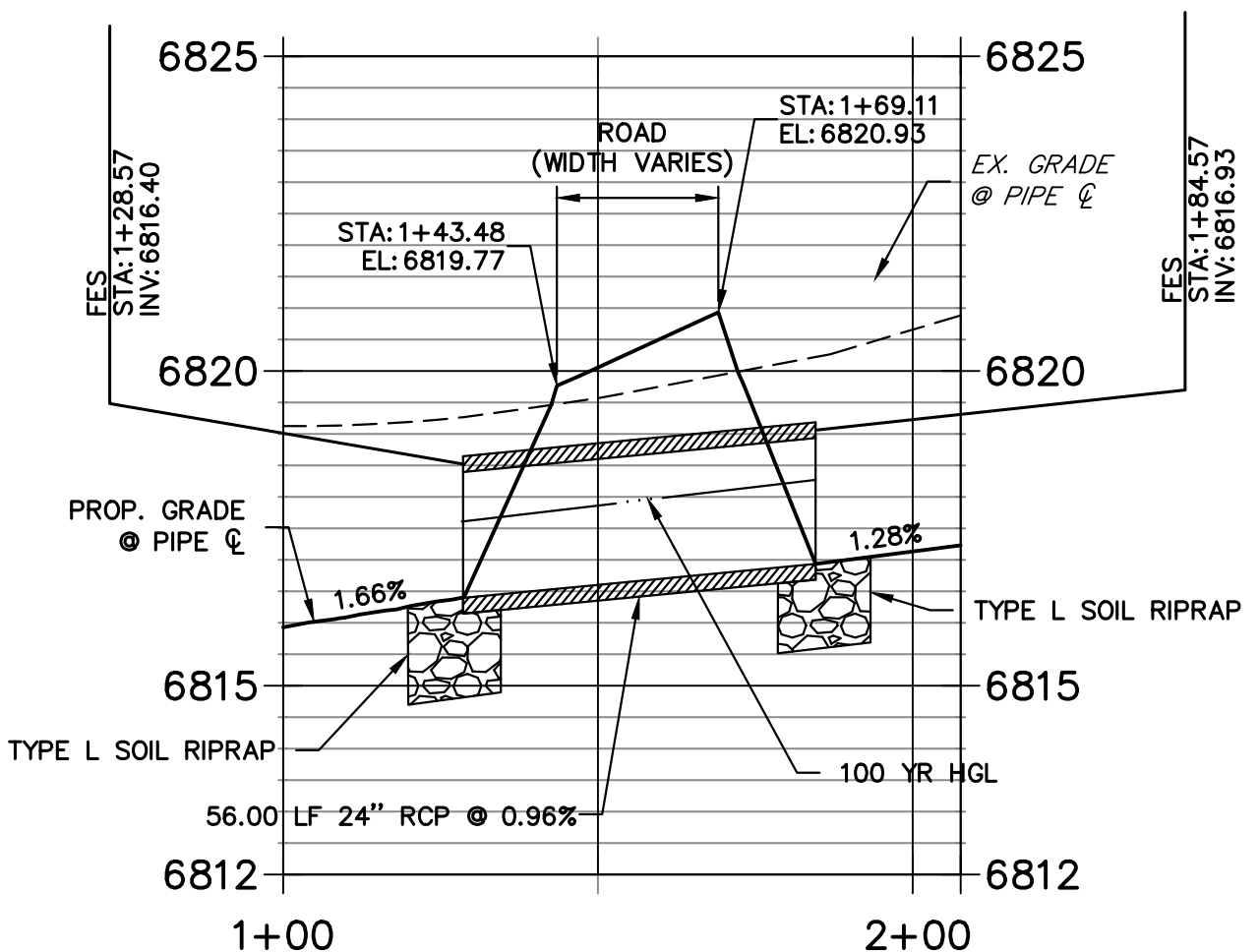


**KEYMAP**  
SCALE: N.T.S.

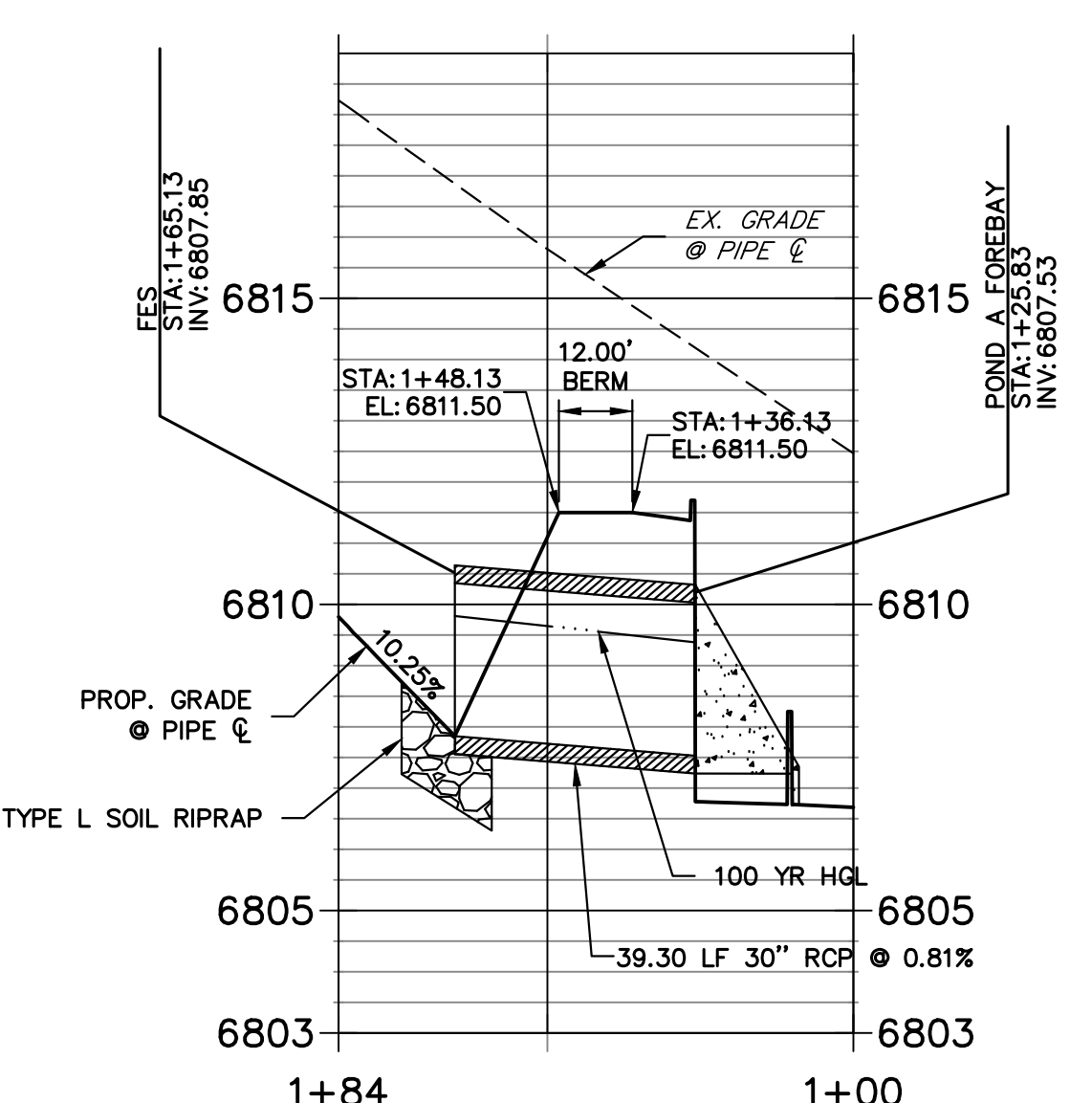
**STORM SEWER NOTES**

1. PIPE LENGTHS MEASURED FROM CENTER OF MANHOLES TO CENTER OF MANHOLES, INSIDE FACE OF INLETS, OUTLET END OF FLARED END SECTIONS AND FACE OF WALLS WHERE APPLICABLE.
2. E STATIONS & OFFSETS ARE LABELED AT CENTER OF STRUCTURE.
3. CONTRACTOR TO FIELD VERIFY EXISTING UTILITY LOCATIONS, PRIOR TO EXTENSION OF MAINS AND SERVICE CONNECTIONS. CONTRACTOR TO COORDINATE CONNECTIONS WITH UTILITY PROVIDER.

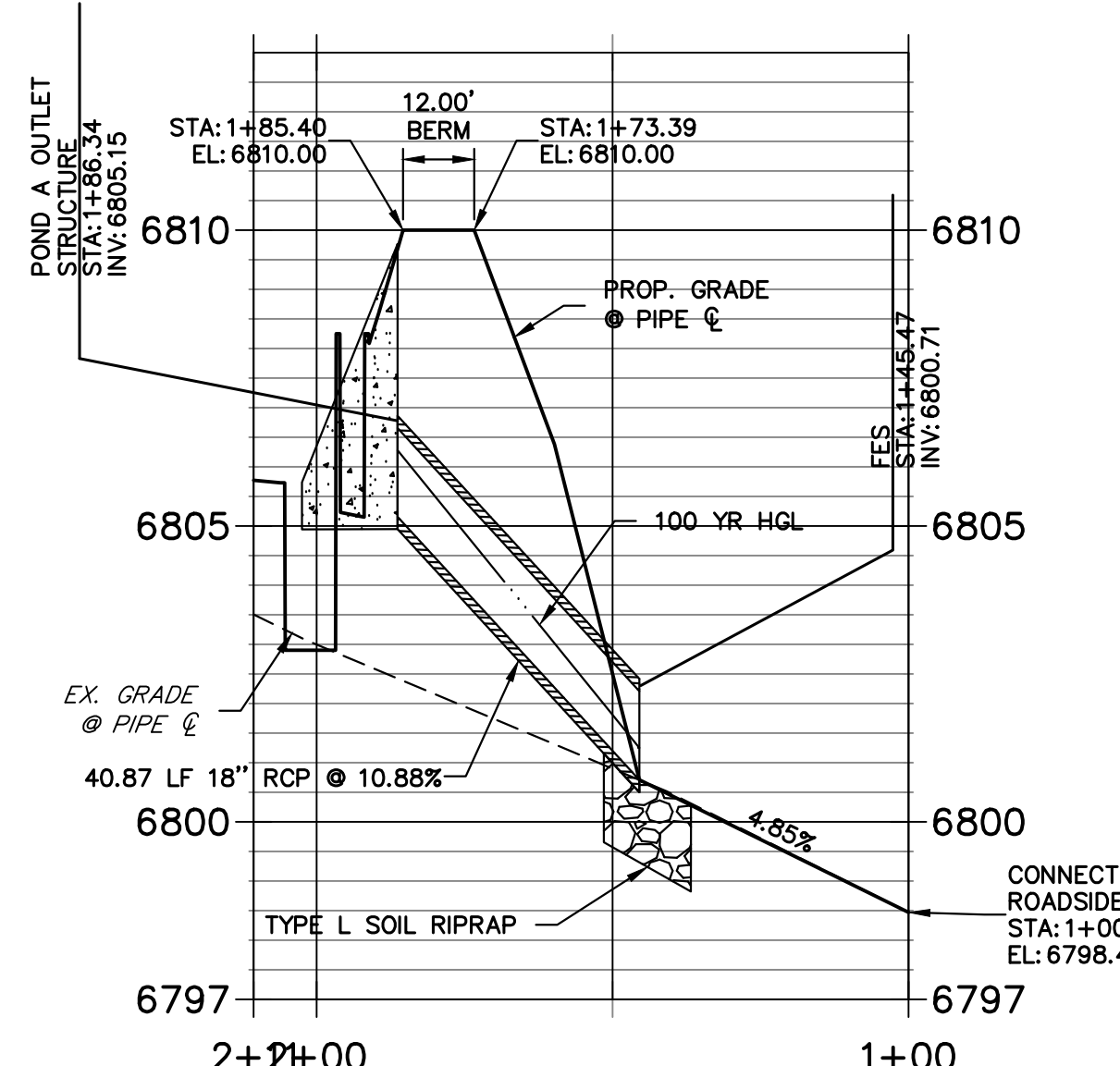
**DP03 PROFILE**  
STA 1+00.00 TO 2+07.63



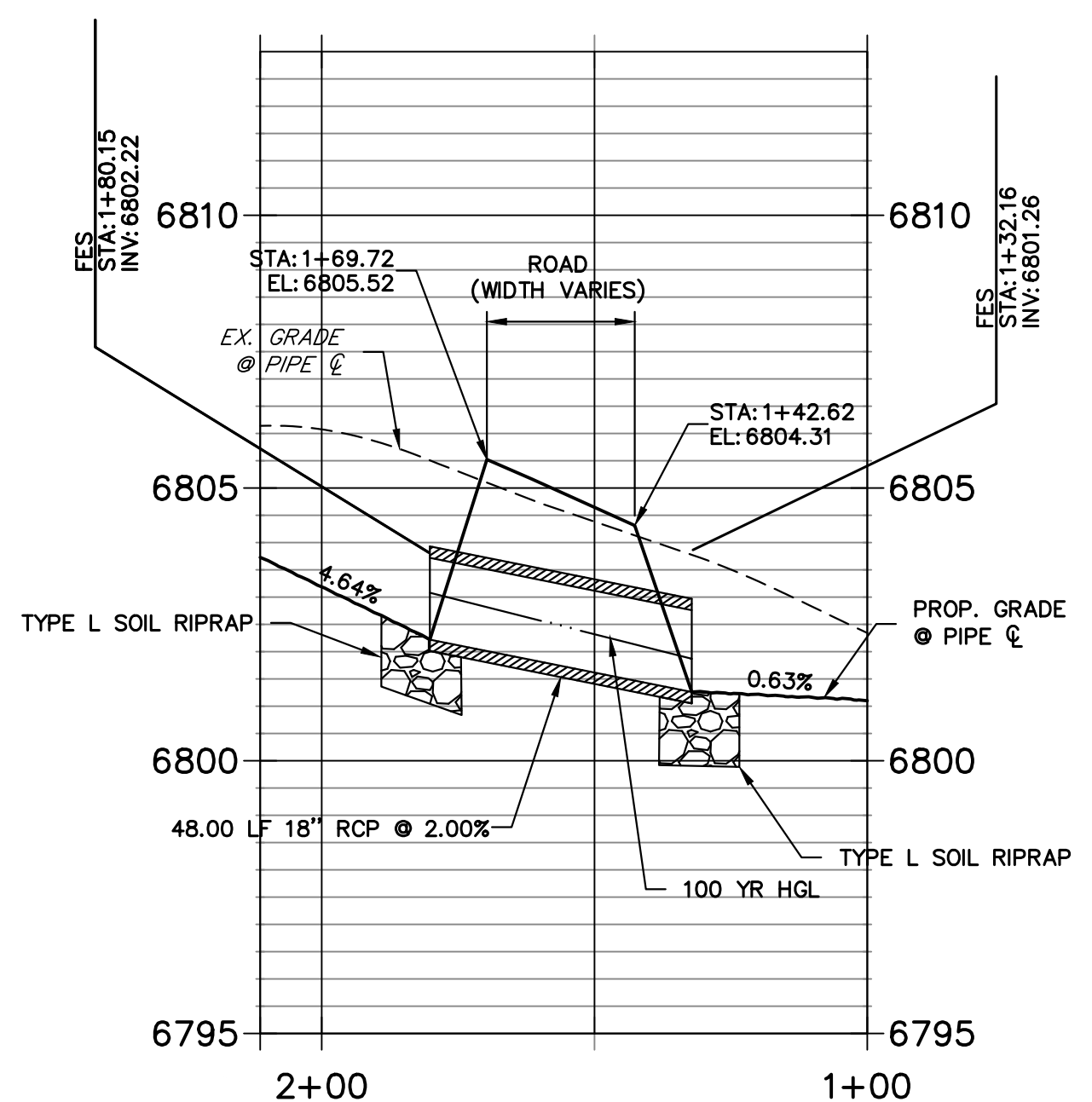
**DP04 PROFILE**  
STA 1+00.00 TO 1+84.13



**DP05 PROFILE**  
STA 1+00.00 TO 2+10.66



**DP06 PROFILE**  
STA 1+00.00 TO 2+11.27



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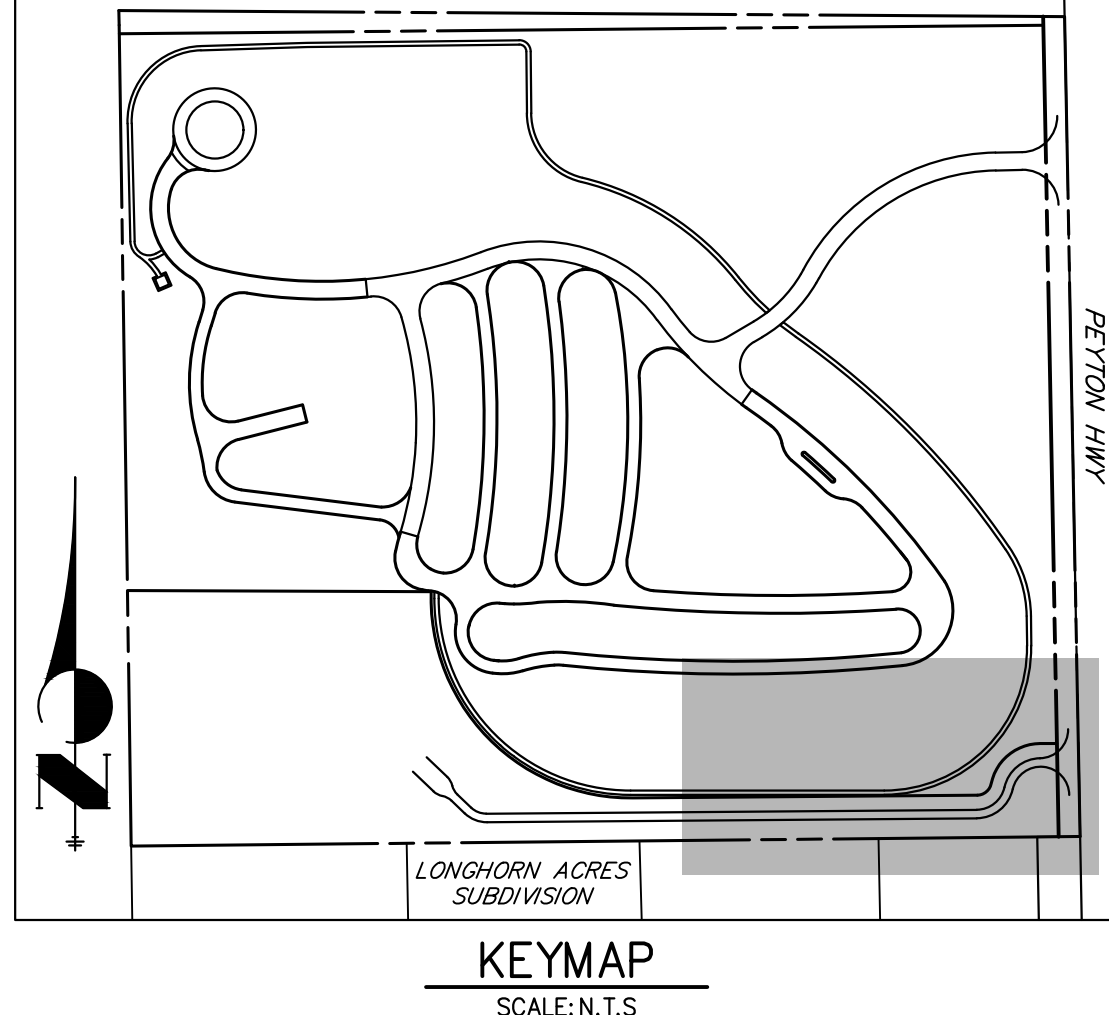
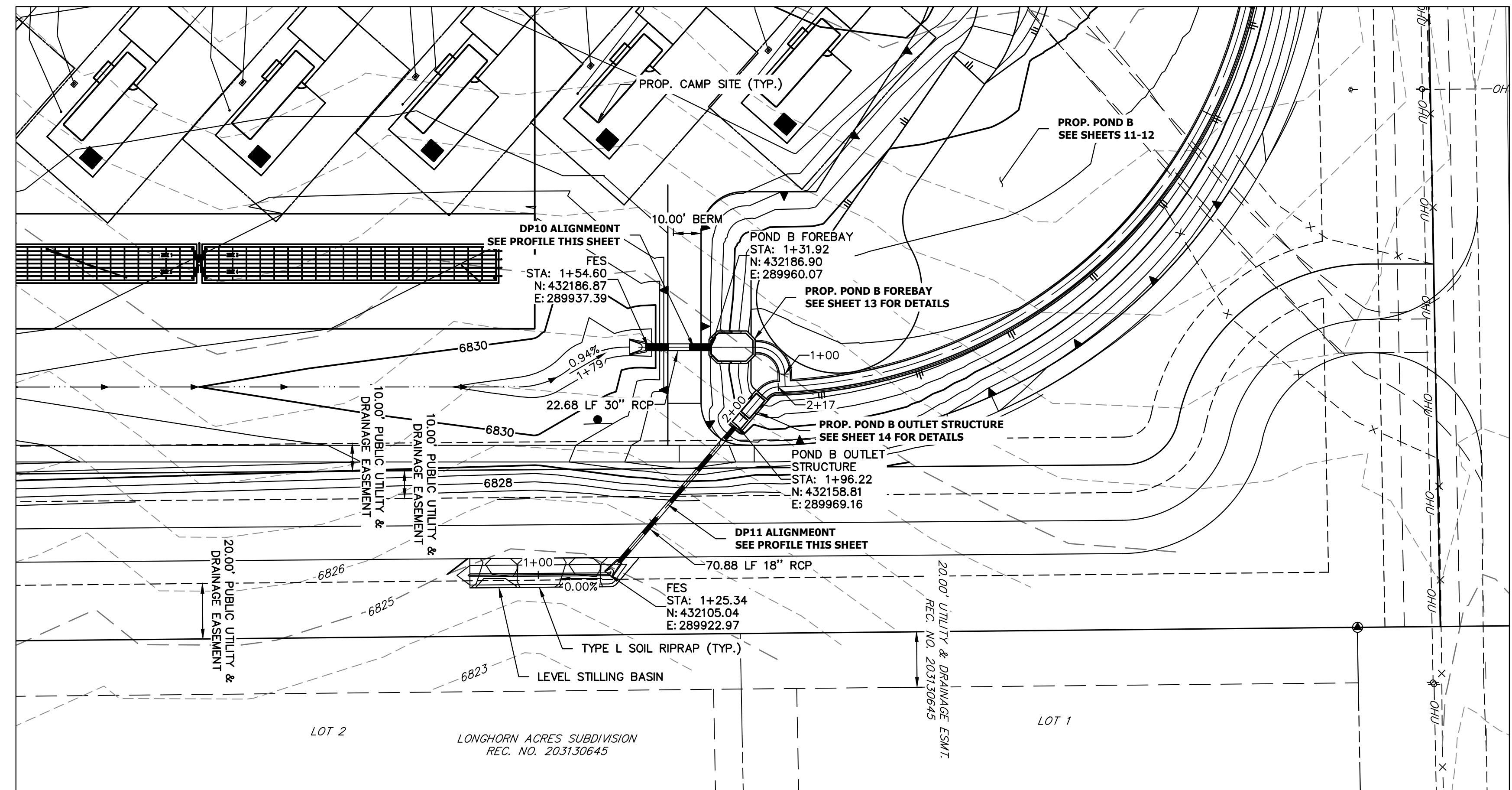
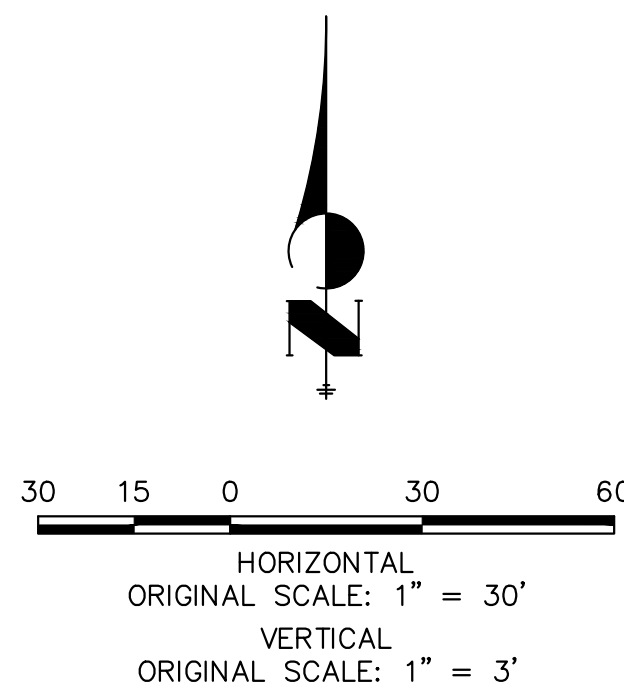


**ENGINEER'S STATEMENT**

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING  
BRYAN T. LAW, P.E.  
COLORADO P.E. 25043  
FOR AND ON BEHALF OF JR ENGINEERING, LLC

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DATE	01/29/26	DESIGNED BY	PAL
DRAWN BY	PAL	CHECKED BY	
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JOB NO. 25228.00			



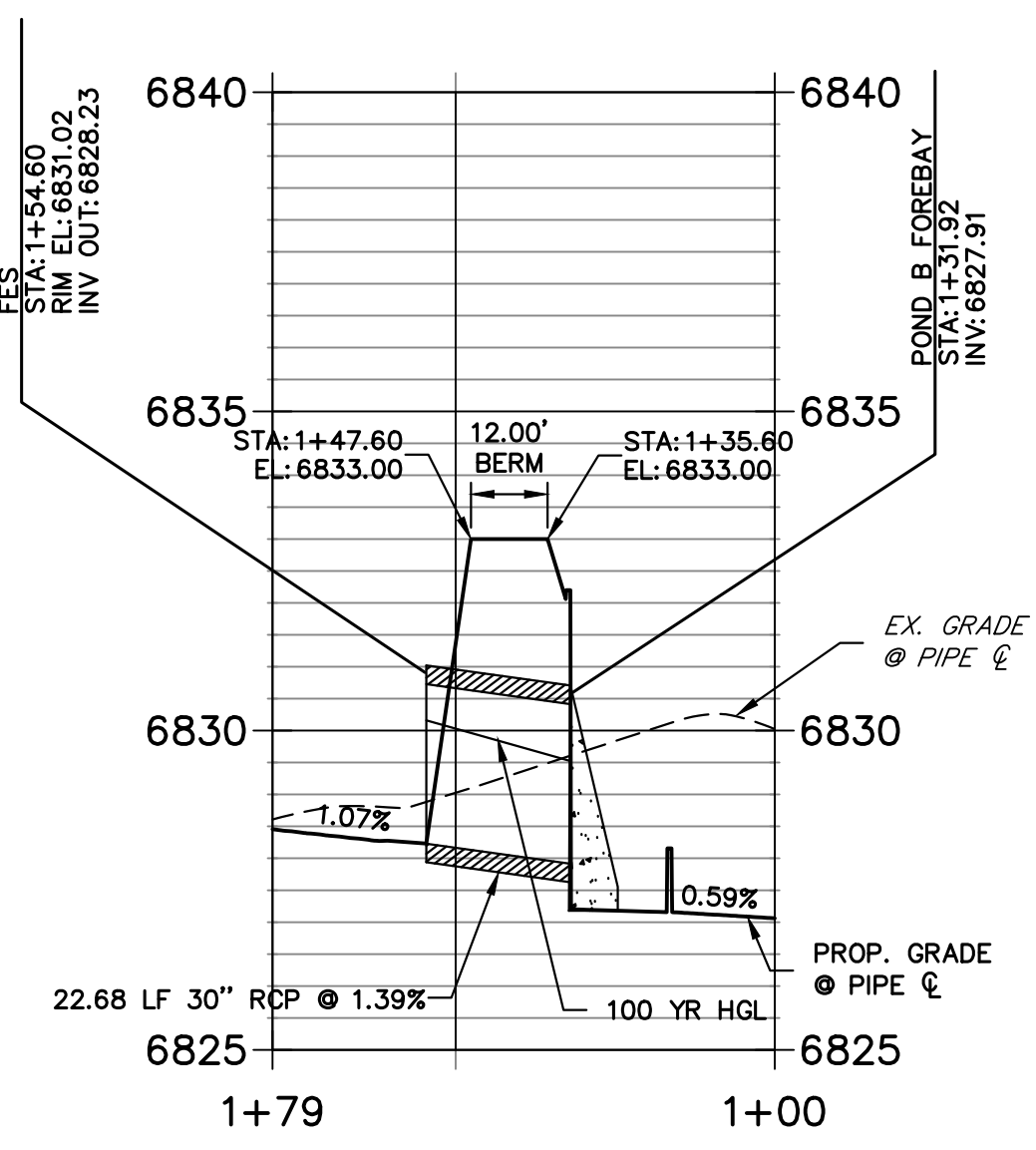


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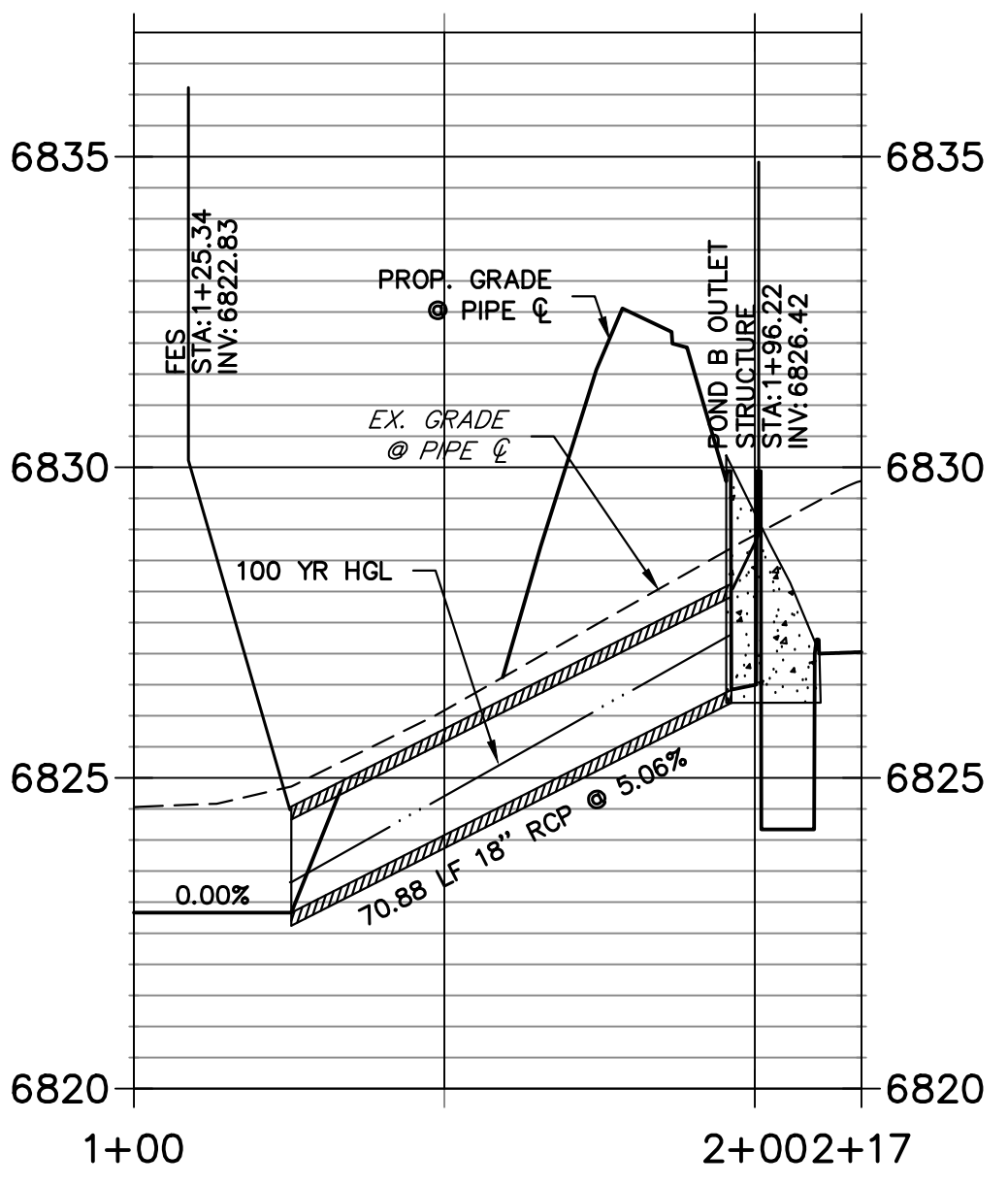
PREPARED FOR  
**LVR**  
 1172 GREENLAND FOREST DRIVE  
 MONUMENT, CO 80106  
 SCOTT, SMITH  
 (719) 499-7764

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

**DP10 PROFILE  
 STA 1+00.00 TO 1+78.69**



**DP11 PROFILE  
 STA 1+00.00 TO 2+17.17**



**STORM SEWER NOTES**

1. PIPE LENGTHS MEASURED FROM CENTER OF MANHOLES, INSIDE FACE OF INLETS, OUTLET END OF FLARED END SECTIONS AND FACE OF WALLS WHERE APPLICABLE.
2. @ STATIONS & OFFSETS ARE LABELED AT CENTER OF STRUCTURE.
3. CONTRACTOR TO FIELD VERIFY EXISTING UTILITY LOCATIONS, PRIOR TO EXTENSION OF MAINS AND SERVICE CONNECTIONS. CONTRACTOR TO COORDINATE CONNECTIONS WITH UTILITY PROVIDER.

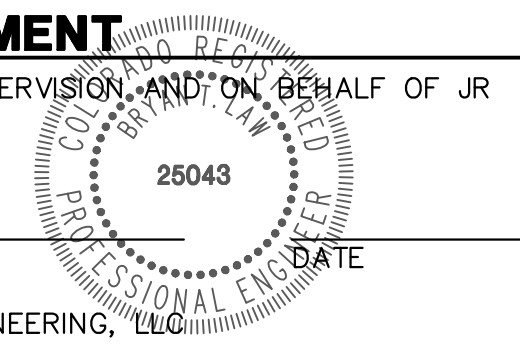
THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE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



**ENGINEER'S STATEMENT**

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING

BRYAN T. LAW, P.E.  
 COLORADO P.E. 25043  
 FOR AND ON BEHALF OF JR ENGINEERING, LLC



H-SCALE	V-SCALE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY	No.	REVISION	BY	DATE
LAZY Y AND ROCKING J SUBDIVISION									
STORM SEWER PLAN & PROFILE									
SHEET 6 OF 16									
JOB NO. 25228.00									





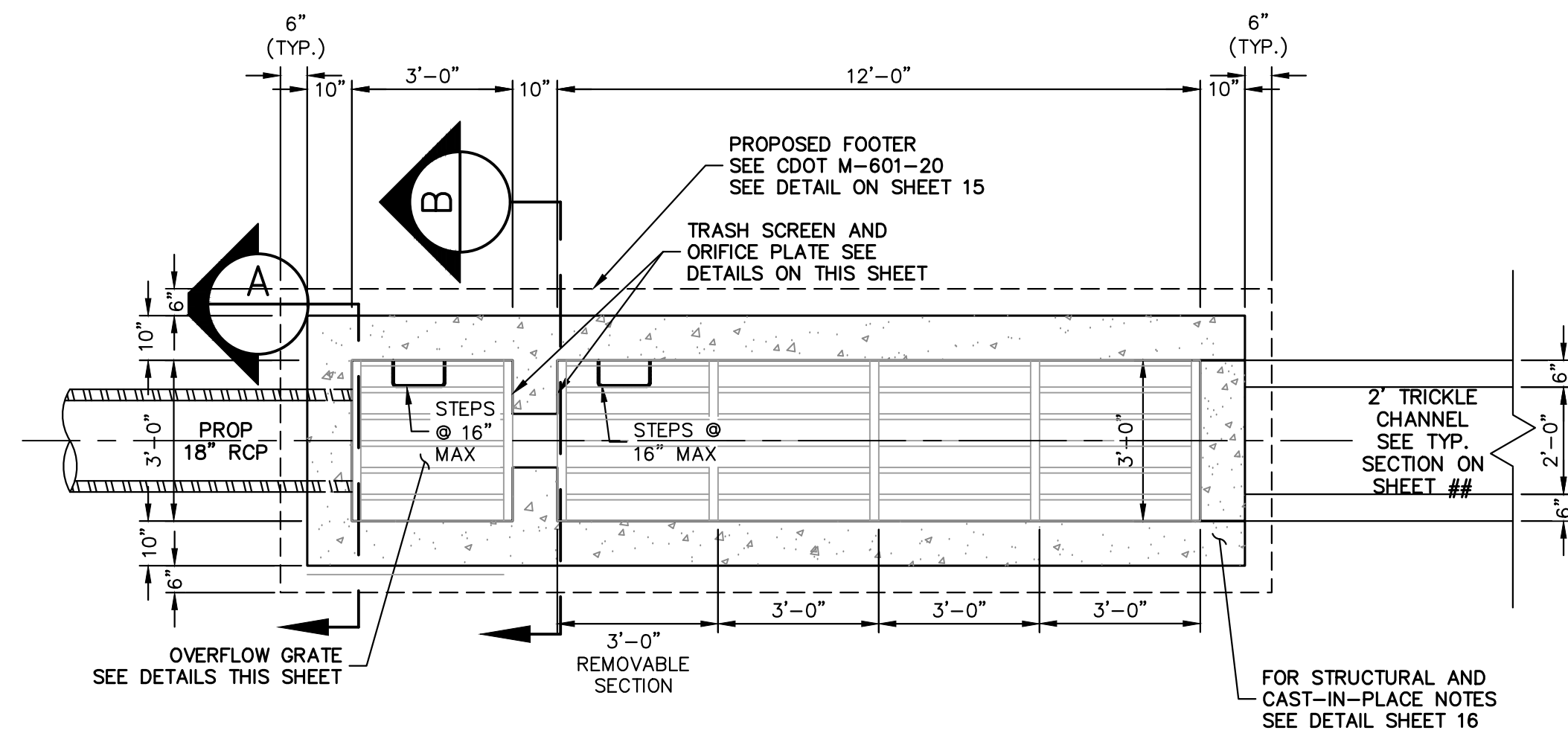




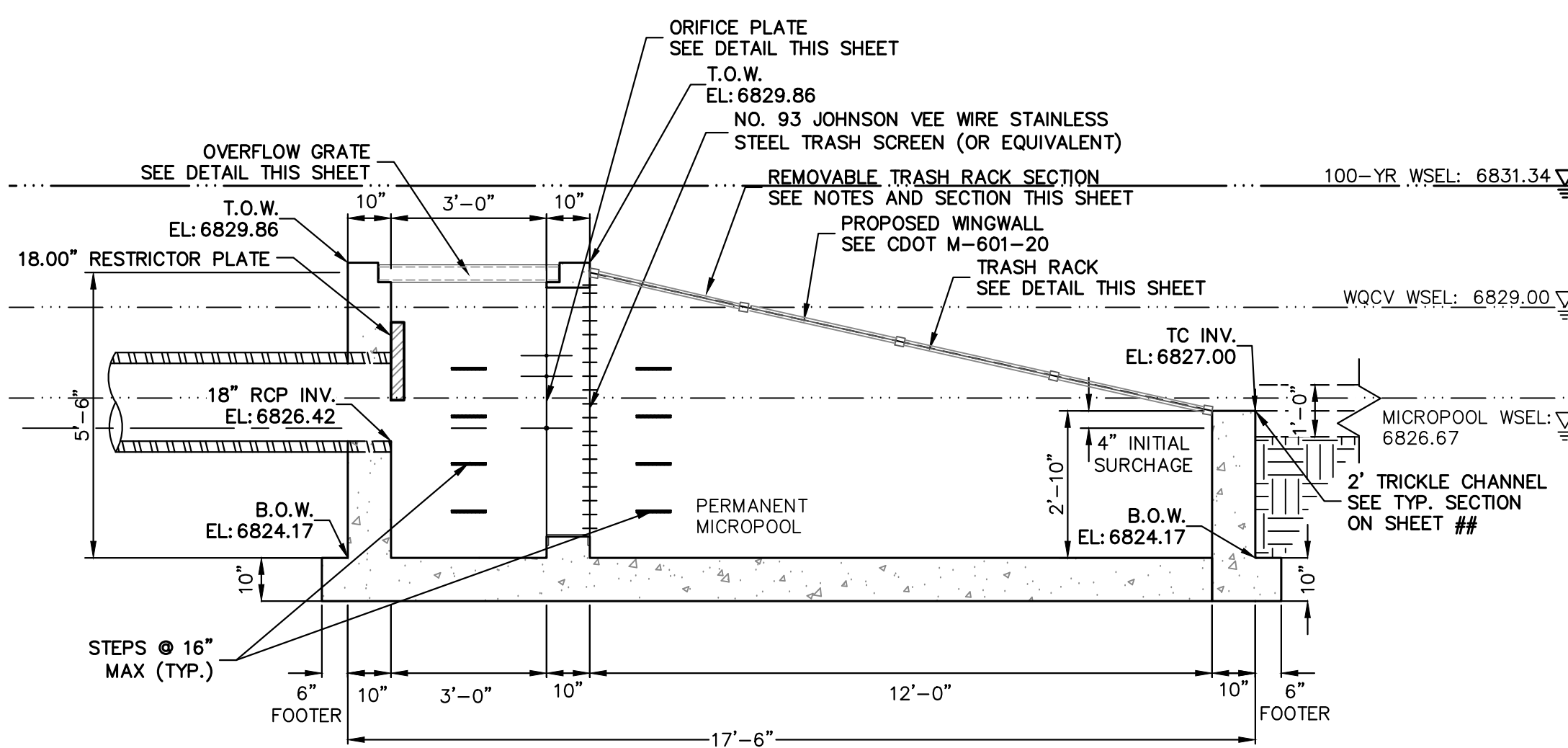




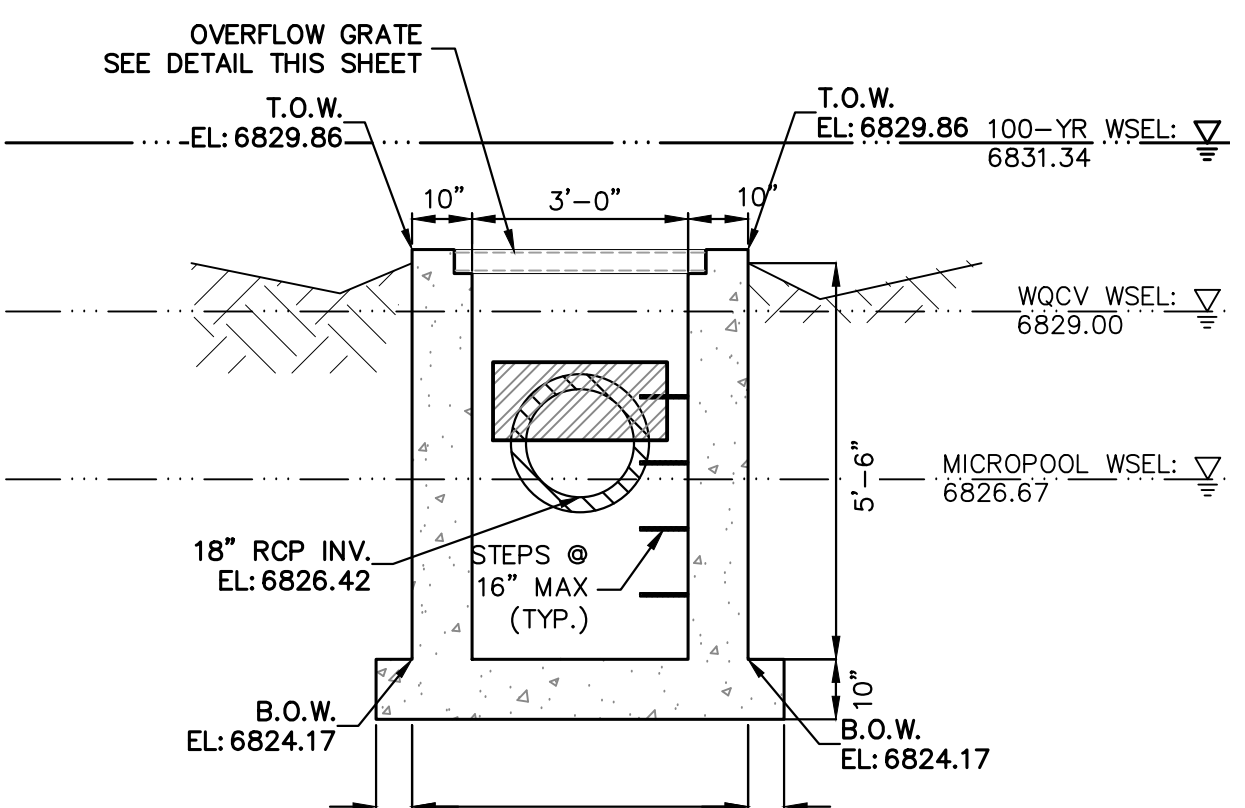




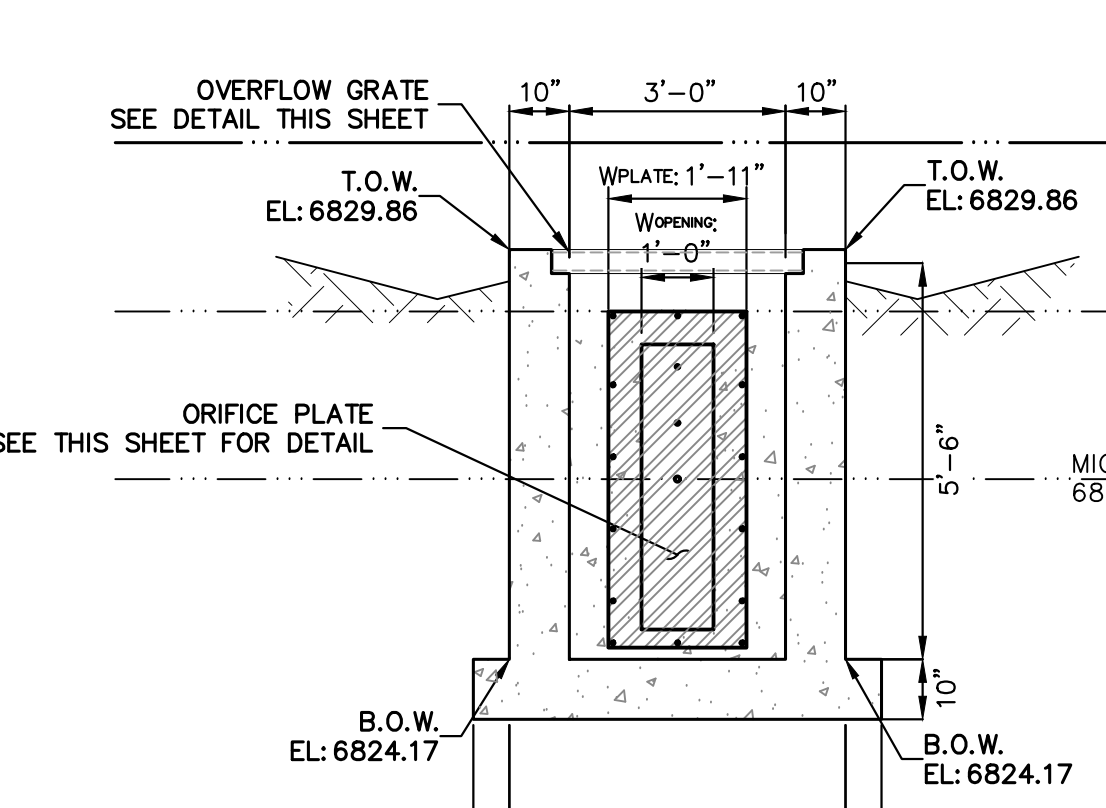
**POND OUTLET STRUCTURE PLAN**  
SCALE: 3/8"=1'



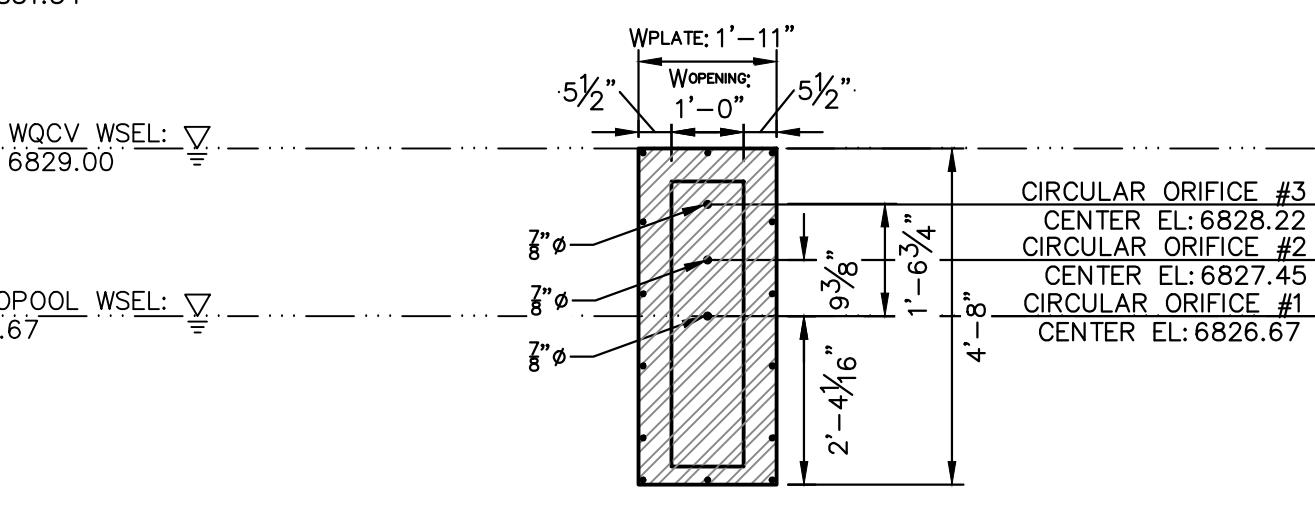
**POND OUTLET STRUCTURE PROFILE**  
SCALE: 3/8"=1'



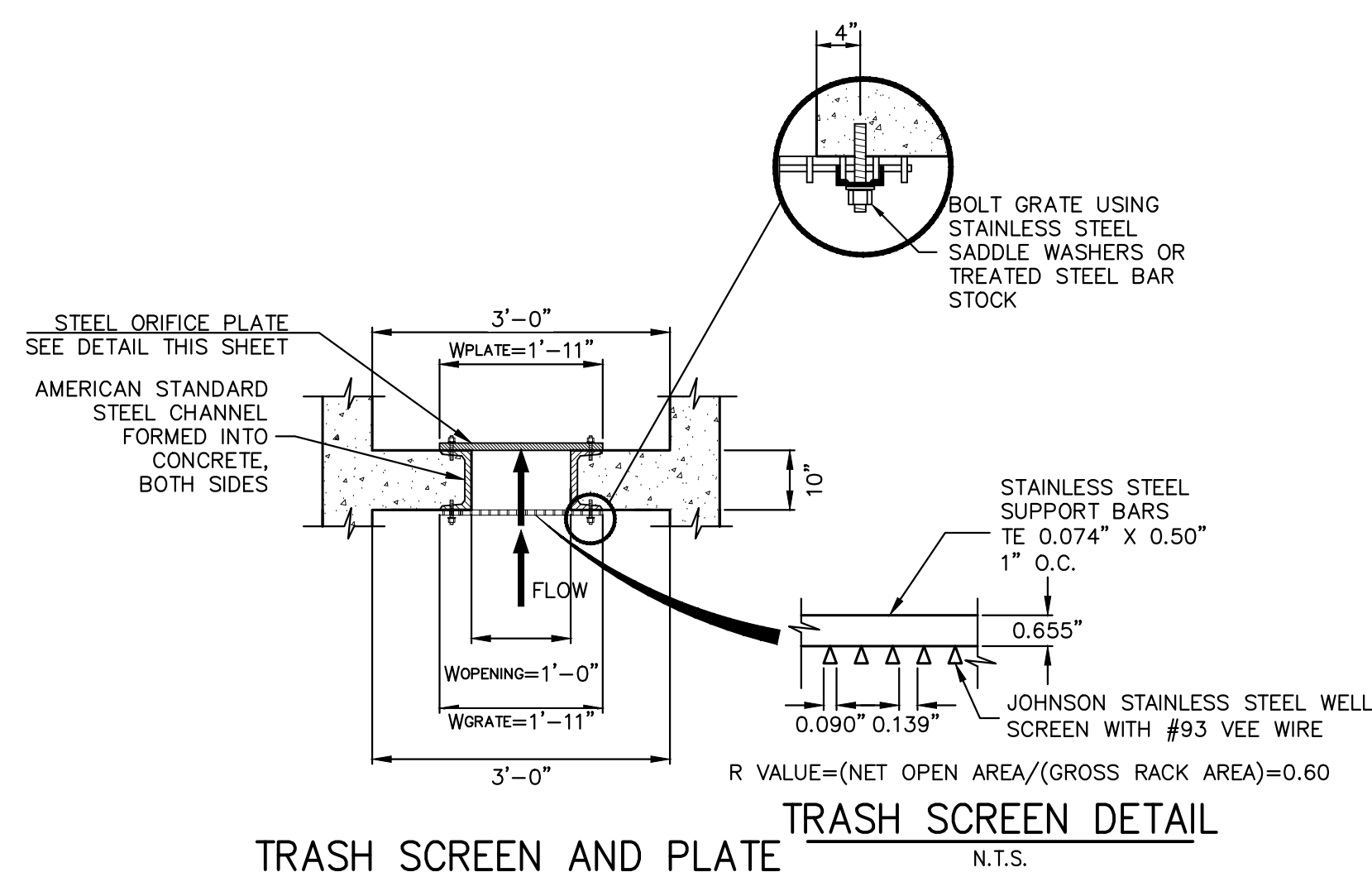
**A-A SECTION**  
SCALE: 3/8"=1'



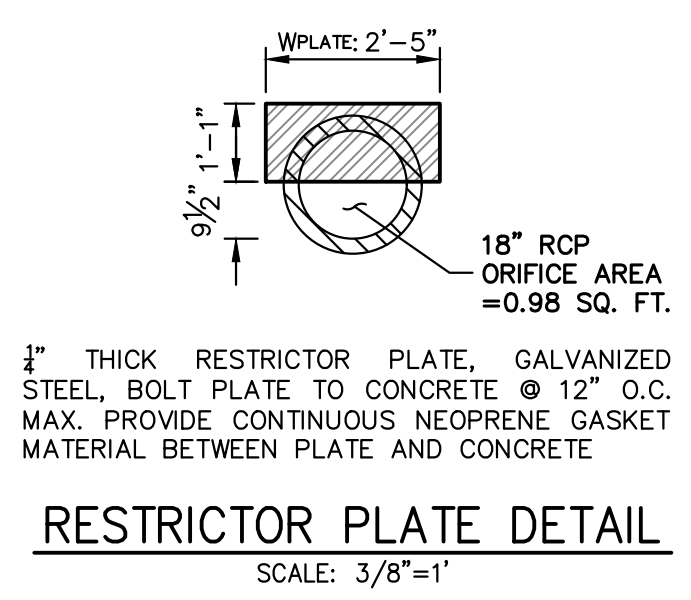
**B-B SECTION**  
SCALE: 3/8"=1'



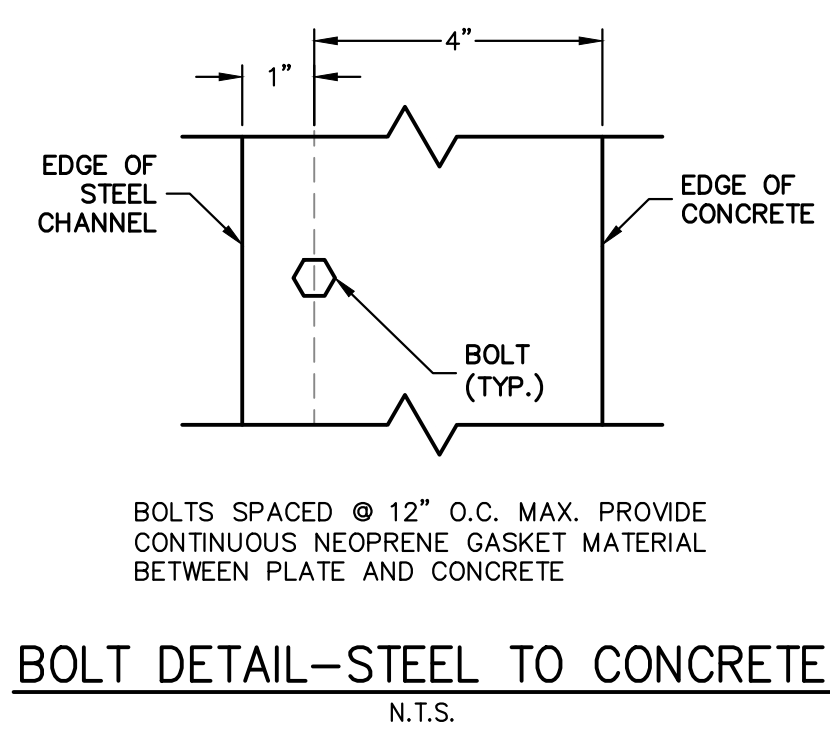
**ORIFICE PLATE DETAIL**  
SCALE: 3/8"=1'



**TRASH SCREEN AND PLATE DETAIL (PLAN)**  
N.T.S.



**RESTRICTOR PLATE DETAIL**  
SCALE: 3/8"=1'



**BOLT DETAIL-STEEL TO CONCRETE**  
N.T.S.



**ENGINEER'S STATEMENT**  
STANDARD DETAILS SHOWN WERE REVIEWED ONLY AS TO THEIR APPLICATION ON THIS PROJECT.  
BRYAN T. LAW, P.E.  
COLORADO P.E. 25043  
FOR AND ON BEHALF OF JR ENGINEERING

- OUTLET STRUCTURE PLATE AND GRADING 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.

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  
**LYR**  
1172 GREENLAND FOREST DRIVE  
MONUMENT, CO 80106  
SCOTT SMITH  
(719) 499-7764

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

No.	REVISION	BY	DATE

H-SCALE	3/8"=1'
V-SCALE	3/8"=1'
DATE	01/29/26
DESIGNED BY	GAG
DRAWN BY	TAU
CHECKED BY	

LAZY Y AND ROCKING J  
SUBDIVISION  
POND B OUTLET

SHEET 14 OF 16  
JOB NO. 25228.00

### GENERAL NOTES

- DIMENSIONS OF END SECTIONS MAY VARY SLIGHTLY FROM THOSE SHOWN ON THE TABLES DUE TO DIFFERENT MANUFACTURERS' CONFIGURATIONS.
- CONCRETE END SECTIONS SHALL BE FURNISHED WITH TONGUE OR GROOVE AS REQUIRED.
- DESIGN LENGTH OF PIPE OR SIDE DRAIN IS BASED ON LENGTH OF END SECTION SHOWN IN TABLE. ANY ADDITIONAL PIPE REQUIRED TO PROVIDE THE DESIGN LENGTH SHALL BE FURNISHED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.
- THE INSIDE CONFIGURATION AND THE JOINT OF CONCRETE END SECTION AND PIPE SHALL MATCH ON THE PLANS.
- END SECTIONS FOR CMP ARCH PIPE SHALL MATCH THE DIMENSIONS OF THE PIPE SHOWN ON THE PLANS.
- GALVANIZED TOE PLATE AS SHOWN IS REQUIRED ON END SECTIONS FOR CORRUGATED STEEL PIPE AND SHALL BE THE SAME THICKNESS AS END SECTIONS. TOE PLATE SHALL BE FIELD-BOLTED TO END SECTION WITH 3/8" IN GALVANIZED NUTS AND WASHERS.
- GALVANIZED STEEL SHALL CONFORM TO ASTM A 101, M 218 OR M 232.
- CONCRETE PIPE JOINT FASTENERS WHERE SHOWN ON PLANS, SHALL BE INSTALLED SO THAT A MINIMUM OF 15 LINEAR FEET OF THE OUTLET END OF THE PIPE ARE MECHANICALLY LOCKED TOGETHER. END SECTION LENGTHS WHEN USED SHALL BE IN ACCORDANCE WITH THE REQUIREMENT.
- CONNECTIONS OF METAL END SECTIONS TO PLASTIC PIPE SHALL BE APPROVED BY THE ENGINEER. PLASTIC END SECTIONS SHALL NOT BE USED.
- THE END SECTION STYLE, EITHER REGULAR OR SAFETY, SHALL BE AS SHOWN ON THE PLANS.
- AT THE OPTION OF THE CONTRACTOR AND APPROVAL OF THE CDDT PROJECT ENGINEER, REINFORCED CONCRETE END SECTIONS MAY BE MADE WITH SYNTHETIC FIBERS INSTEAD OF STEEL FOR PIPES 36 INCHES IN DIAMETER AND SMALLER, AND CONFORM TO ASTM M 96 AND SUBSECTION 601.03.

#### FLEXIBLE ROUND PIPE

PIPE DIA.	THICKNESS	A	B	H	L	W	T
12	0.064	6	6	6	21	24	34
18	0.064	8	10	6	31	36	46
24	0.064	10	13	6	41	48	58
30	0.079	12	16	6	51	60	70
36	0.079	14	19	9	60	72	84
42	0.109	16	22	11	69	84	106
48	0.109	18	27	12	78	90	112
54	0.109	18	30	12	84	102	124
60	0.109	18	33	12	87	114	136
66	0.109	18	36	12	87	120	142
72	0.109	18	39	12	87	126	154
78	0.109	18	42	12	87	132	164
84	0.109	18	45	12	87	138	170

#### CONCRETE JOINT FASTENER (TWO PER JOINT)

PIPE DIA.	F
18 - 30	5
36 - 42	6
48 - 60	7
72 - 84	9

#### REINFORCED CONCRETE CIRCULAR PIPE

PIPE DIA.	A	C	L	E
18	10	48	78	36
24	10	48	78	48
30	14	36	96	60
36	16	36	96	72
42	24	36	96	78
48	28	24	96	84
54	30	36	96	90
60	36	36	96	96
72	34	20	96	108

#### STEEL END SECTION FOR CONCRETE CIRCULAR PIPE

D	Z	(MIN)
18 - 24	12	
30 and 36	16	
42 and larger	24	

### GENERAL NOTES

- INLET TYPE C IS NOT HS-20 RATED AND SHALL NOT BE PLACED IN PAVED ROADWAYS. THIS INLET SHALL BE USED ONLY OUTSIDE PAVED ROADWAYS.
- CONCRETE SHALL BE CLASS B INLET AND SHALL NOT BE IN PLACE OR PRECAST.
- REINFORCING BARS SHALL BE GRADE 60, EPOXY COATED, AND DEFORMED #4, AND SHALL HAVE A MIN. 2 INCH CLEARANCE OUT OR BEND AROUND PIPE AS REQUIRED.
- CONCRETE SLOPE AND DITCH PAVING SHALL BE IN ACCORDANCE WITH SECTION 507. REINFORCED CONCRETE SLOPE PAVING SHALL BE 6" X 6" - W4 X W4.4 OR 6" X 6" - W2.1 X W2.1.
- STRUCTURAL STEEL FOR GRATES AND GRATE INSTALLATION HARDWARE SHALL BE GALVANIZED, AND SHALL BE IN ACCORDANCE WITH SUBSECTION 712.06.
- THE STANDARD INLET GRATES SHALL BE USED ON ALL TYPE C INLETS UNLESS CLOSE MESH INLET GRATES ARE SPECIFIED ON THE PLANS.
- CLOSE MESH GRATES ARE RECOMMENDED WHERE FOOT TRAFFIC OR BICYCLE ROUTES ARE IN CLOSE PROXIMITY TO GRATE. THIS GRATE IS NOT ADA COMPLIANT OR BICYCLE FRIENDLY AND SHALL NOT BE PLACED DIRECTLY IN SIDEWALKS, CROSSWALKS OR BIKE PATHS.
- STEPS SHALL BE PROVIDED WHEN INLET DIMENSION "H" IS EQUAL TO OR GREATER THAN 3 FEET - 6 INCHES AND SHALL CONFORM TO ASTM M 199.
- SEE STANDARD PLAN M-604-10 FOR REINFORCEMENT AROUND THE PIPE OPENING.
- ALL INLETS SHALL HAVE A 4 INCH DIAMETER MEDALLION WITH A "NO DUMPING DRAINS TO STREAM" MESSAGE ON IT. THE MEDALLION SHALL HAVE A FISH SYMBOL WITH A BLUE BACKGROUND. IT SHALL BE FIRMLY ATTACHED TO THE TOP OF THE INLET WITH A PERMANENT FASTENER.

#### STEEL GRATE QUANTITIES

NO. PIECES	DESCRIPTION	LENGTH PER FT. (LBS.)	WEIGHT PER FT. (LBS.)
4	S4 x 7.7 BEAM	41"	7.90
2	3/2" x 1/2" FLAT	26 1/2"	2.88
2	3" x 1/2" FLAT	26 1/2"	2.55

#### QUANTITIES FOR ONE INLET

H	CONCRETE (CU. YDS.)	STEEL (LBS.)	NO. STEPS REQ'D.
3'-0"	1.0	76	0
3'-6"	1.1	81	0
4'-0"	1.2	87	0
4'-6"	1.3	102	1
5'-0"	1.5	117	2
5'-6"	1.6	123	2
6'-0"	1.7	138	2
6'-6"	1.9	143	3
7'-0"	2.0	159	3
7'-6"	2.2	180	4
8'-0"	2.4	185	4
8'-6"	2.5	200	4
9'-0"	2.6	206	5
9'-6"	2.8	221	5
10'-0"	2.9	236	6
11'-0"	3.3	252	6

#### END SECTION AND CONNECTION DETAILS FOR ROUND AND ARCH METAL PIPES

#### CONCRETE JOINT FASTENER (TWO PER JOINT)

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PREPARED FOR: LVRJ GREENLAND FOREST DRIVE MONUMENT, CO 80106  
 PROJECT NO.: 25228-00  
 DATE: 01/29/26

**J.R. ENGINEERING**  
 A Westcon Company  
 Central 303-740-0888 • Colorado Springs 719-583-2593  
 Fort Collins 970-491-9888 • www.jrengineering.com

### GENERAL NOTES

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

#### TYPICAL BAR LAYOUT FOR CONCRETE HEADWALLS

#### HEADWALL FOR RIGID ROUND PIPE

#### HEADWALL FOR FLEXIBLE PIPE ARCH

EQUIV. CONCRETE	STEEL
54	212
60	235
66	260
72	285
78	310
84	335
90	360
96	385
102	410
108	435

#### HEADWALL FOR STRUCTURAL PLATE ARCH

EQUIV. CONCRETE	STEEL
66	212
75	235
84	260
93	285
102	310
111	335
120	360
129	385
138	410
147	435

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#### TYPICAL CULVERT LAYOUT

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84	260
93	285
102	310
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LAZY Y AND ROCKING J SUBDIVISION POND STANDARD DETAILS SHEET 15 OF 16 JOB NO. 25228-00

**c-BARS AND REINFORCING STEEL QUANTITY (EXCLUDE TOE WALL)**

L (MULTIPLE OF m)	k (FT)	≤ (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)		≤ (3.0 x m)		≤ (3.5 x m)			
		*REINF. LB./L.F.	*REINF. LB./L.F.	*REINF. LB./L.F.	*REINF. LB./L.F.	*REINF. LB./L.F.	*REINF. LB./L.F.	*REINF. LB./L.F.	*REINF. LB./L.F.	*REINF. LB./L.F.	*REINF. LB./L.F.	*REINF. LB./L.F.	*REINF. LB./L.F.	*REINF. LB./L.F.	*REINF. LB./L.F.	*REINF. LB./L.F.	*REINF. LB./L.F.	*REINF. LB./L.F.	*REINF. LB./L.F.	*REINF. LB./L.F.	
14	4	#4 10"	53.60	#5 10"	52.65	#5 10"	57.10	#5 10"	62.22	#5 10"	62.43	#5 10"	62.09	#5 10"	65.38	#5 10"	65.15	#5 10"	67.10	#5 10"	70.56
14	5	#4 10"	55.86	#5 10"	60.46	#5 10"	59.60	#5 10"	62.89	#5 10"	65.23	#5 10"	64.88	#5 10"	68.34	#5 10"	68.11	#5 10"	70.00	#5 10"	73.90
14	6	#5 10"	64.43	#6 10"	70.60	#6 10"	69.69	#6 10"	74.93	#6 10"	74.45	#6 10"	78.30	#6 10"	83.64	#6 10"	83.40	#6 10"	85.22	#6 10"	89.64
14	7	#5 10"	67.71	#6 10"	73.76	#6 10"	72.83	#6 10"	78.32	#6 10"	77.84	#6 10"	81.87	#6 10"	87.45	#6 10"	87.21	#6 10"	88.86	#6 10"	93.73
14	8	#5 10"	74.71	#6 10"	83.46	#6 10"	81.09	#6 10"	87.54	#6 10"	87.07	#6 10"	93.08	#6 10"	101.11	#6 10"	100.86	#6 10"	106.49	#6 10"	116.35
14	9	#5 10"	78.10	#6 10"	87.23	#6 10"	84.03	#6 10"	90.72	#6 10"	90.93	#6 10"	97.54	#6 10"	105.60	#6 10"	105.65	#6 10"	111.45	#6 10"	121.13
13	4	#4 10"	50.51	#5 10"	49.25	#5 10"	53.71	#5 10"	53.09	#5 10"	52.36	#5 10"	55.85	#5 10"	57.67	#5 10"	57.85	#5 10"	57.51	#5 10"	59.93
13	5	#4 10"	52.66	#5 10"	51.37	#5 10"	56.09	#5 10"	55.46	#5 10"	54.99	#5 10"	58.99	#5 10"	60.51	#5 10"	60.33	#5 10"	60.17	#5 10"	62.72
13	6	#4 10"	54.92	#5 10"	54.48	#5 10"	60.31	#5 10"	60.31	#5 10"	60.31	#5 10"	66.70	#5 10"	69.53	#5 10"	69.71	#5 10"	72.95	#5 10"	72.81
13	7	#4 10"	57.36	#5 10"	62.16	#5 10"	63.05	#5 10"	70.66	#5 10"	70.16	#5 10"	78.78	#5 10"	82.75	#5 10"	82.50	#5 10"	86.35	#5 10"	92.20
13	8	#5 10"	66.39	#6 10"	72.82	#6 10"	71.97	#6 10"	81.68	#6 10"	81.19	#6 10"	88.67	#6 10"	96.37	#6 10"	96.37	#6 10"	102.80	#6 10"	110.24
13	9	#5 10"	69.37	#6 10"	76.10	#6 10"	81.49	#6 10"	85.37	#6 10"	84.97	#6 10"	90.59	#6 10"	98.29	#6 10"	97.19	#6 10"	103.80	#6 10"	112.13
12	2	#4 10"	43.91	#4 10"	42.65	#4 10"	41.82	#4 10"	41.22	#4 10"	40.78	#4 10"	41.29	#4 10"	44.61	#4 10"	44.37	#4 10"	44.18	#4 10"	43.87
12	3	#4 10"	45.82	#4 10"	44.55	#4 10"	43.71	#4 10"	43.11	#4 10"	42.66	#4 10"	43.22	#4 10"	46.75	#4 10"	46.51	#4 10"	46.15	#4 10"	46.01
12	4	#4 10"	47.80	#4 10"	46.51	#4 10"	45.65	#4 10"	45.05	#4 10"	44.63	#4 10"	45.23	#4 10"	48.94	#4 10"	48.69	#4 10"	50.00	#4 10"	51.57
12	5	#4 10"	49.84	#4 10"	48.53	#4 10"	47.66	#4 10"	47.06	#4 10"	46.65	#4 10"	47.26	#4 10"	51.19	#4 10"	50.94	#4 10"	52.33	#4 10"	54.00
12	6	#4 10"	51.99	#4 10"	50.65	#4 10"	49.75	#4 10"	49.15	#4 10"	48.74	#4 10"	49.34	#4 10"	53.49	#4 10"	53.24	#4 10"	54.62	#4 10"	56.39
12	7	#4 10"	54.30	#4 10"	52.95	#4 10"	52.03	#4 10"	51.43	#4 10"	51.02	#4 10"	51.61	#4 10"	55.86	#4 10"	55.61	#4 10"	56.98	#4 10"	58.84
12	8	#5 10"	62.91	#5 10"	61.45	#5 10"	60.41	#5 10"	59.37	#5 10"	58.33	#5 10"	59.29	#5 10"	63.74	#5 10"	63.49	#5 10"	64.86	#5 10"	66.82
12	9	#5 10"	65.64	#5 10"	64.15	#5 10"	63.01	#5 10"	61.87	#5 10"	60.83	#5 10"	61.79	#5 10"	66.34	#5 10"	66.09	#5 10"	67.46	#5 10"	69.52
11	2	#4 10"	41.70	#4 10"	40.42	#4 10"	39.57	#4 10"	38.96	#4 10"	38.50	#4 10"	39.15	#4 10"	42.87	#4 10"	42.63	#4 10"	42.46	#4 10"	43.21
11	3	#4 10"	43.57	#4 10"	42.27	#4 10"	41.40	#4 10"	40.79	#4 10"	40.33	#4 10"	40.97	#4 10"	44.69	#4 10"	44.45	#4 10"	44.28	#4 10"	45.03
11	4	#4 10"	45.48	#4 10"	44.16	#4 10"	43.28	#4 10"	42.66	#4 10"	42.20	#4 10"	42.84	#4 10"	46.56	#4 10"	46.32	#4 10"	46.15	#4 10"	46.90
11	5	#4 10"	47.46	#4 10"	46.10	#4 10"	45.21	#4 10"	44.58	#4 10"	44.12	#4 10"	44.74	#4 10"	48.46	#4 10"	48.22	#4 10"	48.05	#4 10"	48.80
11	6	#4 10"	49.52	#4 10"	48.14	#4 10"	47.23	#4 10"	46.60	#4 10"	46.14	#4 10"	46.74	#4 10"	50.46	#4 10"	50.22	#4 10"	50.00	#4 10"	50.75
11	7	#4 10"	51.73	#4 10"	50.31	#4 10"	49.38	#4 10"	48.74	#4 10"	48.28	#4 10"	48.88	#4 10"	52.60	#4 10"	52.36	#4 10"	52.14	#4 10"	52.89
11	8	#4 10"	54.00	#4 10"	52.44	#4 10"	51.49	#4 10"	50.84	#4 10"	50.38	#4 10"	50.97	#4 10"	54.69	#4 10"	54.45	#4 10"	54.23	#4 10"	55.00
11	9	#4 10"	56.20	#4 10"	54.55	#4 10"	53.50	#4 10"	52.84	#4 10"	52.38	#4 10"	52.97	#4 10"	56.69	#4 10"	56.45	#4 10"	56.23	#4 10"	57.00
10	2	#4 10"	39.84	#4 10"	38.53	#4 10"	37.65	#4 10"	37.03	#4 10"	36.57	#4 10"	37.16	#4 10"	40.87	#4 10"	40.63	#4 10"	40.46	#4 10"	41.21
10	3	#4 10"	41.68	#4 10"	40.35	#4 10"	39.47	#4 10"	38.84	#4 10"	38.38	#4 10"	38.97	#4 10"	42.68	#4 10"	42.44	#4 10"	42.27	#4 10"	43.02
10	4	#4 10"	43.58	#4 10"	42.22	#4 10"	41.31	#4 10"	40.67	#4 10"	40.21	#4 10"	40.80	#4 10"	44.51	#4 10"	44.27	#4 10"	44.10	#4 10"	44.85
10	5	#4 10"	45.53	#4 10"	44.14	#4 10"	43.21	#4 10"	42.56	#4 10"	42.10	#4 10"	42.69	#4 10"	46.40	#4 10"	46.16	#4 10"	45.99	#4 10"	46.74
10	6	#4 10"	47.58	#4 10"	46.14	#4 10"	45.20	#4 10"	44.53	#4 10"	44.07	#4 10"	44.66	#4 10"	48.37	#4 10"	48.13	#4 10"	47.96	#4 10"	48.71
10	7	#4 10"	49.79	#4 10"	48.31	#4 10"	47.34	#4 10"	46.67	#4 10"	46.21	#4 10"	46.80	#4 10"	50.51	#4 10"	50.27	#4 10"	50.10	#4 10"	50.85
10	8	#4 10"	52.06	#4 10"	50.54	#4 10"	49.54	#4 10"	48.87	#4 10"	48.41	#4 10"	49.00	#4 10"	52.71	#4 10"	52.47	#4 10"	52.30	#4 10"	53.05
9	2	#4 10"	38.01	#4 10"	36.75	#4 10"	35.85	#4 10"	35.21	#4 10"	34.73	#4 10"	35.36	#4 10"	39.07	#4 10"	38.83	#4 10"	38.66	#4 10"	39.41
9	3	#4 10"	39.93	#4 10"	38.56	#4 10"	37.64	#4 10"	37.00	#4 10"	36.51	#4 10"	37.13	#4 10"	40.84	#4 10"	40.60	#4 10"	40.43	#4 10"	41.18
9	4	#4 10"	41.81	#4 10"	40.40	#4 10"	39.47	#4 10"	38.81	#4 10"	38.31	#4 10"	38.93	#4 10"	42.64	#4 10"	42.40	#4 10"	42.23	#4 10"	42.98
9	5	#4 10"	43.75	#4 10"	42.30	#4 10"	41.35	#4 10"	40.67	#4 10"	40.17	#4 10"	40.78	#4 10"	44.49	#4 10"	44.25	#4 10"	44.08	#4 10"	44.83
9	6	#4 10"	45.79	#4 10"	44.30	#4 10"	43.31	#4 10"	42.62	#4 10"	42.10	#4 10"	42.71	#4 10"	46.42	#4 10"	46.18	#4 10"	46.01	#4 10"	46.76
9	7	#4 10"	48.04	#4 10"	46.50	#4 10"	45.49	#4 10"	44.77	#4 10"	44.23	#4 10"	44.84	#4 10"	48.55	#4 10"	48.31	#4 10"	48.14	#4 10"	48.89
9	8	#4 10"	50.43	#4 10"	48.84	#4 10"	47.80	#4 10"	47.06	#4 10"	46.51	#4 10"	47.10	#4 10"	50.81	#4 10"	50.57	#4 10"	50.40	#4 10"	51.15
8	2	#4 10"	36.23	#4 10"	34.84	#4 10"	33.92	#4 10"	33.27	#4 10"	32.81	#4 10"	33.39	#4 10"	37.10	#4 10"	36.86	#4 10"	36.69	#4 10"	37.44
8	3	#4 10"	38.23	#4 10"	36.80	#4 10"	35.85	#4 10"	35.19	#4 10"	34.71	#4 10"	35.29	#4 10"	39.00	#4 10"	38.76	#4 10"	38.59	#4 10"	39.34
8	4	#4 10"	40.09	#4 10"	38.61	#4 10"	37.64	#4 10"	36.95	#4 10"	36.44	#4 10"	37.02	#4 10"	40.73	#4 10"	40.49	#4 10"	40.32	#4 10"	41.07
8	5	#4 10"	41.99	#4 10"	40.47	#4 10"	39.47	#4 10"	38.76	#4 10"	38.24	#4 10"	38.82	#4 10"	42.53	#4 10"	42.29	#4 10"	42.12	#4 10"	42.87
8	6	#4 10"	43.97	#4 10"	42.40	#4 10"	41.36	#4 10"	40.64	#4 10"	40.10	#4 10"	40.68	#4 10"	44.39	#4 10"	44.15	#4 10"	43.98	#4 10"	44.73
8	7	#4 10"	46.19	#4 10"	44.56	#4 10"	43.49	#4 10"	42.74	#4 10"	42.18	#4 10"	42.75	#4 10"	46.46	#4 10"	46.22	#4 10"	46.05	#4 10"	46.80
7	2	#4 10"	34.90	#4 10"	33.44	#4 10"	32.47	#4 10"	31.78	#4 10"	31.27	#4 10"	31.84	#4 10"	35.54	#4 10"	35.30	#4 10"	35.13	#4 10"	35.88
7	3	#4 10"	36.75	#4 10"	35.23	#4 10"	34.23	#4 10"	33.53	#4 10"	33.00	#4 10"	33.59	#4 10"	37.29	#4 10"	37.05	#4 10"	36.88	#4 10"	37.63
7	4	#4 10"	38.59	#4 10"	37.04	#4 10"	36.01	#4 10"	35.29	#4 10"	34.75	#4 10"	35.33	#4 10"	39.04	#4 10"	38.80	#4 10"	38.63	#4 10"	39.38
7	5																				