

GENERAL CONSTRUCTION NOTES

- | Channel Lining Determination | | | | | |
|------------------------------|--------------|----------|-----------------|----------|-----------------|
| Calculated Values | | | P300 Max Values | | |
| Section | Shear Stress | Velocity | Shear Stress | Velocity | Lining Required |
| A-A | 1.51 | 5.79 | 3 | 9 | P300 |
| B-B | 0.83 | 3.92 | 3 | 9 | NONE |
| C-C | 1.12 | 3.33 | 3 | 9 | NONE |
| D-D | 0.95 | 3.91 | 3 | 9 | NONE |
| E-E | 2.25 | 4.44 | 3 | 9 | NONE |
| F-F | 3.71 | 7.56 | 3 | 9 | TMAX |
| G-G | 4.61 | 6.86 | 3 | 9 | TMAX |
| H-H | 3.75 | 7.75 | 3 | 9 | TMAX |
| I-I | 6.09 | 8.90 | 3 | 9 | TMAX |
| SECTION A1 | 3.06 | 6.10 | 3 | 9 | TMAX |
| SECTION A2 | 2.27 | 5.23 | 3 | 9 | P300 |
| SECTION B | 2.19 | 5.24 | 3 | 9 | P300 |
| SECTION C | 1.42 | 4.14 | 3 | 9 | P300 |
| SECTION D | 2.32 | 5.25 | 3 | 9 | P300 |
| SECTION E | 2.71 | 5.78 | 3 | 9 | P300 |

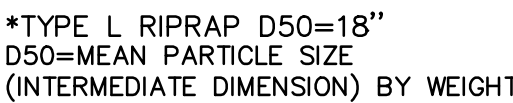
CHANNEL LININGS BY ROADWAY/STATION			
ROADWAY SWALES	START STATION	END STATION	LINING
RUBBLE DRIVE	12+89.60	47+00.00	P300
RUBBLE DRIVE	47+00.00	END OF SWALE	TMAX
GIMME WAY	FULL ROAD	FULL ROAD	P300
STABLEFORD TERRACE	FULL ROAD	FULL ROAD	P300
BUNKER TRAIL	FULL ROAD	FULL ROAD	P300
FRINGE PLACE	FULL ROAD	FULL ROAD	P300

NOTES:

 - THE TABLES ABOVE SHOW A SUMMARY OF THE CHANNEL LINING REQUIREMENTS WITHIN NATURAL TERTIARY CHANNELS AND ROADSIDE SWALES BASED ON COMPUTATIONS OF SHEAR STRESS AND VELOCITY FOR THE MAJOR STORM EVENTS (100-YEAR) AT THE RESPECTIVE SECTIONS PER THE FINAL DRAINAGE REPORT.
 - SEE THE FINAL GEC PLANS FOR CHANNEL LOCATION CALLOUTS.

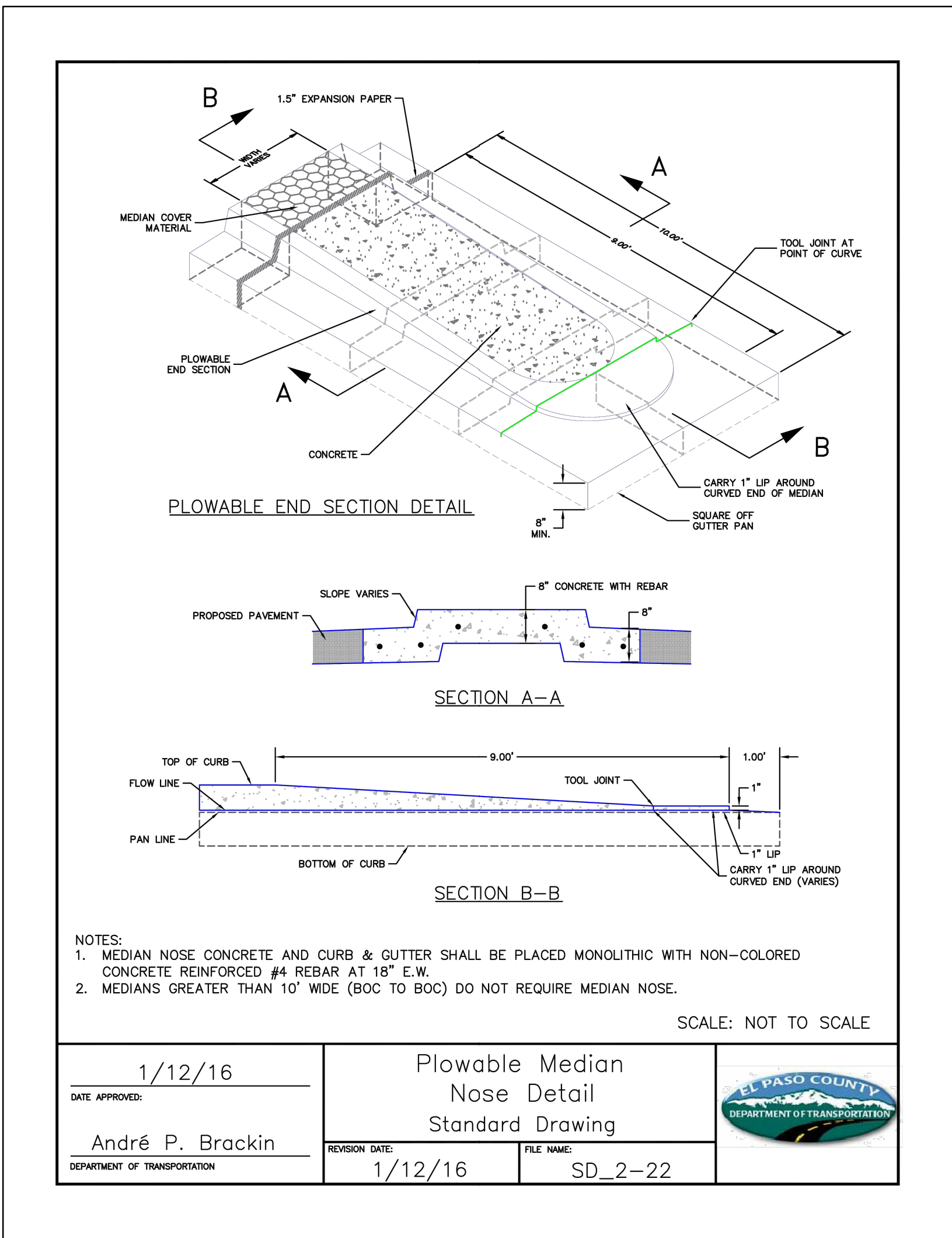
A	DEFLECTION ANGLE
Ø	DIAMETER
AASTHO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ABC	ASPHALT BASE COURSE
ABD	ABANDONED
AC	ACRE
ADA	THE AMERICANS WITH DISABILITIES ACT
ASPH	ASPHALT
ASSY	ASSEMBLY
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
BFE	BASE FLOOD ELEVATION
BLDG	BUILDING
BOULEV	BOULEVARD
BM	BENCH MARK
BND	BOUNDARY
BOP	BOTTOM OF POND
BW	BOTTOM OF WALL
CAG	CURB AND GUTTER
CA	COARSE AGGREGATE
CATV	CABLE TELEVISION
CB	CHORD BEARING/CATCH BASIN
CFS	CUBIC FEET PER SECOND
CIP	CAST IRON PIPE
CL	CENTER LINE
CM	CORRUGATED METAL PIPE
COMP	COMPOSITE
CONC	CONCRETE
CONST	CONSTRUCT OR CONSTRUCTION
CSP	CORRUGATED STEEL PIPE
CSU	COLORADO SPRINGS UTILITIES
CT	COURT
CTR	CENTER
CU	COPPER
CY	CUBIC YARD
DBL	DOUBLE
DEG	DEGREE
DET	DETAIL
DEPT	DEPARTMENT
DIM	DIMENSION
DIP	DUCTILE IRON PIPE
DOT	DEPARTMENT OF TRANSPORTATION
DWG	DRAWING
E	EAST/EASTING
EL	ELEVATION
ELEC	ELECTRIC
EOG	EDGE OF GUTTER
EOP	EDGE OF PAVEMENT
ESMT	EASEMENT
EW	ENDWALL
EX	EXISTING
FD	FRENCH DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FE	FLANGE ELEVATION
FES	FLARED END SECTION
FF	FINISHED FLOOR
FG	FINISHED GRADE
FH	FIRE HYDRANT

FHWA	FEDERAL HIGHWAY ADMINISTRATION
FL	FLOW LINE
FLCS	FIBER OPTICS CABLE
FT	FOOT OR FEET
GB	GRADE BREAK
GAL	GALLON
HDPE	HIGH DENSITY POLYETHYLENE
HC RAMP	HIGH/CAP RAMP
HW	HEADWALL
INVERT	INVERT
KM	KILOMETER
L	LENGTH
LF	LINEAR FEET
M	METER
MIN	MINIMUM
MISC	MISCELLANEOUS
MAINT	MAINTENANCE
MAX	MAXIMUM
MH	MANHOLE
MP	MIDPOINT
N	NORTH/NORTHING
NO	NUMBER
OC	ON CENTER
OH	OVERHEAD
PB	PUBLIC
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PCR	POINT OF CURB RETURN
PI	POINT OF INTERSECTION
PIE	PUBLIC IMPROVEMENT ESMT
PT	POINT OF TANGENCY
PRC	PROPOSED
PRC	POINT OF REVERSE CURVATURE
PRV	PRESSURE REDUCING VALVE
PRV	PUBLIC
PUAE	PUBLIC UTILITY AND ACCESS ESMT
PUADE	PUBLIC UTILITY, ACCESS AND DRAINAGE ESMT
PVC	POLYVINYL CHLORIDE
R	RADIUS
REC	RECEPTION
RCBC	REINFORCED CONCRETE BOX CULVERT
S	SOUTH
SHT	SHEET
SQ	SQUARE
SW	SPILLWAY
TP	TOP BACK OF CURB
TC	TRICKLE CHANNEL
TP	TOP OF POND
TW	TOP OF WALL
Typ	TYPICAL
UG	UNDERGROUND
VERT	VERTICAL
W	WEST
WW	WASTEWATER
WWF	WELDED WIRE FABRIC
W	WITH
WO	WITHOUT
YD	YARD



1. SOIL RIPRAP DETAILS ARE APPLICABLE TO SLOPED AREAS REFER TO THE SITE PLAN ACTUAL LOCATION AND LIMITS.
2. MIX UNIFORMLY 65% RIPRAP BY VOLUME WITH 35% OF APPROVED SOIL BY VOLUME PRIOR TO PLACEMENT.
3. PLACE STONE -SOIL MIX TO RESULT IN SECURELY INTERLOCKED ROCK AT THE DESIGN THICKNESS AND GRADE. COMPACT AND LEVEL TO ELIMINATE ALL VOIDS AND ROCKS PROJECTING ABOVE DESIGN RIPRAP TOP GRADE.
4. CRIMP OR TACKIFY MULCH OR USE APPROVED HYDROMULCH AS CALLED FOR IN THE PLANS AND SPECIFICATIONS.
5. ROCK SHALL BE HARD, DURABLE, ANGULAR IN SHAPE, AND FREE FROM CRACKS, FERTURBIDEN, SHALES, AND ORGANIC MATTER.
6. NEITHER BREADTH NOR THICKNESS OF A SINGLE STONE SHOULD BE LESS THAN ONE-THIRD ITS LENGTH, AND ROUNDED STONE SHOULD BE AVOIDED.
7. THE ROCK SHOULD SUSTAIN A LOSS OF NOT MORE THAN 40% AFTER 500 REVOLUTIONS IN AN ABRASION TEST (LOS ANGELES MACHINEASTM C-155-69) AND SHOULD SUSTAIN A LOSS OF NOT MORE THAN 10% AFTER 12 CYCLES OF FREEZING AND THAWING (AASHTO TEST 103 FOR LEDGE ROCK PROCEDURE A).
8. ROCK HAVING A MINIMUM SPECIFIC GRAVITY OF 2.65 IS PREFERRED; HOWEVER, IN NO CASE SHOULD ROCK HAVE A SPECIFIC GRAVITY LESS THAN 2.50.

TYPE VL RIPRAP		TYPE M RIPRAP	
INTERMEDIATE ROCK DIMENSION (IN.)	PERCENT PASSING (%)	INTERMEDIATE ROCK DIMENSION (IN.)	PERCENT PASSING (%)
12	70-100	21	70-100
9	50-70	18	50-70
6	35-50	12	35-50
2	2-10	4	2-10



LEGEND

	EXISTING	PROPOSED
MATCH LINE		
FILING LINE		
SECTION LINE		
PROPERTY LINE		
EASEMENT LINE		
RIGHT OF WAY		
CENTERLINE		
CHAIN LINK FENCE		
WOODEN FENCE		
ROD IRON FENCE		
GUARDRAIL		
CABLE TV		
U.G. ELECTRIC		
OVERHEAD ELECTRIC		
FIBER OPTIC		
GAS MAIN		
SANITARY SEWER		
STORM DRAIN		
TELEPHONE		
WATER MAIN		
SWALE		
TRAIL		
CURB & GUTTER		
DRAINAGE BASIN		
INDEX CONTOUR		
INTER. CONTOUR		
100-YR FLOODPLAIN		
FLOODWAY		
EDGE OF WETLANDS		
DRAINAGE	EXISTING	PROPOSED
DRAINAGE BASIN		
BASIN TAG		
DESIGN POINT		

STORM SEWER

	EXISTING	PROPOSED
MANHOLE		
STORM INLET		
FLARED END SECTION		
RIPRAP		

SANITARY SEWER

CLEAN OUT		
MANHOLE		
PLUG		

WATER

FIRE HYDRANT		
FIRE DEPT. CONNECTION		
GATE VALVE		
MANHOLE		
METER		
TEE		
REDUCER		

DRY UTILITIES

ELECTRIC METER		SIGN
ELECTRIC PEDESTAL		BOLLARD
ELECTRICAL CABINET		ACCESSIBLE PARKING
ELECTRIC VAULT		
FIBER OPTIC PULL BOX		
FIBER OPTIC MANHOLE		
FIBER OPTIC PEDESTAL		
FIBER OPTIC SIGN		
FIBER OPTIC VAULT		
GAS METER		
GAS SIGN		
GAS VAULT		
TELEPHONE CABINET		
TELEPHONE MANHOLE		
TELEPHONE SIGNAL/MAST		
TELEPHONE SIGN		
TELEPHONE PEDESTAL		
TRANSFORMER		
LIGHT POLE		
FIBER OPTIC VAULT		

MISCELLANEOUS

SIGN
BOLLARD
ACCESSIBLE PARKING

NO.	DATE	BY	REVISION DESCRIPTION



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1975 RESEARCH PARKWAY SUITE 160
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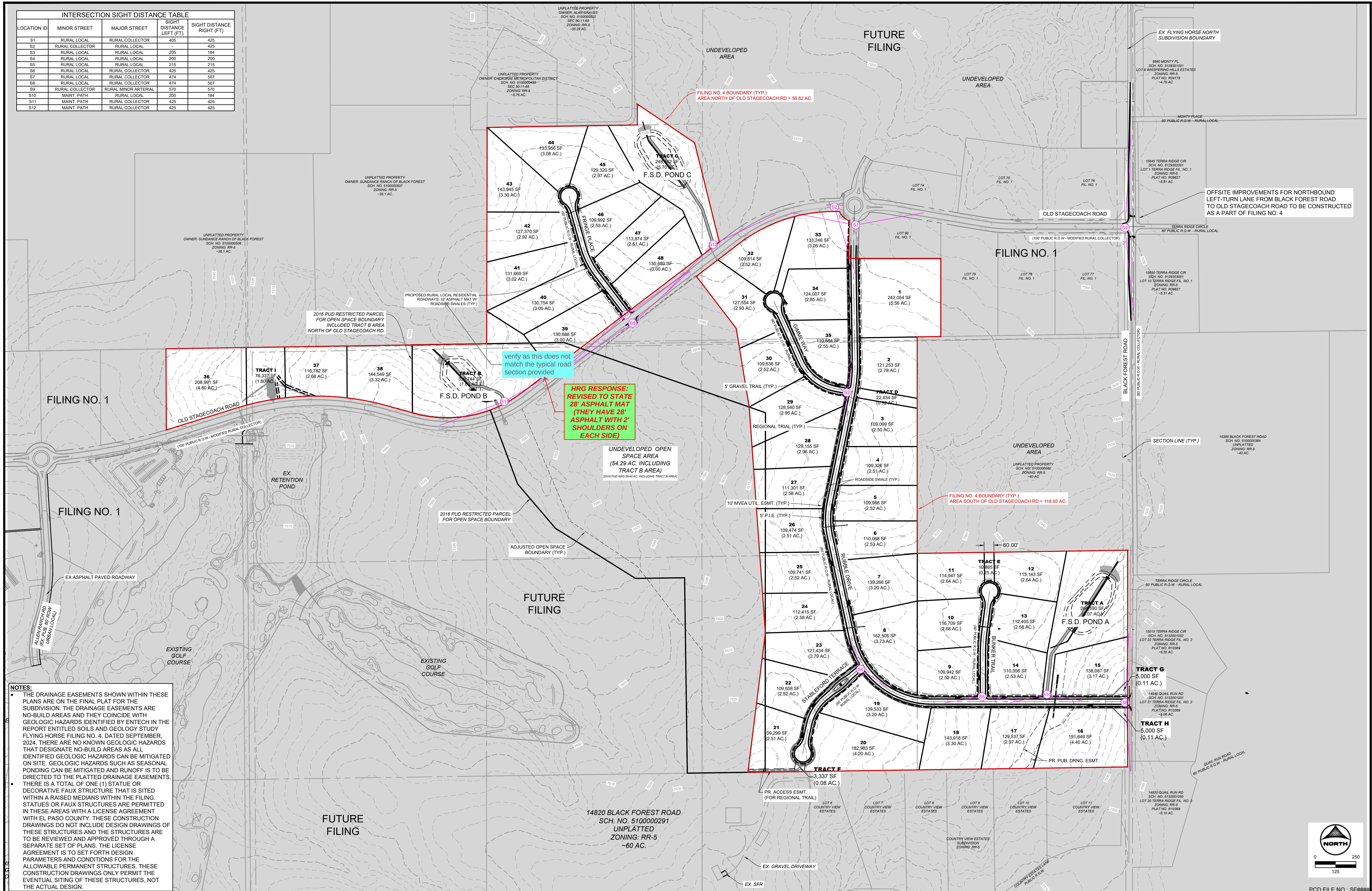
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COVER & LEGEND

LEGEND

SHEET	
LG	

INTERSECTION SIGHT DISTANCE TABLE				
LOCATION ID	MINOR STREET	MAJOR STREET	SIGHT DISTANCE LEFT (FT)	SIGHT DISTANCE RIGHT (FT)
S1	RURAL LOCAL	RURAL COLLECTOR	405	425
S2	RURAL COLLECTOR	RURAL LOCAL	-	425
S3	RURAL LOCAL	RURAL LOCAL	205	184
S4	RURAL LOCAL	RURAL LOCAL	200	200
S5	RURAL LOCAL	RURAL LOCAL	216	215
S6	RURAL LOCAL	RURAL COLLECTOR	425	425
S7	RURAL LOCAL	RURAL COLLECTOR	474	507
S8	RURAL LOCAL	RURAL COLLECTOR	474	507
S9	MAINT. PATH	RURAL MINOR ARTERIAL	576	576
S10	MAINT. PATH	RURAL LOCAL	200	184
S11	MAINT. PATH	RURAL COLLECTOR	425	425
S12	MAINT. PATH	RURAL COLLECTOR	425	425



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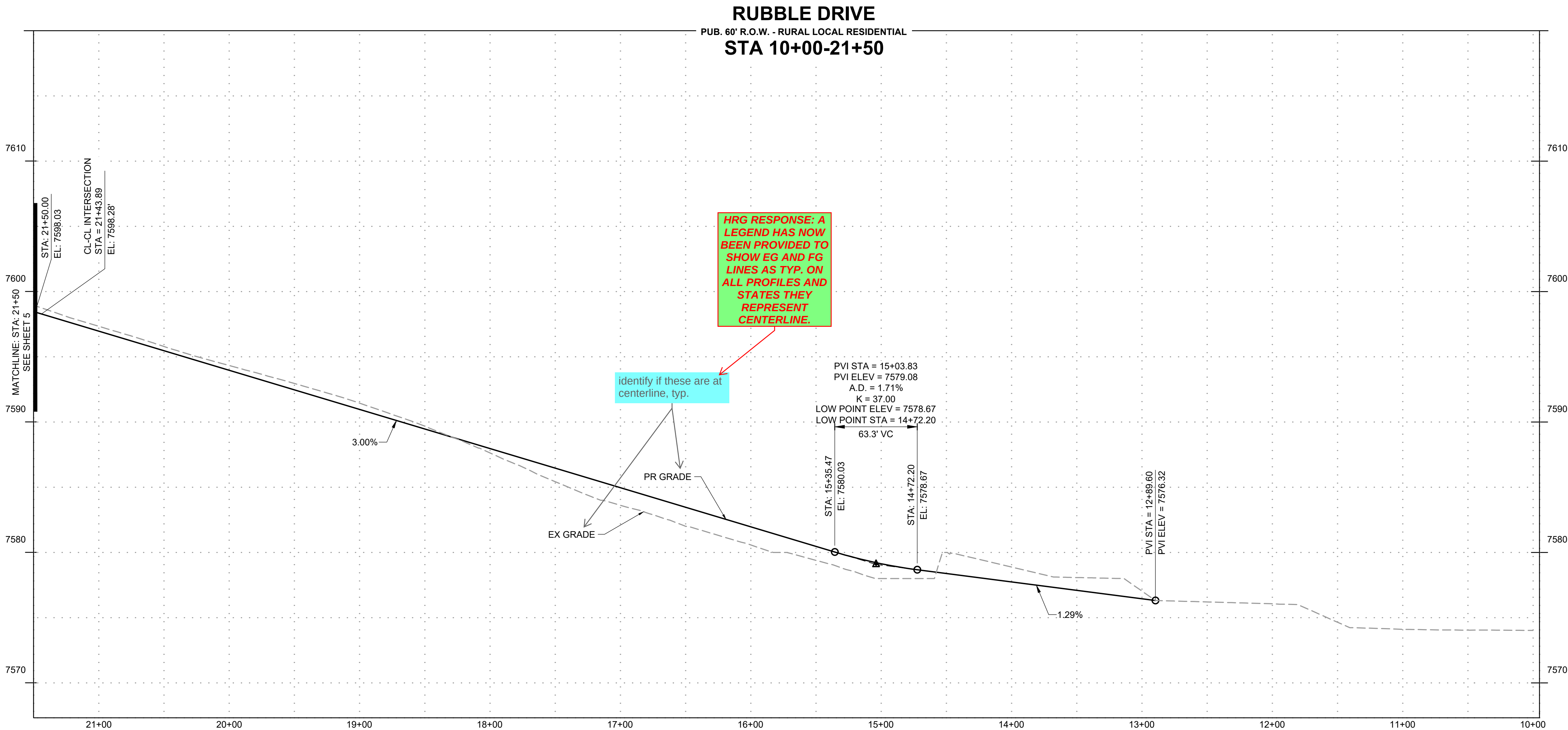
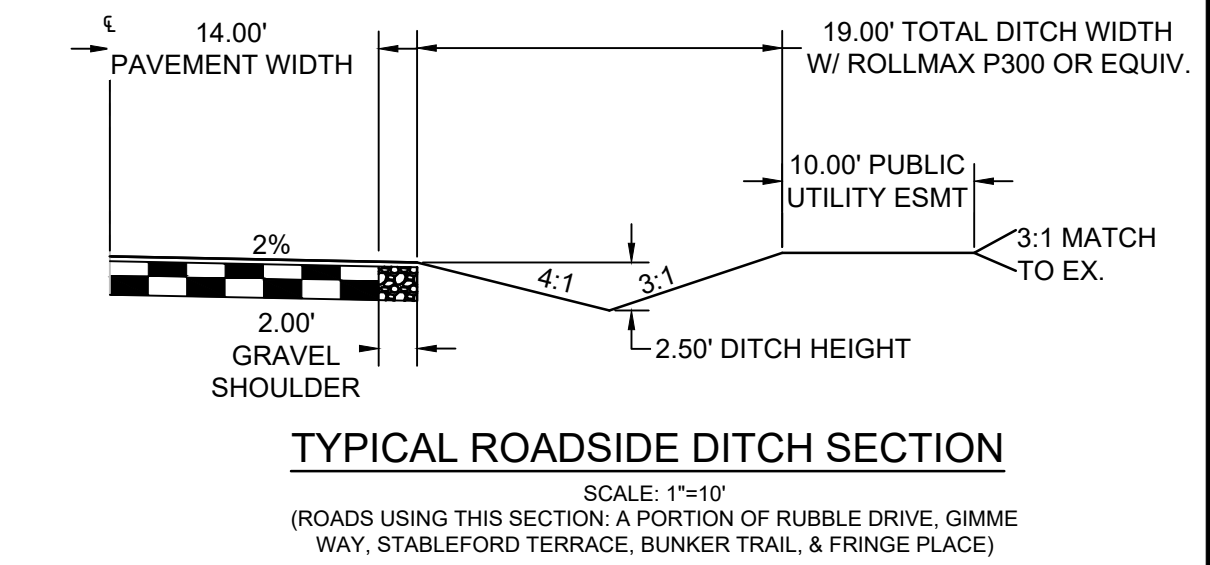
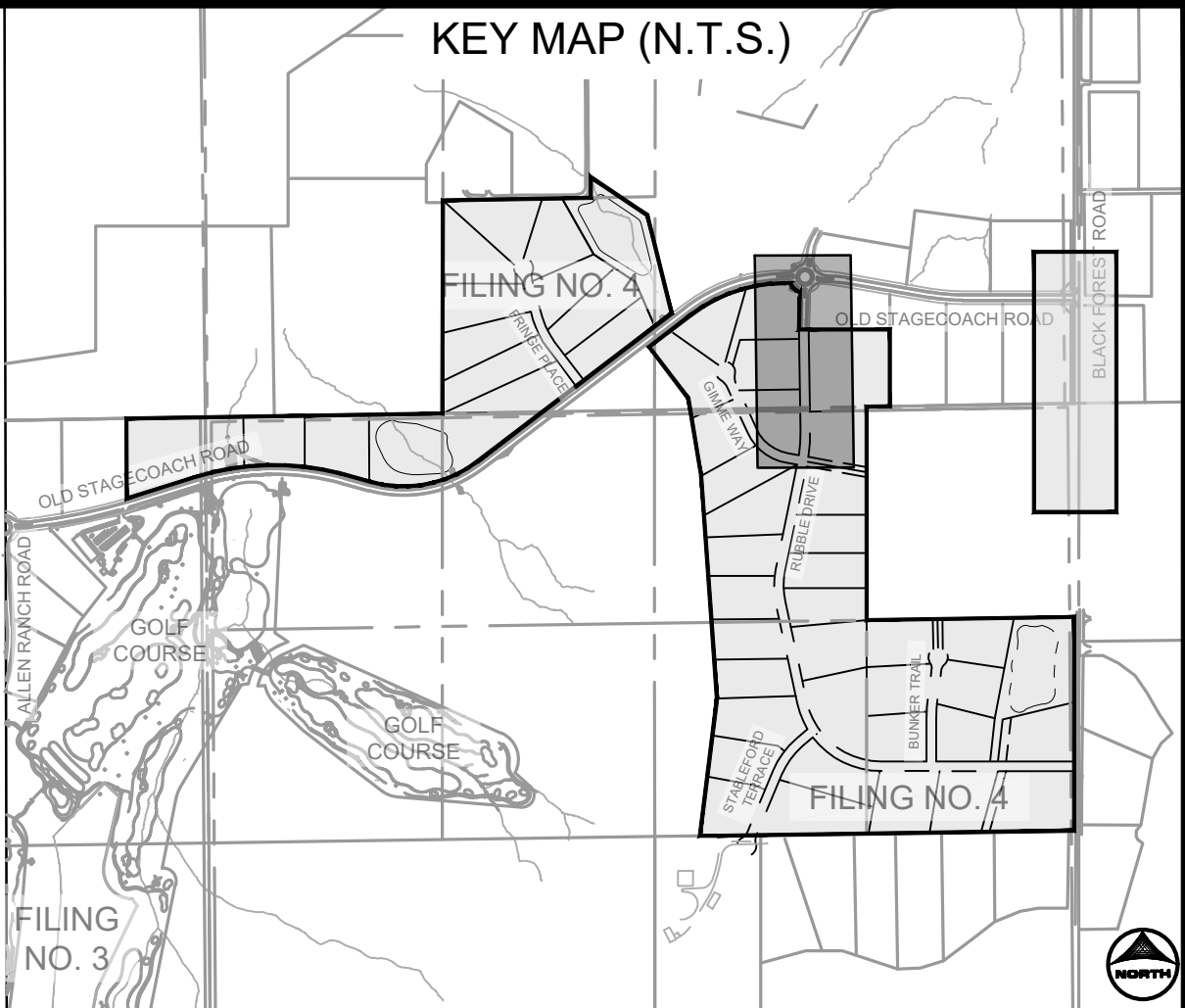
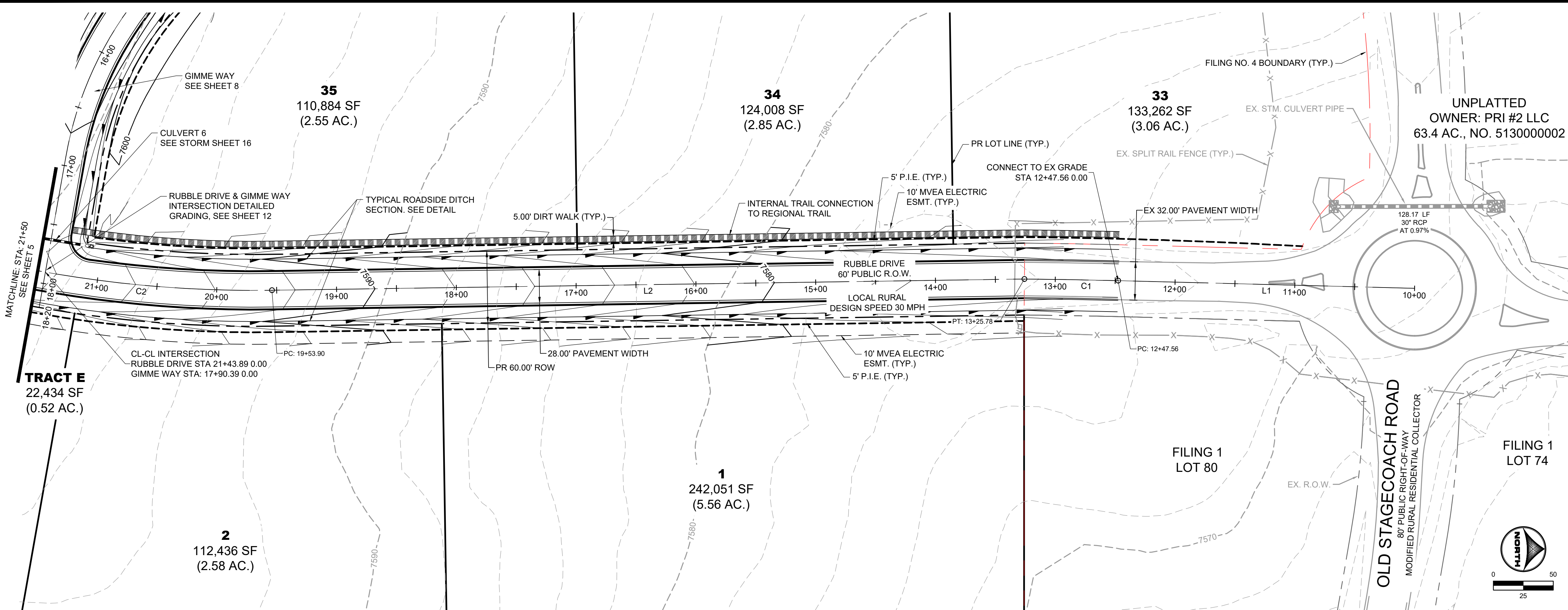


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CONSTRUCTION DRAWINGS
OVERALL SITE PLAN

HEET SP	3
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RUBBLE DRIVE					
TAG NO.	RADIUS	LENGTH	LINE/CHORD DIRECTION	BEG. NORTHING/EASTING	END NORTHING/EASTING
L1		247.56'	S1° 28' 14.72"W	N:447894.06, E:226705.73	N:447646.59, E:226699.37
C1	5000.00'	78.22'	S1° 01' 21.23"W	N:447646.59, E:226699.37	N:447568.38, E:226697.98
L2		628.12'	S0° 51' 28.87"E	N:447568.38, E:226697.98	N:446940.33, E:226707.38
C2	1000.00'	217.67'	S5° 22' 39.75"W	N:446940.33, E:226707.38	N:446724.04, E:226687.02
L3		664.39'	S11° 36' 48.37"W	N:446724.04, E:226687.02	N:446073.25, E:226553.27
C3	500.00'	207.42'	S0° 16' 15.67"E	N:446073.25, E:226553.27	N:445867.31, E:226554.25
L4		634.05'	S12° 09' 19.70"E	N:445867.31, E:226554.25	N:445247.48, E:226687.76
C4	500.00'	186.79'	S22° 51' 28.49"E	N:445247.48, E:226687.76	N:445076.35, E:226759.90
C5	500.00'	492.40'	S61° 46' 21.57"E	N:445076.35, E:226759.90	N:444852.76, E:227176.42
L5		315.35'	S89° 59' 05.88"E	N:444852.76, E:227176.42	N:444852.68, E:227491.77
L6		910.59'	S89° 59' 05.88"E	N:444852.68, E:227491.77	N:444852.44, E:228402.36
L7		24.86'	S89° 59' 05.88"E	N:444852.44, E:228402.36	N:444852.43, E:228427.22

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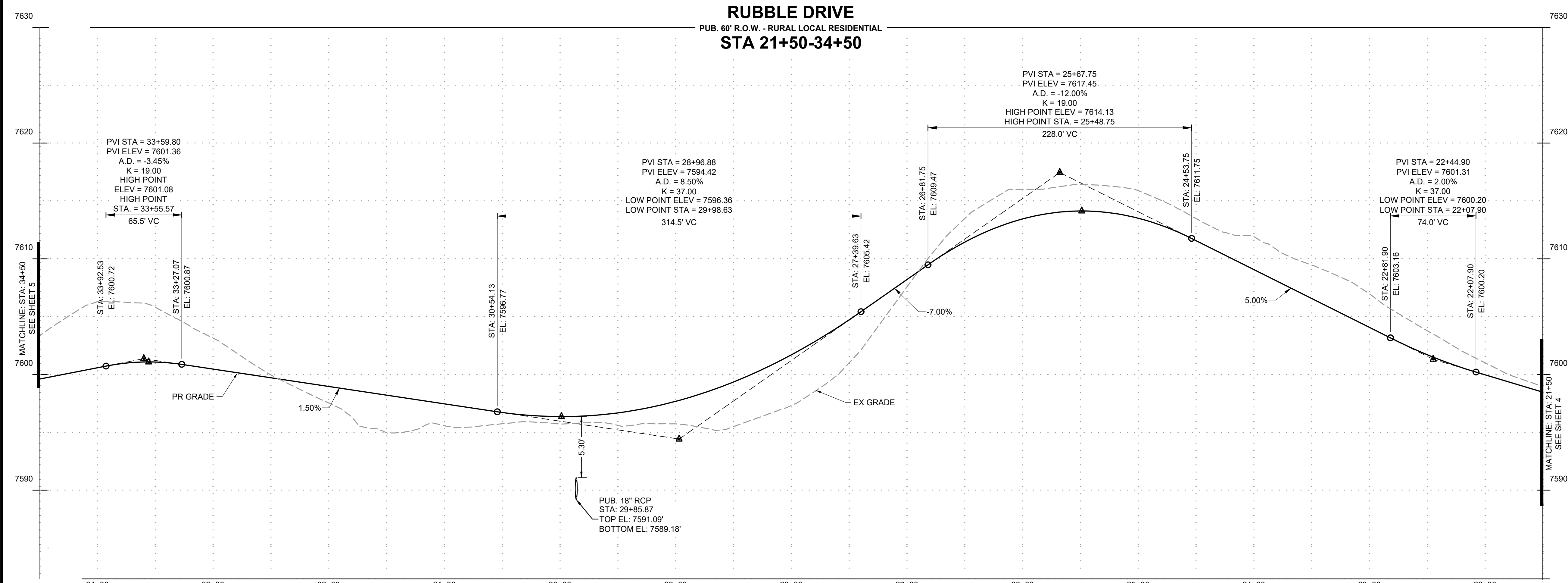
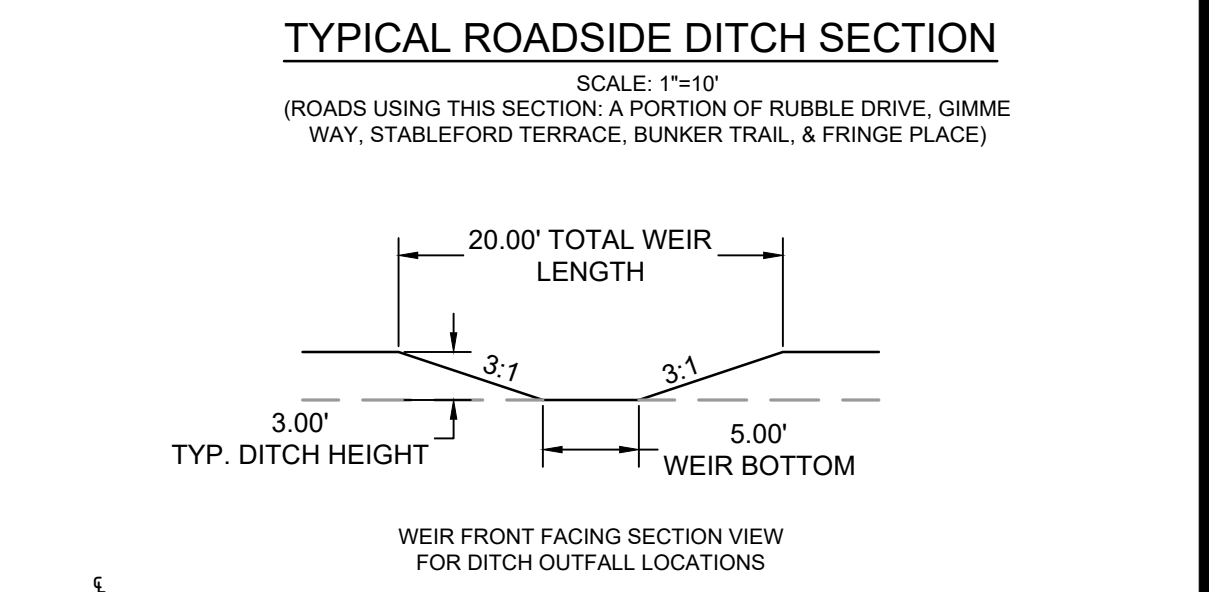
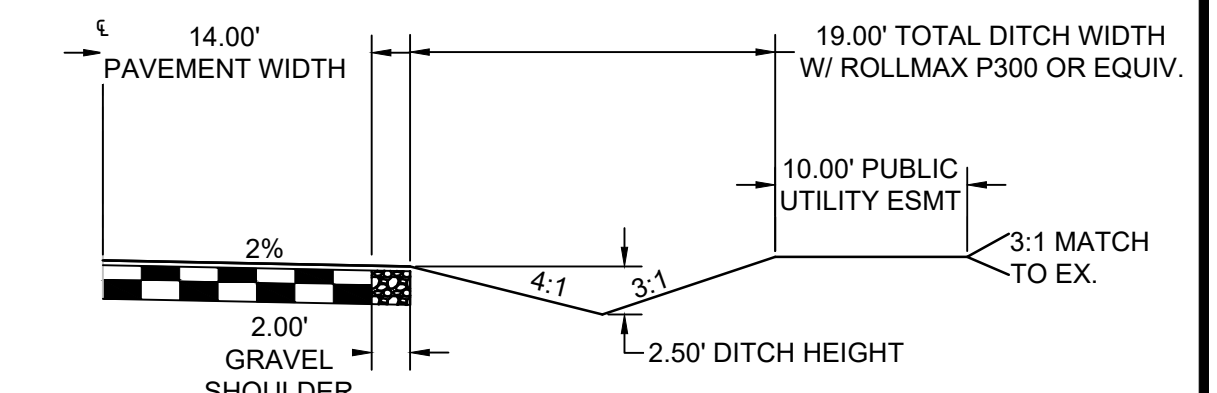
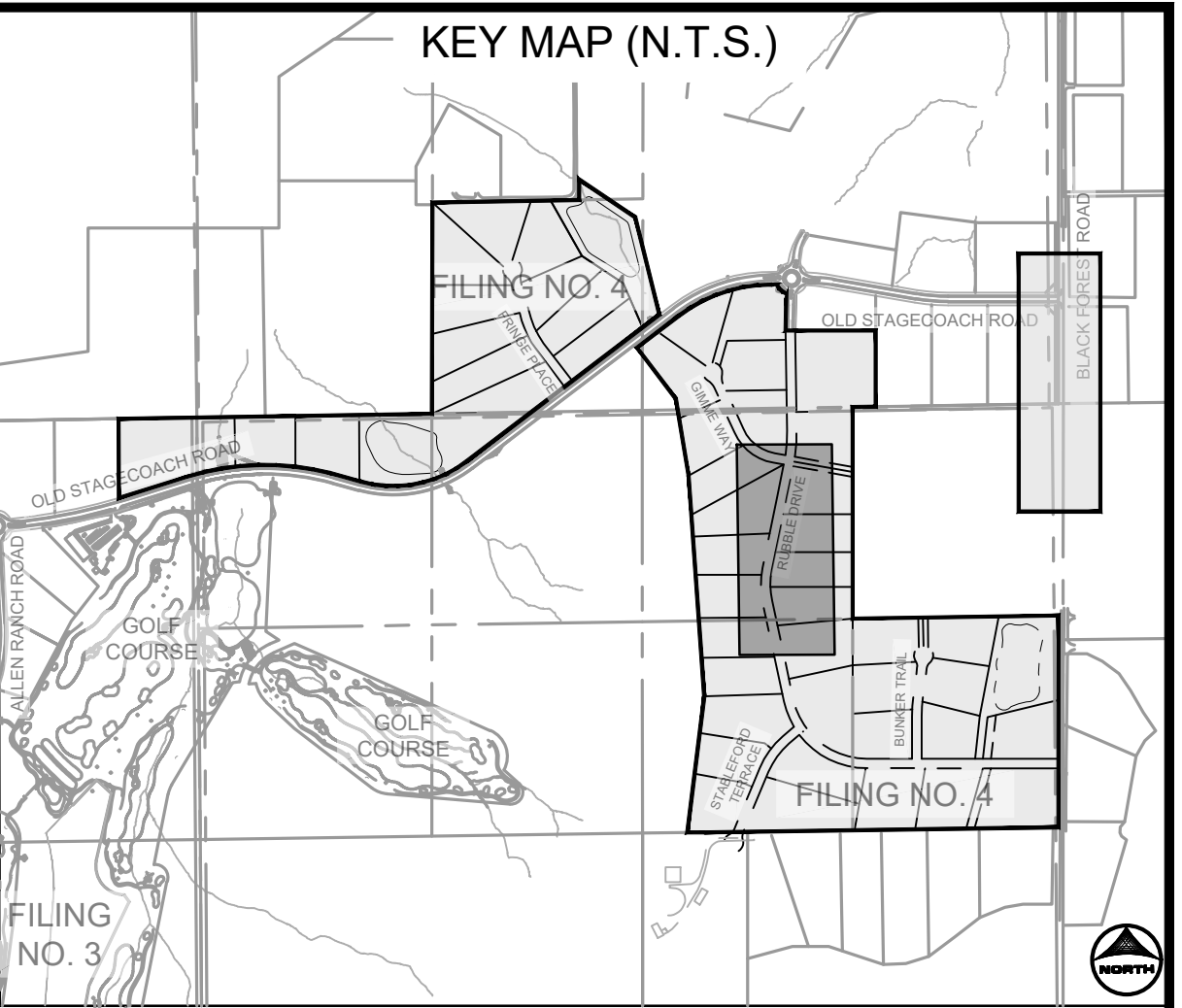
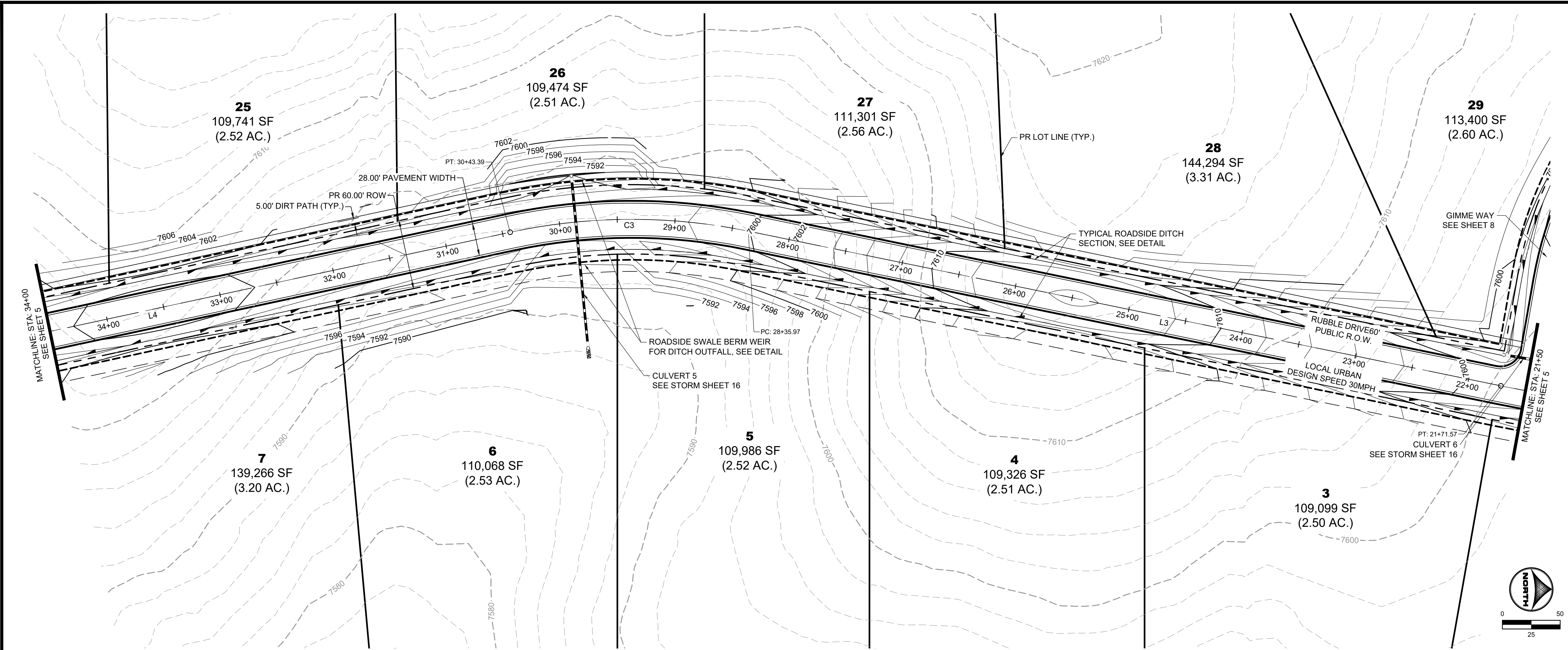
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EL PASO COUNTY, CO

STREET PLAN & PROFILES
RUBBLE DRIVE

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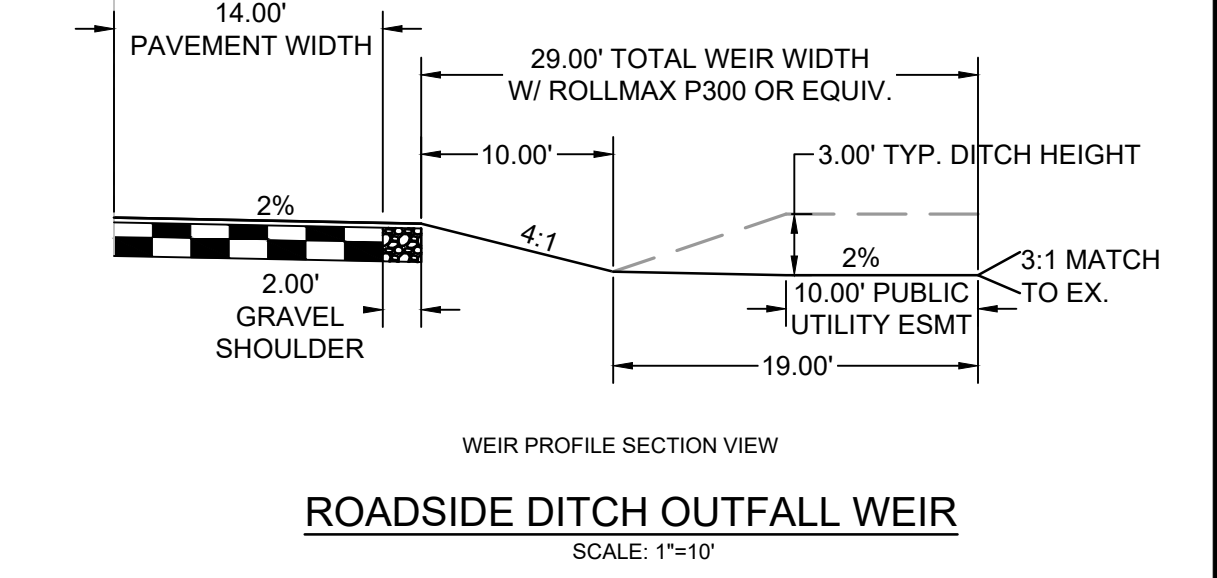
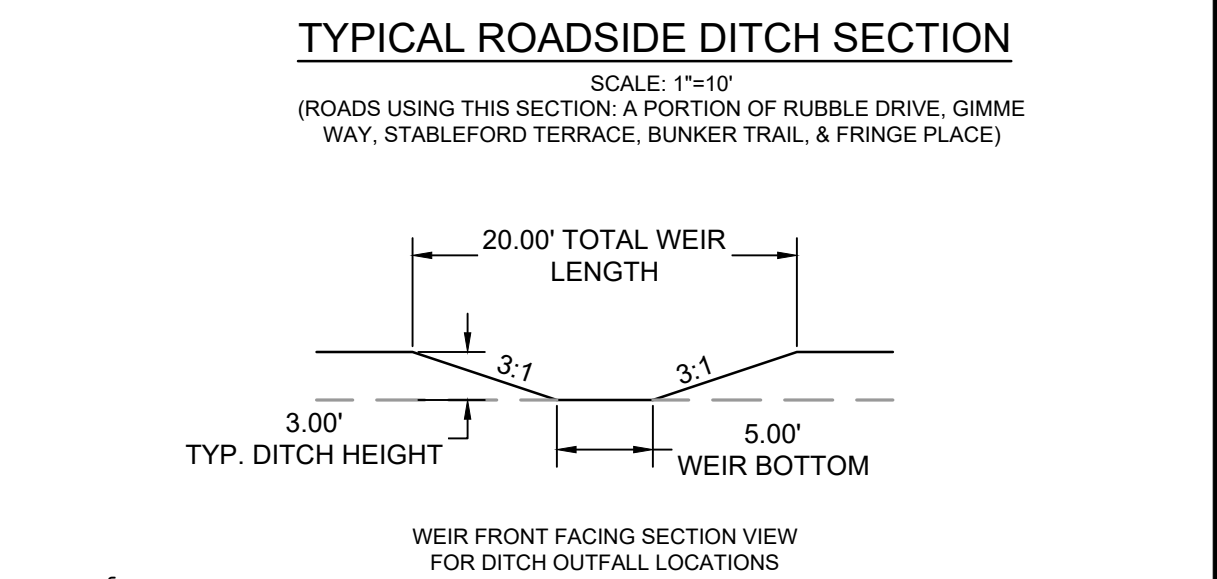
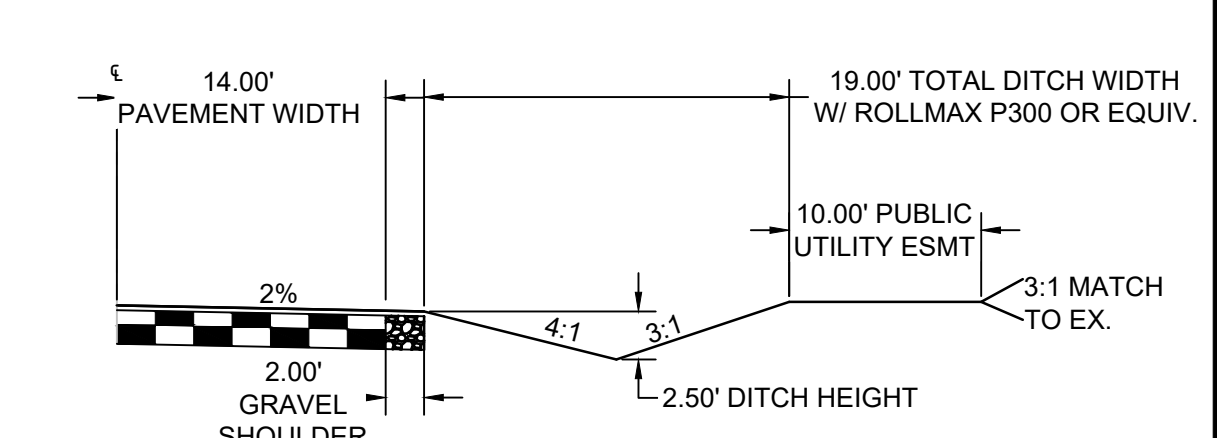
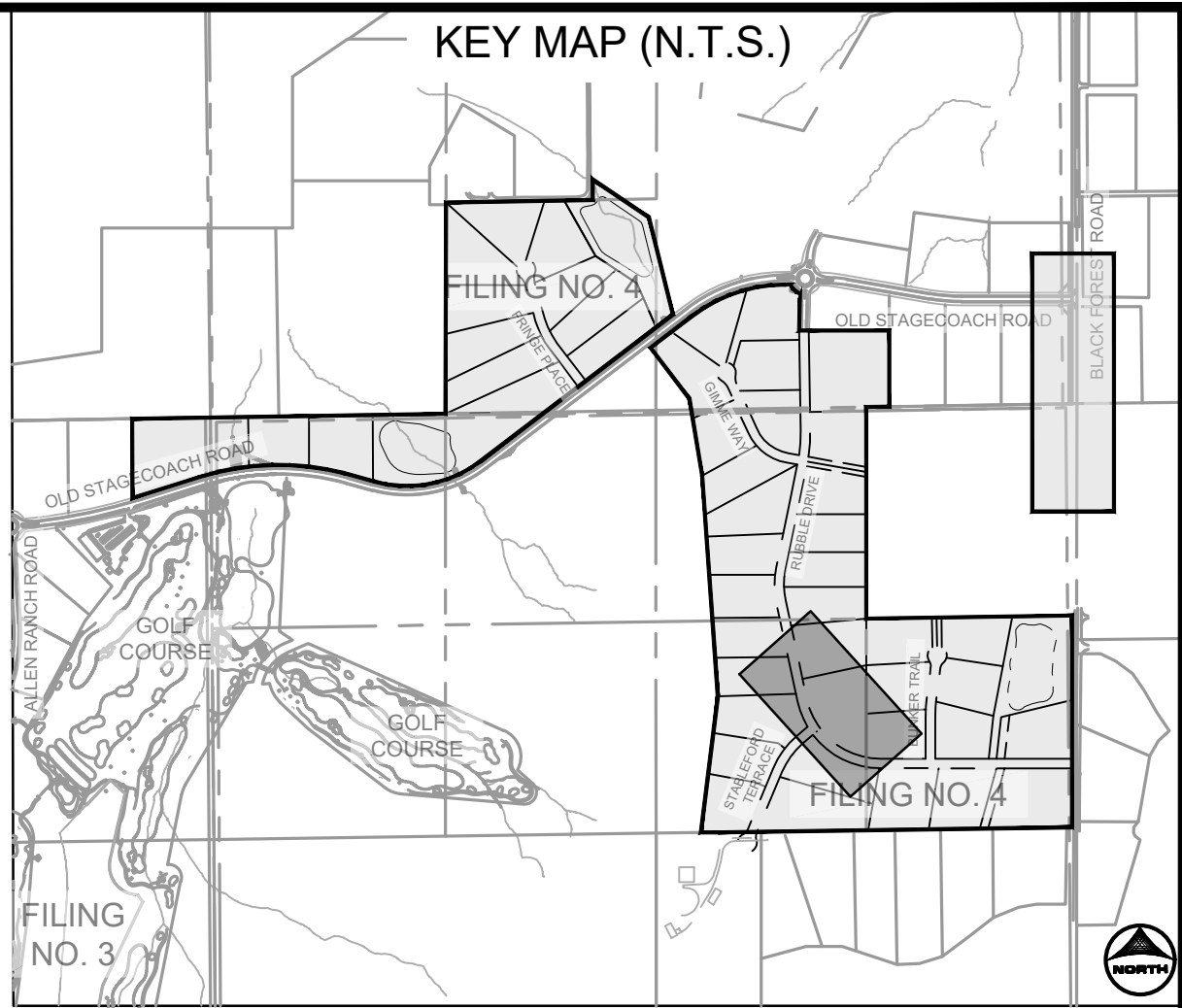
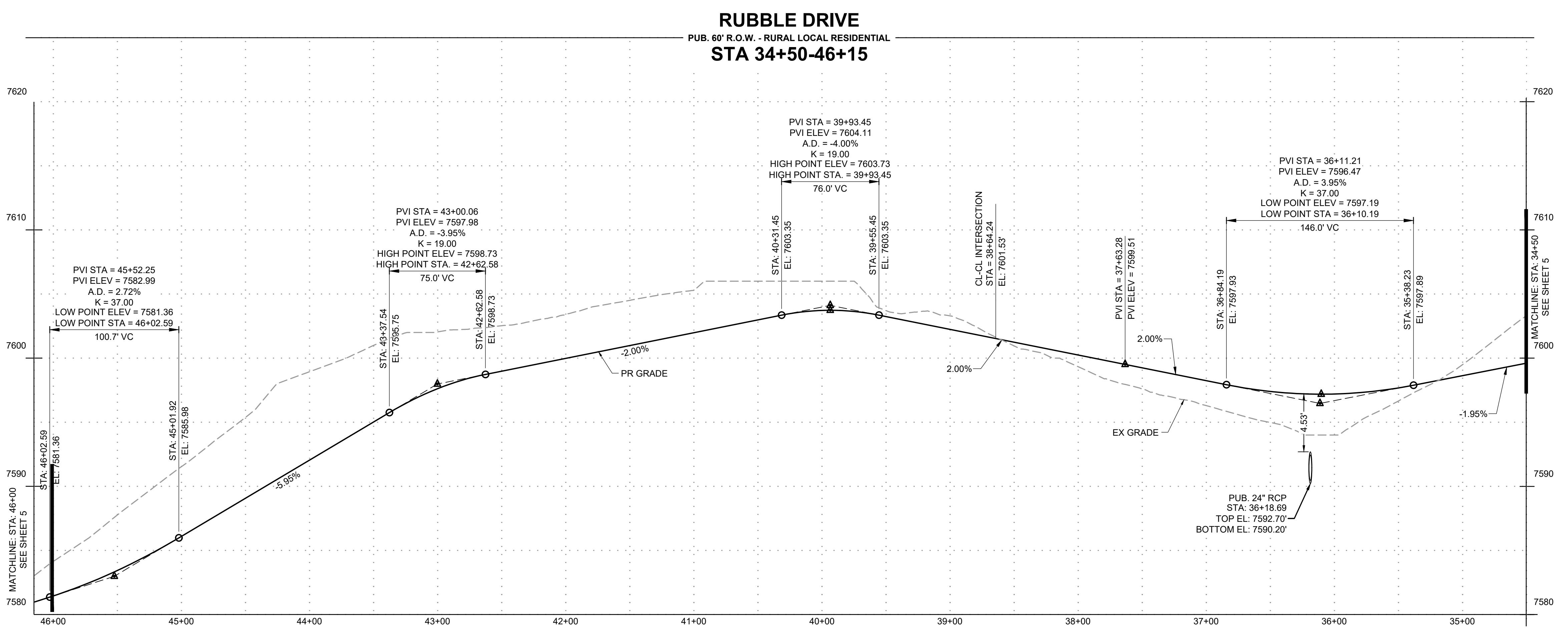
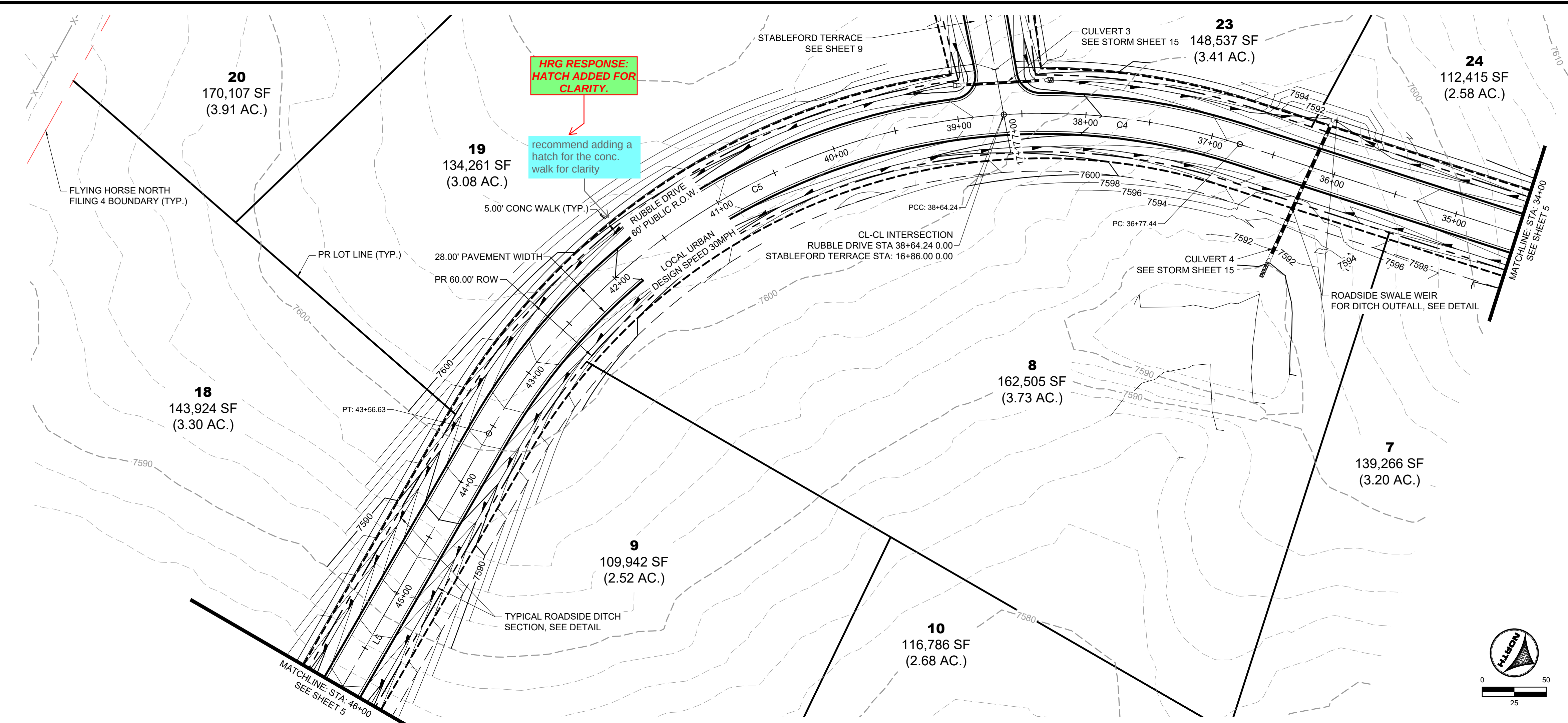
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STREET PLAN & PROFILES
RUBBLE DRIVE

SHEET
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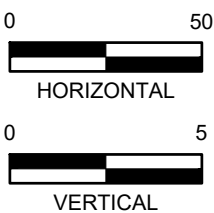
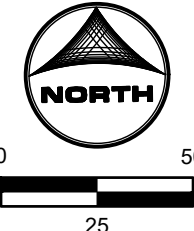
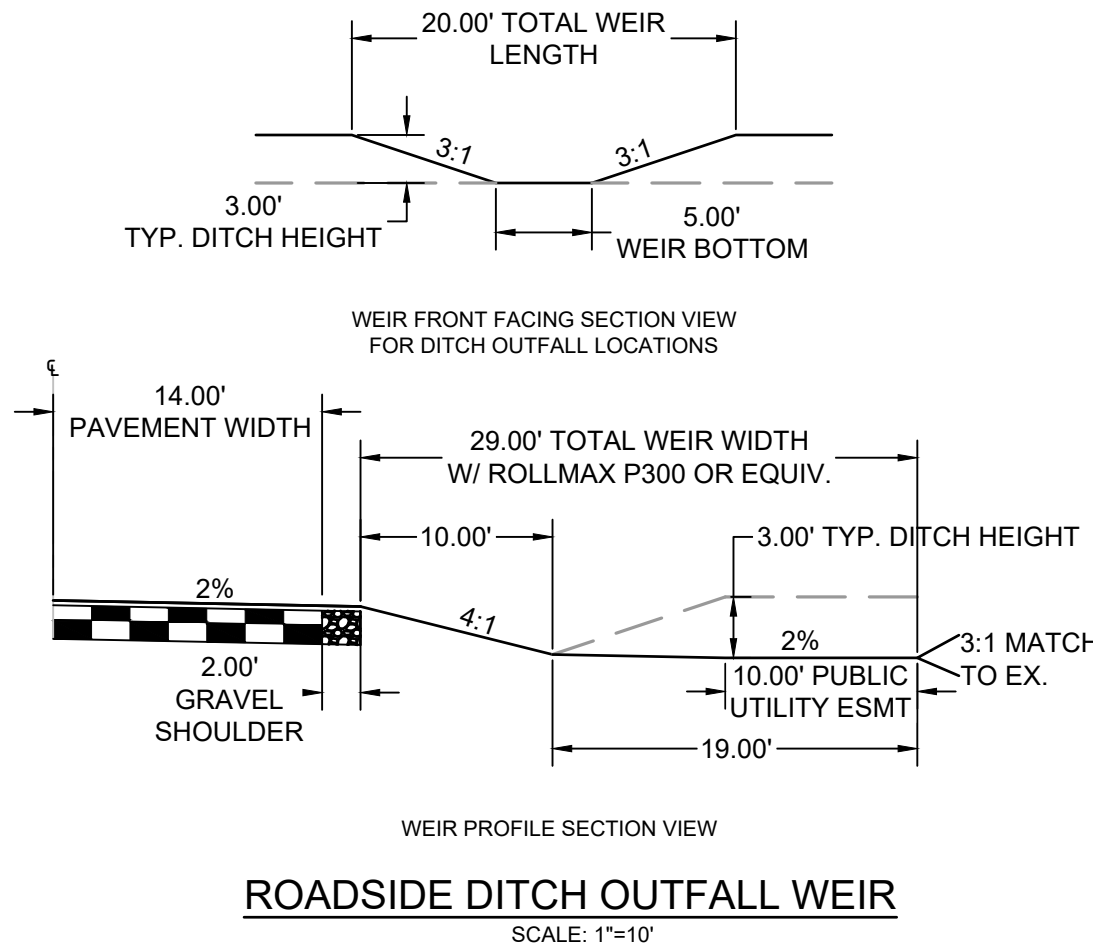
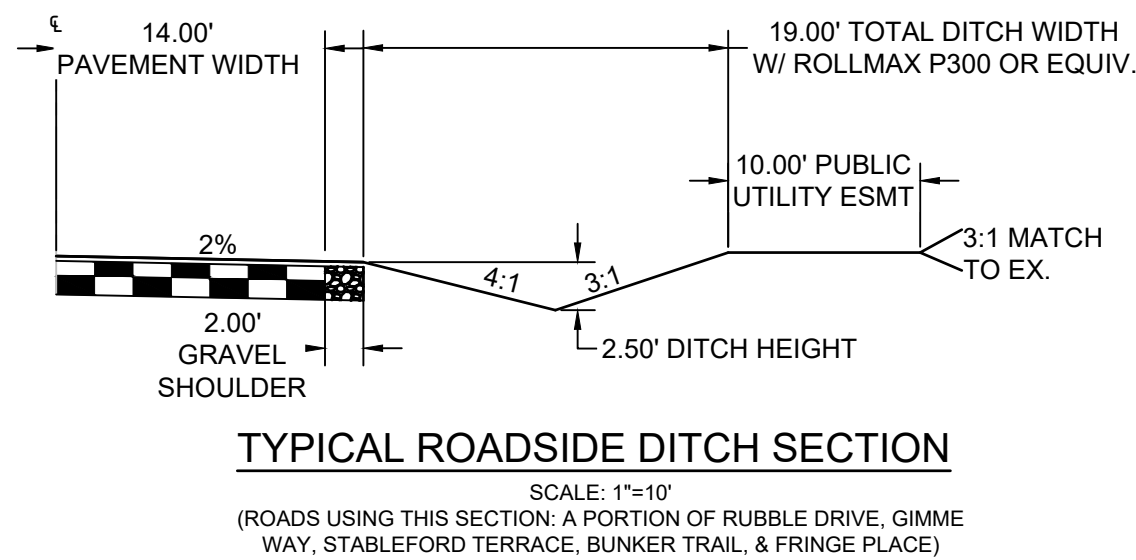
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STREET PLAN & PROFILES
RUBBLE DRIVE

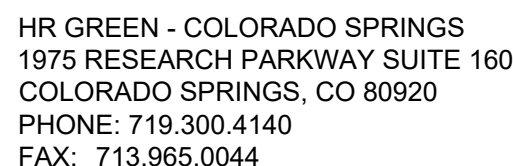
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SEE SHEET 6



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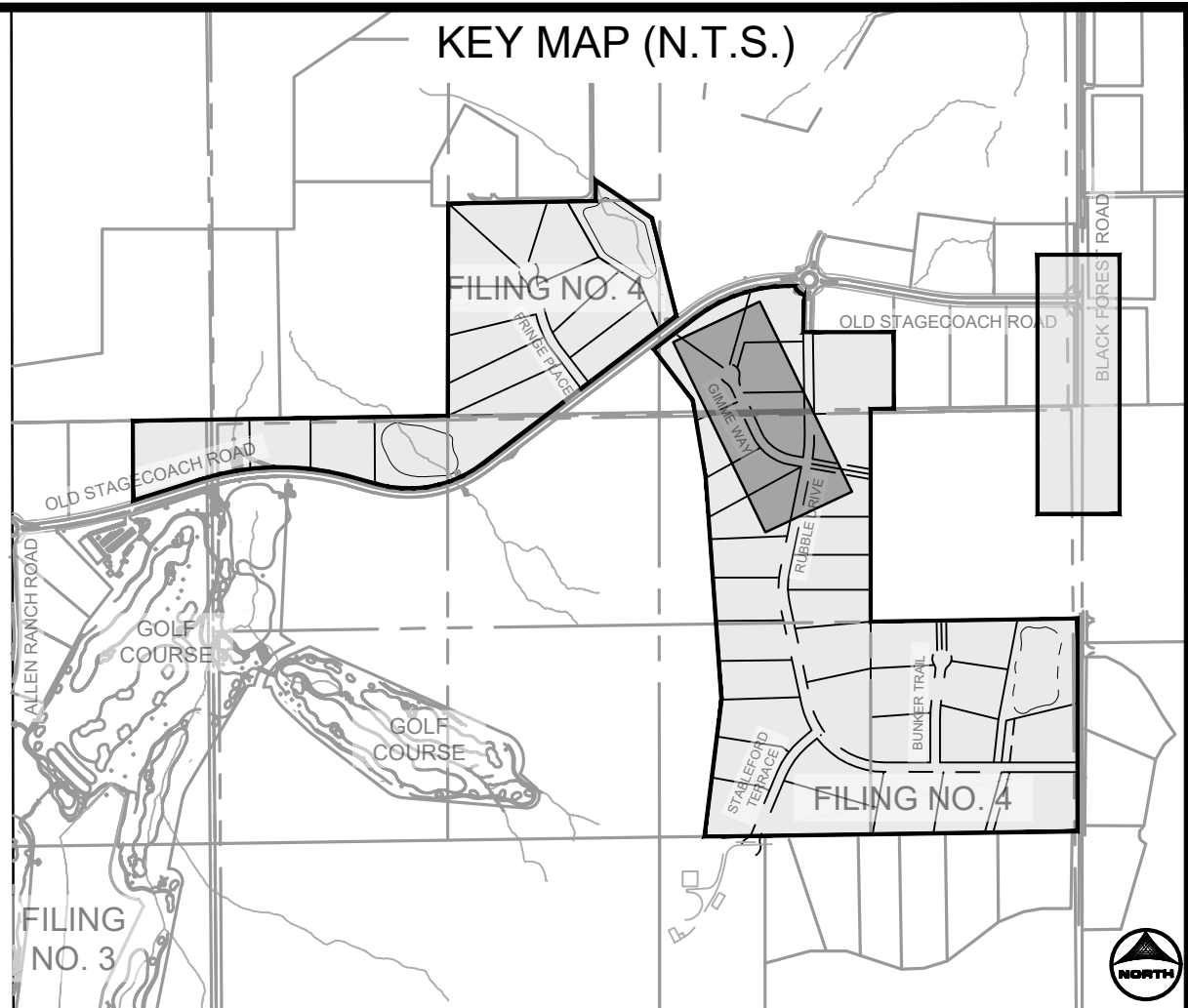
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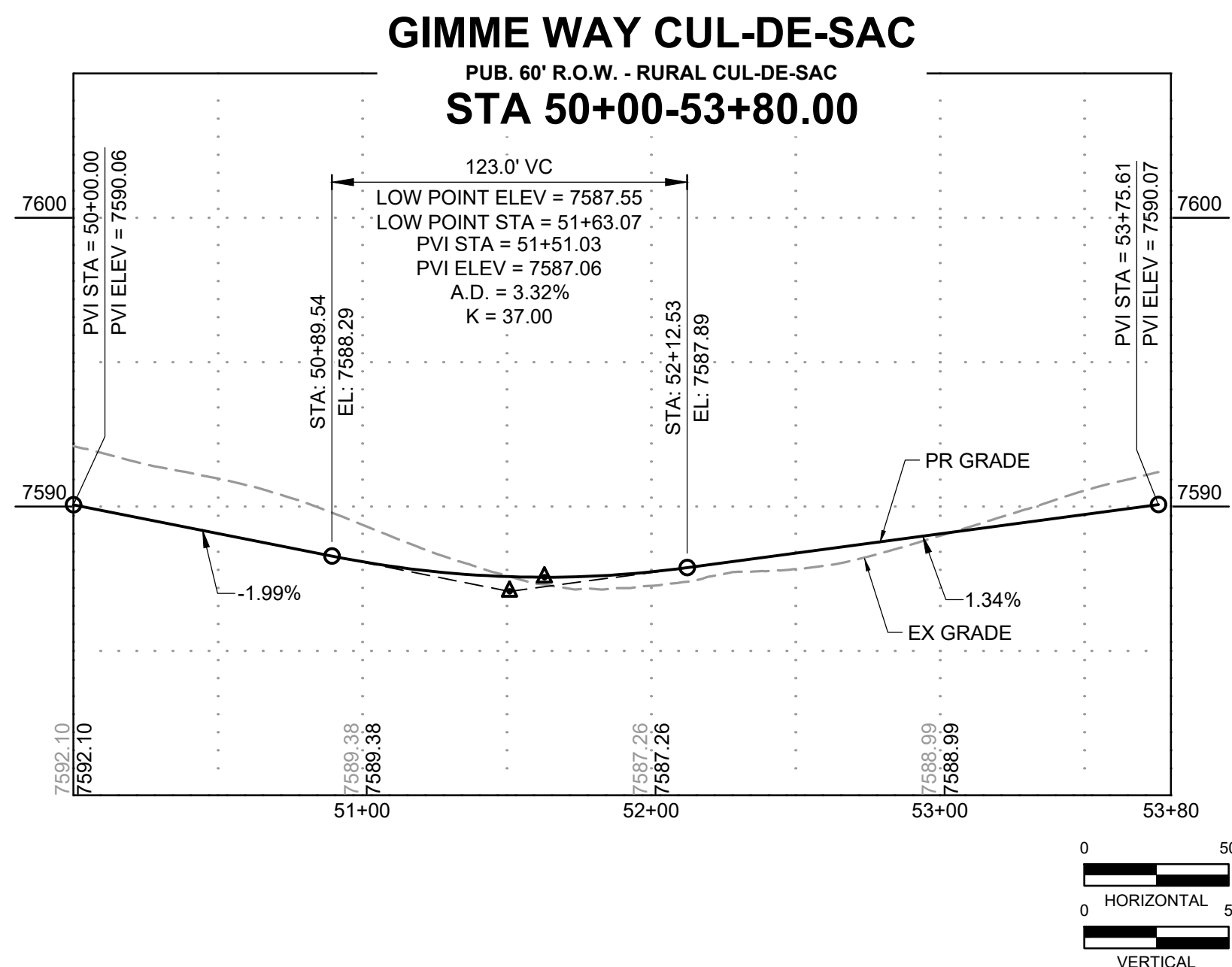
STREET PLAN & PROFILES
RUBBLE DRIVE

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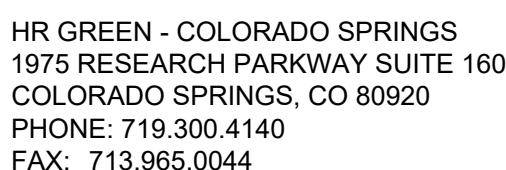


SCALE: 1"=10'
(ROADS USING THIS SECTION: A PORTION OF RUBBLE DRIVE, GIMM
WAY, STABLEFORD TERRACE, BUNKER TRAIL, & FRINGE PLACE)

GIMME WAY ALIGNMENT TABLE					
TAG NO.	RADIUS	LENGTH	LINE/CHORD DIRECTION	BEG. NORTHING/EASTING	END NORTHING/EASTING
C7	98.00'	69.33'	N44° 25' 51.34"W	N:447210.89, E:226236.02	N:447259.37, E:226188.49
C8	52.00'	236.94'	N65° 50' 13.11"E	N:447259.37, E:226188.49	N:447291.73, E:226260.61
C9	98.00'	69.33'	S3° 53' 42.45"E	N:447291.73, E:226260.61	N:447223.99, E:226265.22



NO.	DATE	BY	REVISION DESCRIPTION



STREET PLAN & PROFILES

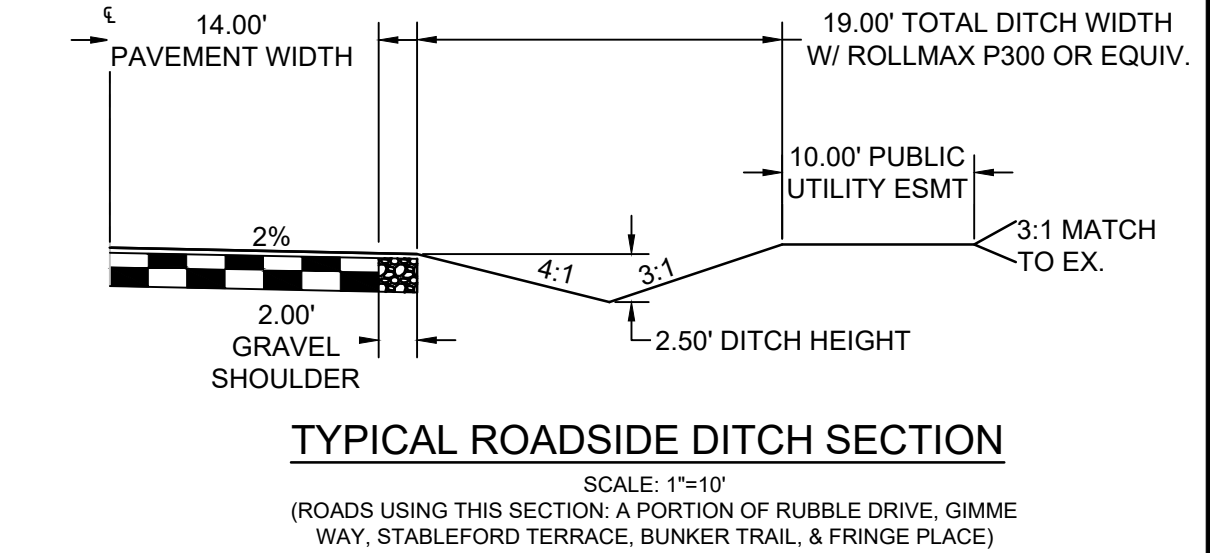
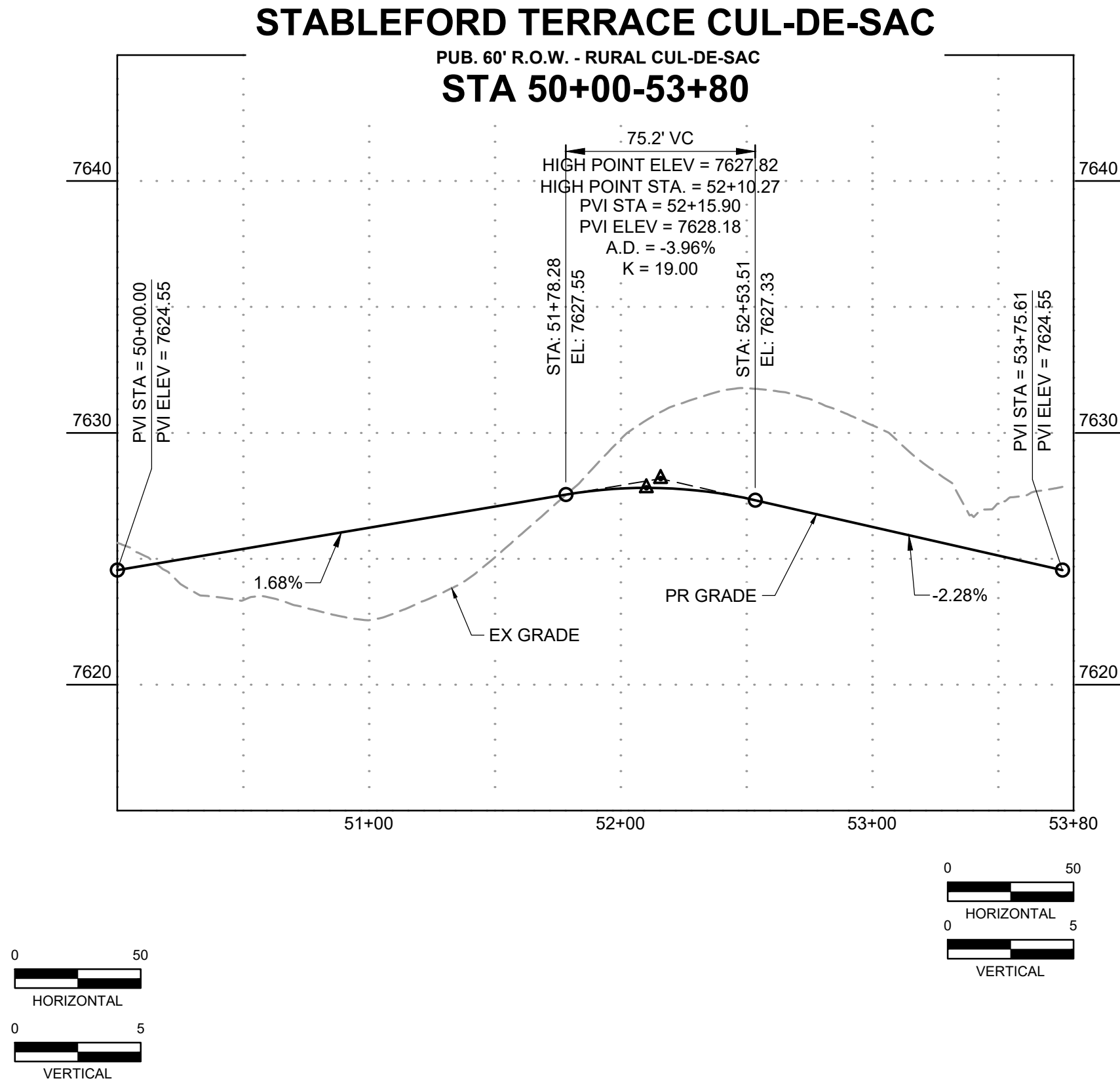
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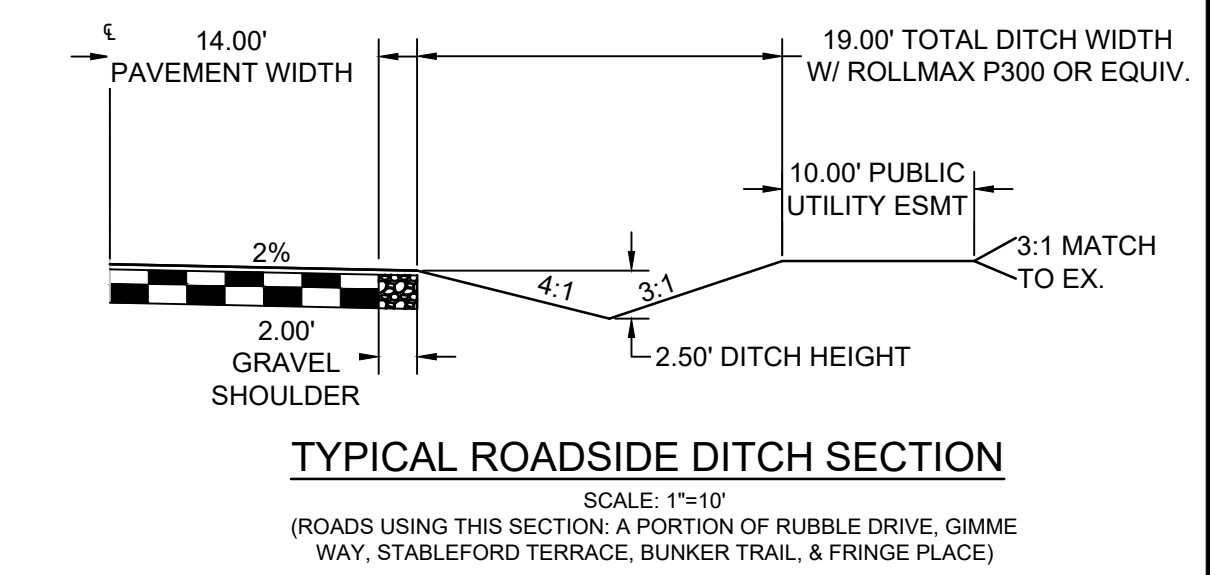
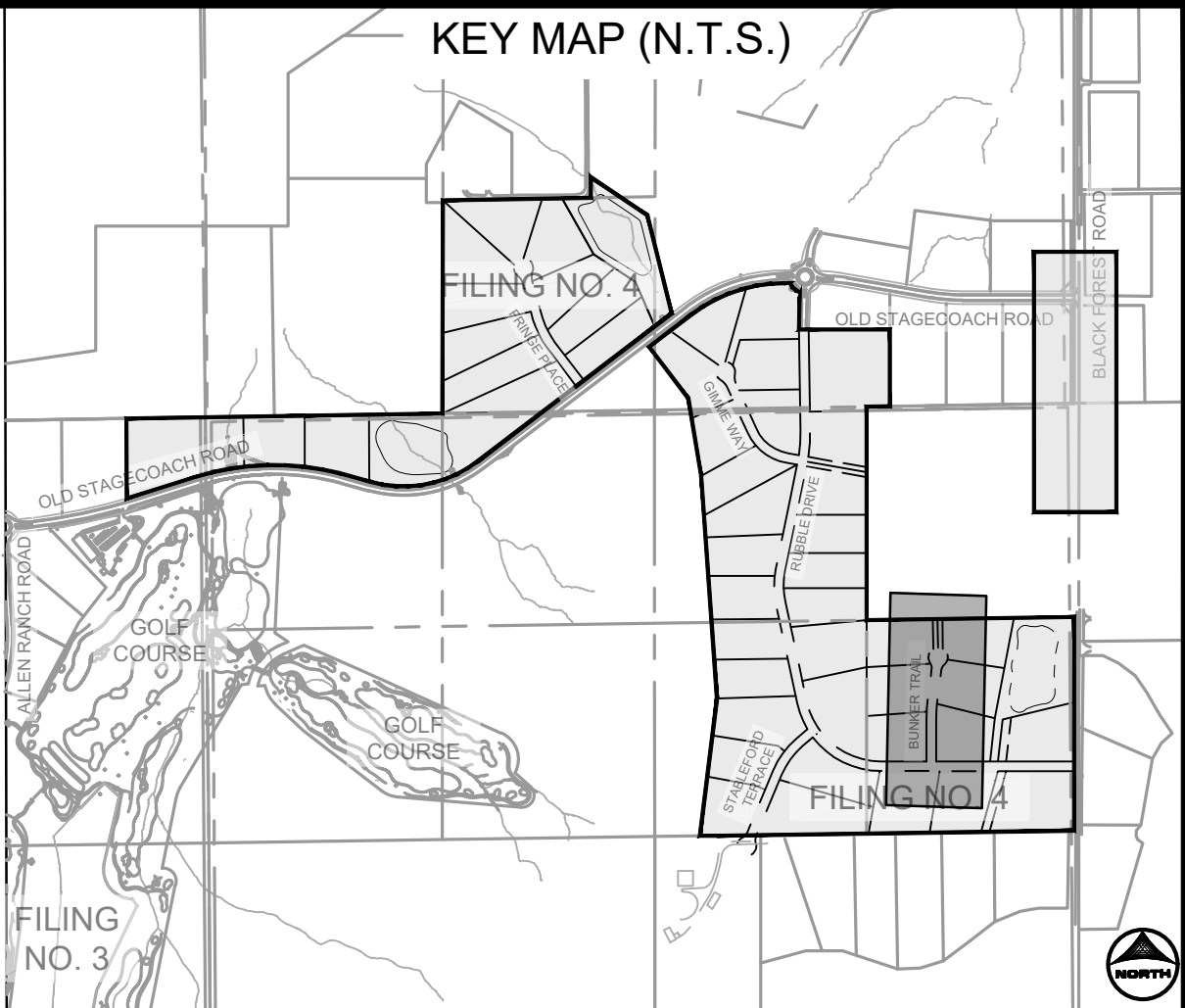
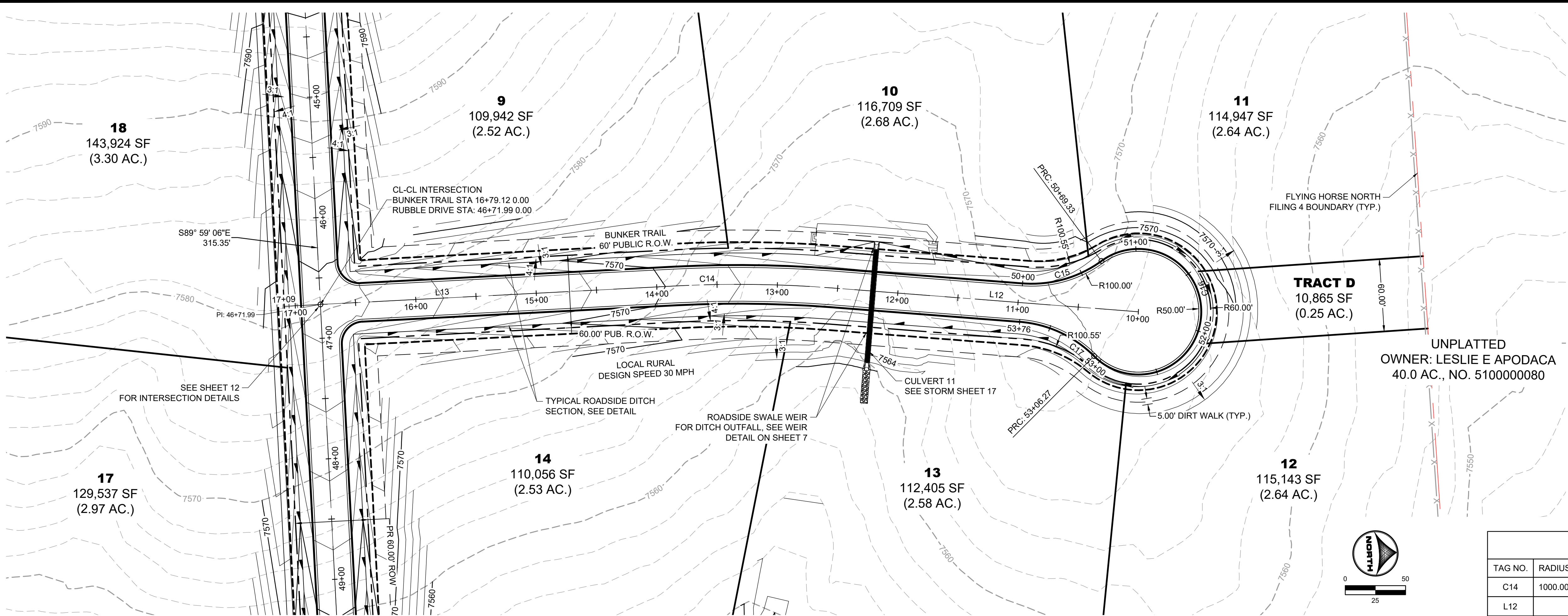
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8

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IF NOT ONE INCH,
CAD DATE: 9/16/2024 ADJUST SCALE ACCORDINGLY.
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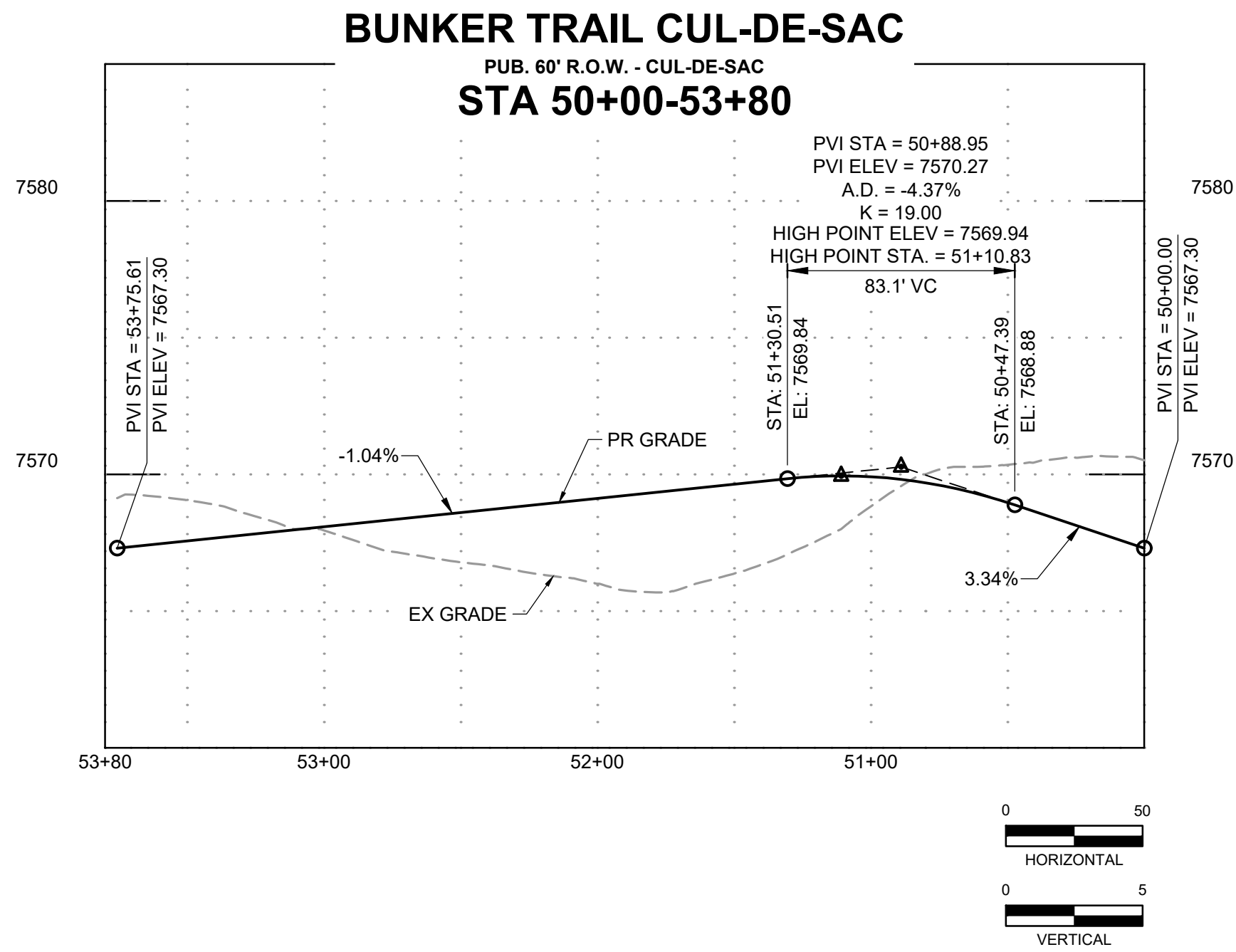
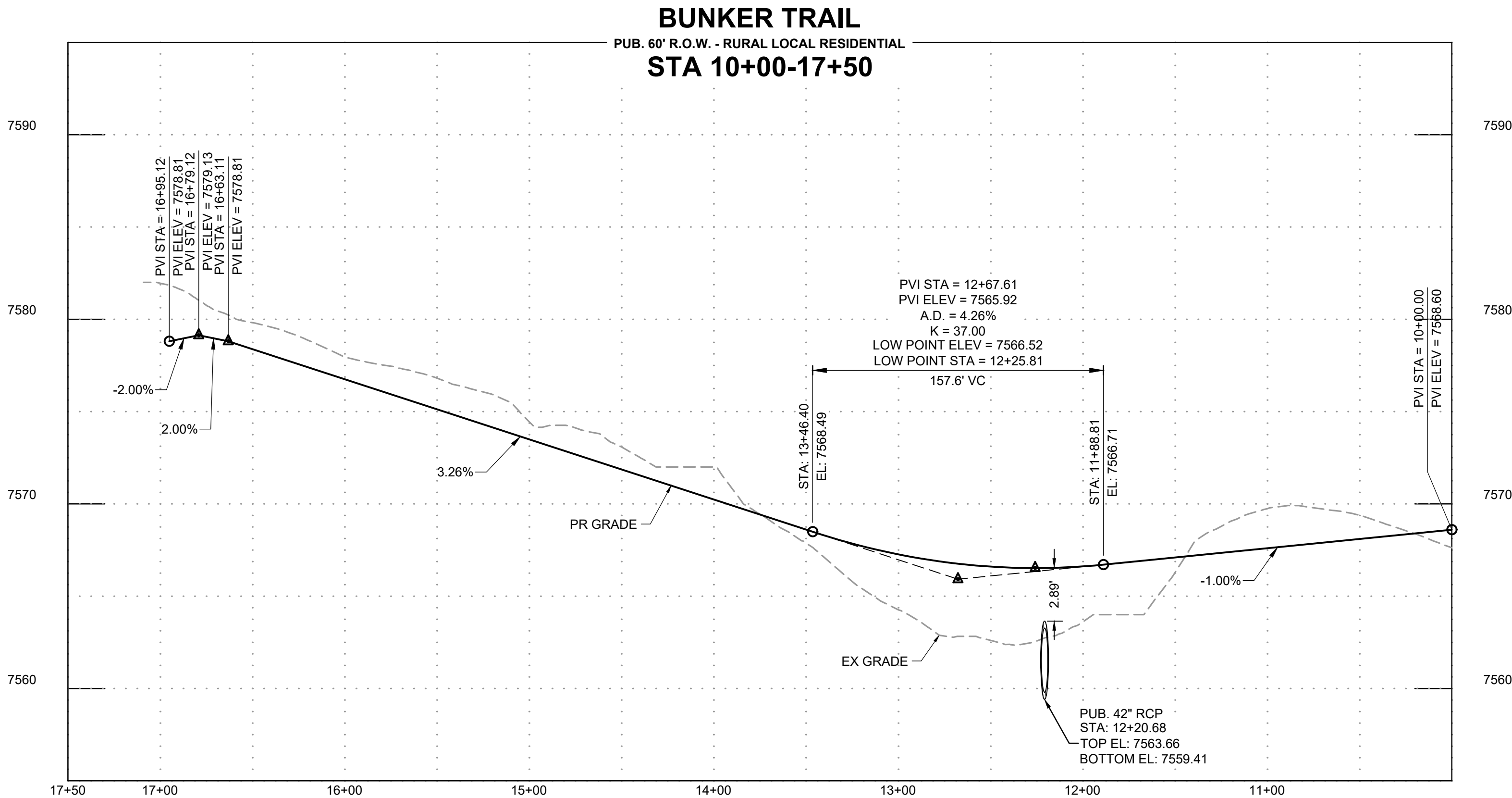


TAG NO.	RADIUS	LENGTH	LINE/CHORD DIRECTION	BEG. NORTHING/EASTING	END NORTHING/EASTING
C11	98.00'	69.33'	S8° 04' 41.99"E	N:444626.21, E:226424.13	N:444558.98, E:226433.67
C12	52.00'	236.94'	N77° 48' 37.54"W	N:444558.98, E:226434.63	N:444575.67, E:226356.41
C13	98.00'	69.33'	N32° 27' 26.90"E	N:444575.67, E:226356.41	N:444632.96, E:226392.85



BUNKER TRAIL ALIGNMENT TABLE					
TAG NO.	RADIUS	LENGTH	LINE/CHORD DIRECTION	BEG. NORTHING/EASTING	END NORTHING/EASTING
C14	1000.00'	129.63'	S3° 43' 43.56"W	N:445276.75, E:227500.27	N:445147.48, E:227491.85
L12		254.68'	S7° 26' 32.99"W	N:445529.28, E:227533.26	N:445276.75, E:227500.27
L13		294.81'	S0° 00' 54.12"W	N:445147.48, E:227491.85	N:444852.68, E:227491.77

BUNKER TRAIL ALIGNMENT TABLE					
TAG NO.	RADIUS	LENGTH	LINE/CHORD DIRECTION	BEG. NORTHING/EASTING	END NORTHING/EASTING
C15	98.00'	69.33'	N12° 49' 31.45"W	N:445434.69, E:227504.77	N:445500.89, E:227489.70
C16	52.00'	236.94'	S82° 33' 27.01"E	N:445500.89, E:227489.70	N:445490.65, E:227568.07
C17	98.00'	69.33'	S27° 42' 37.43"W	N:445490.65, E:227568.07	N:445430.54, E:227536.50



DRAWN BY: CMD JOB DATE: 9/11/2024
APPROVED: RDL JOB NUMBER: 211030.240
CAD DATE: 9/16/2024
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BAR IS ONE INCH ON OFFICIAL DRAWINGS.
0" = 1" IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.

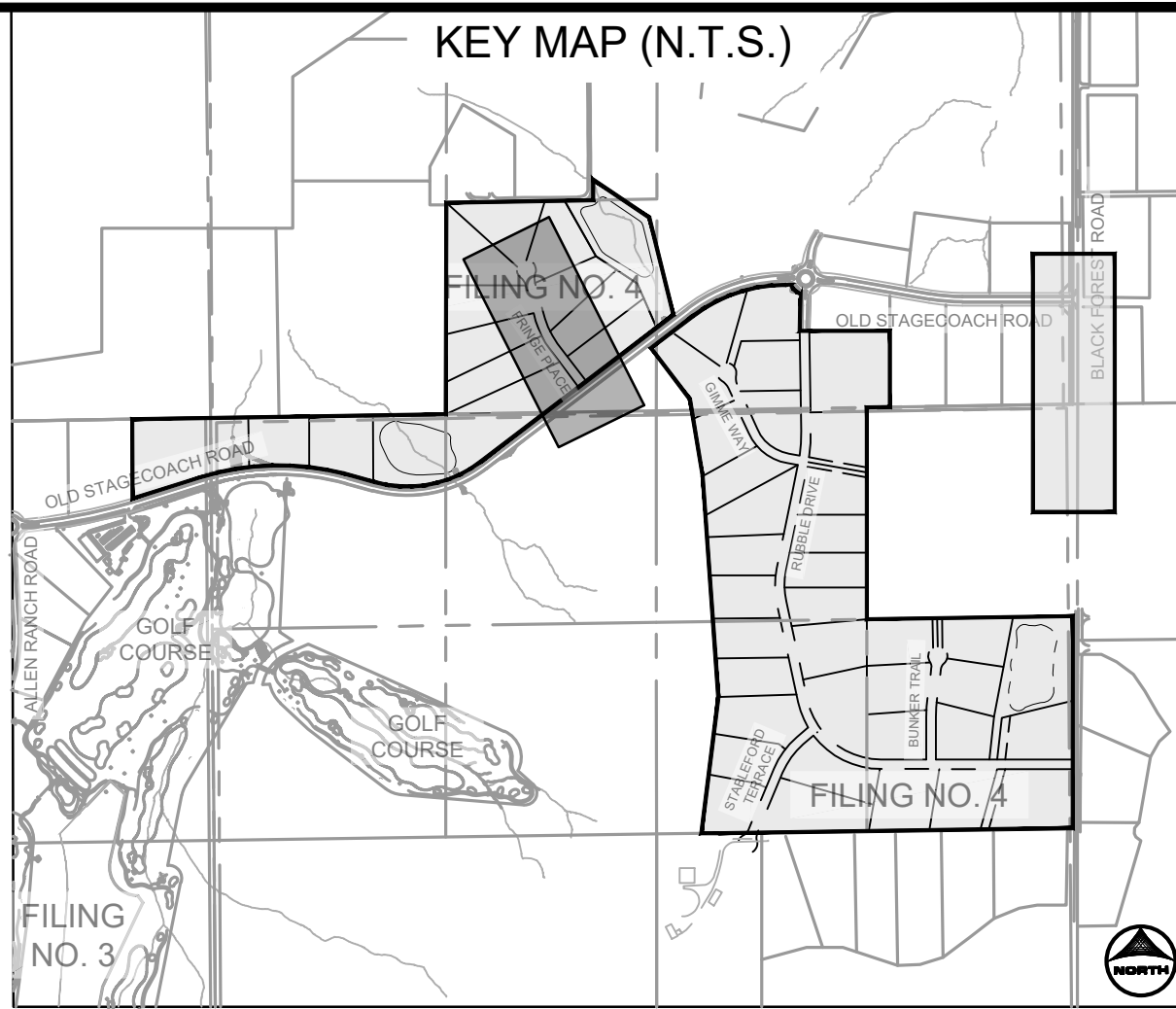
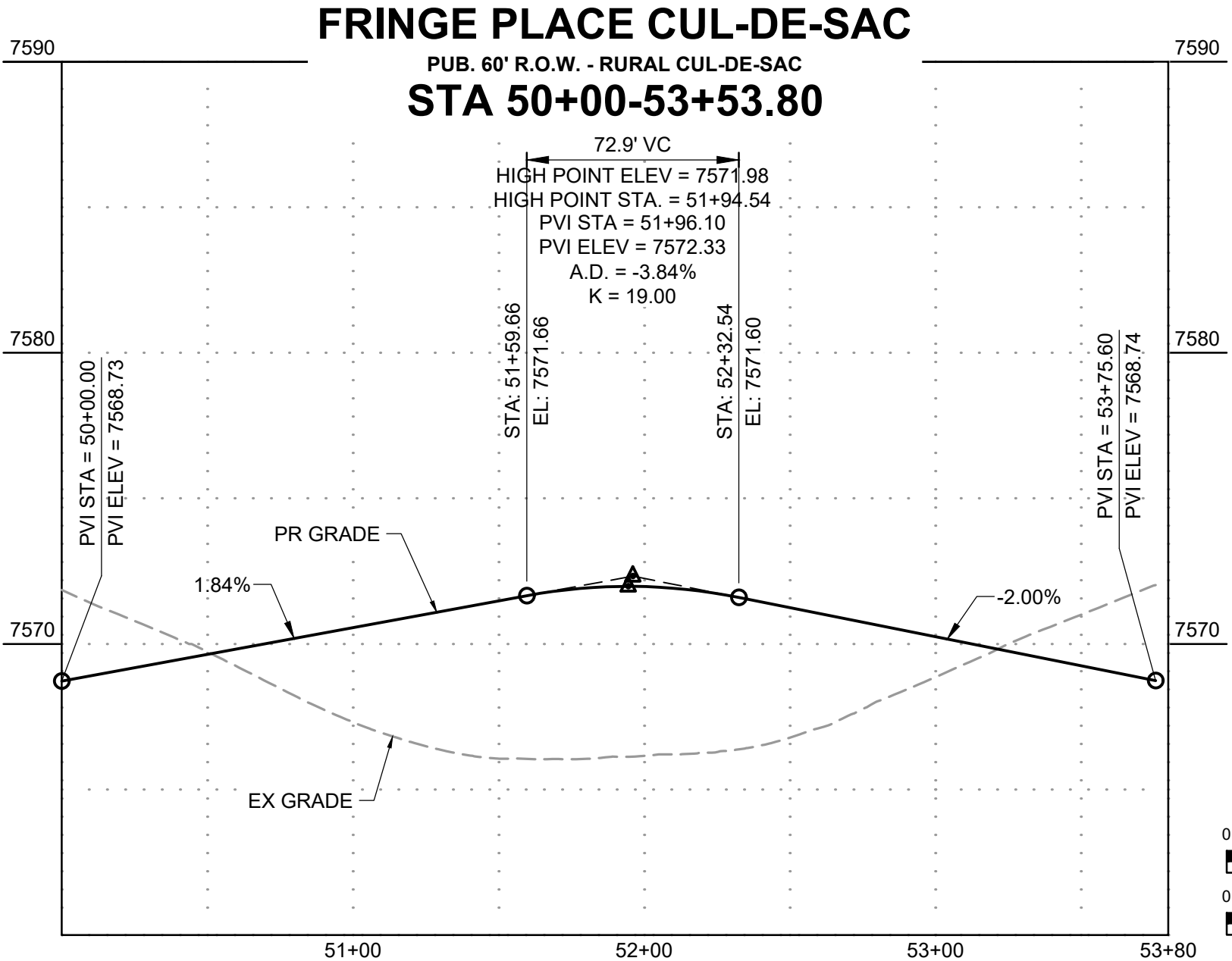
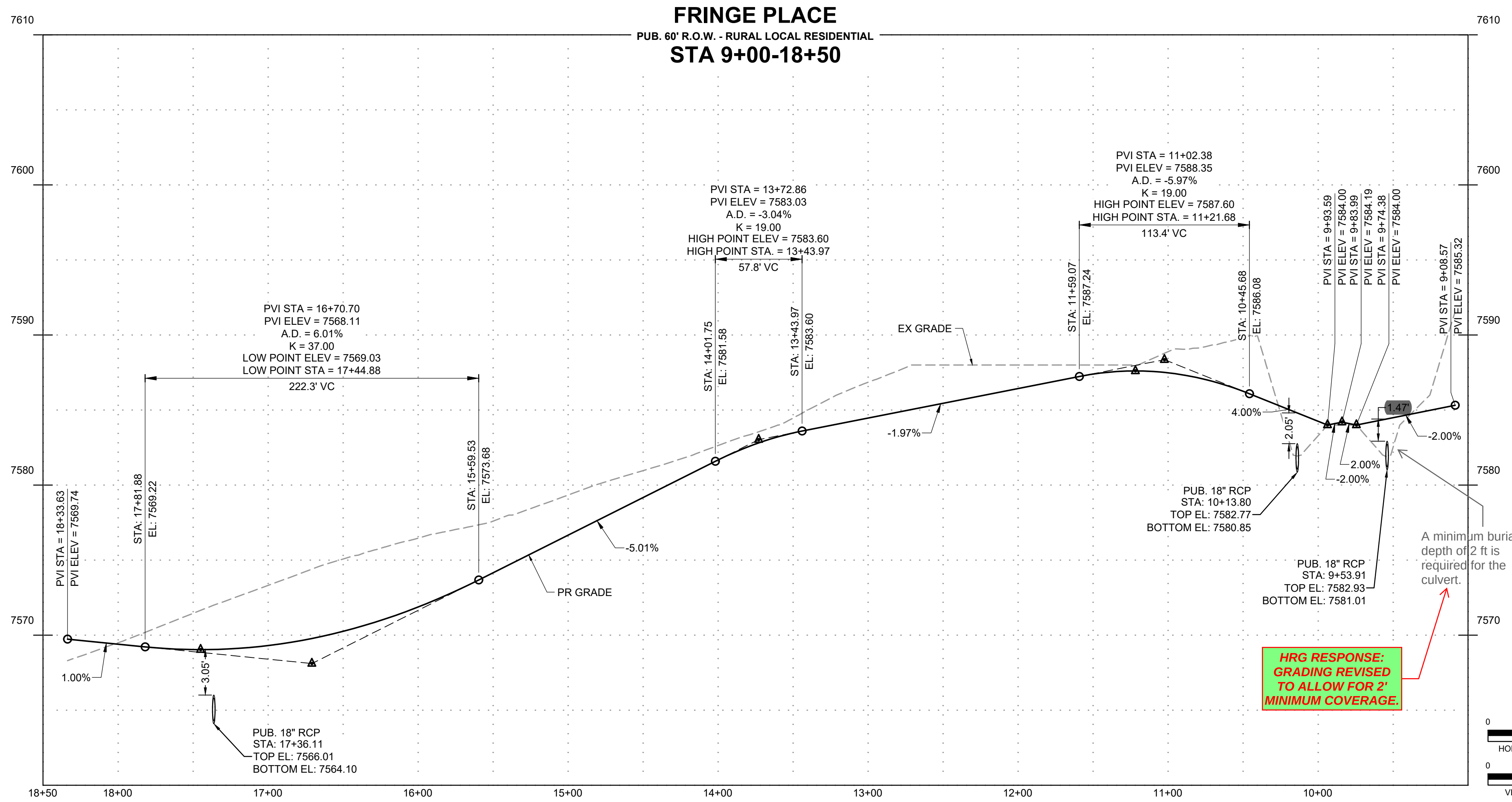
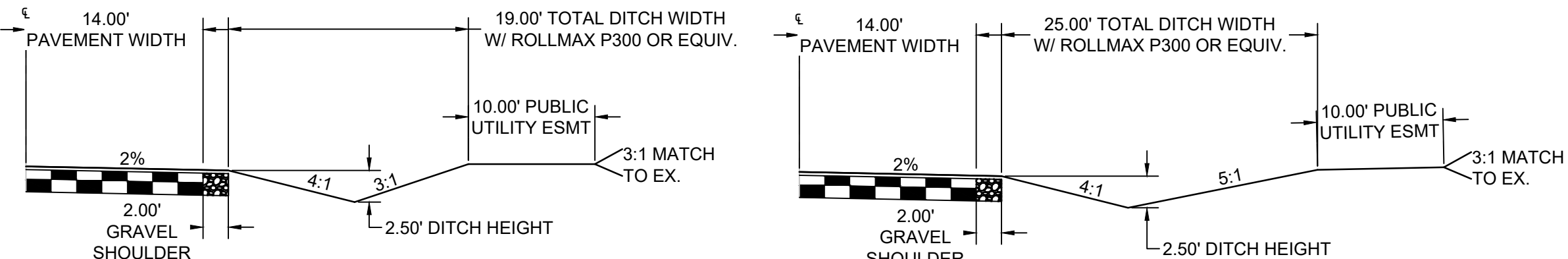
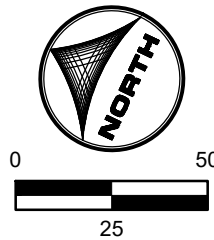
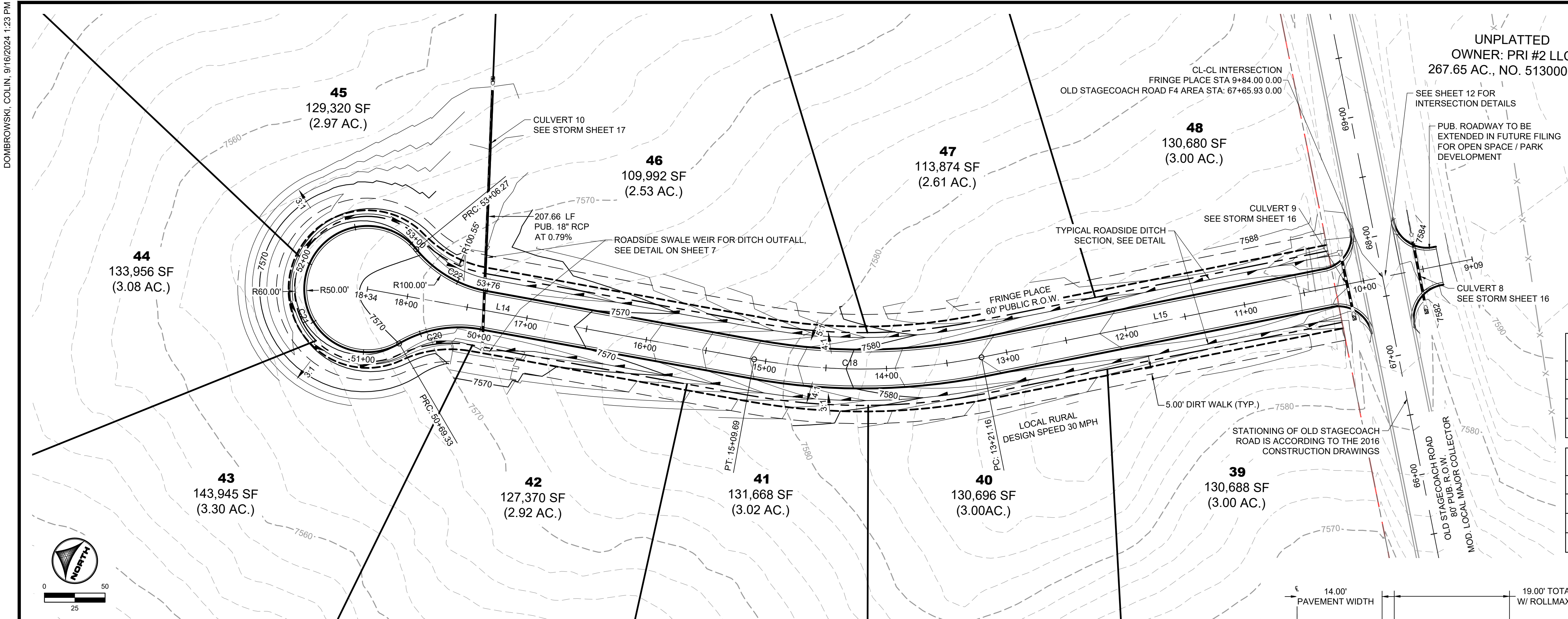
NO.	DATE	BY	REVISION DESCRIPTION

HR GREEN - COLORADO SPRINGS
1975 RESEARCH PARKWAY SUITE 160
COLORADO SPRINGS, CO 80920
PHONE: 719.300.4140
FAX: 713.965.0044

FLYING HORSE NORTH FILING 4
PRI #2, LLC.
EL PASO COUNTY, CO

STREET PLAN & PROFILES
BUNKER TRAIL

PCD FILE NO.: SF####
SHEET
ST
10



FRINGE PLACE ALIGNMENT TABLE					
TAG NO.	RADIUS	LENGTH	LINE/CHORD DIRECTION	BEG. NORTHING/EASTING	END NORTHING/EASTING
C20	98.00'	69.33'	N35° 58' 25.56"W	N:447851.94, E:224966.44	N:447906.89, E:224926.56
C21	52.00'	236.94'	N74° 17' 38.88"E	N:447906.89, E:224926.56	N:447928.28, E:225002.65
C22	98.00'	69.33'	S4° 33' 43.32"W	N:447928.28, E:225002.65	N:447860.60, E:224997.25

FRINGE PLACE ALIGNMENT TABLE					
TAG NO.	RADIUS	LENGTH	LINE/CHORD DIRECTION	BEG. NORTHING/EASTING	END NORTHING/EASTING
C20	98.00'	69.33'	N35° 58' 25.56"W	N:447851.94, E:224966.44	N:447906.89, E:224926.56
C21	52.00'	236.94'	N74° 17' 38.88"E	N:447906.89, E:224926.56	N:447928.28, E:225002.65
C22	98.00'	69.33'	S4° 33' 43.32"W	N:447928.28, E:225002.65	N:447860.60, E:224997.25

DRAWN BY: CMD JOB DATE: 9/11/2024
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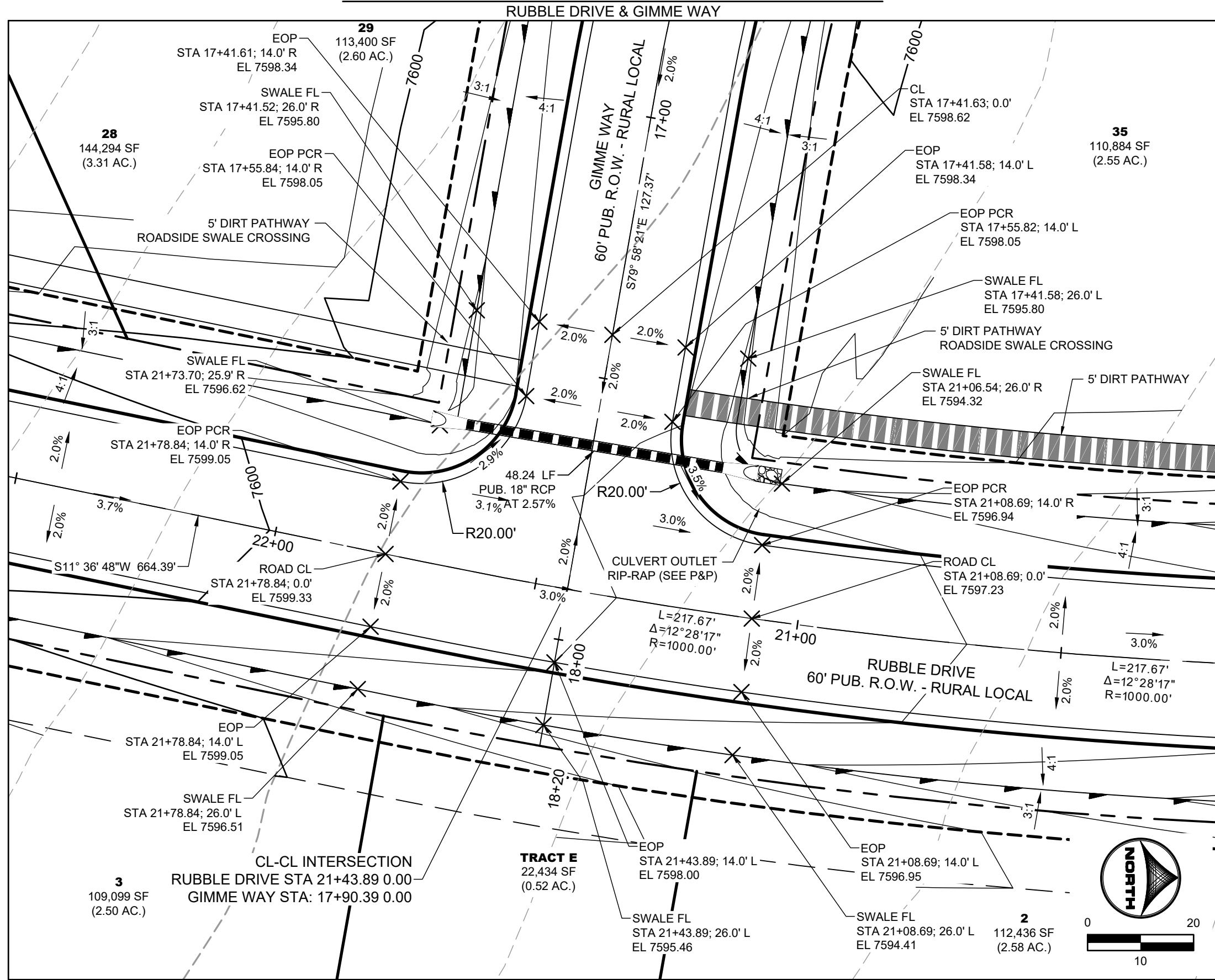
HRGreen
HR GREEN - COLORADO SPRINGS
1975 RESEARCH PARKWAY SUITE 160
COLORADO SPRINGS, CO 80920
PHONE: 719.300.4140
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FLYING HORSE NORTH FILING 4
PRI #2, LLC.
EL PASO COUNTY, CO

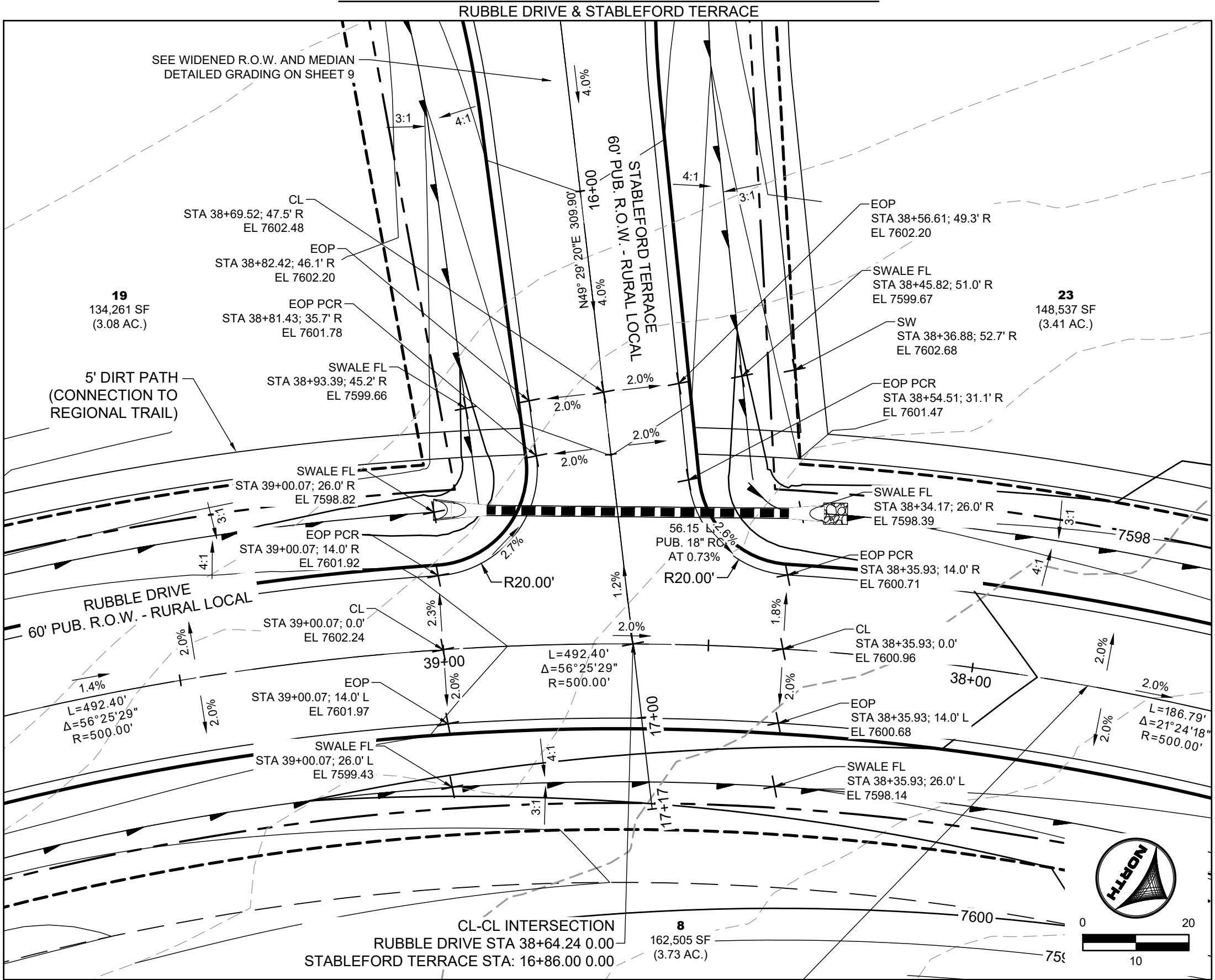
STREET PLAN & PROFILES
FRINGE PLACE

PCD FILE NO.: SF####
SHEET
ST
11

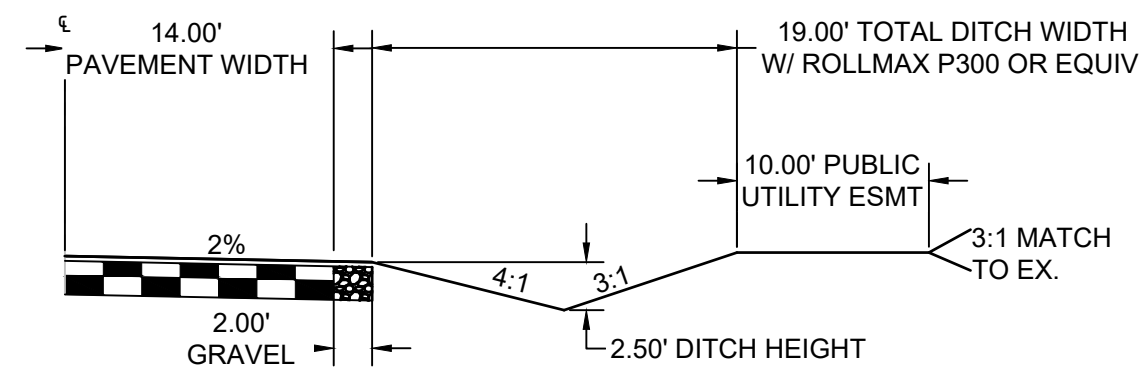
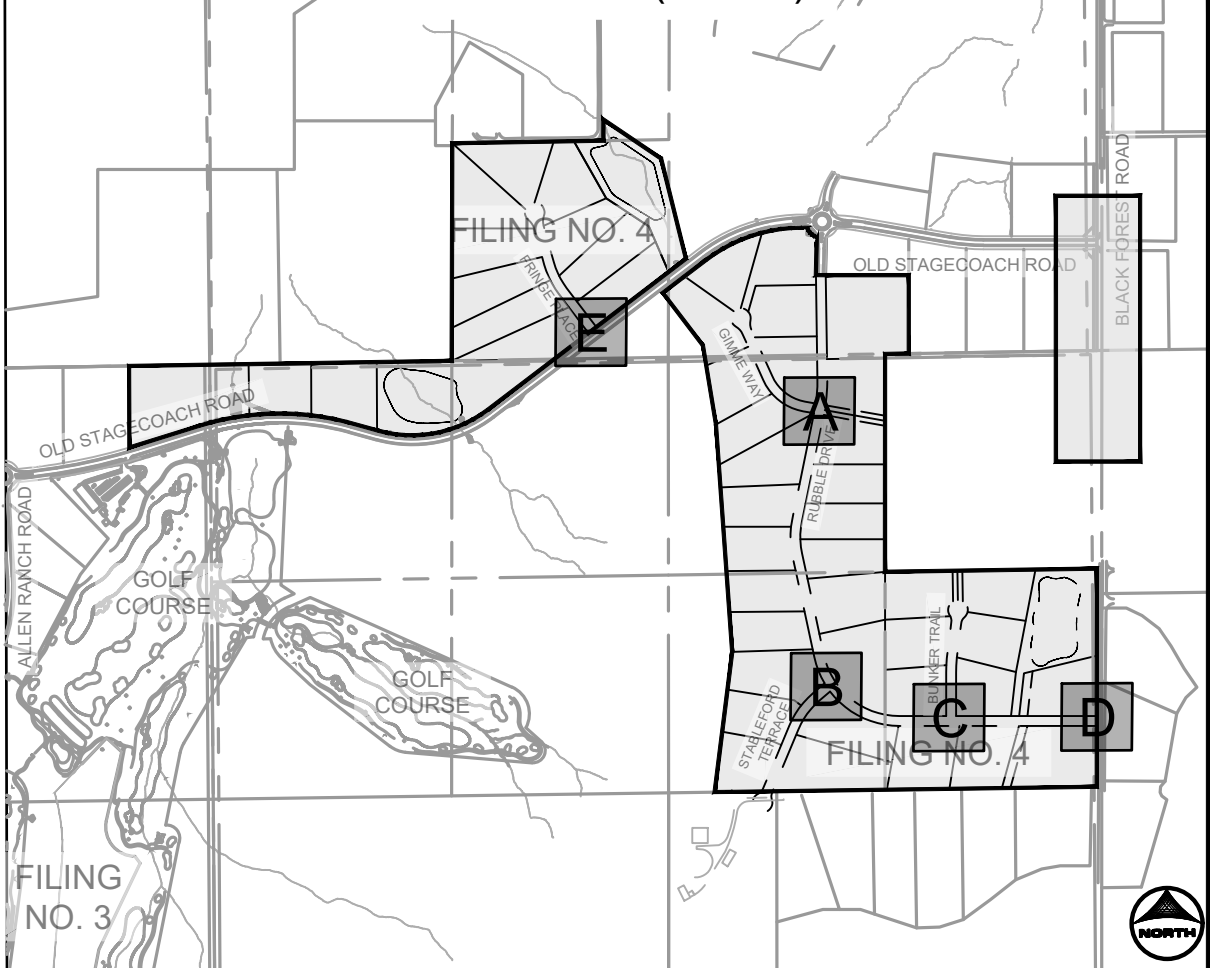
ROADWAY INTERSECTION DETAIL - A



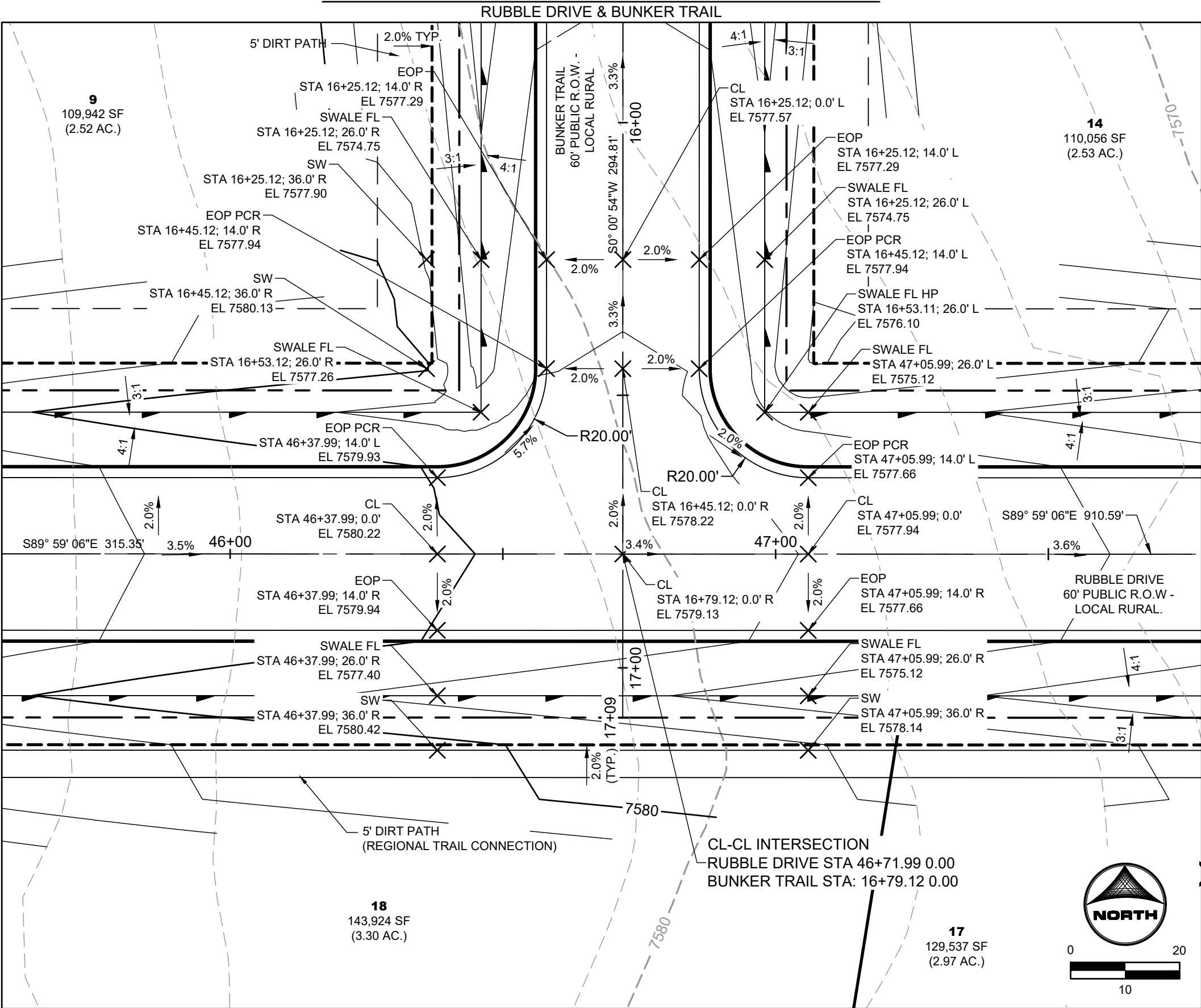
ROADWAY INTERSECTION DETAIL - B



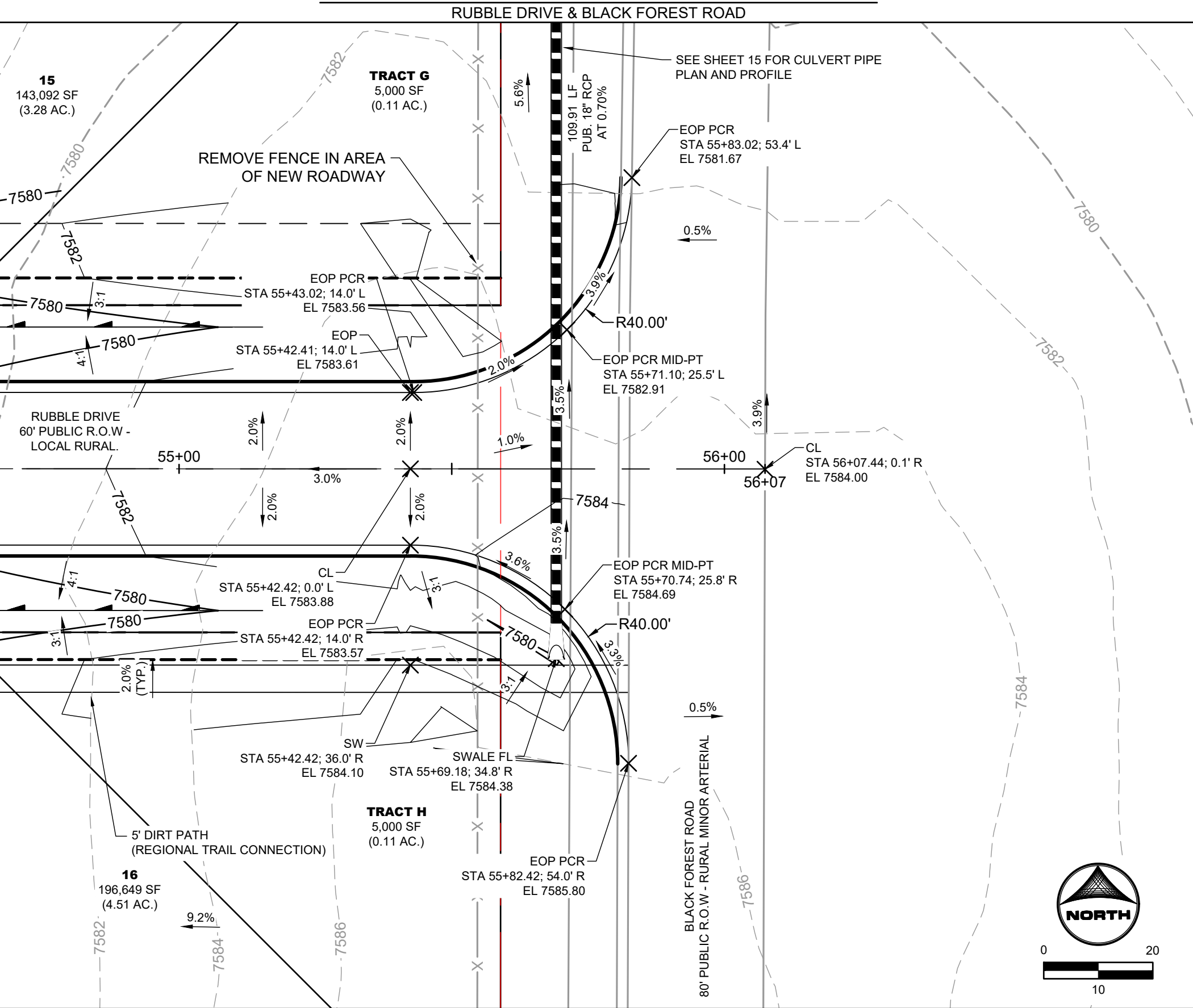
KEY MAP (N.T.S.)



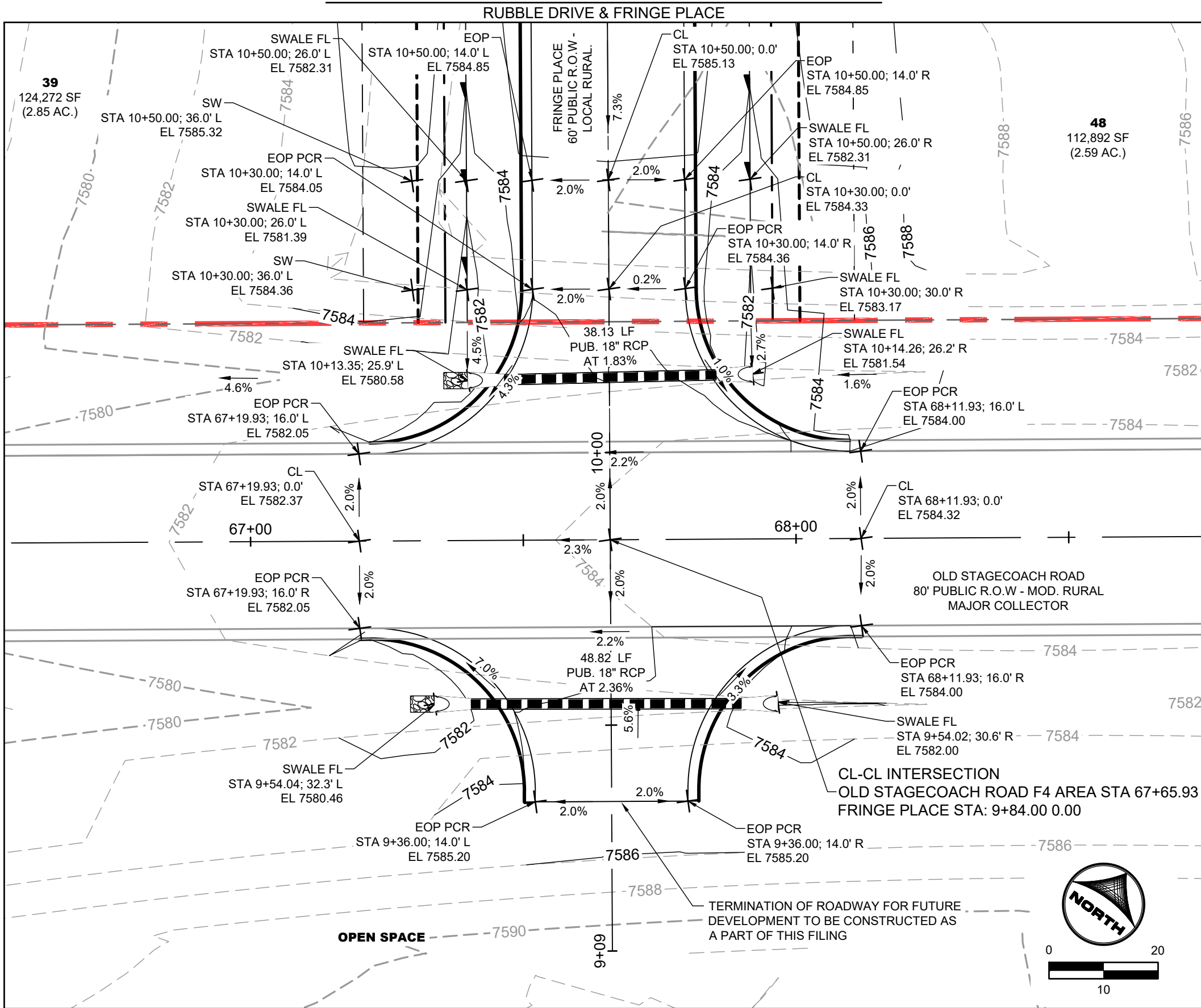
ROADWAY INTERSECTION DETAIL - C



ROADWAY INTERSECTION DETAIL - D



ROADWAY INTERSECTION DETAIL - E



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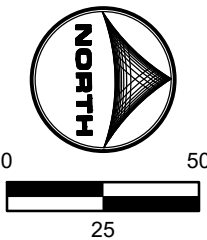
NO.	DATE	BY	REVISION DESCRIPTION

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1975 RESEARCH PARKWAY SUITE 160
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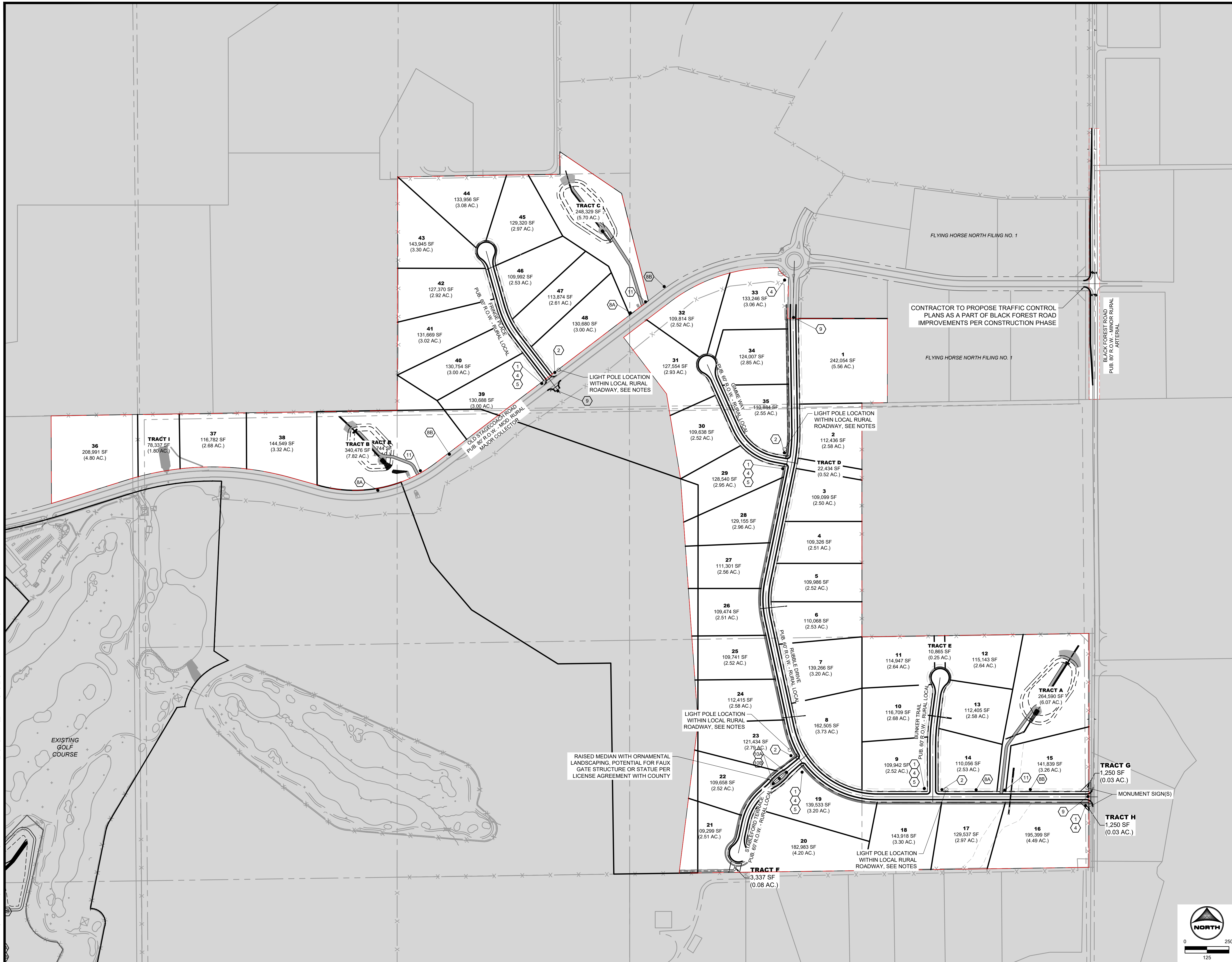
FLYING HORSE NORTH FILING 4
PRI #2, LLC.
EL PASO COUNTY, CO

INTERSECTION DETAILS
ROADWAY INTERSECTION DETAILS

SHEET
ST
12



SHEET
ST 13



1 **STOP**
R-1
SINGLE LANE 30"x30"

2 **NO OUTLET**
R2-1
24"x30"

3A **SPEED LIMIT 25**
R2-1
24"x30"

3B **SPEED LIMIT 30**
R2-1
24"x30"

4 **ROAD NAME**
GREEN

5 **ROAD NAME**
GREEN
W/ "NO OUTLET" PATCH

6 **ROAD NAME**
GREEN

7 **NO PARKING FIRE LANE**
R8-3
12"x18"

8A **NO PARKING FIRE LANE**
R7-32(R)
12"x18"

8B **NO PARKING FIRE LANE**
R7-32(L)
12"x18"

9 **TYPE III BARRICADE (TEMPORARY)**

10A **ROAD NAME**
R4-7
12"x24"

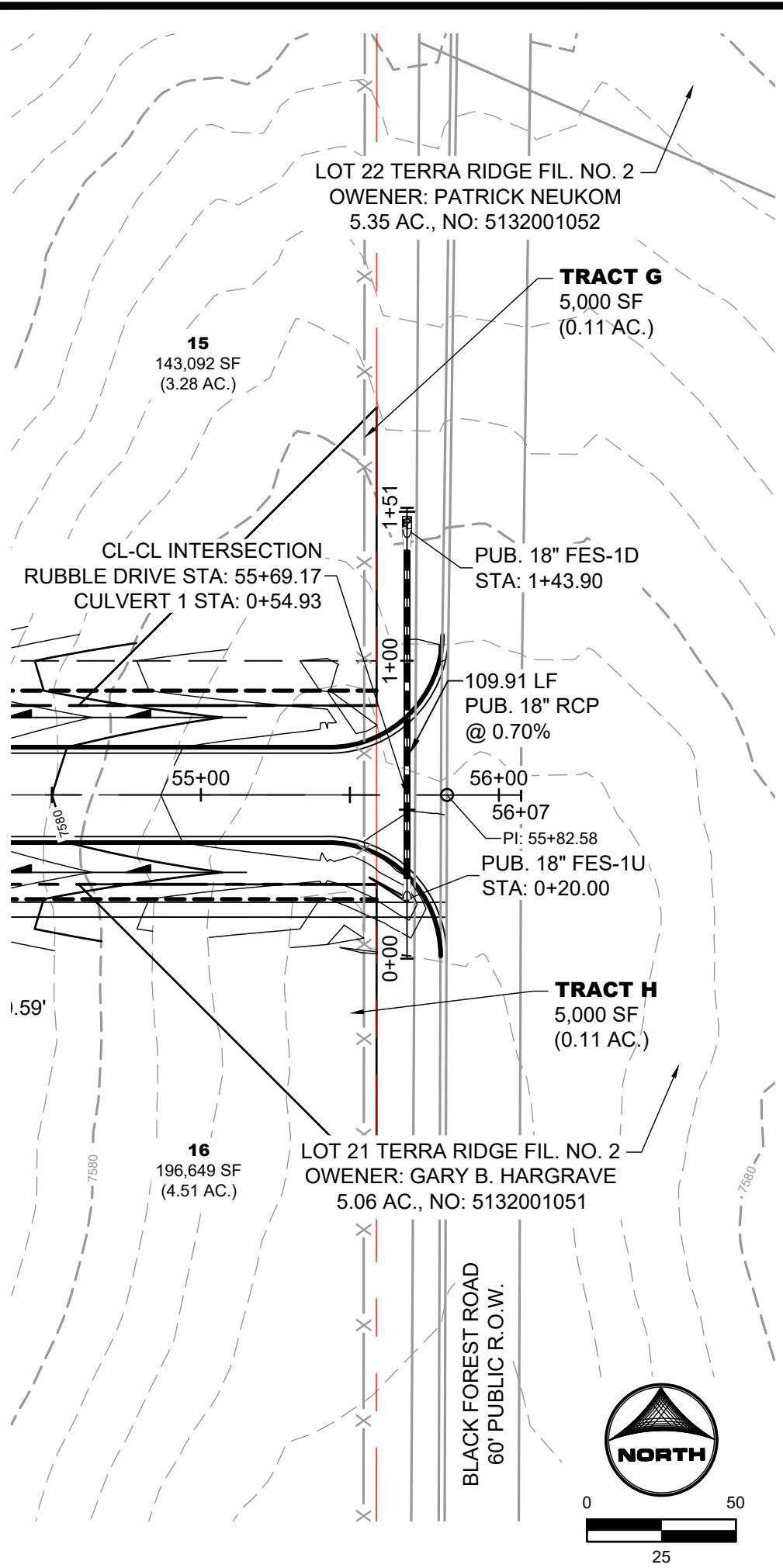
10B **GREEN**
W/ WHITE LETTERING
24"x24"

11 **NO PUBLIC ACCESS**
R4-7
12"x24"

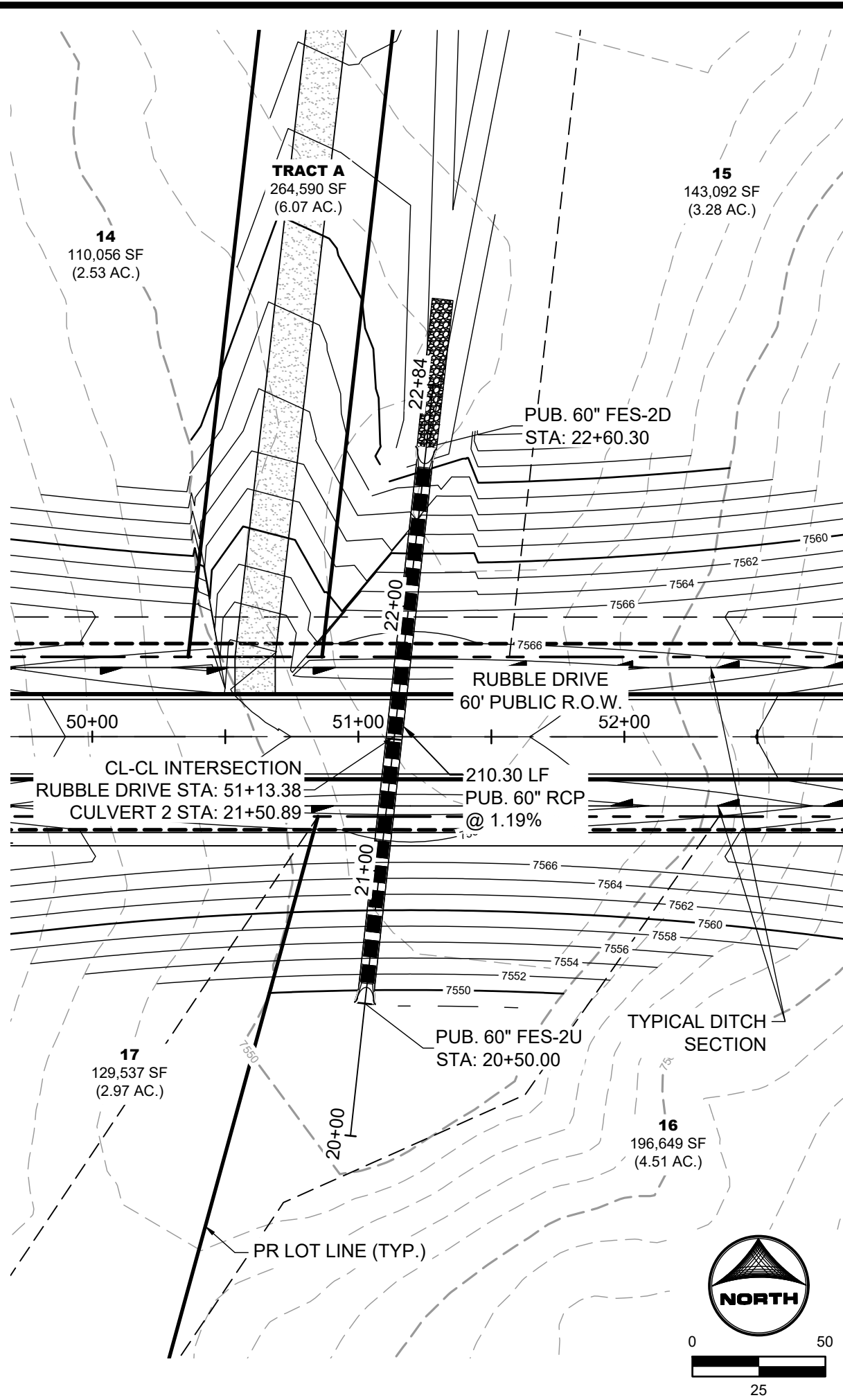
1. WHERE CONSTRUCTION DETAILS AND SPECIFICATIONS ARE NOTED ON THESE PLANS USE EL PASO COUNTY STANDARD SPECIFICATIONS FOR DESIGN AND CONSTRUCTION.
2. ALL SIGNING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LATEST EDITION.
3. PAVEMENT MARKING IS THERMOPLASTIC WITH COLOR DESIGNATED IN KEY NOTES.
4. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN ACCORDANCE WITH "THE STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" ADOPTED BY THE FEDERAL HIGHWAY ADMINISTRATION.

1. LIGHT POLE LOCATIONS WITHIN LOCAL URBAN ROADWAY AREAS ARE PER CRITERIA IN THE ECM 4.3.5.D.2 AND TABLE 2-5. WHERE REQUIRED POLE LOCATIONS BY CODE ARE 5.0 FEET MINIMUM FROM EDGE OF ASPHALT AND WITHIN RIGHT-OF-WAY.
2. PROPOSED LIGHT POLE LOCATIONS WITHIN THE LOCAL RURAL ROADWAY AREAS ARE 20' FROM EOA.

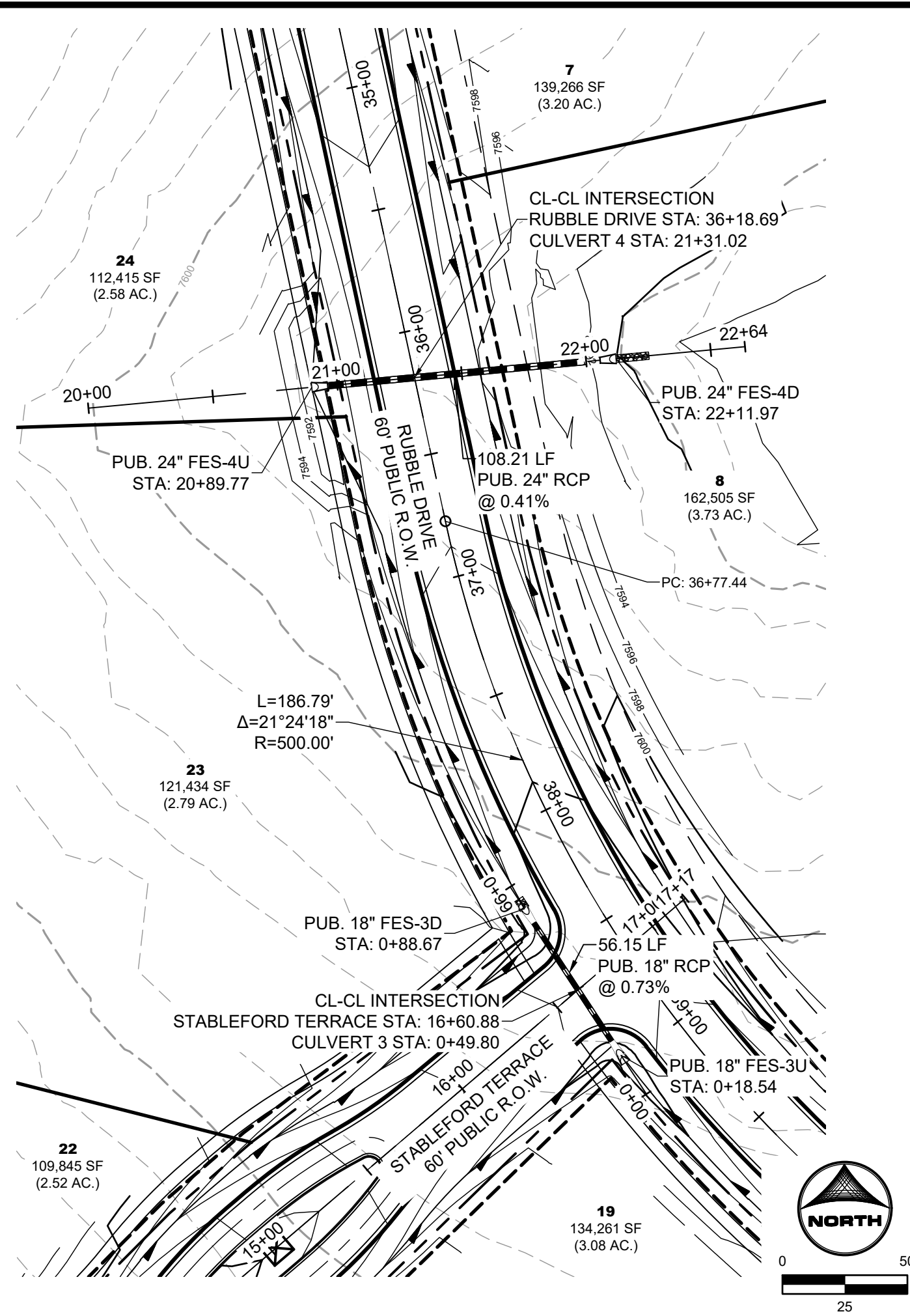
- 1 ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT
- 2 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 3 2. REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD
- 4 THAT DOES NOT DAMAGE THE UNDERLYING PAVEMENT. PAVEMENT MARKINGS SHALL
- 5 BE REMOVED TO THE EXTENT THAT THEY WILL NOT BE VISIBLE UNDER DAY OR NIGHT
- 6 CONDITIONS. AT NO TIME WILL IT BE ACCEPTABLE TO PAINT OVER EXISTING PAVEMENT
- 7 MARKINGS.
- 8 3. ANY SIGNATION FORM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY EL PASO
- 9 COUNTY PLANNING AND COMMUNITY DEVELOPMENT.
- 10 ALL SIGNS SHOWN ON THE SIGNING AND STRIPING PLAN SHALL BE NEW SIGNS. EXISTING
- 11 SIGNS WILL REMAIN OR BE REUSED IF THEY MEET CURRENT EL PASO COUNTY AND MUTCD
- 12 STANDARDS.
- 13 4. STREET NAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT
- 14 INTERSECTIONS.
- 15 5. ALL REGULAR SIGNS SHALL BE DISPOSED OF IN A PROPER MANNER BY THE CONTRACTOR
- 16 6. ALL STREET NAME SIGNS SHALL HAVE "D" SERIES LETTERS, WITH LOCAL ROADWAY SIGNS
- 17 BEING 4" UPPER-LOWER CASE LETTERING ON 8" BLANK AND NON-LOCAL ROADWAY SIGNS
- 18 BEING 6" LETTERING. UPPER-LOWER CASE ON 12" BLANK, WITH A WHITE BORDER THAT IS
- 19 REQUIRED TO BE WIDTH OF THE SIGN. ALL SIGN BORDER SIZES SHALL MATCH PAGE 255
- 20 OF THE 2012 MUTCD "STANDARD HIGHWAY SIGNS".
- 21 7. ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING
- 22 THAT MEETS THE REQUIREMENTS OF THE MUTCD, SECTION 2.17.5. ALL TRAFFIC SIGNS
- 23 SIGN POST AND SUB POST BASES FOR OTHER APPLICATIONS, REFER TO THE CDDT
- 24 STANDARD S-614-8 REGARDING USE OF THE P2 TUBULAR STEEL POST SUBBASE DESIGN.
- 25 8. ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH A 1/16" MINIMUM THICKNESS.
- 26 9. ALL REGULAR SIGNS SHALL BE 12" WIDE BY 18" HIGH. ALL STOP SIGNS AND ARROWS SHALL
- 27 BE A MINIMUM 125 MIL THICKNESS PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
- 28 WITH TAPERED LEADING EDGES PER CDDT STANDARD S-627-1. WORD AND SYMBOL
- 29 MARKINGS SHALL BE THE NARROW TYPE. STOP BARS SHALL BE 24" IN WIDTH. CROSSWALK
- 30 MARKINGS SHALL BE 12" WIDE BY 18" HIGH.
- 31 10. ALL LONGITUDINAL LINES SHALL BE A MINIMUM 15 MIL THICKNESS EPOXY PAINT. ALL
- 32 NON-LOCAL RESIDENTIAL ROADWAYS SHALL INCLUDE BOTH RIGHT AND LEFT EDGE LINE
- 33 STRIPING AND AN ADDITIONAL STRIPING AS REQUIRED BY THE CDDT S-627-1.
- 34 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PLANNING AND COMMUNITY
- 35 DEVELOPMENT (719.526.6819) PRIOR TO AND UPON COMPLETION OF SIGNING AND STRIPING
- 36 12. THE CONTRACTOR SHALL OBTAIN A WORK IN THE RIGHT OF WAY PERMIT FROM THE EL
- 37 PASO COUNTY DEPARTMENT OF PUBLIC WORKS PRIOR TO ANY SIGNAGE OR
- 38 STRIPING WORK WITHIN AND EXISTING EL PASO COUNTY ROADWAY.



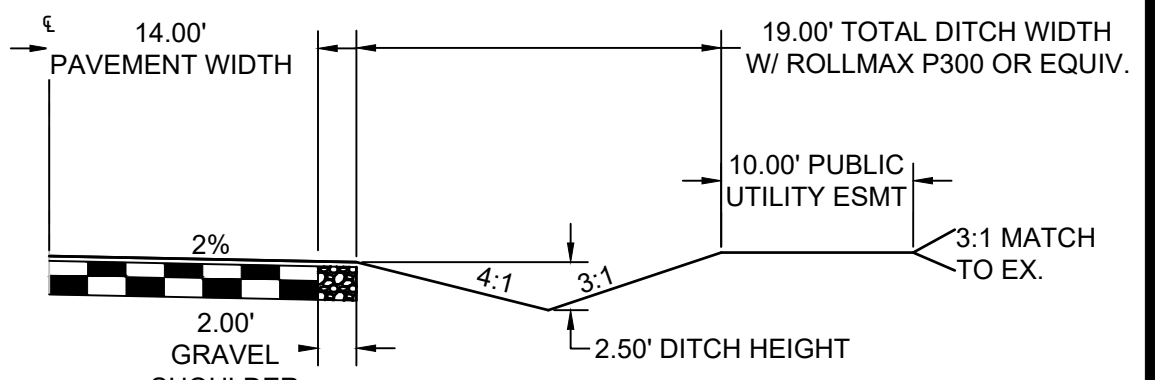
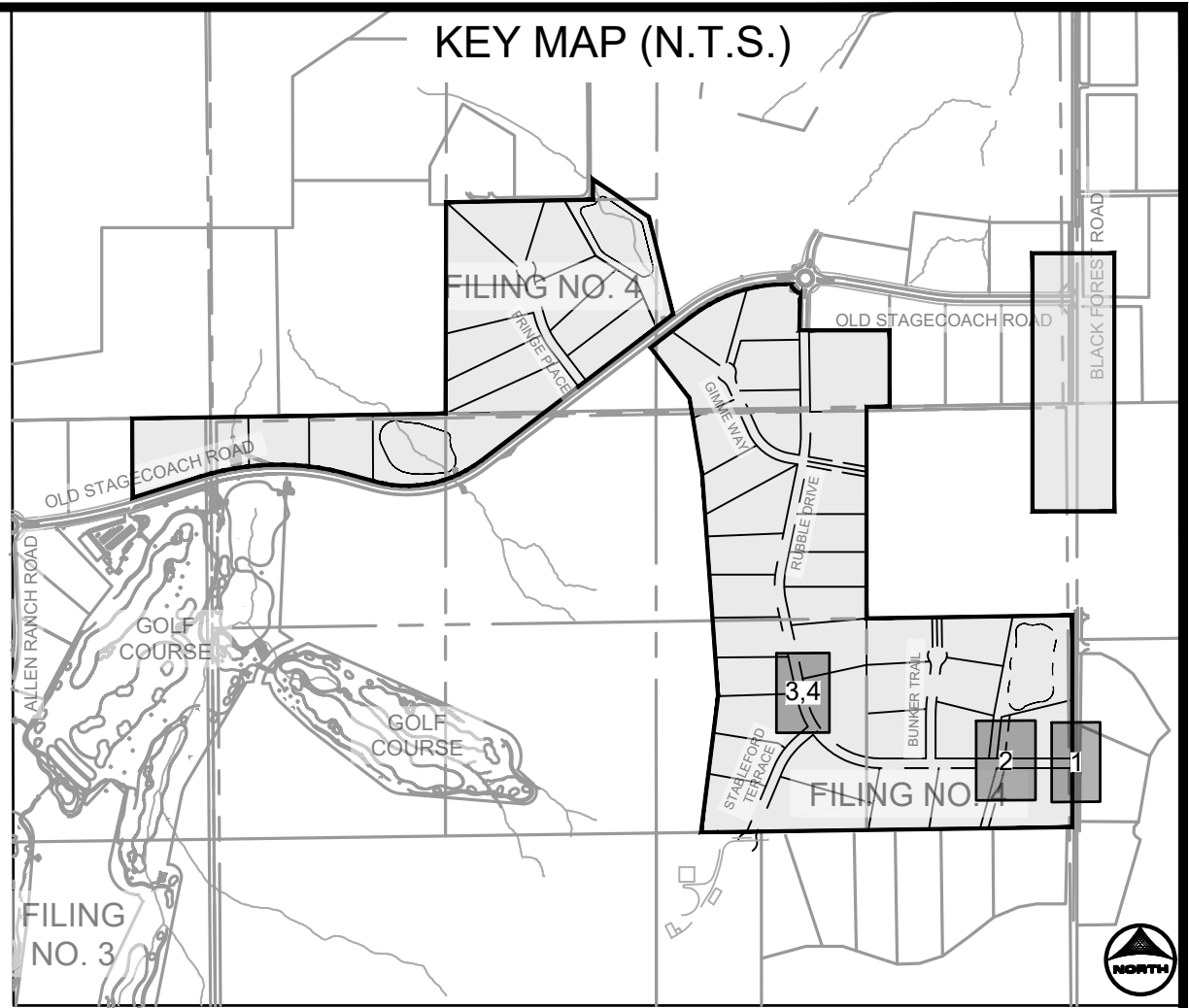
CULVERT 1
PUB. STORM CULVERT PIPE WITHIN
RUBBLE DRIVE AND BLACK FORST ROAD
PUB. 60" R.O.W. - RURAL LOCAL RESIDENTIAL



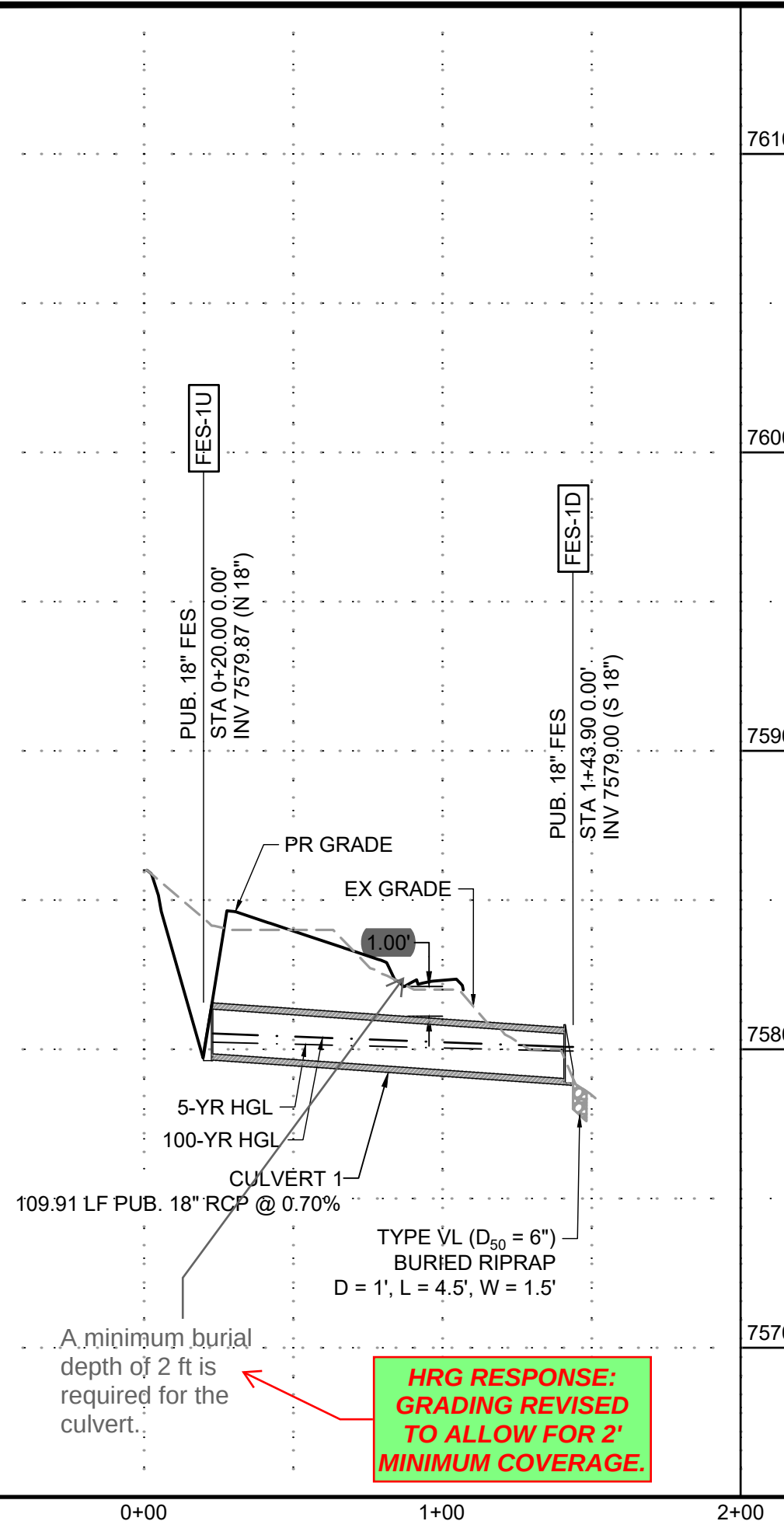
CULVERT 2
PUB. STORM CULVERT PIPE WITHIN RUBBLE DRIVE
PUB. 60" R.O.W. - RURAL LOCAL RESIDENTIAL



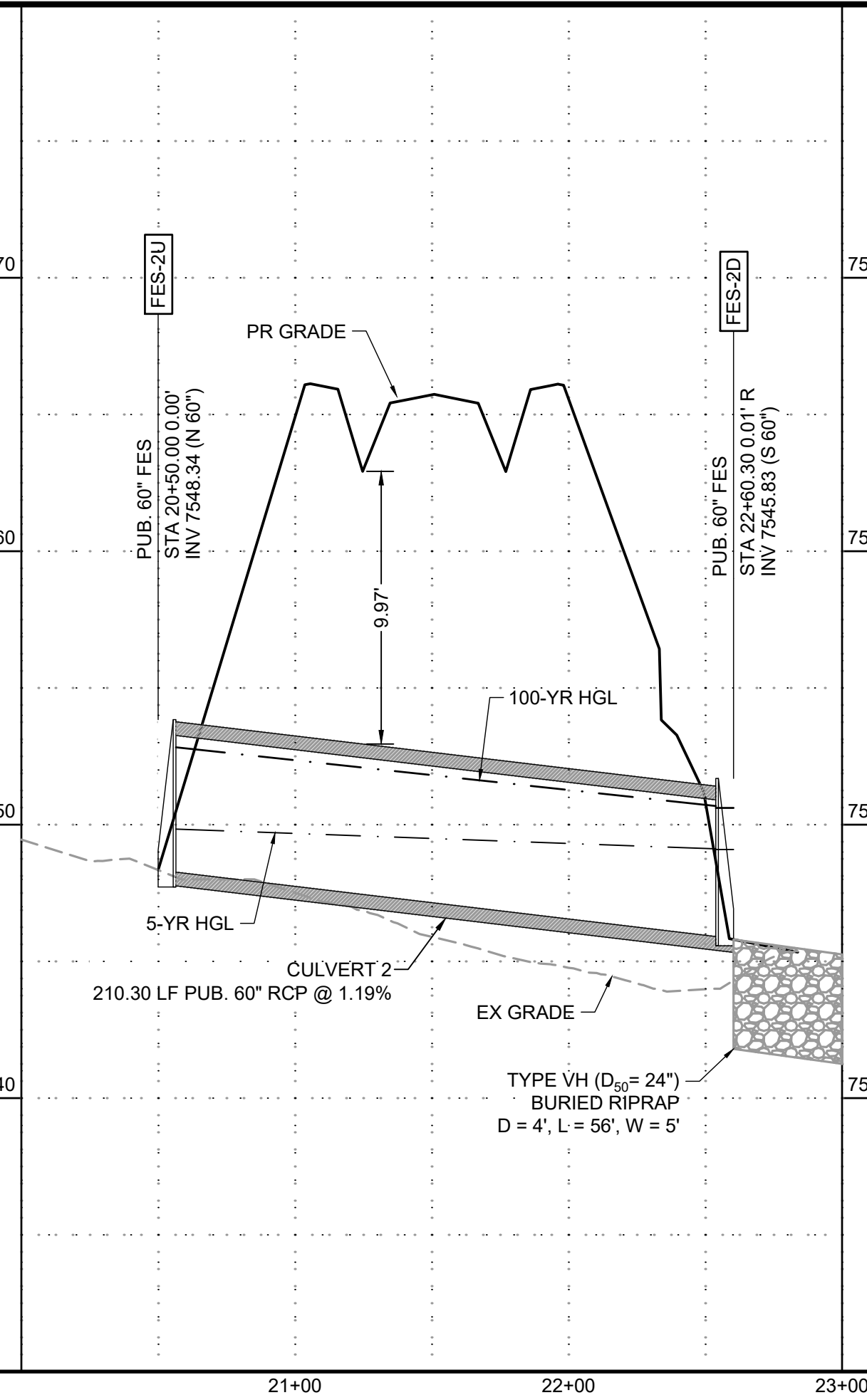
CULVERT 3
PUB. STORM CULVERT PIPE WITHIN
STABLEFORD TERRACE AND RUBBLE DRIVE
PUB. 60" R.O.W. - RURAL LOCAL RESIDENTIAL



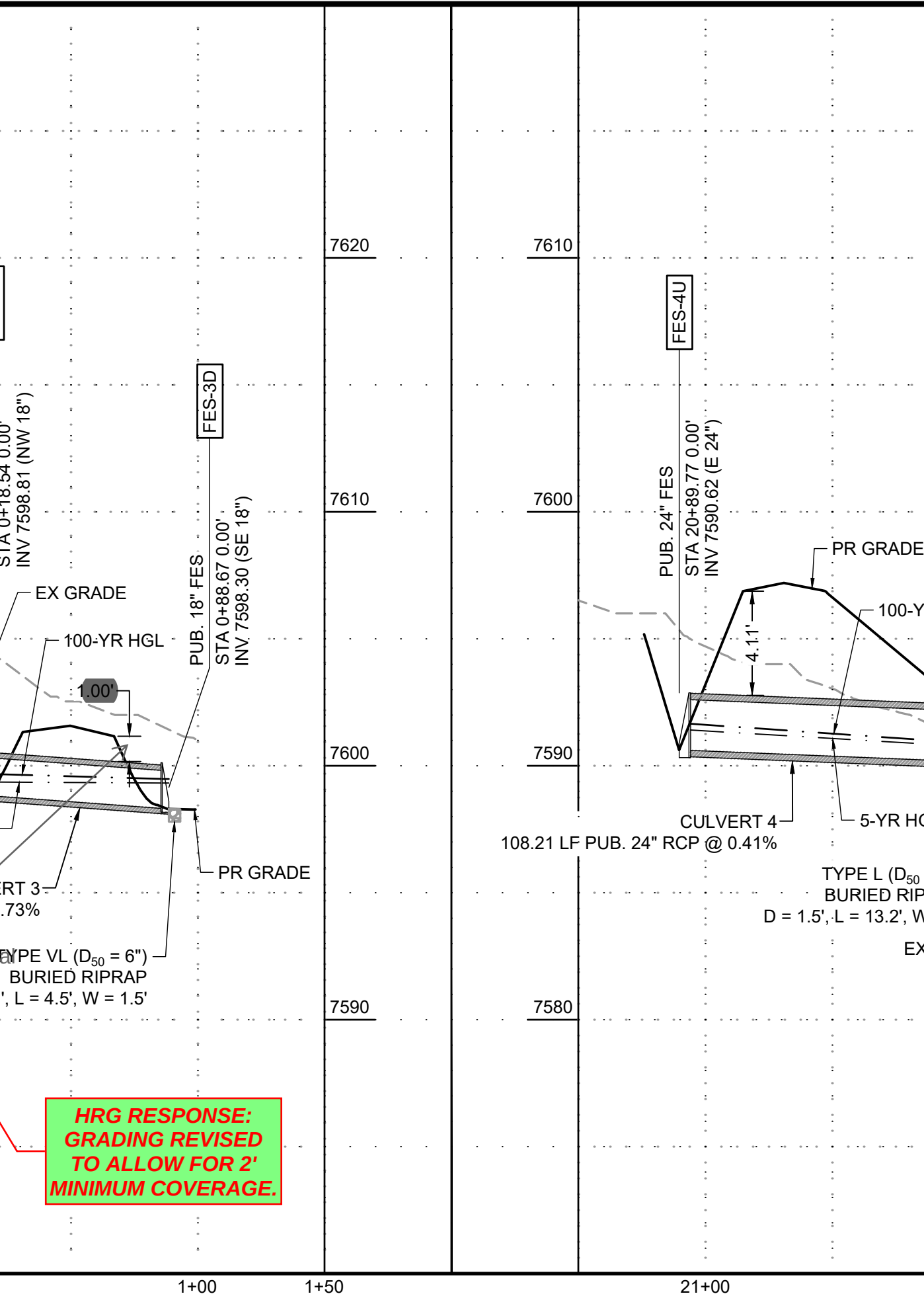
TYPICAL ROADSIDE DITCH SECTION
SCALE: 1"=10'
(ROADS USING THIS SECTION: A PORTION OF RUBBLE DRIVE, GIMME WAY, STABLEFORD TERRACE, BUNKER TRAIL, & FRINGE PLACE)



CULVERT 1
PUB. STORM CULVERT PIPE WITHIN
RUBBLE DRIVE AND BLACK FORST ROAD
PUB. 60" R.O.W. - RURAL LOCAL RESIDENTIAL



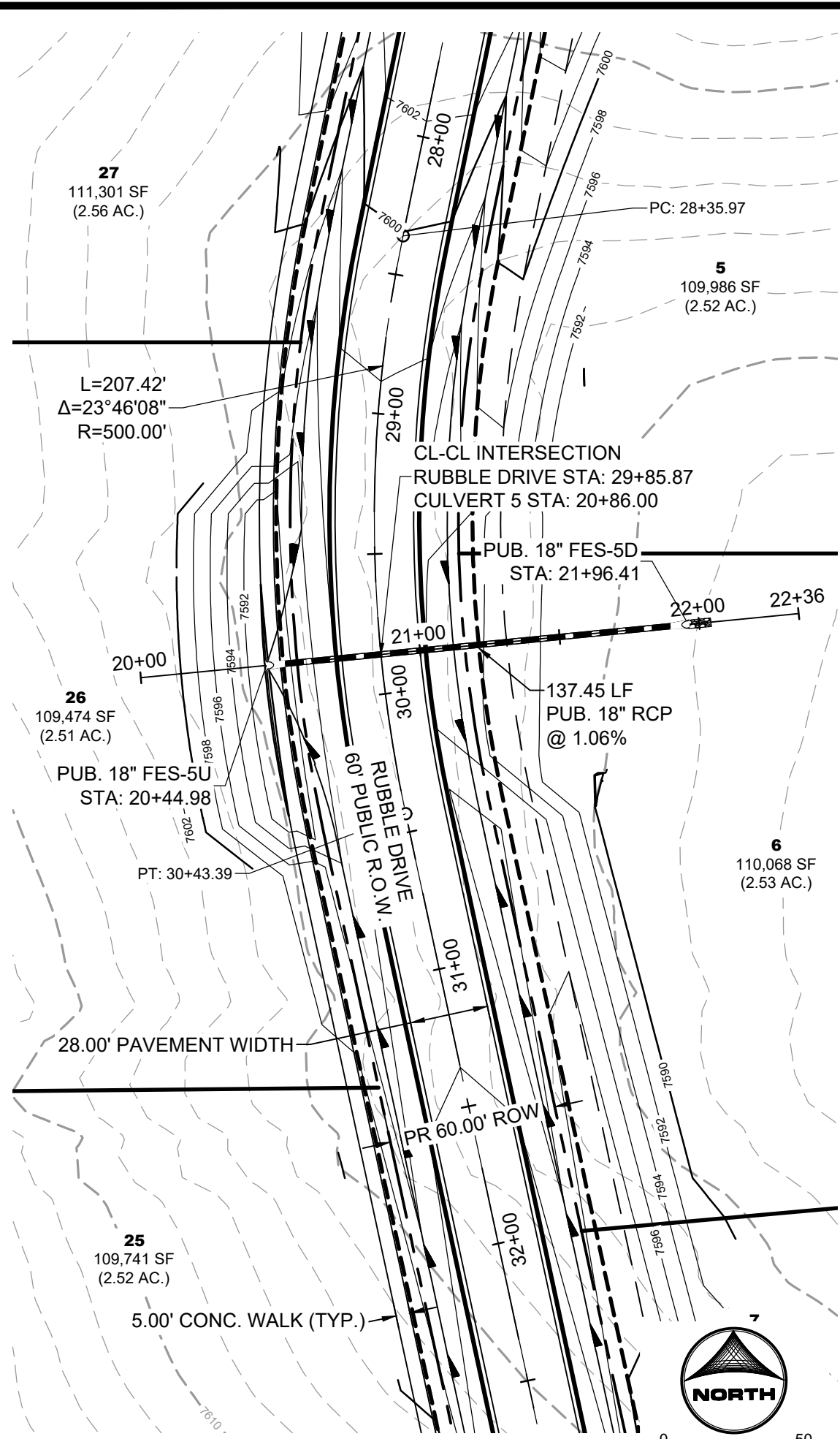
CULVERT 2
PUB. STORM CULVERT PIPE WITHIN RUBBLE DRIVE
PUB. 60" R.O.W. - RURAL LOCAL RESIDENTIAL



CULVERT 3
PUB. STORM CULVERT PIPE WITHIN
STABLEFORD TERRACE AND RUBBLE DRIVE
PUB. 60" R.O.W. - RURAL LOCAL RESIDENTIAL

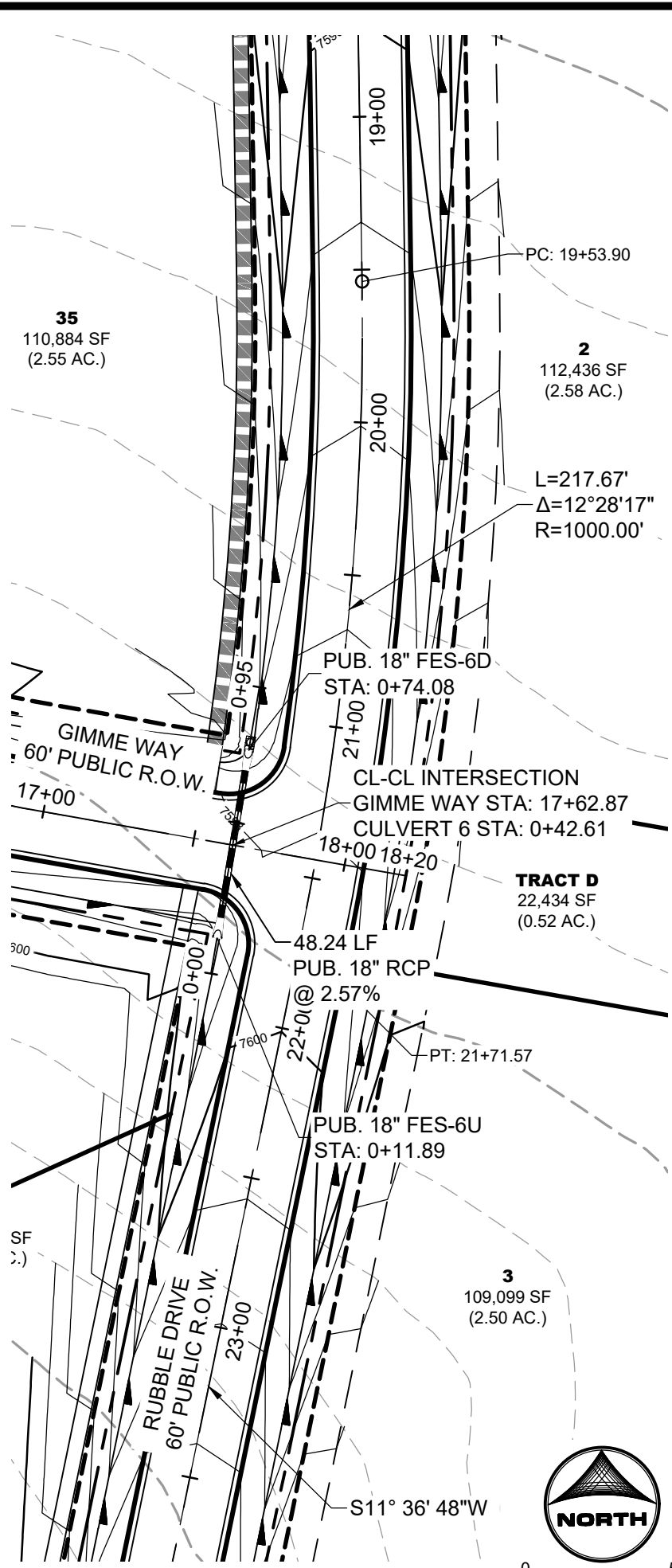


CULVERT 4
PUB. STORM CULVERT PIPE WITHIN RUBBLE DRIVE
PUB. 60" R.O.W. - RURAL LOCAL RESIDENTIAL



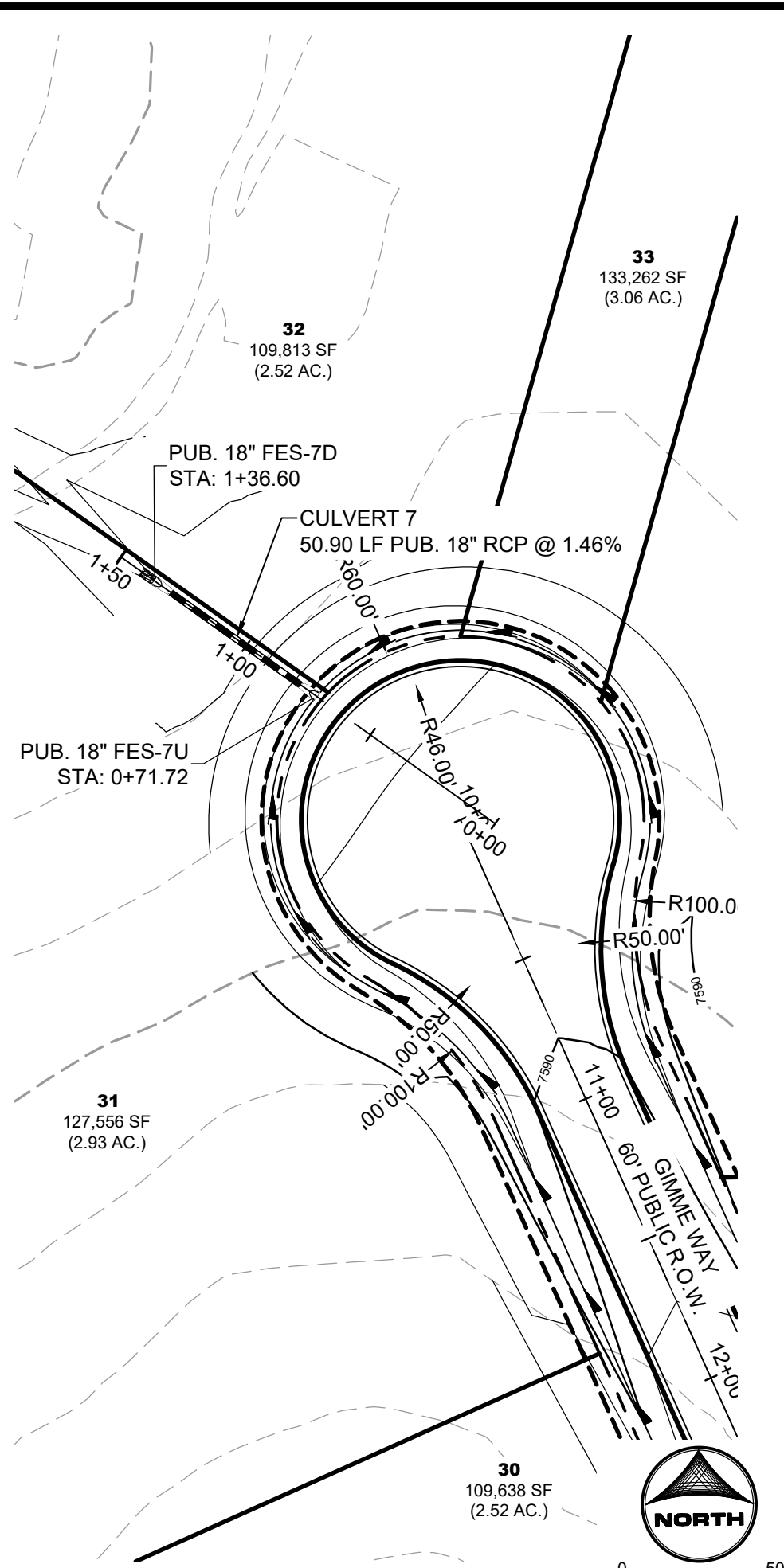
CULVERT 5

PUB. STORM CULVERT PIPE WITHIN RUBBLE DRIVE
PUB. 60' R.O.W. - RURAL LOCAL RESIDENTIAL



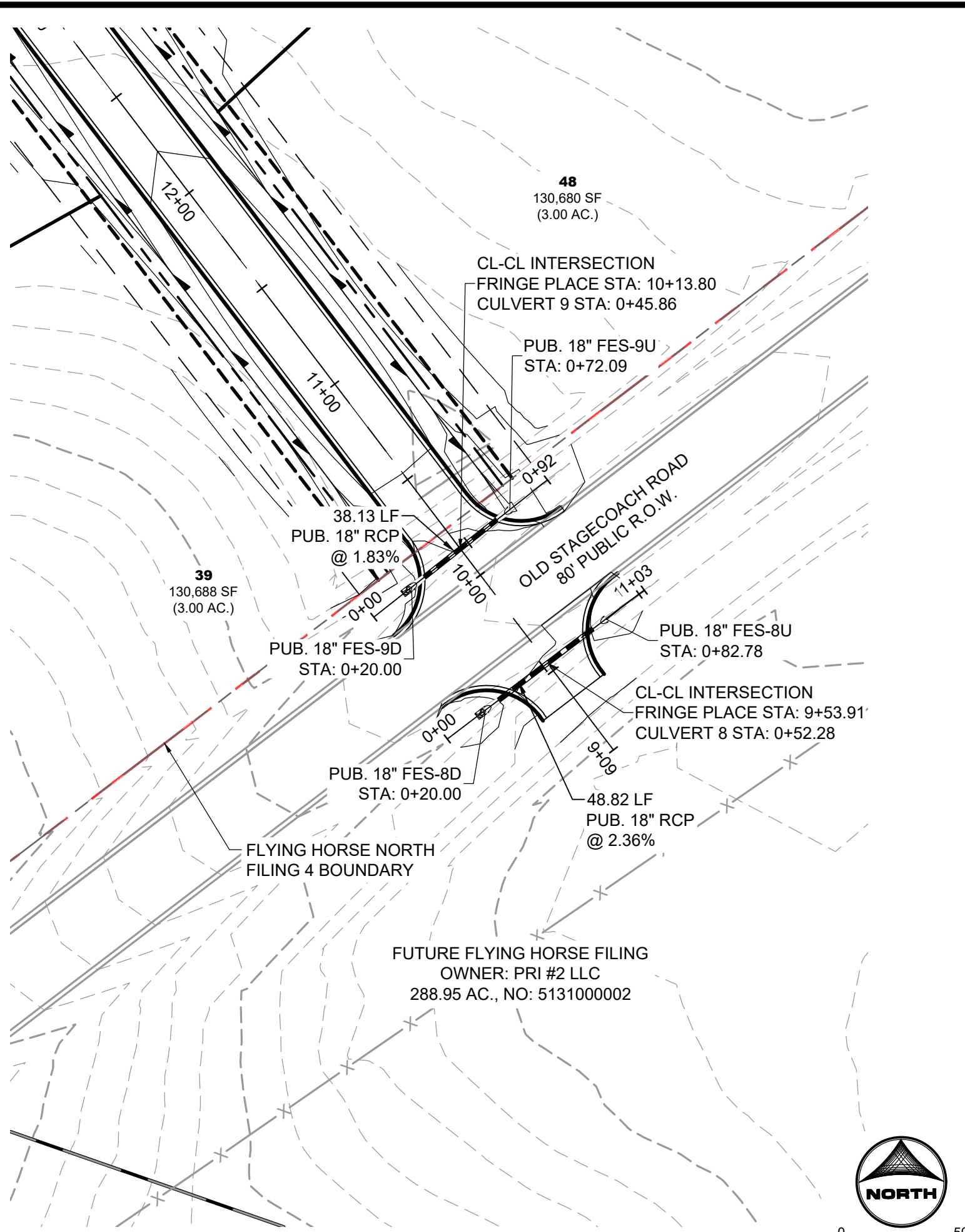
CULVERT 6

PUB. STORM CULVERT PIPE WITHIN
GIMME WAY AND RUBBLE DRIVE
PUB. 60' R.O.W. - RURAL LOCAL RESIDENTIAL



CULVERT 7

PUB. STORM CULVERT PIPE WITHIN GIMME WAY
PUB. 60' R.O.W. - RURAL LOCAL RESIDENTIAL

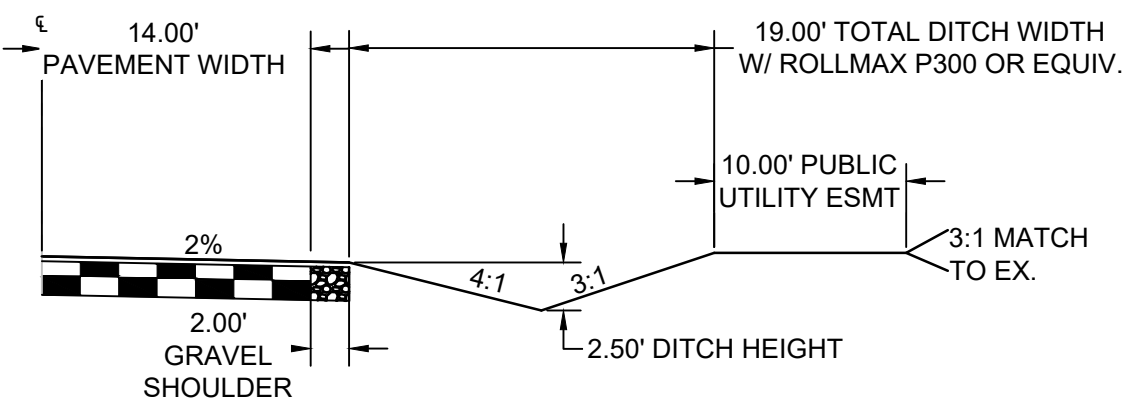
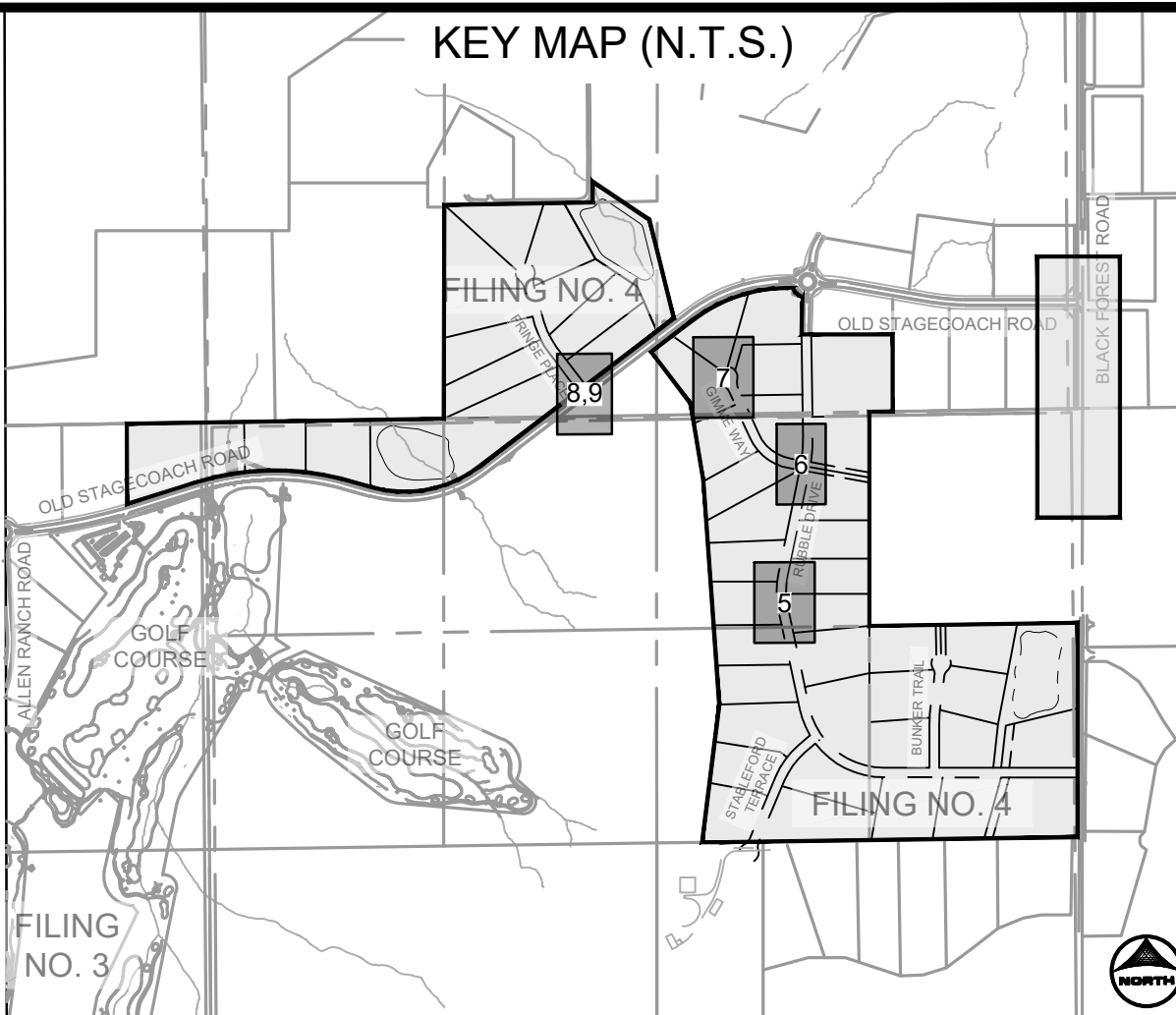


CULVERT 8

PUB. STORM CULVERT PIPE WITHIN FRINGE PLACE
(PUB. 60' R.O.W. - RURAL LOCAL RESIDENTIAL)
AND OLD STAGECOACH ROAD (PUB. 80' R.O.W. - COLLECTOR)

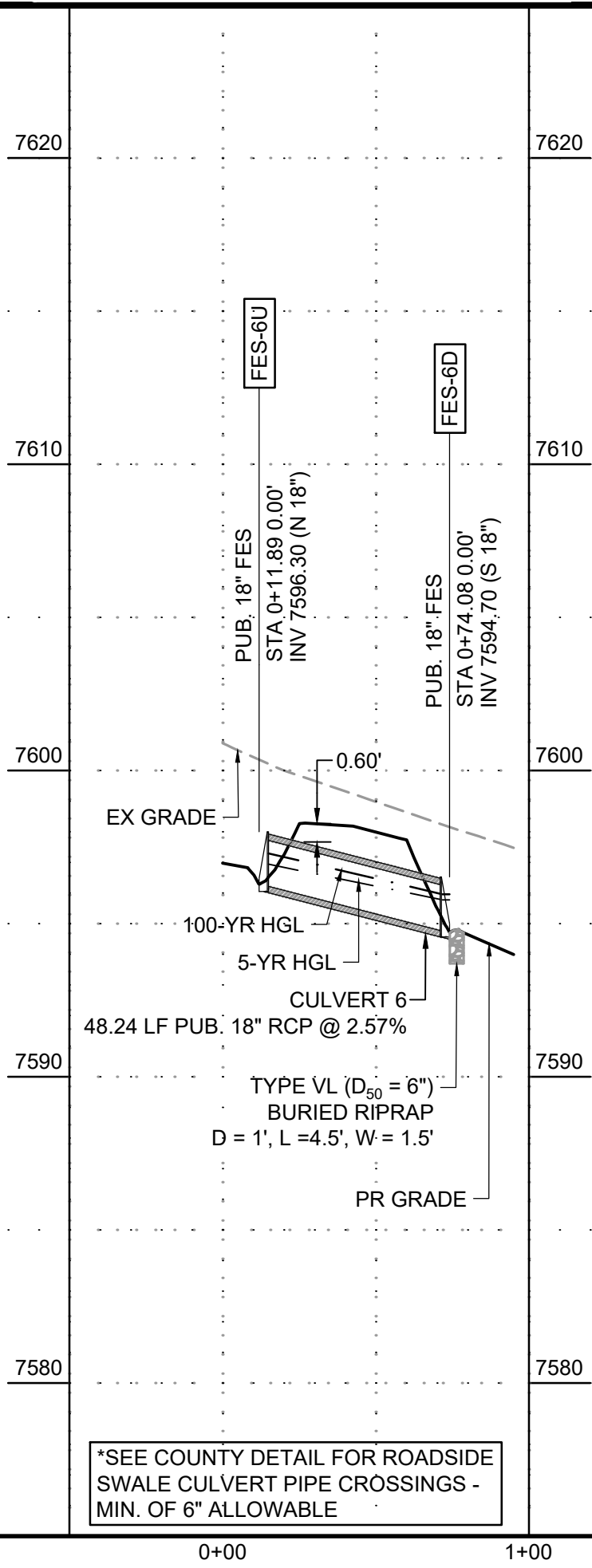
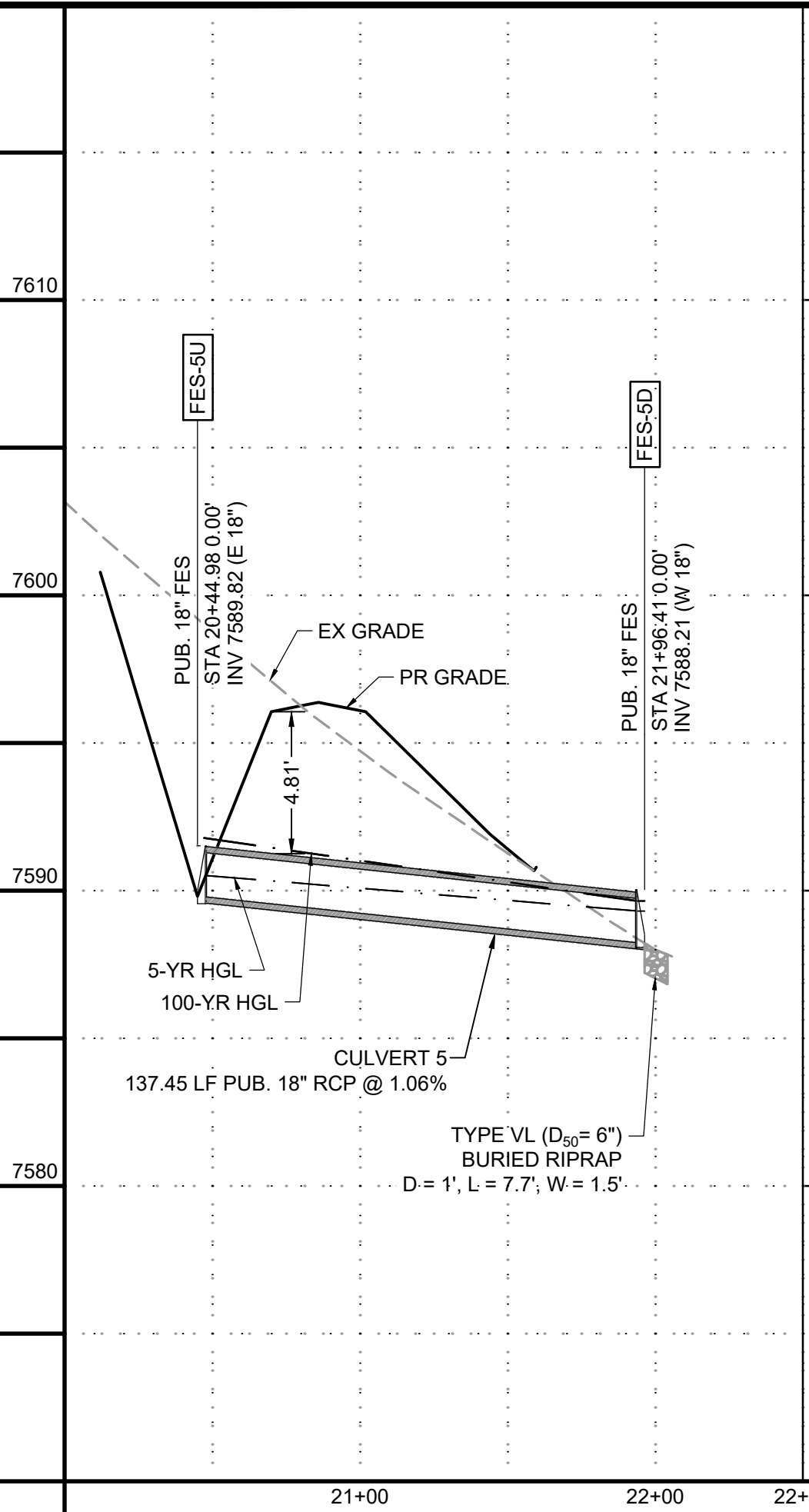
CULVERT 9

PUB. STORM CULVERT PIPE WITHIN FRINGE PLACE
(PUB. 60' R.O.W. - RURAL LOCAL RESIDENTIAL)
AND OLD STAGECOACH ROAD (PUB. 80' R.O.W. - COLLECTOR)

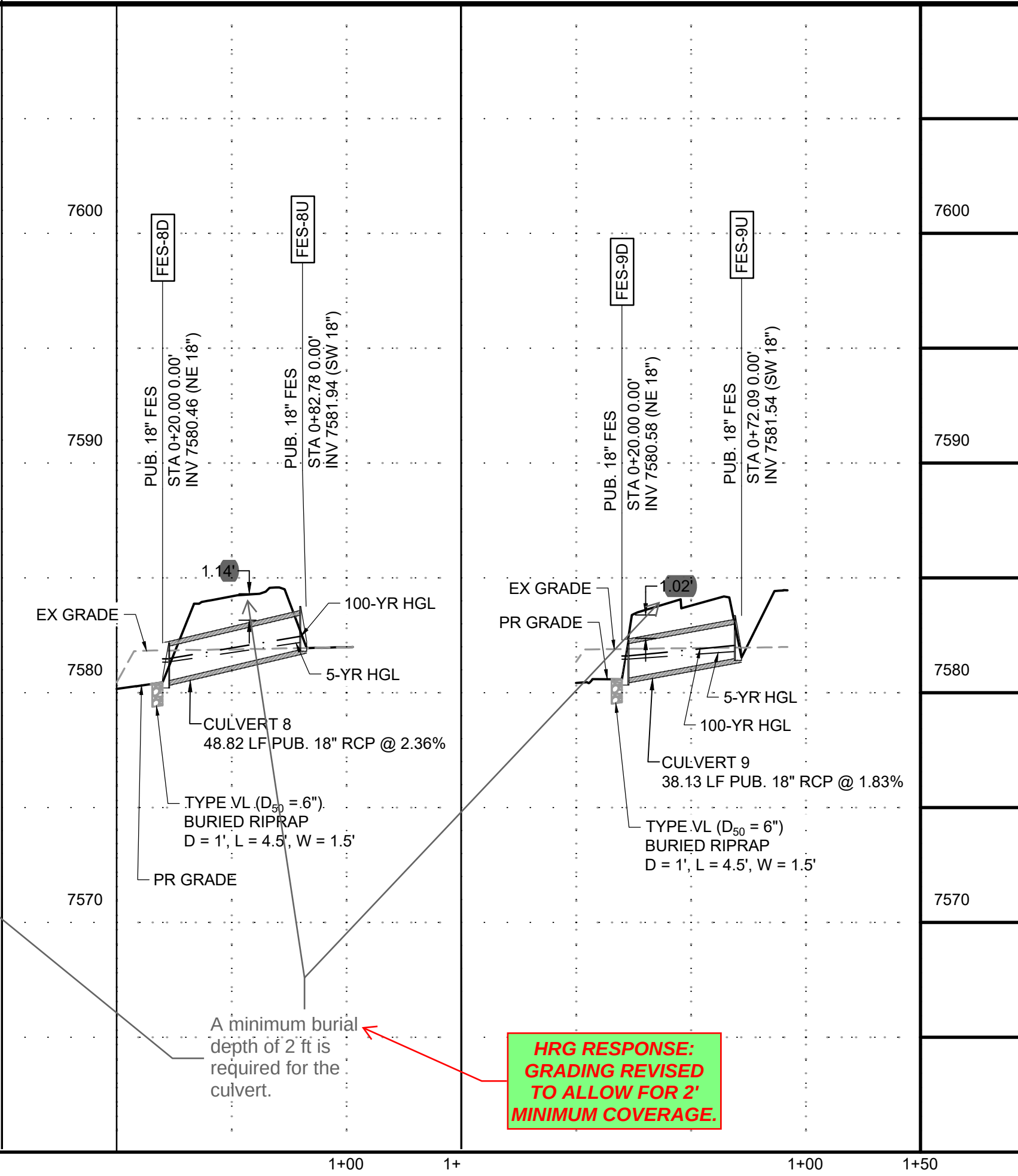
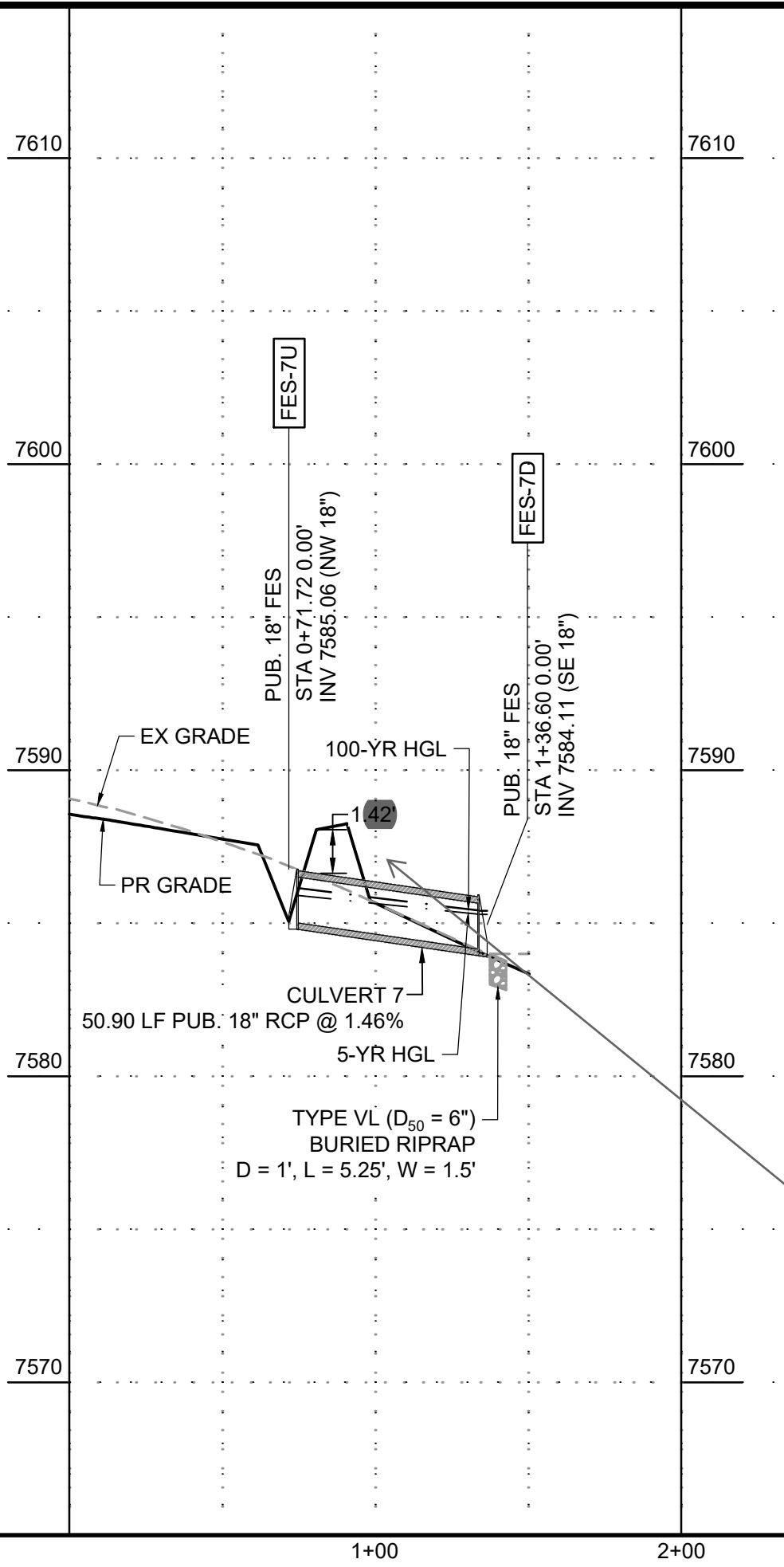


TYPICAL ROADSIDE DITCH SECTION

SCALE: 1"=10'
(ROADS USING THIS SECTION: A PORTION OF RUBBLE DRIVE, GIMME WAY, STABLEFORD TERRACE, BUNKER TRAIL, & FRINGE PLACE)

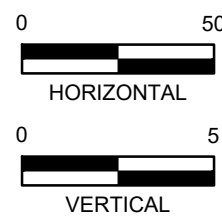


SEE COUNTY DETAIL FOR ROADSIDE
SWALE CULVERT PIPE CROSSINGS -
MIN. OF 6" ALLOWABLE



A minimum burial
depth of 2 ft is
required for the
culvert.

**HRG RESPONSE:
GRADING REVISED
TO ALLOW FOR 2'
MINIMUM COVERAGE.**



DRAWN BY: CMD JOB DATE: 9/16/2024
APPROVED: RDL JOB NUMBER: 211030.240
CAD DATE: 9/16/2024
CAD FILE: J:\2021\211030\CAD\Drawings\C\Filing_No_4\Storm_PNP

BAR IS ONE INCH ON
OFFICIAL DRAWINGS.
IF NOT ONE INCH,
ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	REVISION DESCRIPTION

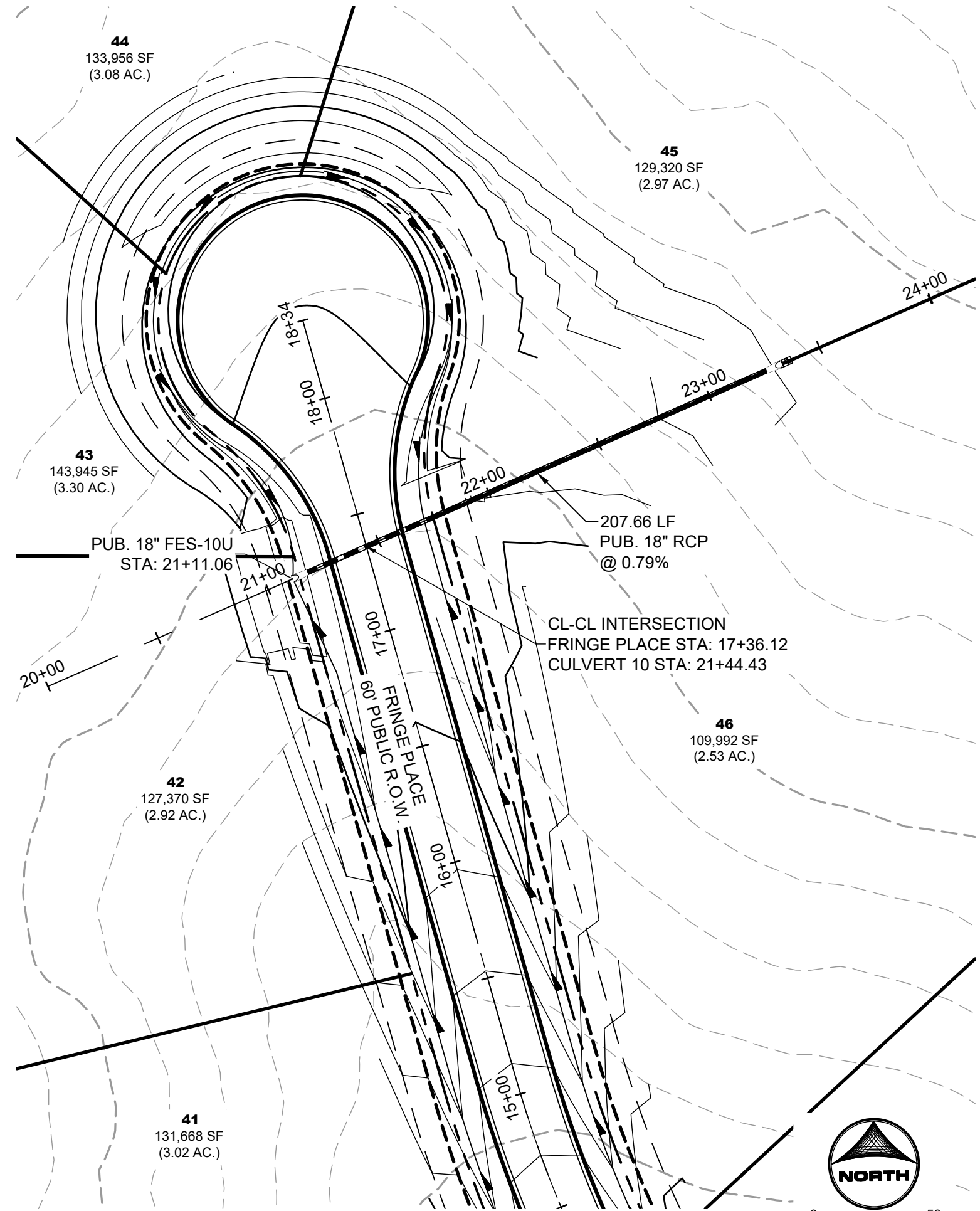
HRGreen
HR GREEN - COLORADO SPRINGS
1975 RESEARCH PARKWAY SUITE 160
COLORADO SPRINGS, CO 80920
PHONE: 719.300.4140
FAX: 719.965.0044

FLYING HORSE NORTH FILING 4
PRI #2, LLC.
EL PASO COUNTY, CO

STORM SEWER PLAN & PROFILES
STORM CULVERTS

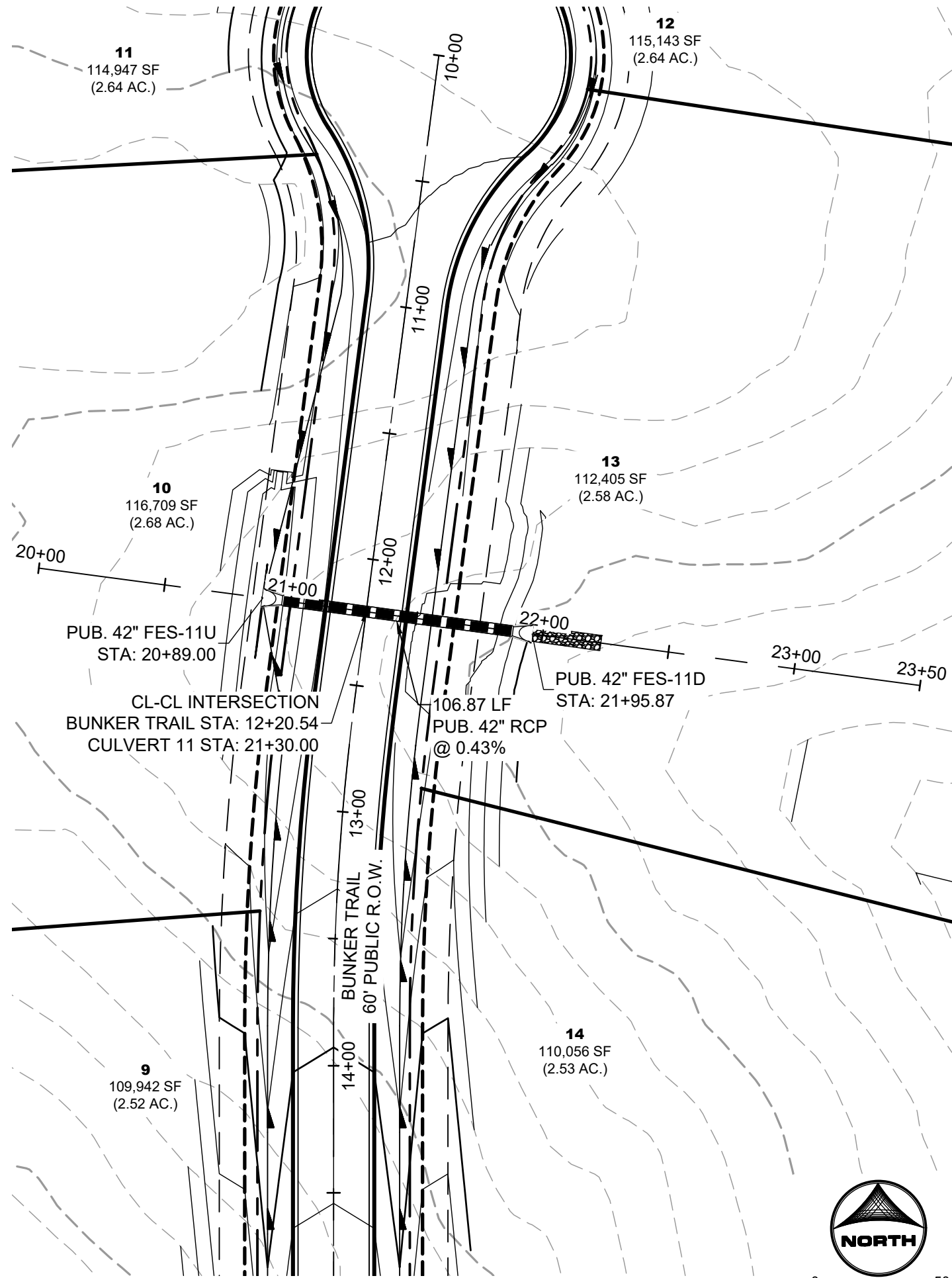
SHEET
STM

16



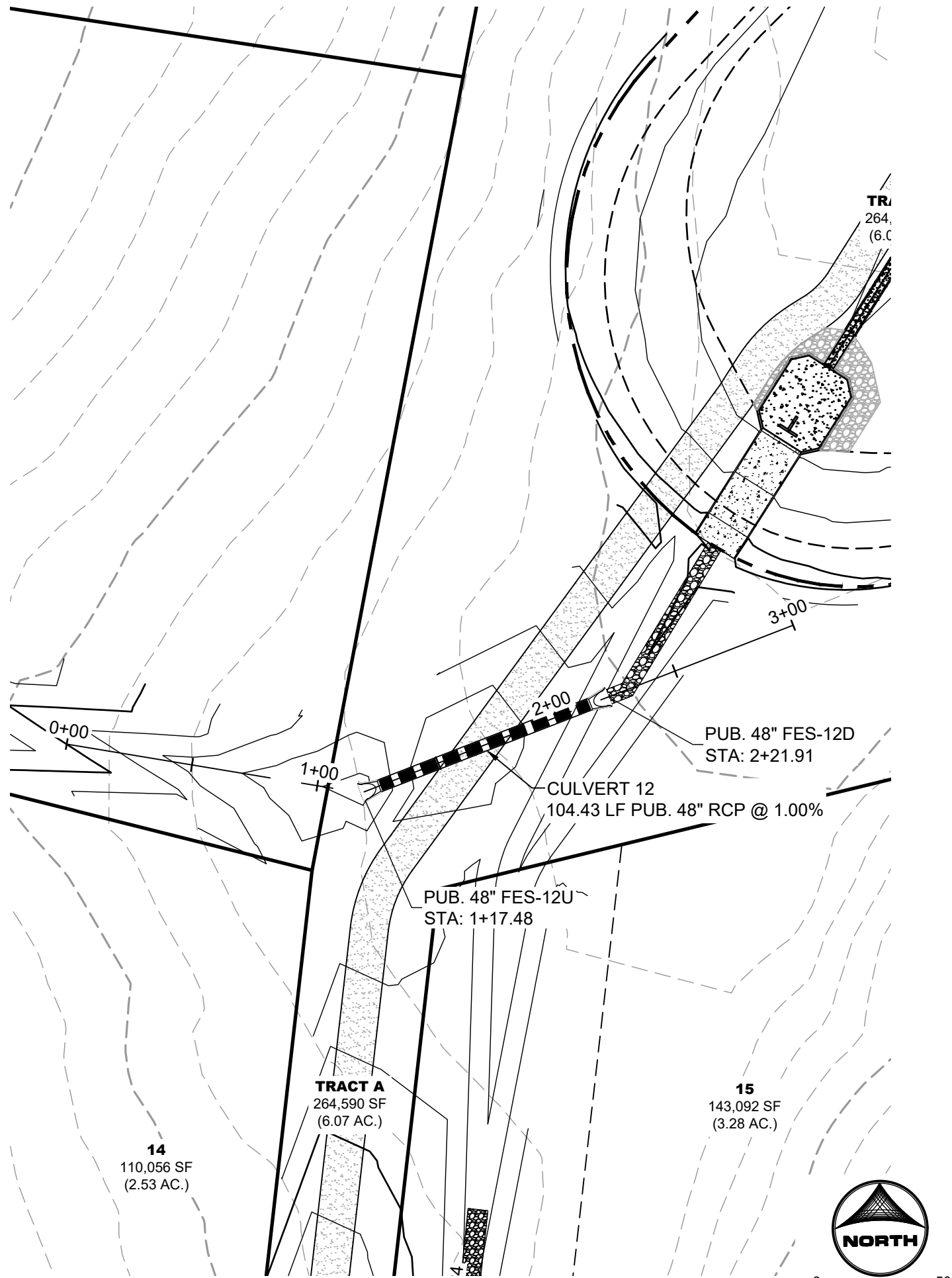
CULVERT 10

PUB. STORM CULVERT PIPE WITHIN FRINGE PLACE
PUB. 60' R.O.W. - RURAL LOCAL RESIDENTIAL



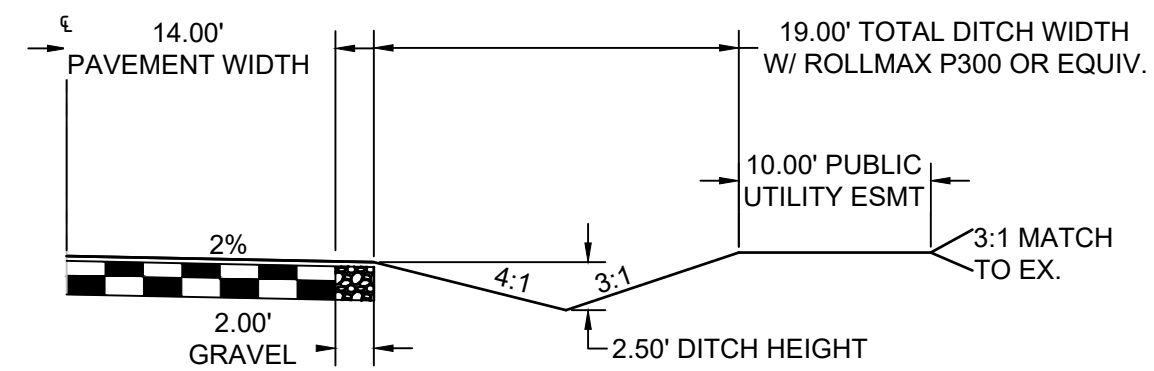
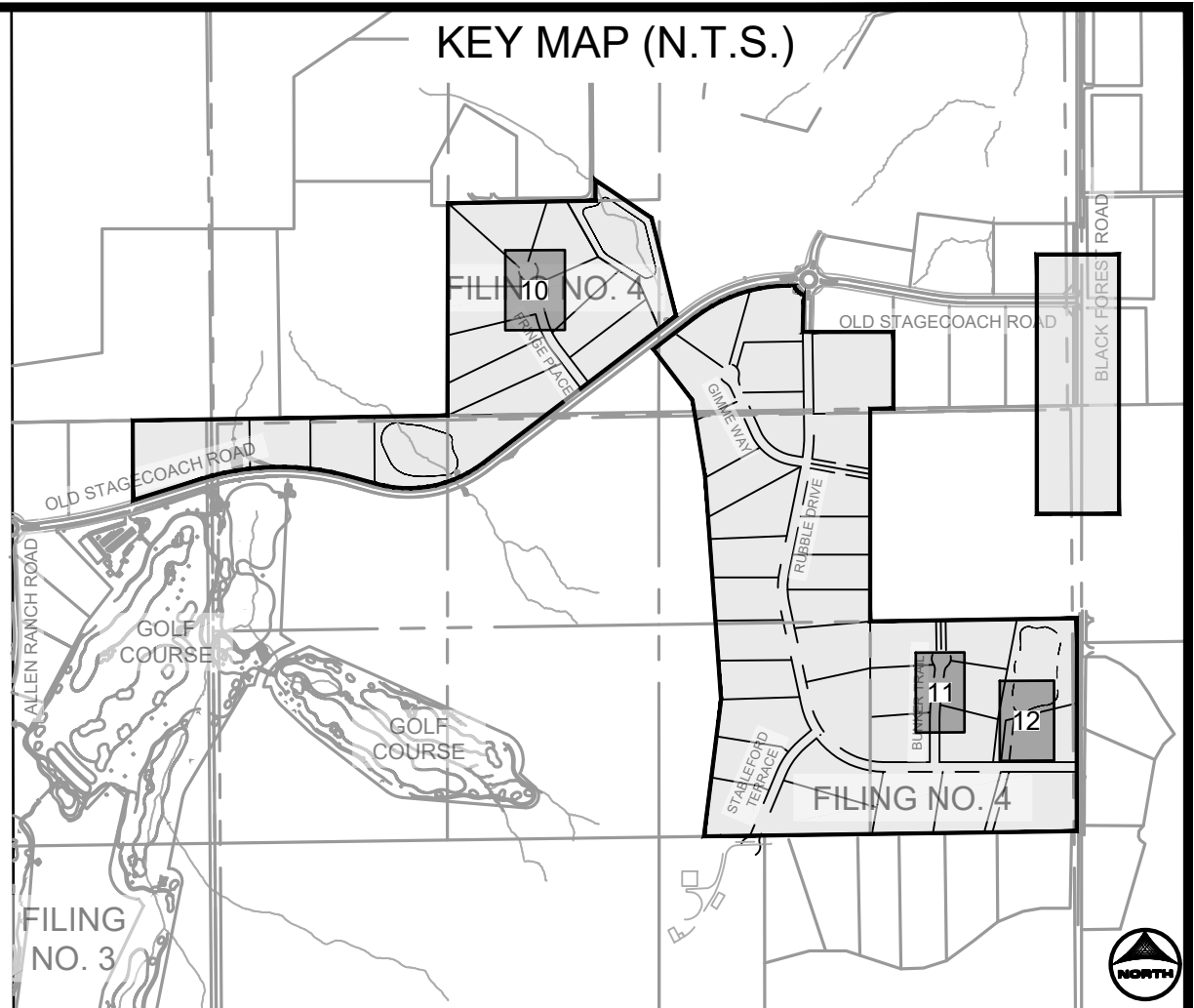
CULVERT 11

PUB. STORM CULVERT PIPE WITHIN BUNKER TRAIL
PUB. 60' R.O.W. - RURAL LOCAL RESIDENTIAL



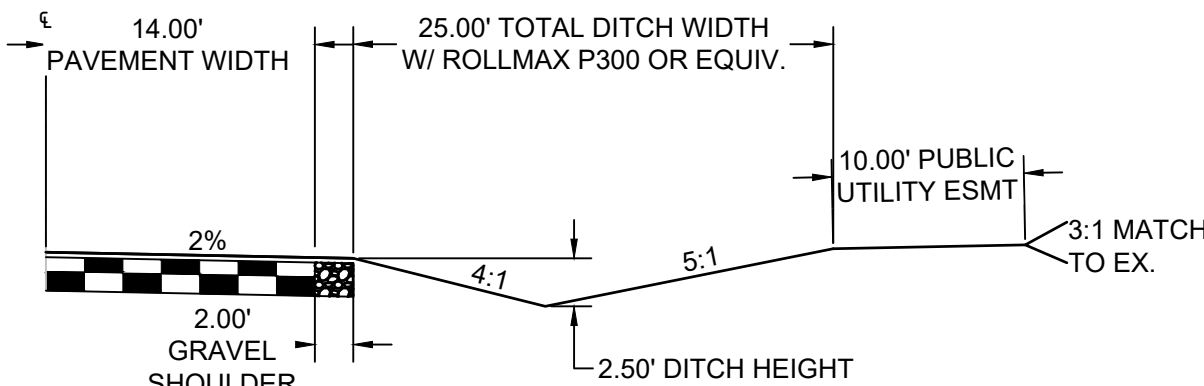
CULVERT 12

PUB. STORM CULVERT PIPE



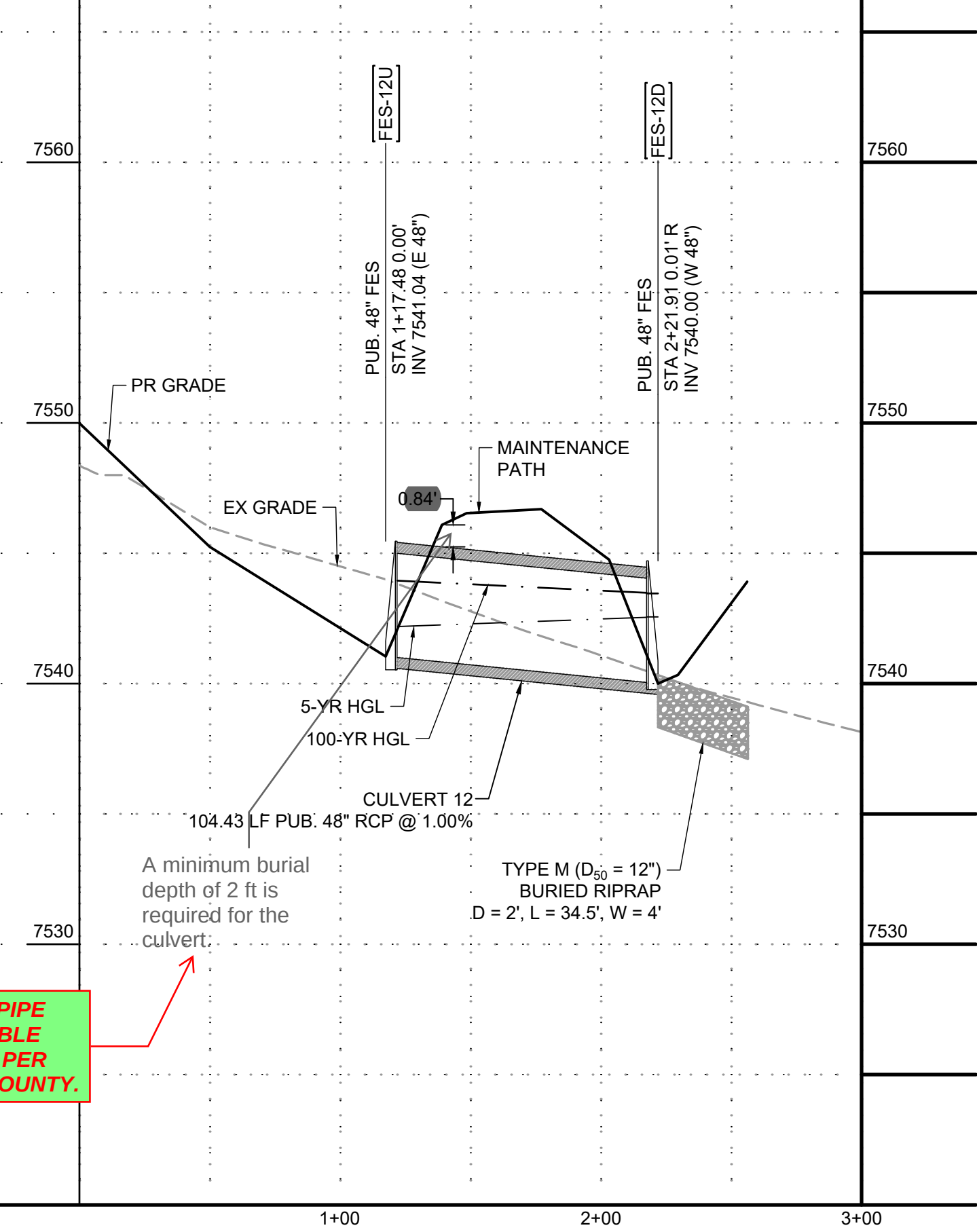
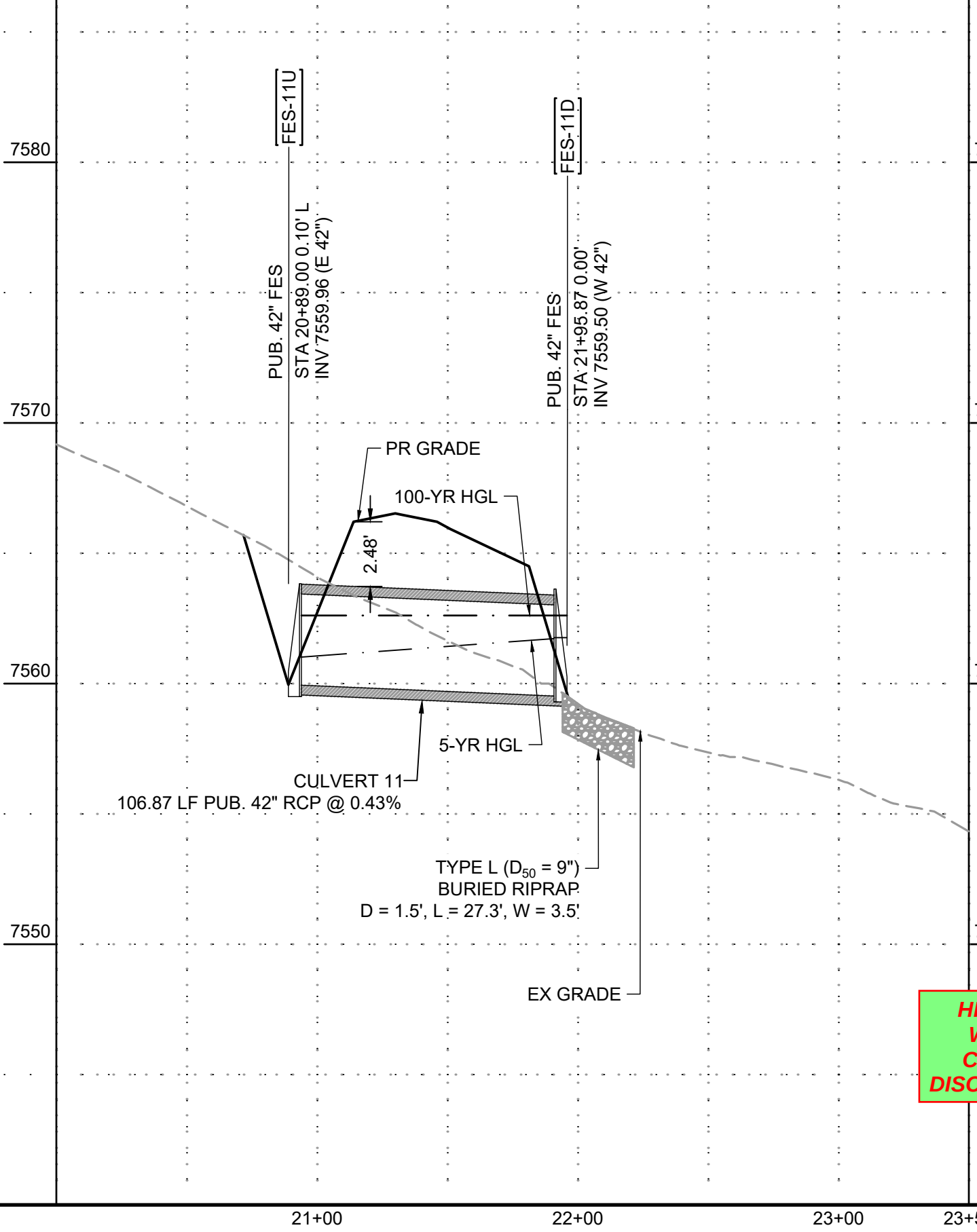
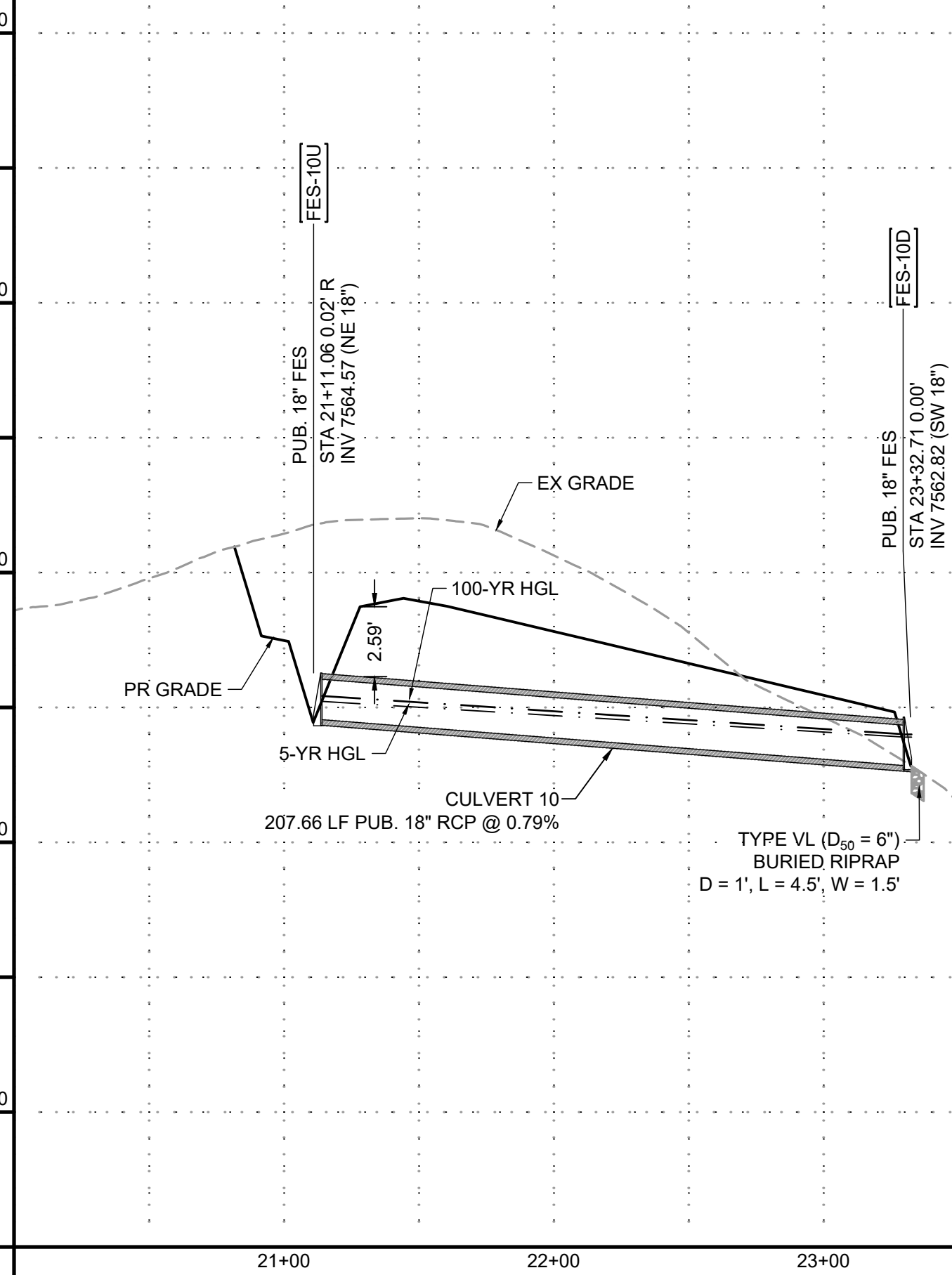
TYPICAL ROADSIDE DITCH SECTION

SCALE: 1"=10'
(ROADS USING THIS SECTION: A PORTION OF RUBBLE DRIVE, GIMME WAY, STAFFORD TERRACE, BUNKER TRAIL, & FRINGE PLACE)



EXPANDED ROADSIDE DITCH SECTION

SCALE: 1"=10'
(ROADS USING THIS SECTION: EAST SIDE OF FRINGE PLACE)



HRG RESPONSE: PIPE
WITHIN ALLOWABLE
COVERAGE OF 1' PER
DISCUSSION WITH COUNTY.

DRAWN BY: CMD JOB DATE: 9/16/2024
APPROVED: RDL JOB NUMBER: 211030.240
CAD DATE: 9/19/2024
CAD FILE: J:\2021\211030\CAD\DWG\I\C\Filing_No_4\Storm_PNP

BAR IS ONE INCH ON
OFFICIAL DRAWINGS.
0 1" IF NOT ONE INCH,
ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	REVISION DESCRIPTION

HR GREEN - COLORADO SPRINGS
1975 RESEARCH PARKWAY SUITE 160
COLORADO SPRINGS, CO 80920
PHONE: 719.300.4140
FAX: 713.965.0044

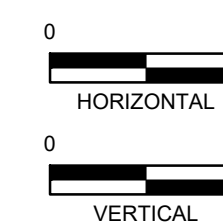
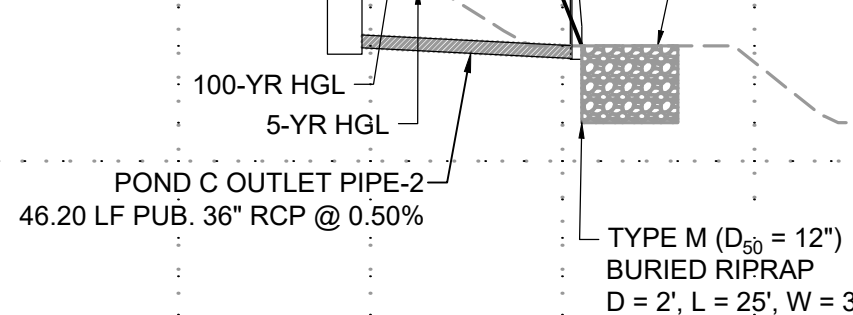
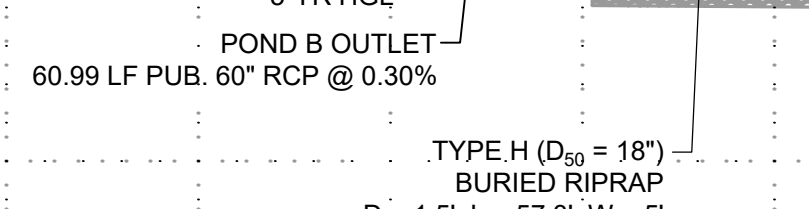
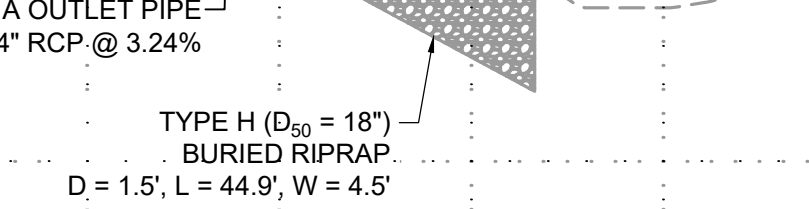
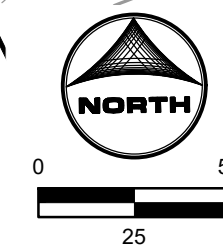
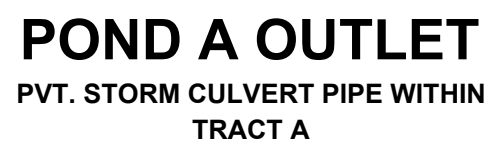
FLYING HORSE NORTH FILING 4
PRI #2, LLC.
EL PASO COUNTY, CO

STORM SEWER PLAN & PROFILES
STORM CULVERTS

SHEET
STM

17

PCD FILE NO.: SF####



0  1"

IF NOT ONE INCH,
JUST SCALE ACCORDINGLY

NO.	DATE	BY	REVISION DESCRIPTION

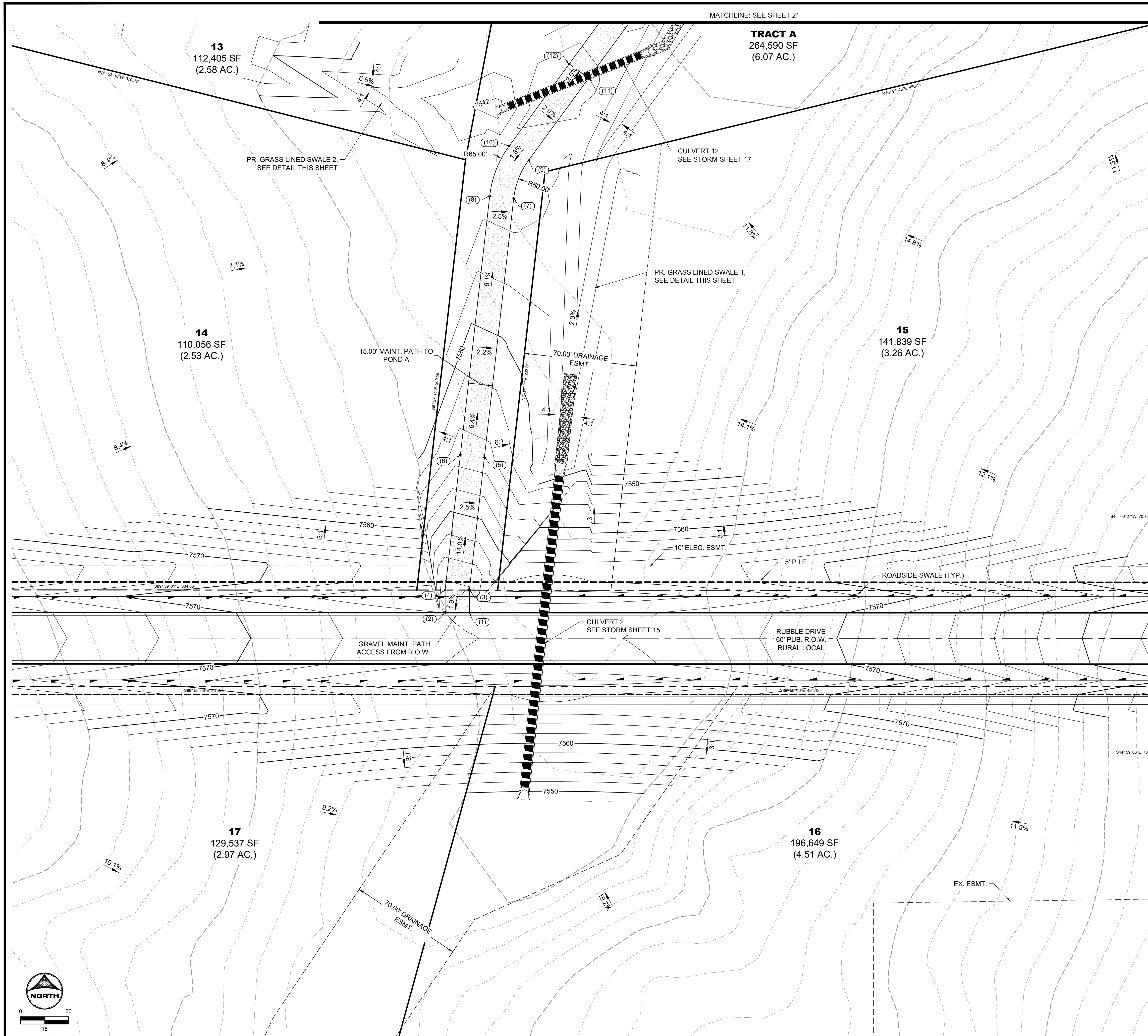


HR GREEN - COLORADO SPRINGS
1975 RESEARCH PARKWAY SUITE 160
COLORADO SPRINGS, CO 80920
PHONE: 719.300.4140
FAX: 713.965.0044

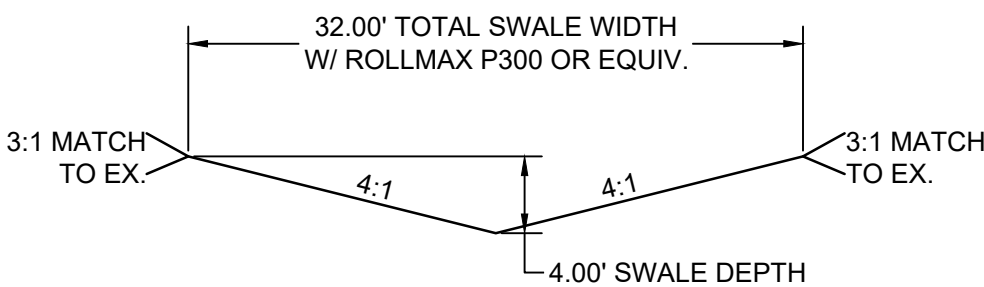
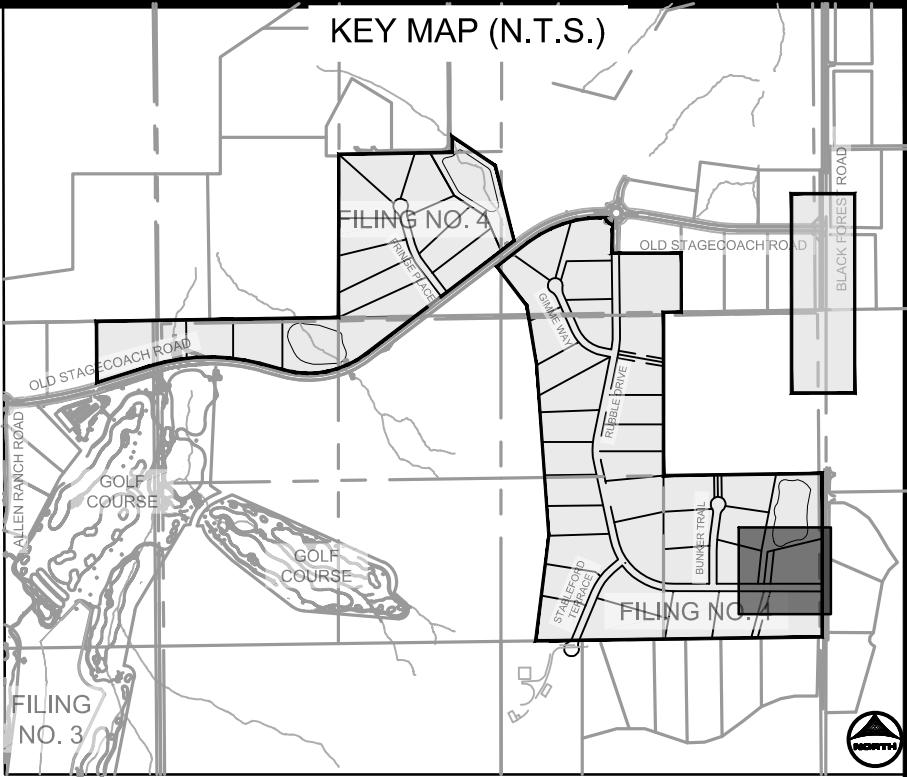
FLYING HORSE NORTH FILING 4
PRI #2, LLC.
EL PASO COUNTY, CO

STORM SEWER PLAN & PROFILES POND OUTLET PIPES

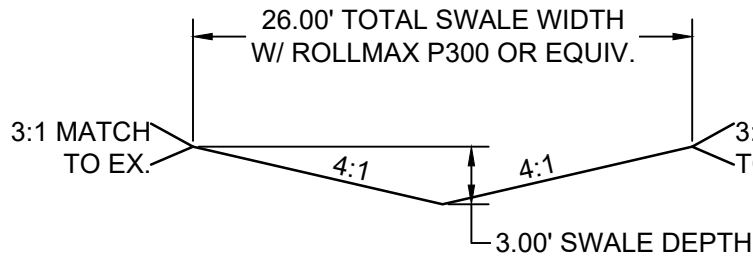
SHEET
STM



POINT TABLE			
No.	DESC.	NORTHING & EASTING	ELEV
(1)	Begin Maint. Road	N: 444868.57 E: 227988.54	7565.66
(2)	Begin Maint. Road	N: 444868.57 E: 227873.44	7565.99
(3)	Maint. Road	N: 444882.57 E: 227889.54	7565.97
(4)	Maint. Road	N: 444882.57 E: 227873.45	7566.23
(5)	Maint. Road	N: 444965.10 E: 227897.88	7554.65
(6)	Maint. Road	N: 444966.79 E: 227882.97	7554.95
(7)	Maint. Road	N: 445126.31 E: 227916.11	7544.76
(8)	Maint. Road	N: 445128.00 E: 227901.20	7545.06
(9)	Maint. Road	N: 445150.21 E: 227925.44	7545.43
(10)	Maint. Road	N: 445159.07 E: 227913.33	7545.73
(11)	Maint. Road	N: 445201.24 E: 227962.77	7546.65
(12)	Maint. Road	N: 445210.10 E: 227950.66	7546.95



SWALE 1 - SECTION



SWALE 2 - SECTION

SCALE: 1"=10'

**HRG RESPONSE: 100-YR
WSEL AND FREEBOARD
ADDED TO DETAIL.**

Please show 1ft
freeboard for this
grass swale.

POND GRADING NOTES:

1. TWO SIGNS OF MINIMUM 3 SQ. FT. AREA, SHALL BE INSTALLED AROUND THE POND PERIMETER. THE SIGNS WILL BE CONSTRUCTED OF A DURABLE MATERIAL SUCH AS METAL OR PLASTIC AND HAVE RED LETTERING ON A WHITE BACKGROUND STATING "WARNING- THIS AREA IS A STORMWATER FACILITY AND IS SUBJECT TO PERIODIC FLOODING."
2. SUBMIT A RIPRAP PLAN FOR RE-SEEDING AREAS ASSOCIATED WITH PERMANENT CONTROL MEASURE IMPROVEMENTS.
3. SEE GRADING & EROSION CONTROL PLANS FOR ANY EXISTING VEGETATION IN THE AREA. CLEARING AND GRUBBING WILL OCCUR PRIOR TO POND CONSTRUCTION AND THEREFORE, NO EXISTING VEGETATION WILL BE PRESENT.
4. ALL RIPRAP MUST BE INSTALLED PER DETAIL ON SHEET 2.

ABBREVIATIONS:

T.O.W. ~ TOP OF WALL
B.O.P. ~ BOTTOM OF POND
T.O.P. ~ TOP OF POND
T.C. ~ TRICKLE CHANNEL
G.B. ~ GRADE BREAK

NO.	DATE	BY	REVISION DESCRIPTION



HR GREEN - COLORADO SPRINGS
1975 RESEARCH PARKWAY SUITE 160
COLORADO SPRINGS, CO 80920
PHONE: 719.300.4140
FAX: 713.965.0044

FLYING HORSE NORTH FILING 4
PRI #2, LLC.
EL PASO COUNTY, CO

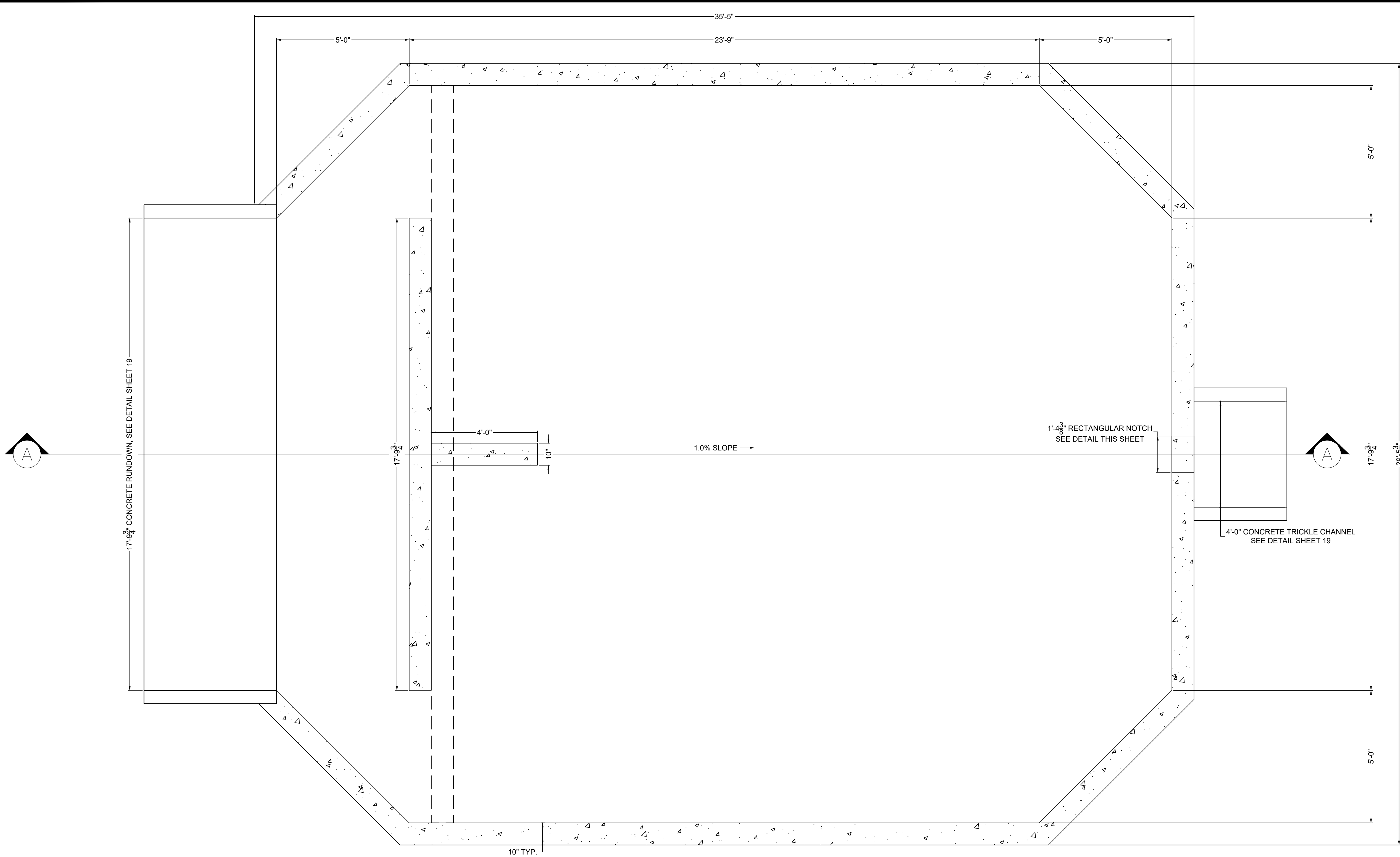
DRAINAGE DETAILS

POND A GRADING PLAN

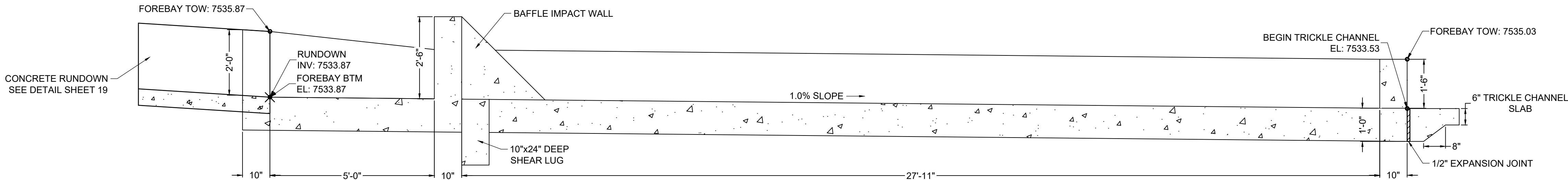
SHEET
PND

20

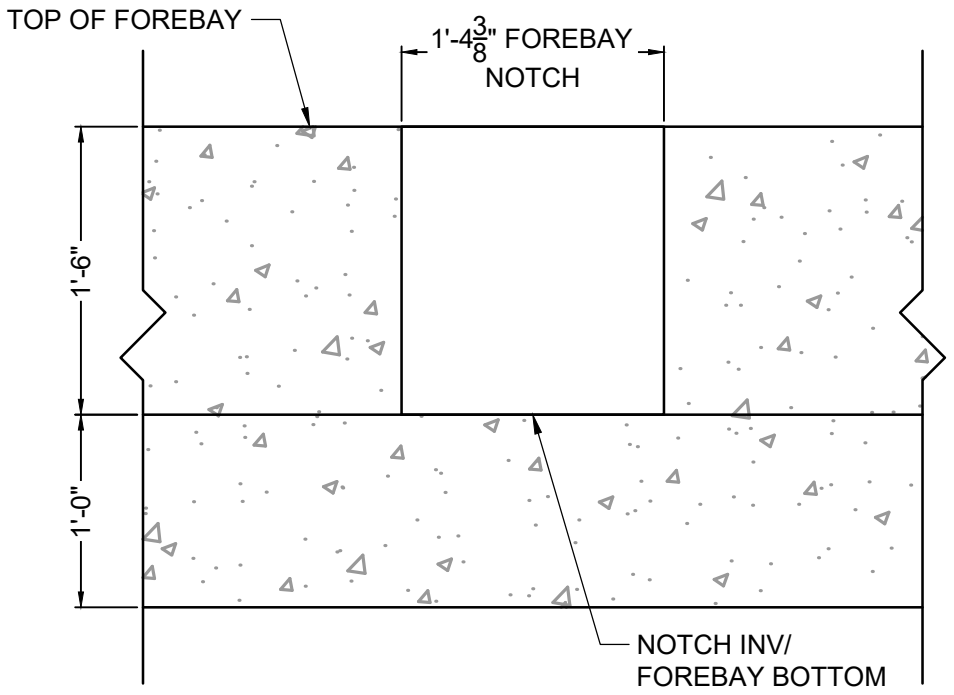
ABBREVIATIONS:
T.O.W. ~ TOP OF WALL
B.O.P. ~ BOTTOM OF POND
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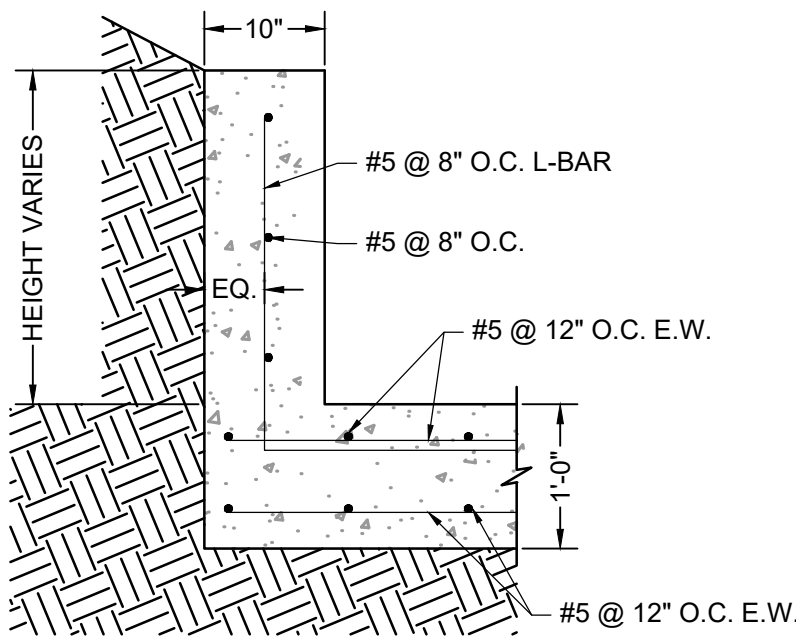
PLAN VIEW
FOREBAY A
SCALE: 1"=2'



SECTION VIEW A-A
FOREBAY A
SCALE: 1"=2'



FOREBAY A NOTCH DETAIL
SCALE: NTS



ELEVATION VIEW
FOREBAY WINGWALL REINFORCING DETAIL
SCALE: NTS

DRAWN BY: CMD	JOB DATE: 9/16/24	BAR IS ONE INCH ON OFFICIAL DRAWINGS.
APPROVED: RDL	JOB NUMBER: 211030.240	0 1"
CAD DATE: 9/22/2024		IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.
CAD FILE: J:\2021\211030\CAD\Drawings\Filing_No_4\Forebay_Details		

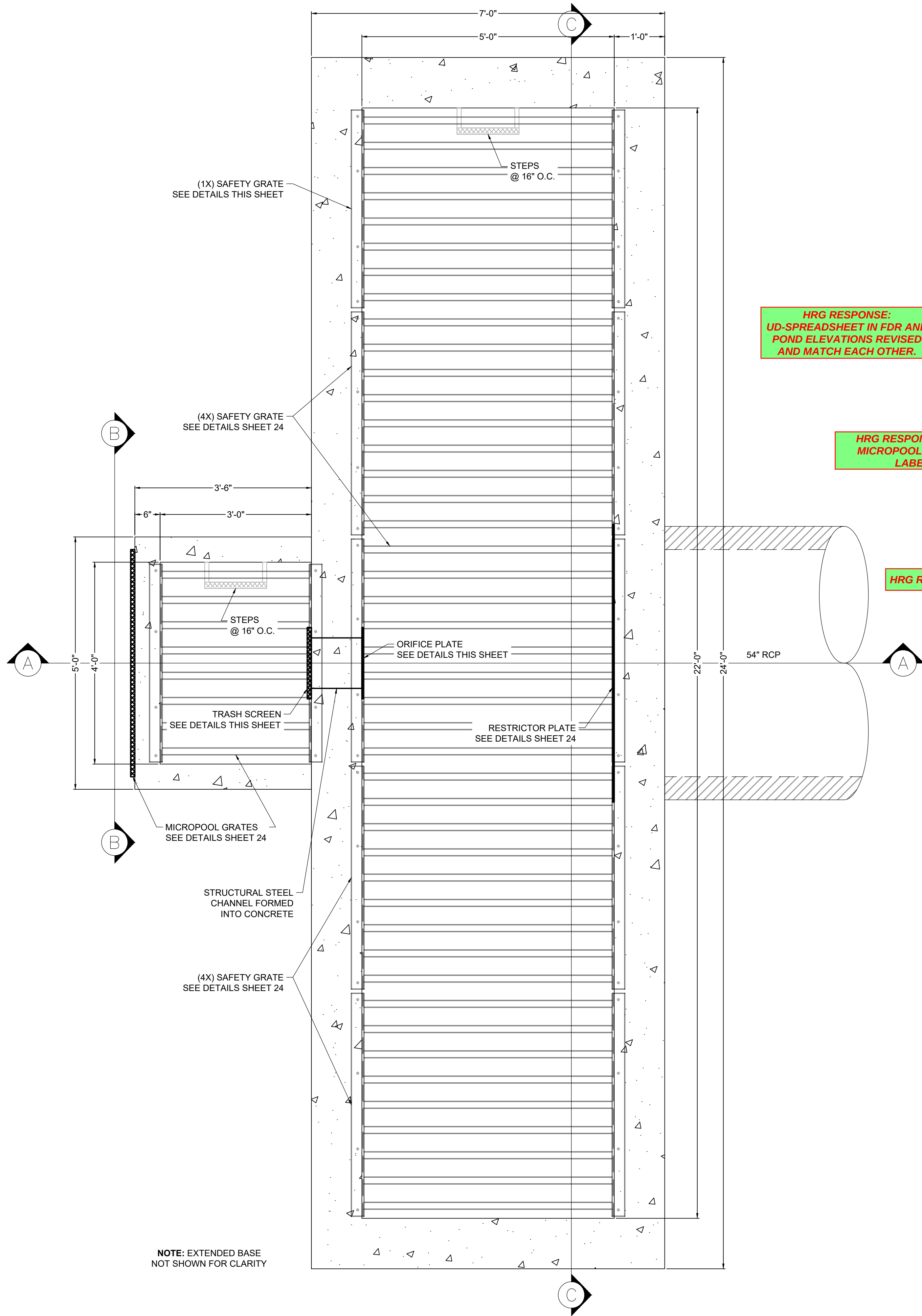
NO.	DATE	BY	REVISION DESCRIPTION



HR GREEN - COLORADO SPRINGS
1975 RESEARCH PARKWAY SUITE 160
COLORADO SPRINGS, CO 80920
PHONE: 719.300.4140
FAX: 713.965.0044

FLYING HORSE NORTH FILING 4
PRI #2, LLC.
EL PASO COUNTY, CO

POND DETAILS
POND A FOREBAY



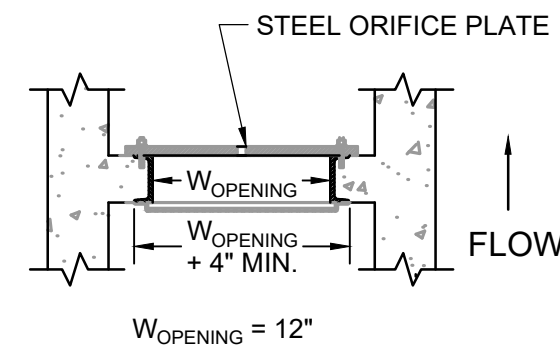
NOTE: EXTENDED BASE NOT SHOWN FOR CLARITY

HRG RESPONSE:
UD-SPREADSHEET IN FDR AND
POND ELEVATIONS REVISED
AND MATCH EACH OTHER.

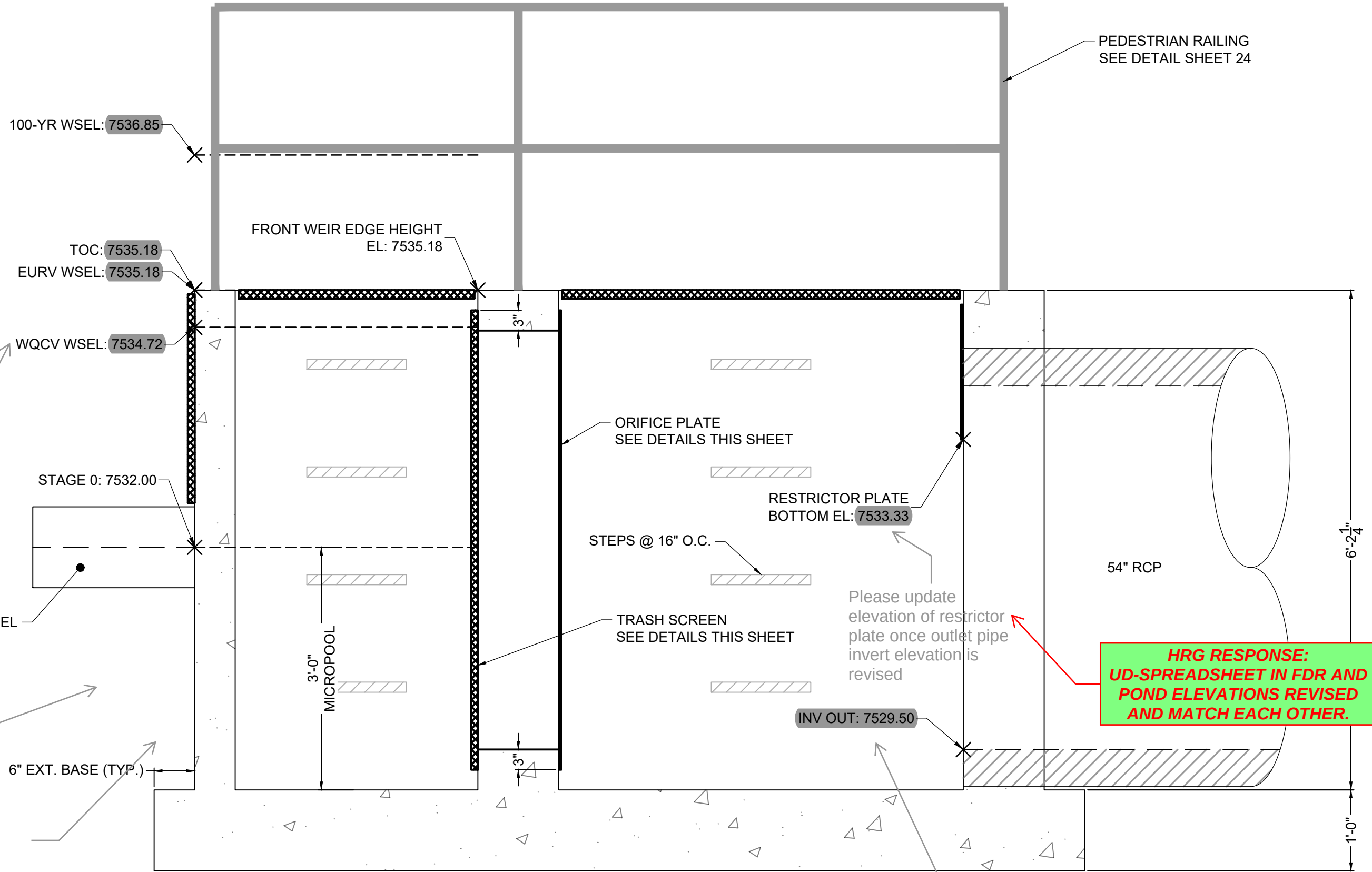
HRG RESPONSE: TOP OF
MICROPOOL ELEVATION
LABELED.

HRG RESPONSE: ISV LABELED.

Please revise
calculations of WSEL
WQCV=7531.72 ft
EURV=7532.18 ft
100yr=7533.85 ft
TOC=7532.18ft

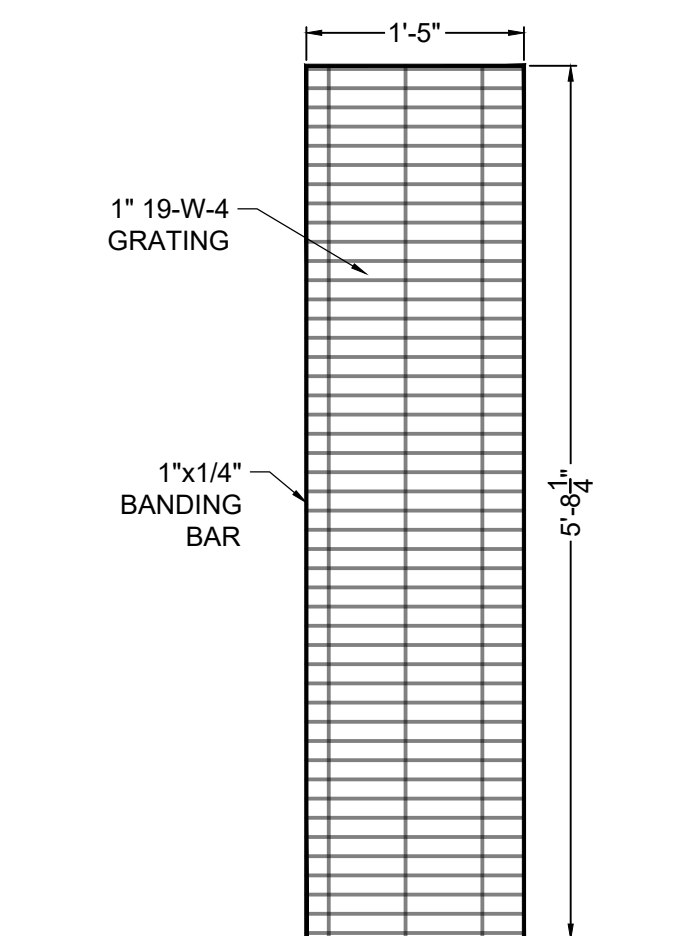
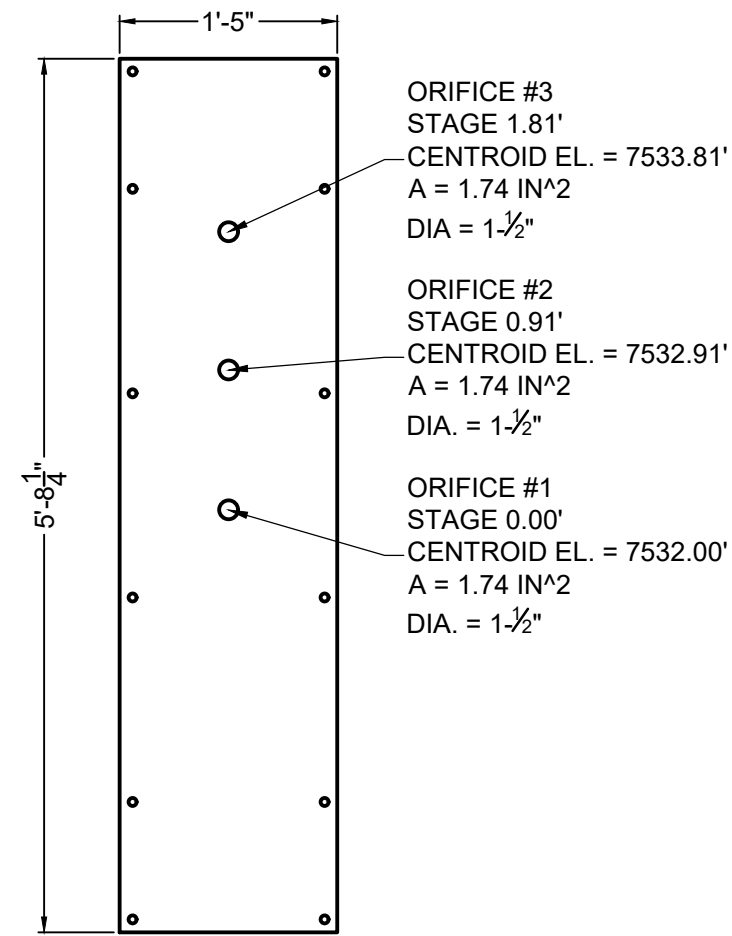


Details of dropbox are
required for three
ponds



Invert of outlet pipe is
7529.5=7524ft.
Please revise.

HRG RESPONSE:
UD-SPREADSHEET IN FDR AND
POND ELEVATIONS REVISED
AND MATCH EACH OTHER.

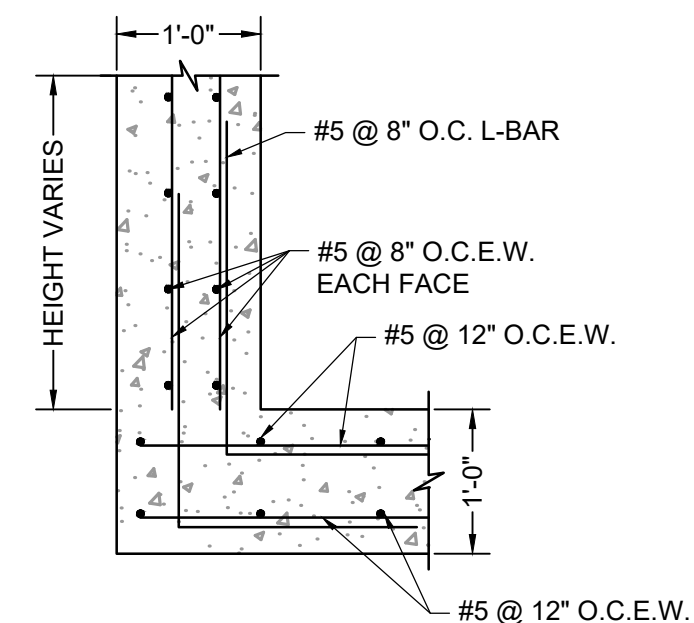


TRASH SCREEN NOTES:

1. TRASH SCREEN SHALL BE STEEL AND SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME.
2. TRASH SCREEN OPEN AREAS ARE FOR SPECIFIED TRASH RACK MATERIALS. TOTAL TRASH RACK SIZE MAY NEED TO BE ADJUSTED FOR MATERIALS HAVING DIFFERENT OPEN AREA/GROSS AREA RATIO (R VALUE).
3. STRUCTURAL DESIGN OF TRASH RACKS SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF THE RACK.
4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR TRASH SCREEN FOR ENGINEER'S APPROVAL PRIOR TO CONSTRUCTION.

ORIFICE PLATE NOTES:

1. PLATE TO BE 3/8" THICK GALVANIZED STEEL.
2. BOLT PLATE TO CONCRETE 16" O.C. MAX.
3. PROVIDE CONTINUOUS NEOPRENE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE.
4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ORIFICE PLATE FOR ENGINEER'S APPROVAL PRIOR TO CONSTRUCTION.



DRAWN BY: CMD JOB DATE: 9/16/24
APPROVED: RDL JOB NUMBER: 211030.240
CAD DATE: 9/22/2024
CAD FILE: J:\2021\211030\CAD\Drawings\C\Filing_No_4\Outlet_Structure_Details

BAR IS ONE INCH ON
OFFICIAL DRAWINGS.
0 1" IF NOT ONE INCH,
ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	REVISION DESCRIPTION

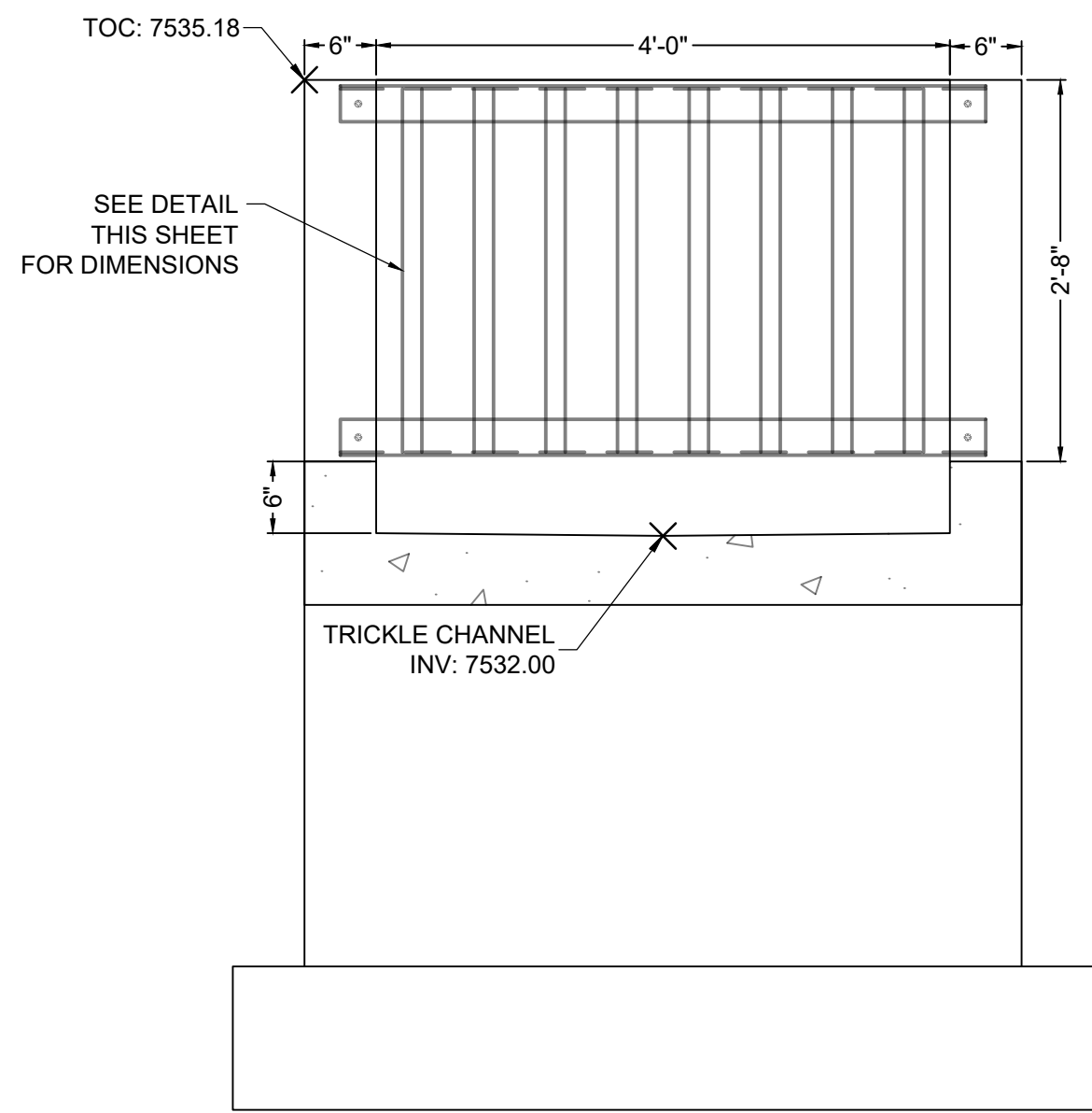
HR GREEN - COLORADO SPRINGS
1975 RESEARCH PARKWAY SUITE 160
COLORADO SPRINGS, CO 80920
PHONE: 719.300.4140
FAX: 713.965.0044

FLYING HORSE NORTH FILING 4
PRI #2, LLC.
EL PASO COUNTY, CO

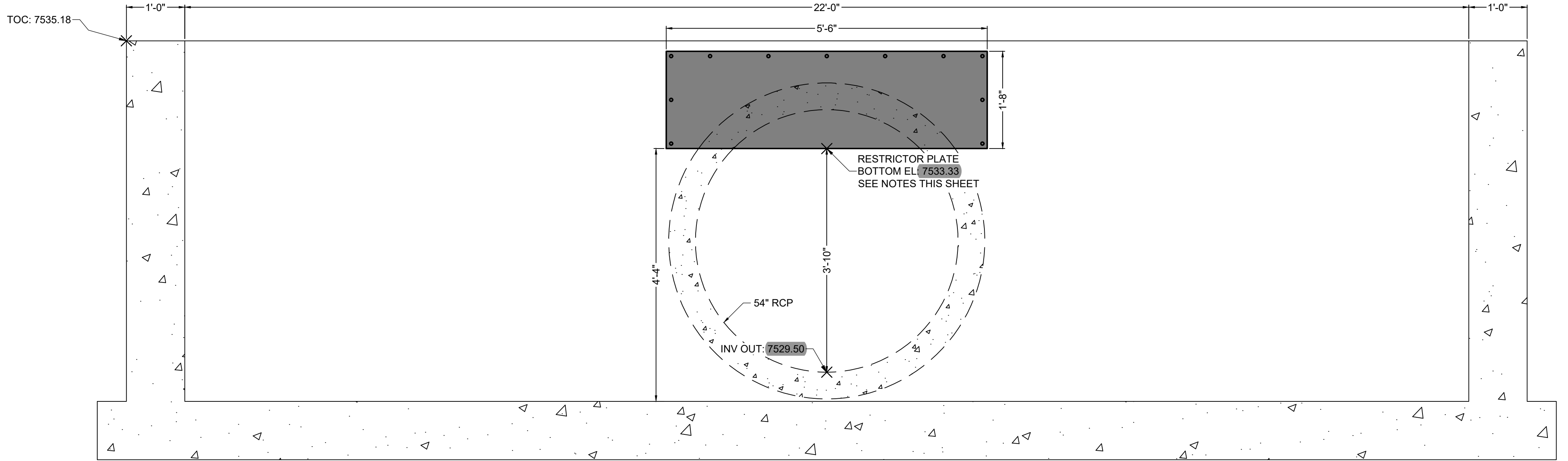
POND DETAILS
POND A OUTLET STRUCTURE

SHEET
PND

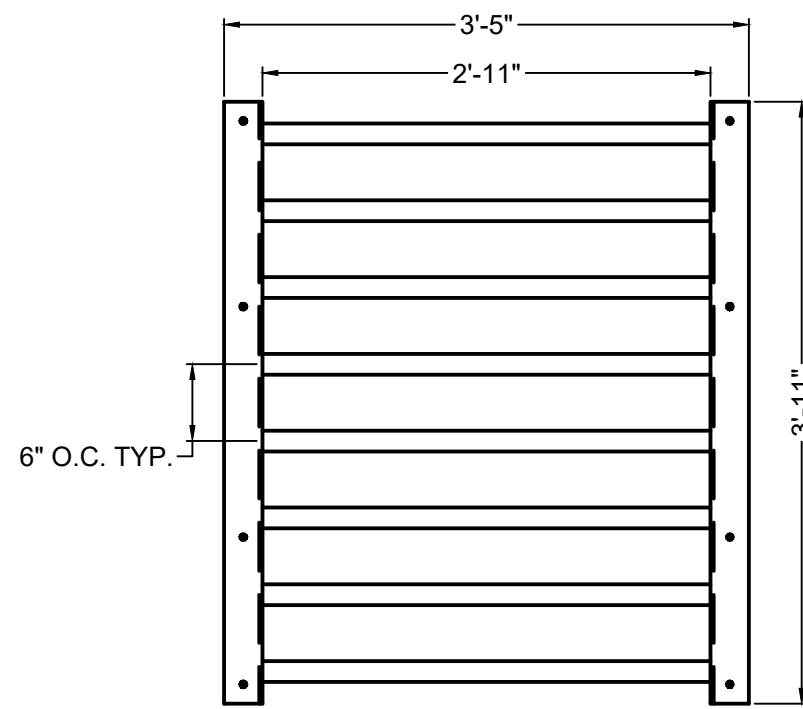
23



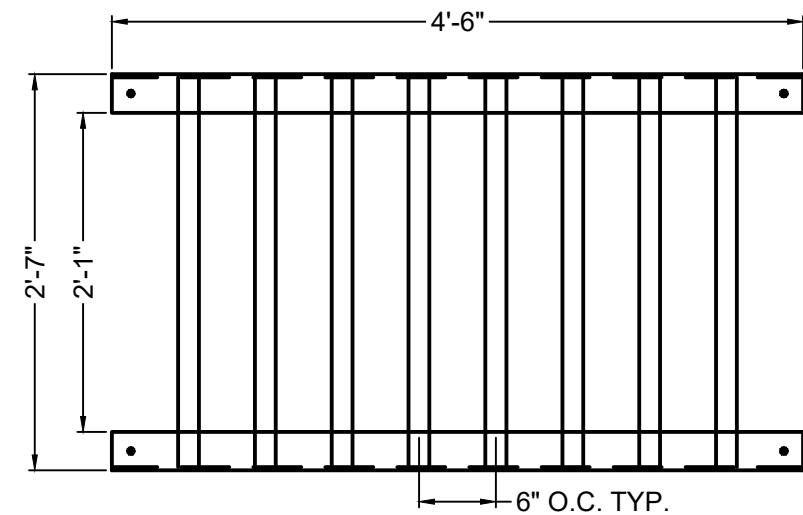
SECTION VIEW B-B
MICROPOL FRONT FACE
SCALE: 1" = 1-1/4'



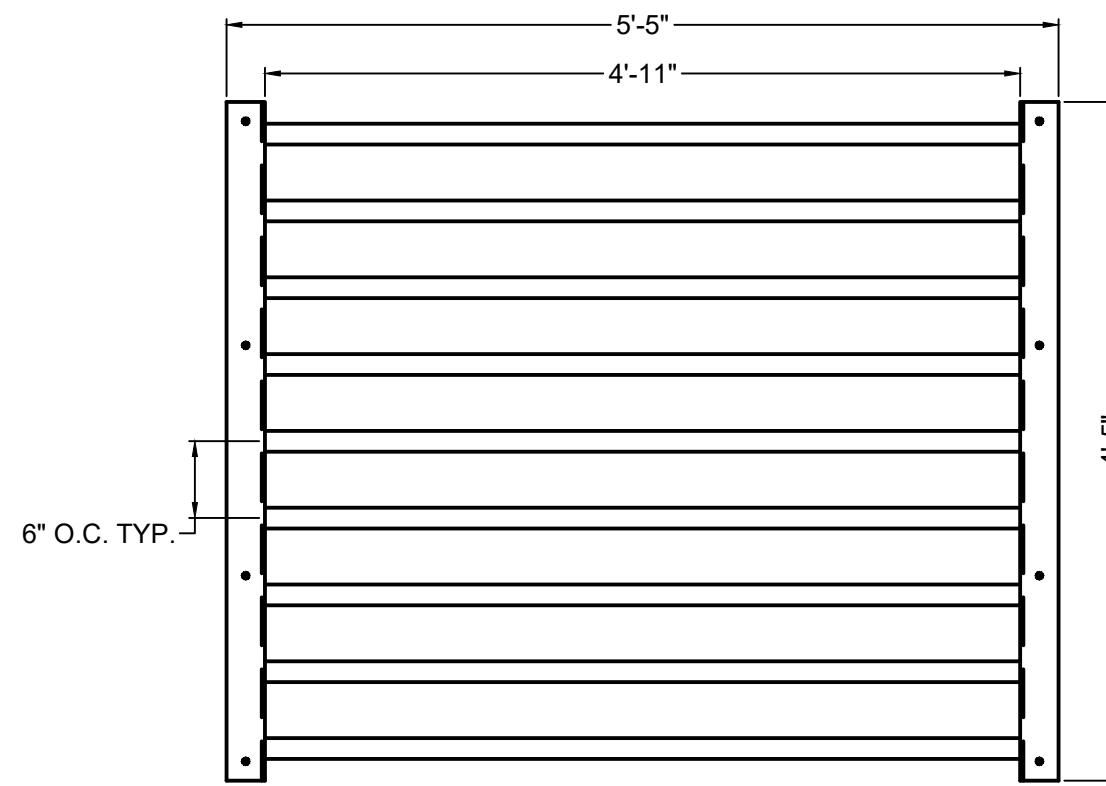
SECTION VIEW C-C
RESTRICTOR PLATE
SCALE: 1" = 1-1/4'



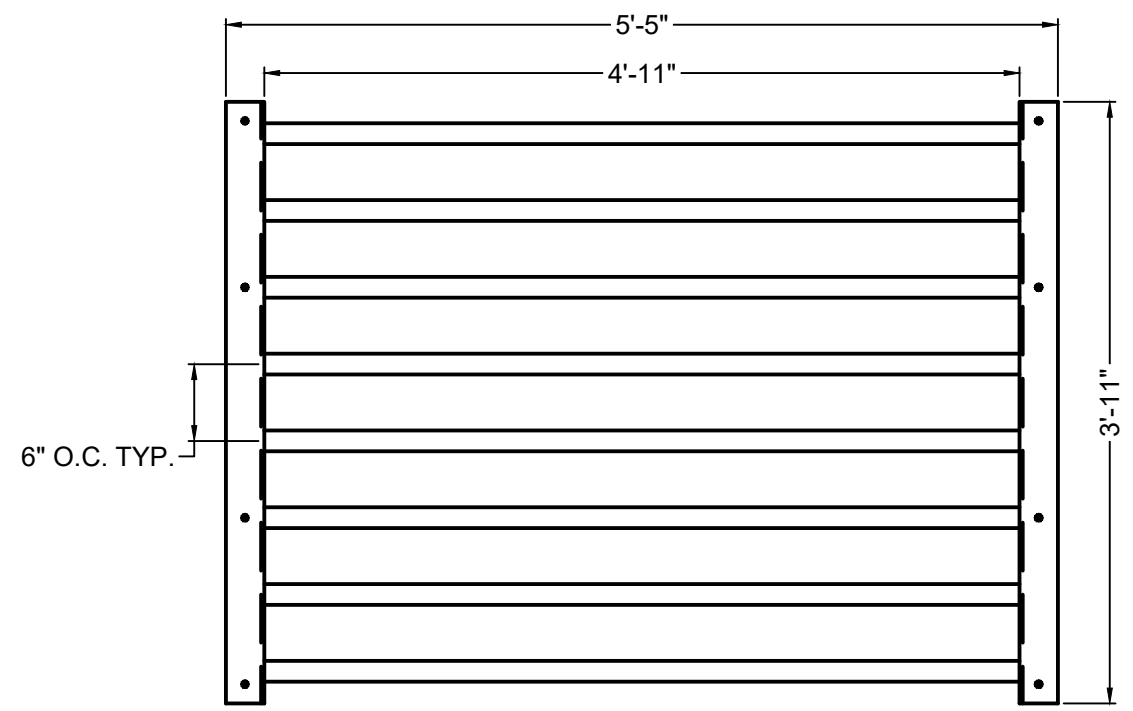
ELEVATION VIEW
MICROPOL TOP GRATE
SCALE: 1" = 1-1/4'



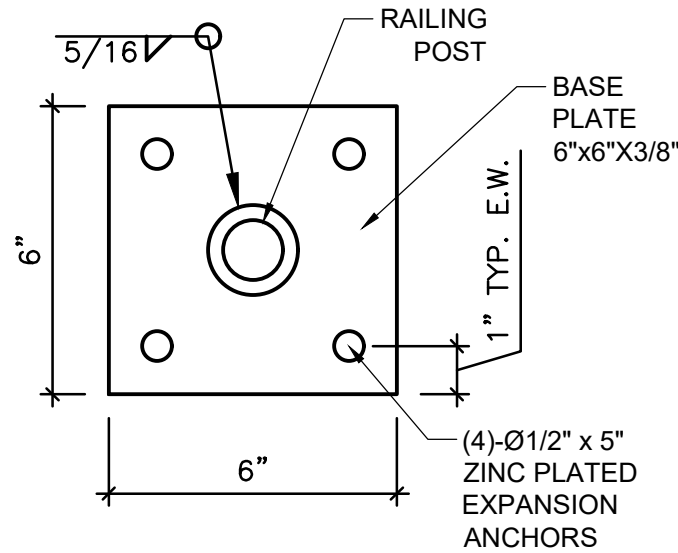
ELEVATION VIEW
MICROPOL FRONT GRATE
SCALE: 1" = 1-1/4'



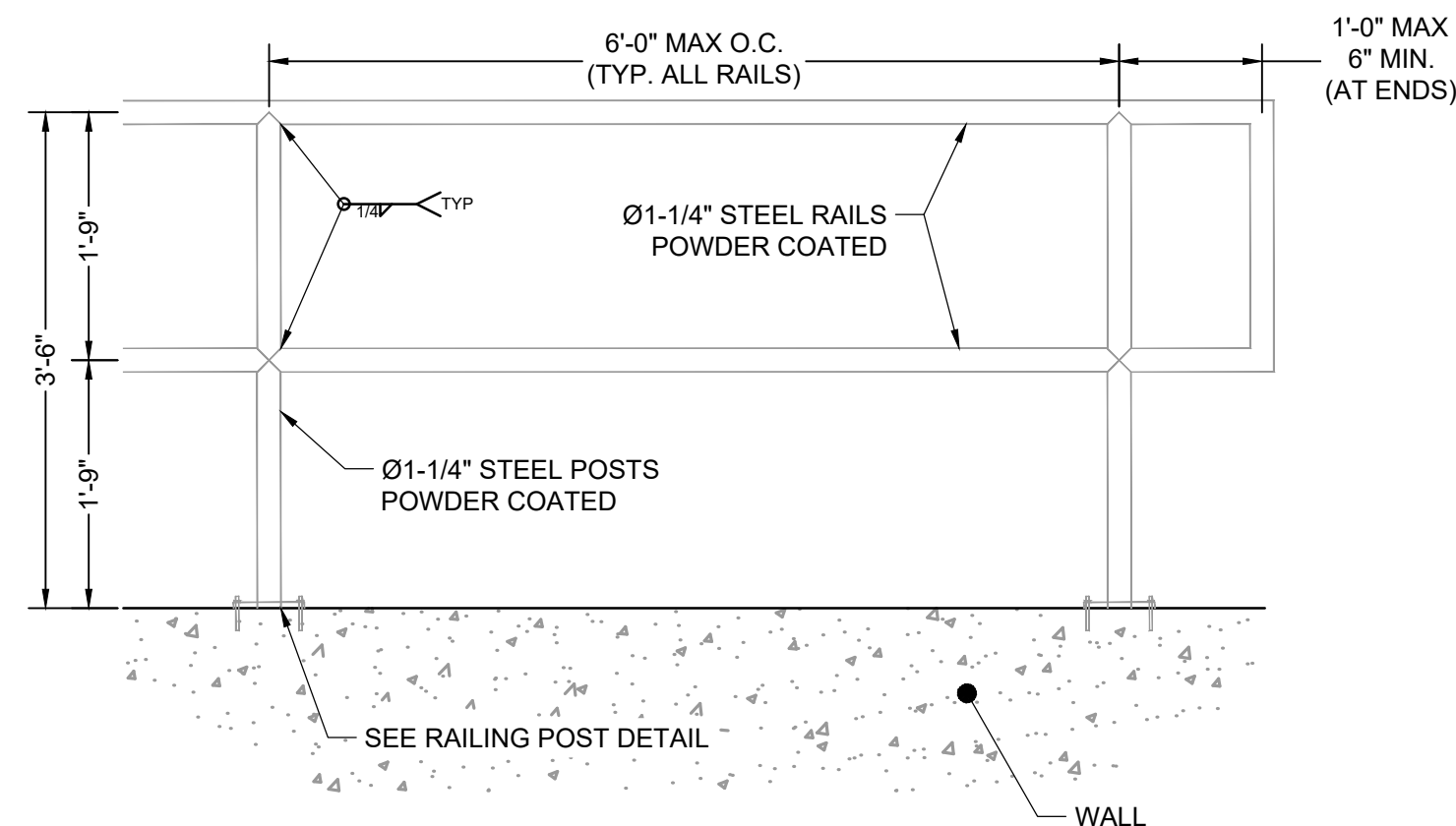
PLAN VIEW
SAFETY GRATE - QTY. 4
SCALE: 1" = 1-1/4'



PLAN VIEW
SAFETY GRATE - QTY. 1
SCALE: 1" = 1-1/4'



DETAIL VIEW
PEDESTRIAN RAILING POST
SCALE: 3/4" = 1'



DETAIL VIEW
PEDESTRIAN RAILING
SCALE: 3/4" = 1'

SAFETY GRATES/TRASH RACK NOTES:

- TRASH RACKS AND SAFETY GRATES SHALL BE 1-1/2" SCH. 40 STEEL PIPE, @ 6" CENTERS BOUNDED BY 3"x3"x1/4" ANGLE IRON. ALL GRATES SHALL BE MOUNTED USING ZINC PLATED STEEL HARDWARE.
- REMOVABLE GRATE SECTIONS SHALL BE MOUNTED USING ZINC PLATED STEEL HARDWARE AND PROVIDED WITH HINGED & LOCKABLE OR BOLTABLE ACCESS PANELS AS SHOWN ON THE PLANS.
- STEEL GRATES SHALL BE HOT DIP GALVANIZED AND MAY BE HOT POWDER COATED AFTER GALVANIZING.
- STRUCTURAL STEEL FOR GRATES SHALL BE GALVANIZED AND SHALL BE IN ACCORDANCE WITH CDOT STANDARD SPECIFICATIONS, SUBSECTION 712.06.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR GRATING FOR ENGINEER'S APPROVAL PRIOR TO CONSTRUCTION.

RESTRICTOR PLATE NOTES:

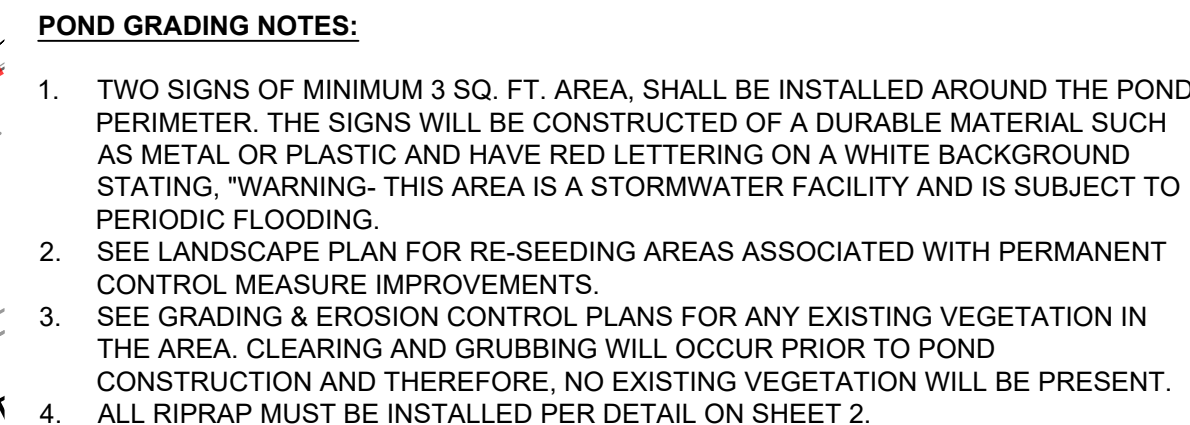
- 3/8" THICK RESTRICTOR PLATE, GALVANIZED STEEL.
- BOLT PLATE TO CONCRETE @ 12" O.C. MAX.
- PROVIDE CONTINUOUS NEOPRENE GASKET MATERIAL BETWEEN PLATE AND CONCRETE.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR RESTRICTOR PLATE FOR ENGINEER'S APPROVAL PRIOR TO CONSTRUCTION.

TWO SIGNS SHALL BE INSTALLED AROUND THE POND PERIMETER. THE SIGNS SHALL BE CONSTRUCTED OF A DURABLE MATERIAL SUCH AS METAL OR PLASTIC AND HAVE RED LETTERING ON A WHITE BACKGROUND WITH THE BELOW MESSAGE.

WARNING:
THIS AREA IS A
STORMWATER
FACILITY AND
IS SUBJECT TO
PERIODIC
FLOODING

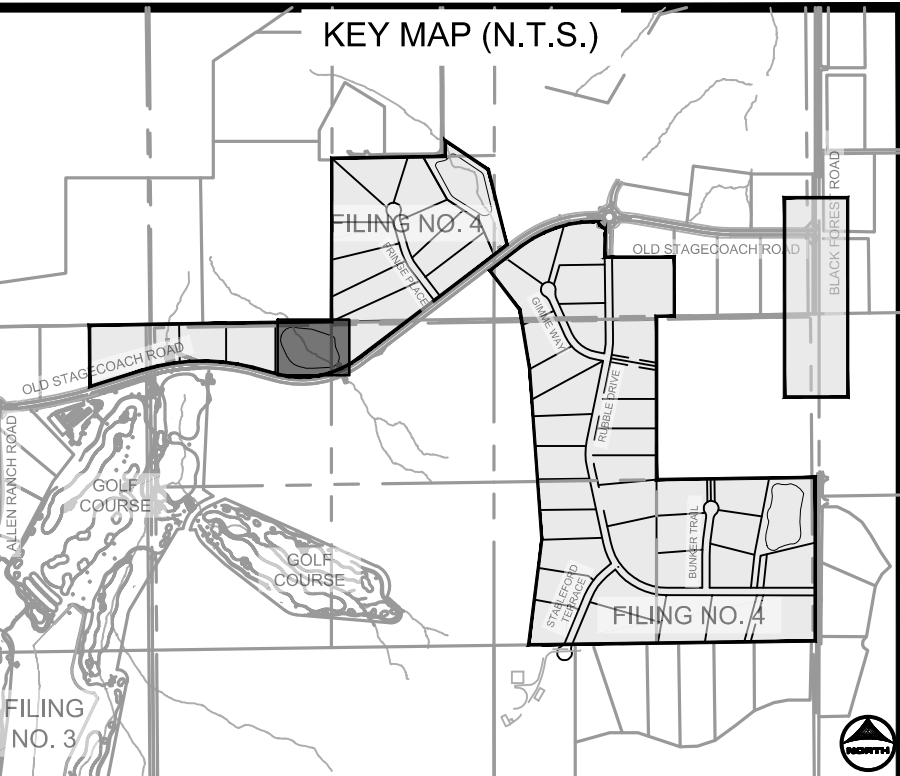
Minimum Sign Area: 3 sqft

**POND WARNING SIGN
DETAIL**
SCALE: N.T.S.



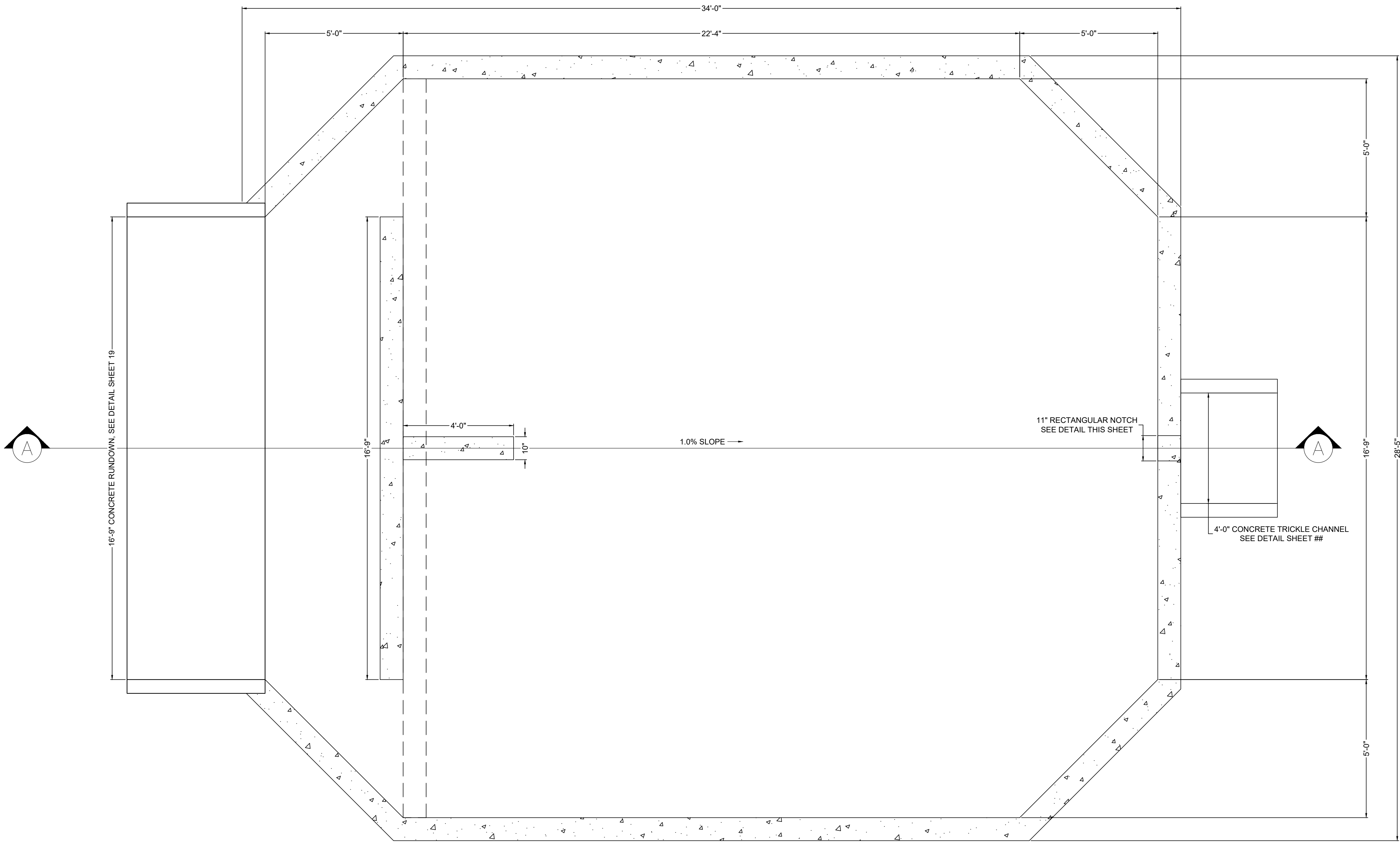
POINT TABLE			
No.	DESC.	NORTHING & EASTING	ELEV
23	Spillway Crest	N: 446922.17 E: 224186.28	7532.00
24	Spillway Crest	N: 446925.28 E: 224171.60	7532.00
25	Spillway	N: 446917.95 E: 224185.63	7533.00
26	Spillway	N: 446919.39 E: 224170.70	7533.00
27	T.O.P.	N: 446851.82 E: 224179.24	7533.00
28	T.O.P.	N: 446853.26 E: 224164.31	7533.00
29	T.O.P.	N: 446822.11 E: 224189.40	7533.00
30	T.O.P.	N: 446811.82 E: 224178.48	7533.00
31	T.O.P.	N: 446774.93 E: 224233.85	7533.00
32	T.O.P.	N: 446764.65 E: 224222.93	7533.00
33	T.O.P.	N: 446727.76 E: 224278.29	7533.00
34	T.O.P.	N: 446717.47 E: 224267.37	7533.00
35	T.O.P.	N: 446715.84 E: 224307.35	7533.00
36	T.O.P.	N: 446700.85 E: 224307.90	7533.00
37	T.O.P.	N: 446718.29 E: 224373.74	7533.00
38	T.O.P.	N: 446703.30 E: 224374.29	7533.00
39	Edge of Rundown	N: 446706.19 E: 224390.69	7532.99
40	Rundown GB	N: 446711.95 E: 224402.61	7529.69
41	Rundown F.L.	N: 446717.68 E: 224408.69	7527.60
42	Rundown GB	N: 446723.41 E: 224414.77	7529.68
43	Edge of Rundown	N: 446734.92 E: 224421.31	7533.00
44	Swale F.L.	N: 446710.69 E: 224417.47	7527.82
45	Swale F.L.	N: 446704.24 E: 224433.94	7528.18
46	Swale F.L.	N: 446699.45 E: 224498.63	7529.48
47	Swale F.L.	N: 446693.50 E: 224507.04	7529.69
48	Swale F.L.	N: 446679.50 E: 224513.19	7530.00
49	Maint. Road/B.O.P.	N: 446778.84 E: 224389.11	7530.00
50	Maint. Road/B.O.P.	N: 446793.79 E: 224390.35	7529.57
51	B.O.P.	N: 446821.04 E: 224392.67	7528.80
52	B.O.P.	N: 446831.99 E: 224388.92	7528.94
53	B.O.P.	N: 446926.34 E: 224300.04	7528.29
54	B.O.P.	N: 446930.73 E: 224289.33	7528.04
55	B.O.P.	N: 446915.64 E: 224209.52	7526.28
56	B.O.P.	N: 446849.51 E: 224203.13	7528.48
57	B.O.P.	N: 446838.57 E: 224206.87	7528.73

No.	DESC.	NORTHING & EASTING	ELEV
58	B.O.P.	N: 446744.22 E: 224295.76	7529.38
59	B.O.P.	N: 446739.83 E: 224306.46	7529.24
60	Forebay Outer	N: 446741.16 E: 224374.61	7528.78
61	Rundown F.L.	N: 446747.74 E: 224380.37	7527.35
62	Forebay Outer	N: 446753.10 E: 224387.29	7528.78
63	Forebay Inner	N: 446742.02 E: 224374.28	7527.35
64	Forebay Outer	N: 446741.35 E: 224366.87	7528.73
65	Forebay Inner	N: 446742.22 E: 224367.26	7527.33
66	Forebay Outer	N: 446758.12 E: 224351.10	7528.30
67	Forebay Inner	N: 446758.45 E: 224351.97	7527.11
68	Forebay Outer	N: 446765.85 E: 224351.34	7528.57
69	Forebay Inner	N: 446765.48 E: 224352.18	7527.07
70	T.C. Flow Line	N: 446771.85 E: 224357.66	7527.02
71	Forebay Outer	N: 446777.79 E: 224364.02	7528.57
72	Forebay Inner	N: 446776.93 E: 224364.34	7527.07
73	Forebay Outer	N: 446777.66 E: 224372.00	7527.70
74	Forebay Inner	N: 446776.72 E: 224371.37	7527.11
75	Forebay Outer	N: 446760.84 E: 224387.55	7528.73
76	Forebay Inner	N: 446760.50 E: 224386.66	7527.33
77	Forebay Inner	N: 446753.47 E: 224386.45	7527.35
78	T.C. Flow Line	N: 446846.35 E: 224287.47	7526.51
79	T.C. Flow Line	N: 446820.85 E: 224217.28	7526.00
80	Maint. Road	N: 446794.64 E: 224381.53	7528.16
81	Maint. Road	N: 446810.89 E: 224348.36	7527.25
82	Maint. Road	N: 446869.85 E: 224292.75	7526.84
83	End Maint. Road	N: 446928.81 E: 224237.13	7526.92

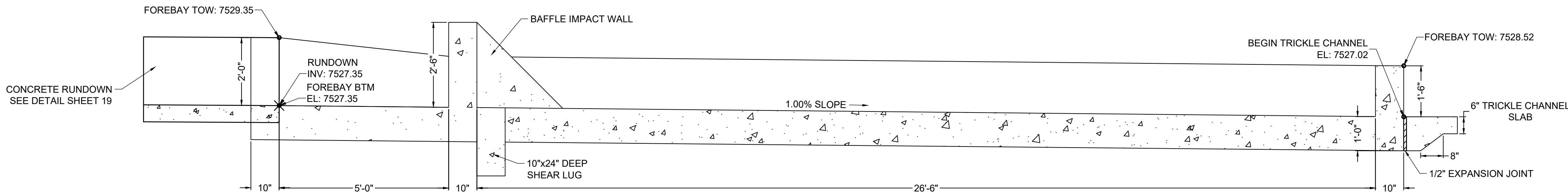


ABBREVIATIONS:

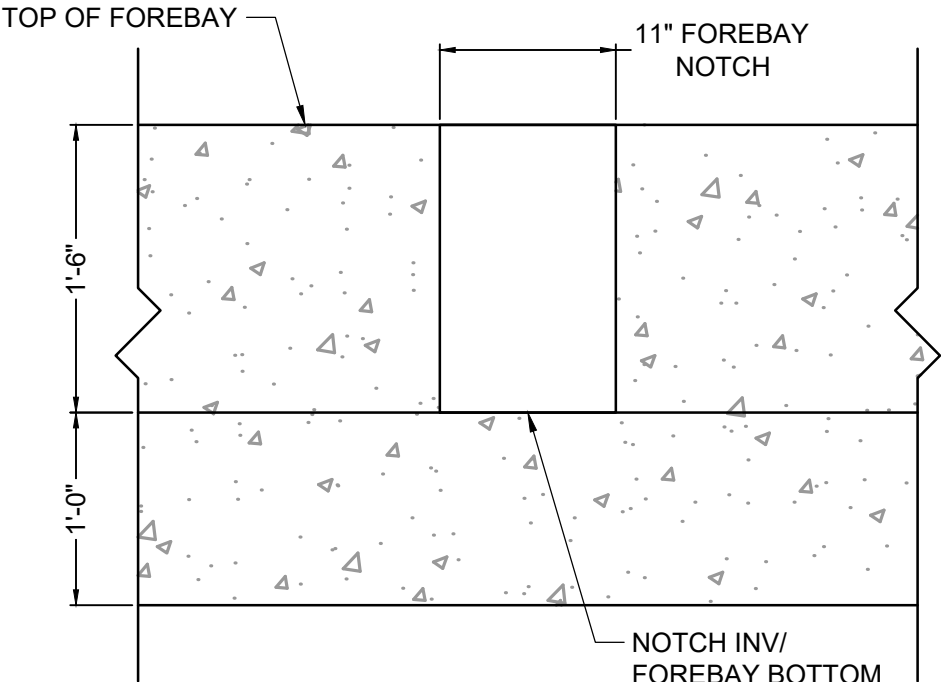
T.O.W. ~ TOP OF WALL
B.O.P. ~ BOTTOM OF POND
T.O.P. ~ TOP OF POND
T.C. ~ TRICKLE CHANNEL
G.B. ~ GRADE BREAK



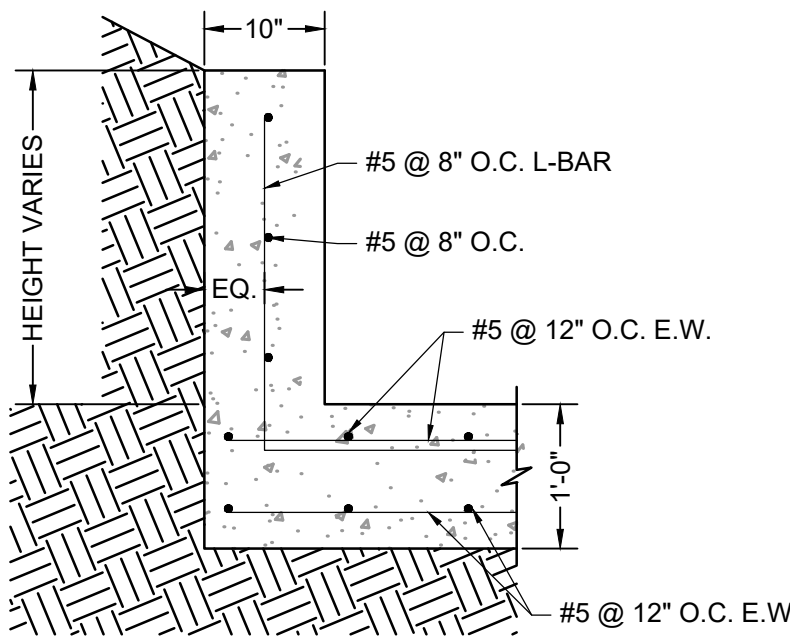
PLAN VIEW
FOREBAY B
SCALE: 1"=2'



SECTION VIEW A-A
FOREBAY B
SCALE: 1"=2'



FOREBAY B NOTCH DETAIL
SCALE: NTS



ELEVATION VIEW
FOREBAY WINGWALL REINFORCING DETAIL
SCALE: NTS

DRAWN BY: CMD	JOB DATE: 9/16/24	BAR IS ONE INCH ON OFFICIAL DRAWINGS.
APPROVED: RDL	JOB NUMBER: 211030.240	0 1"
CAD DATE: 9/22/2024		IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.
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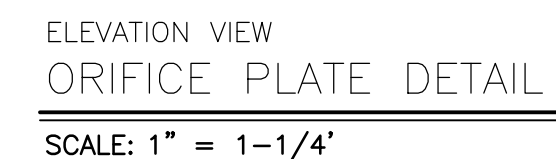
NO.	DATE	BY	REVISION DESCRIPTION



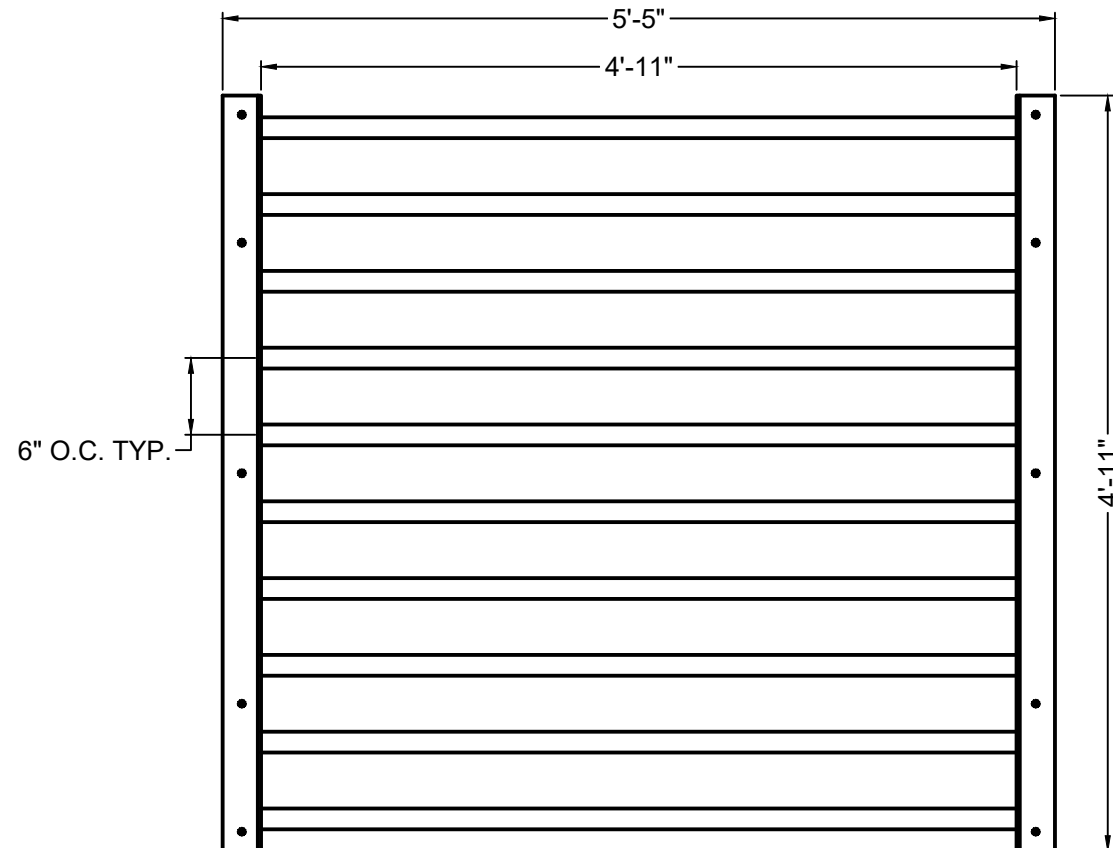
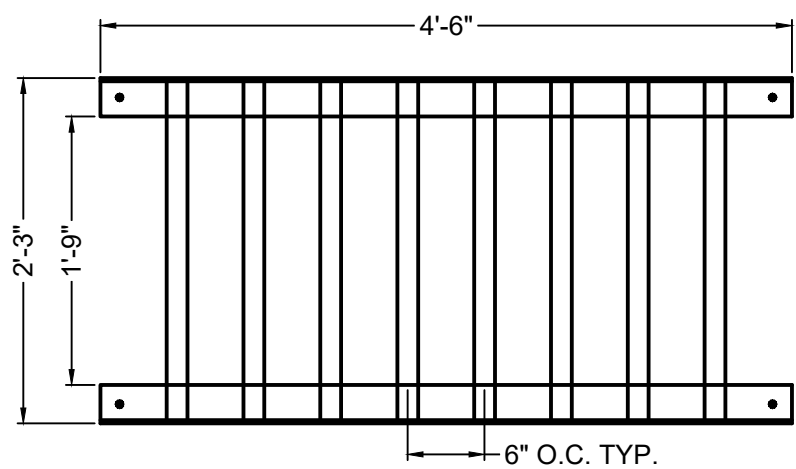
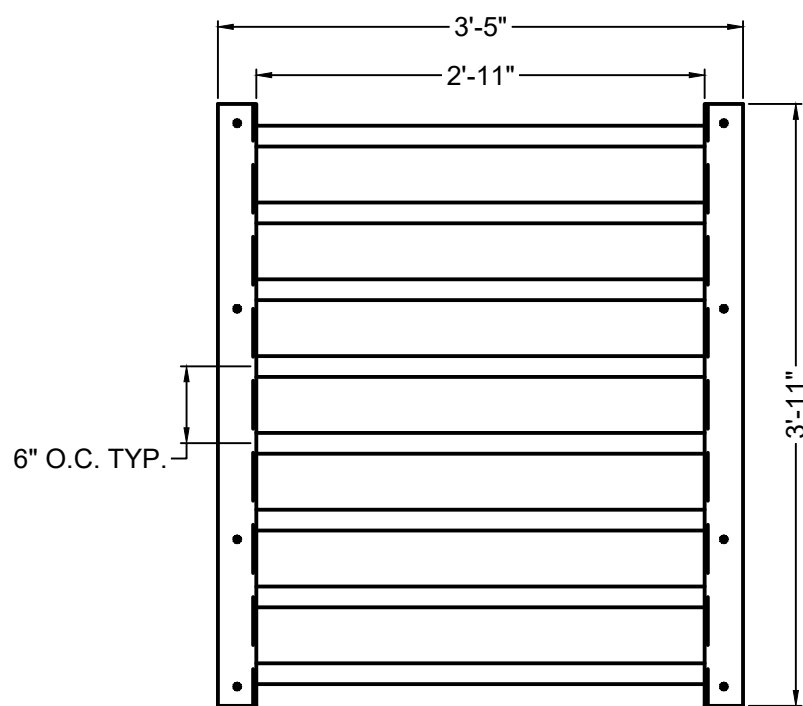
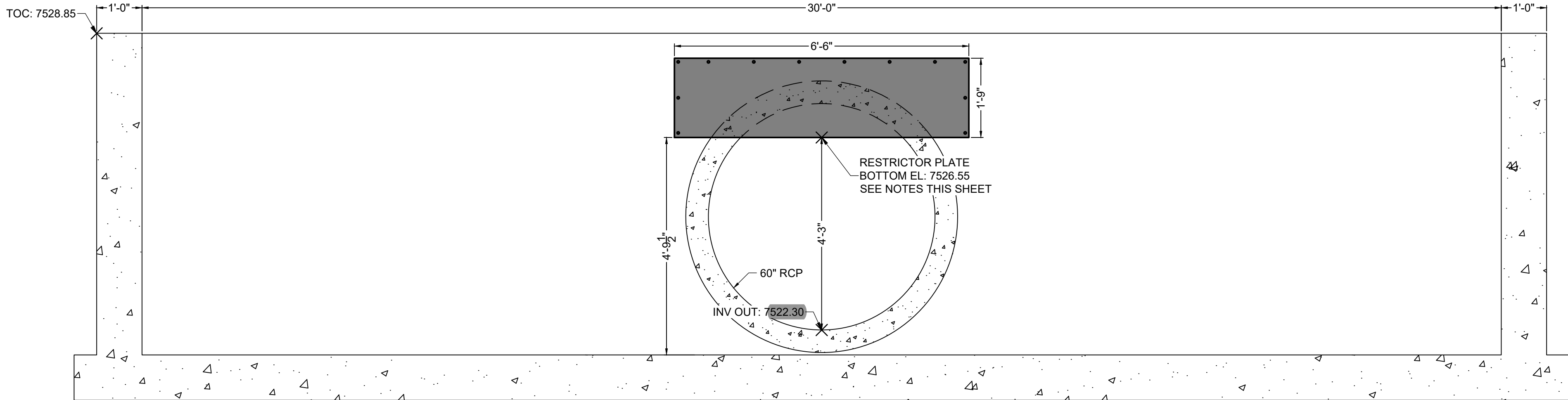
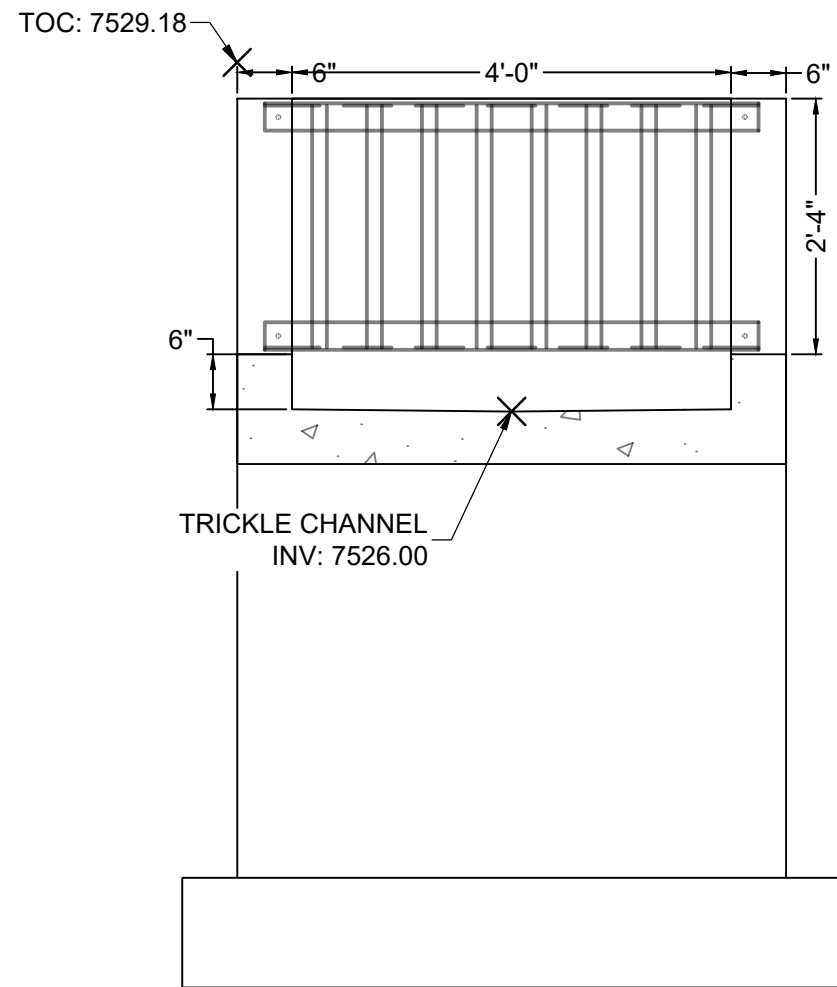
HR GREEN - COLORADO SPRINGS
1975 RESEARCH PARKWAY SUITE 160
COLORADO SPRINGS, CO 80920
PHONE: 719.300.4140
FAX: 713.965.0044

FLYING HORSE NORTH FILING 4
PRI #2, LLC.
EL PASO COUNTY, CO

POND DETAILS
POND B FOREBAY



- PCD FILE NO.: SF####

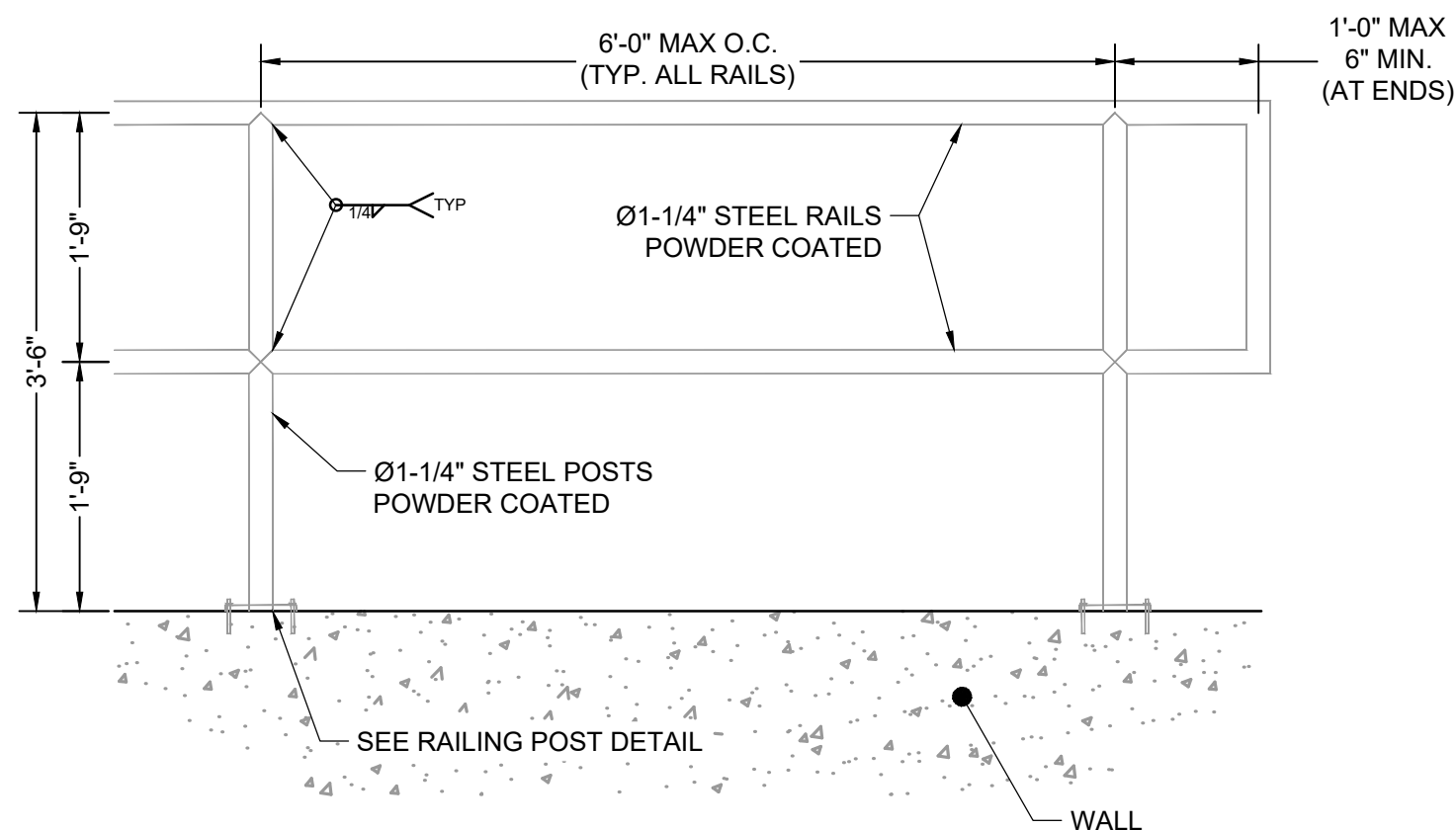
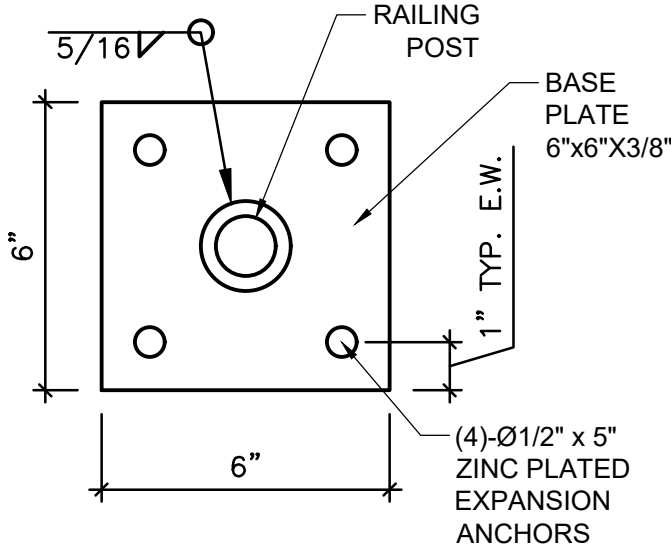


TWO SIGNS SHALL BE INSTALLED AROUND THE POND PERIMETER. THE SIGNS SHALL BE CONSTRUCTED OF A DURABLE MATERIAL SUCH AS METAL OR PLASTIC AND HAVE RED LETTERING ON A WHITE BACKGROUND WITH THE BELOW MESSAGE.

WARNING:
THIS AREA IS A
STORMWATER
FACILITY AND
IS SUBJECT TO
PERIODIC
FLOODING

Minimum Sign Area: 3 sqft

POND WARNING SIGN
DETAIL
SCALE: N.T.S.

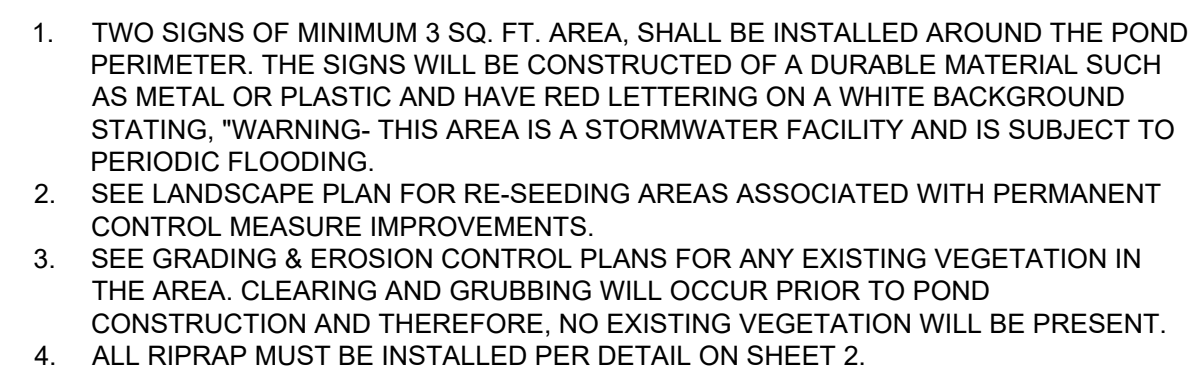


SAFETY GRATES/TRASH RACK NOTES:

- TRASH RACKS AND SAFETY GRATES SHALL BE 1-1/2" SCH. 40 STEEL PIPE, @ 6" CENTERS BOUNDED BY 3"x3"x1/4" ANGLE IRON. ALL GRATES SHALL BE MOUNTED USING ZINC PLATED STEEL HARDWARE.
- REMOVABLE GRATE SECTIONS SHALL BE MOUNTED USING ZINC PLATED STEEL HARDWARE AND PROVIDED WITH HINGED & LOCKABLE OR BOLTABLE ACCESS PANELS AS SHOWN ON THE PLANS.
- STEEL GRATES SHALL BE HOT DIP GALVANIZED AND MAY BE HOT POWDER COATED AFTER GALVANIZING.
- STRUCTURAL STEEL FOR GRATES SHALL BE GALVANIZED AND SHALL BE IN ACCORDANCE WITH CDOT STANDARD SPECIFICATIONS, SUBSECTION 712.06.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR GRATING FOR ENGINEER'S APPROVAL PRIOR TO CONSTRUCTION.

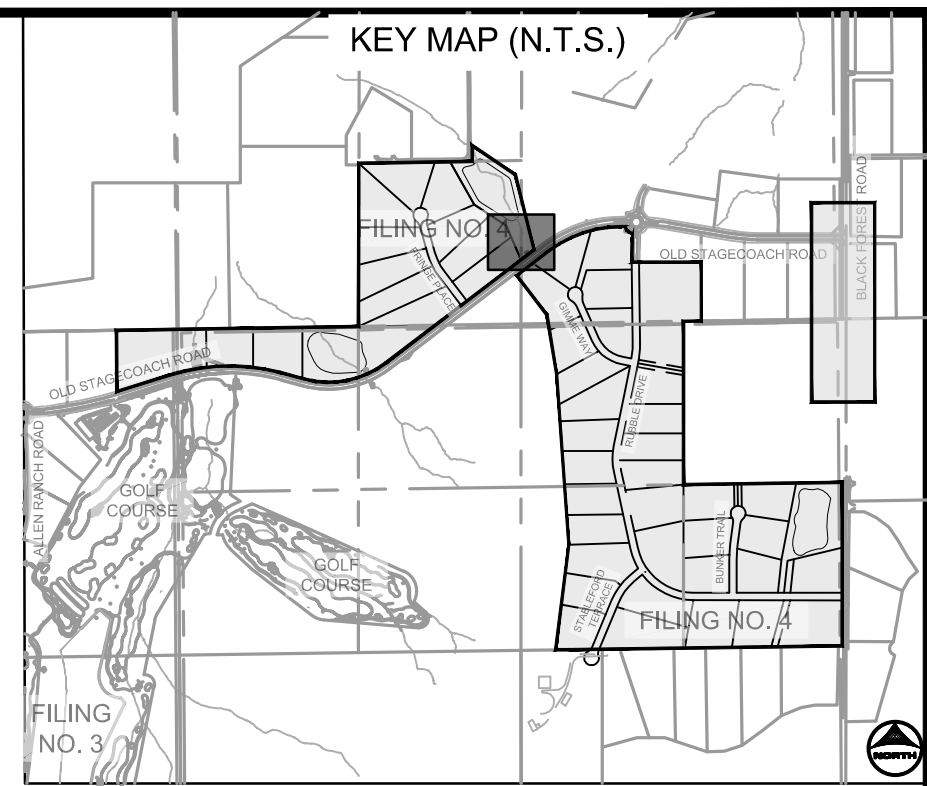
RESTRICTOR PLATE NOTES:

- 3/8" THICK RESTRICTOR PLATE, GALVANIZED STEEL.
- BOLT PLATE TO CONCRETE @ 12" O.C. MAX.
- PROVIDE CONTINUOUS NEOPRENE GASKET MATERIAL BETWEEN PLATE AND CONCRETE.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR RESTRICTOR PLATE FOR ENGINEER'S APPROVAL PRIOR TO CONSTRUCTION.

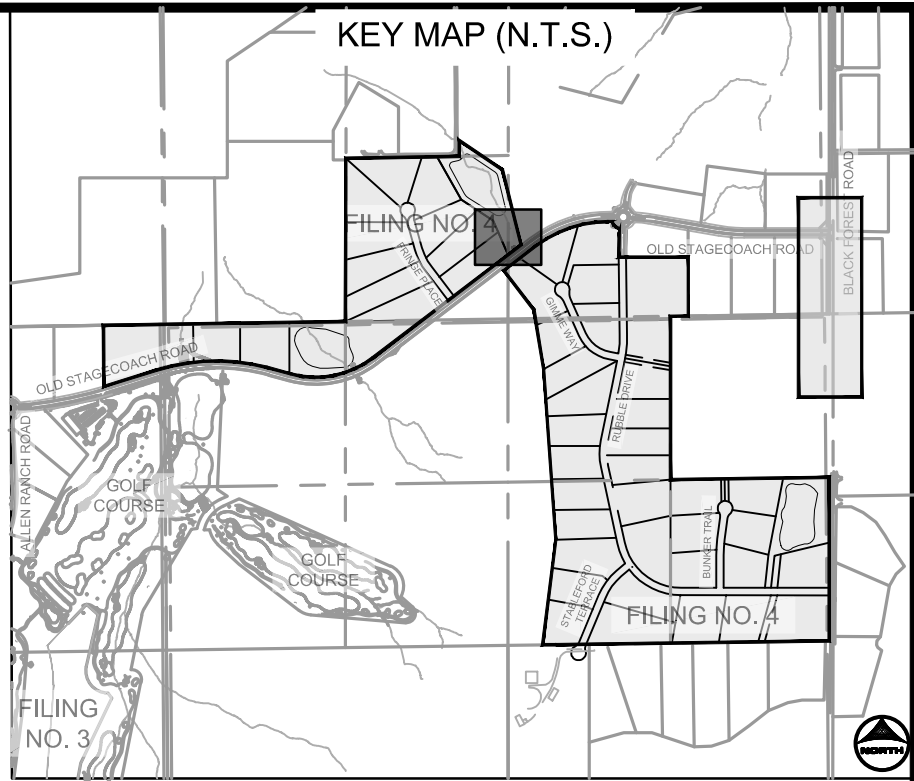
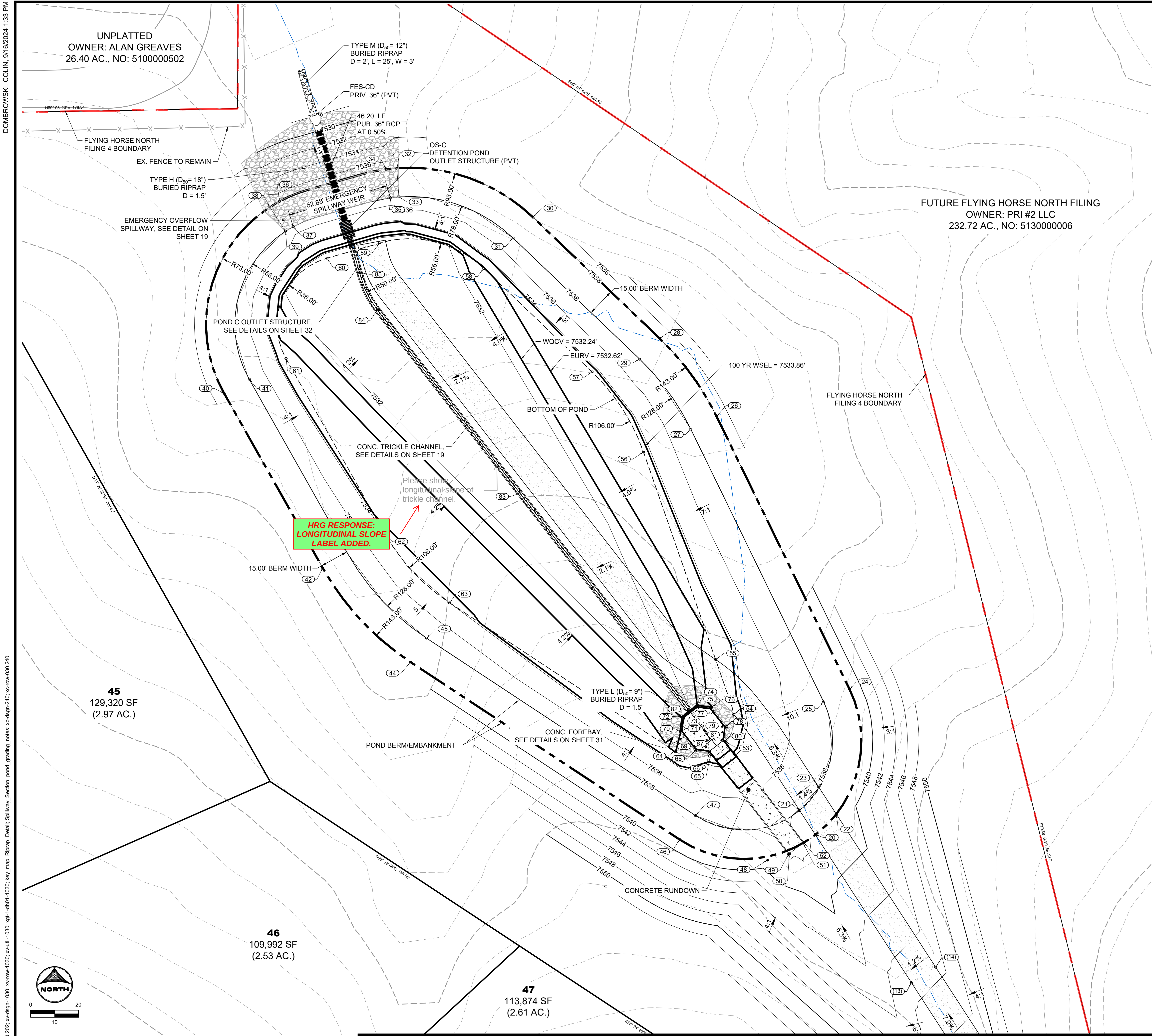


T.O.W. ~ TOP OF WALL
B.O.P. ~ BOTTOM OF POND
T.O.P. ~ TOP OF POND
T.C. ~TRICKLE CHANNEL
G.B. ~ GRADE BREAK

POINT TABLE			
No.	DESC.	NORTHING & EASTING	ELEV
(1)	Begin Maint. Road	N: 447637.89 E: 225636.62	7570.35
(2)	Begin Maint. Road	N: 447647.57 E: 225649.33	???
(3)	Maint. Road	N: 447676.64 E: 226624.63	7567.17
(4)	Maint. Road	N: 447686.22 E: 226637.37	7567.05
(5)	Maint. Road	N: 447738.48 E: 226805.51	7562.09
(6)	Maint. Road	N: 447746.34 E: 226818.78	7562.11
(7)	Maint. Road	N: 447800.31 E: 226796.38	7557.02
(8)	Maint. Road	N: 447806.46 E: 226800.18	7557.18
(9)	Maint. Road	N: 447862.14 E: 226787.25	7551.95
(10)	Maint. Road	N: 447866.57 E: 226781.59	7552.25
(11)	Maint. Road	N: 447875.20 E: 226761.14	7550.45
(12)	Maint. Road	N: 447883.36 E: 226773.73	7550.74
(13)	Maint. Road	N: 447930.96 E: 226724.97	7545.24
(14)	Maint. Road	N: 447939.12 E: 226737.55	7545.52
(15)	Swale FL	N: 447647.46 E: 226814.09	7564.08
(16)	Edge of Swale	N: 447642.88 E: 226798.95	7568.00
(17)	Swale FL	N: 447856.68 E: 226749.58	7548.15
(18)	Edge of Swale	N: 447851.95 E: 226734.29	7552.15
(19)	Swale FL	N: 447864.83 E: 226745.82	7547.49
(20)	Edge of Swale	N: 447856.66 E: 226732.06	7551.47



NO.	DATE	BY	REVISION DESCRIPTION



POINT TABLE			
No.	DESC.	NORTHING & EASTING	ELEV
20	Maint. Road/TOP	N: 448008.13 E: 225674.90	7538.03
21	Maint. Road/TOP	N: 448020.80 E: 225666.68	7538.00
22	Maint. Road/TOP	N: 448018.95 E: 225686.76	7538.05
23	Maint. Road/TOP	N: 448033.04 E: 225682.62	7538.00
24	TOP	N: 448084.00 E: 225693.41	7538.00
25	TOP	N: 448077.43 E: 225693.41	7538.00
26	TOP	N: 448226.26 E: 225693.41	7538.00
27	TOP	N: 448219.70 E: 225693.41	7538.00
28	TOP	N: 448267.00 E: 225693.41	7538.00
29	TOP	N: 448256.16 E: 225693.41	7538.00
30	TOP	N: 448330.17 E: 225693.41	7538.00
31	TOP	N: 448319.33 E: 225693.41	7538.00
32	Spillway	N: 448355.73 E: 225693.41	7538.00
33	Spillway	N: 448340.77 E: 225693.41	7538.00
34	Spillway Crest	N: 448355.19 E: 225693.41	7537.00
35	Spillway Crest	N: 448340.32 E: 225693.41	7537.00
36	Spillway Crest	N: 448338.42 E: 225693.41	7537.00
37	Spillway Crest	N: 448325.23 E: 225693.41	7537.00
38	Spillway	N: 448335.44 E: 225693.41	7538.00
39	Spillway	N: 448322.86 E: 225693.41	7538.00
40	TOP	N: 448238.32 E: 225693.41	7538.00
41	TOP	N: 448245.70 E: 225693.41	7538.00
42	TOP	N: 448147.23 E: 225618.11	7538.00
43	TOP	N: 448157.58 E: 225629.53	7537.99
44	TOP	N: 448098.18 E: 225643.87	7538.00
45	TOP	N: 448110.70 E: 225472.13	7538.00
46	TOP	N: 448005.60 E: 225604.16	7538.00
47	TOP	N: 448018.12 E: 225612.42	7538.00
48	TOP/Edge of Swale	N: 447994.87 E: 225649.93	7538.81
49	Rundown TOW	N: 447997.86 E: 225660.87	7539.00
50	Rundown BOW	N: 447998.20 E: 225661.35	7537.50
51	Rundown BOW	N: 448003.74 E: 225668.48	7537.50
52	Rundown TOW	N: 448004.05 E: 225668.88	7539.00

POINT TABLE			
No.	DESC.	NORTHING & EASTING	ELEV
53	BOP/Rundown TOW	N: 448056.19 E: 225628.34	7533.24
54	Maint. Road/BOP	N: 448070.90 E: 225632.34	7533.41
55	Maint. Road/BOP	N: 448069.51 E: 225622.87	7532.98
56	BOP	N: 448207.65 E: 225685.34	7533.41
57	BOP	N: 448248.49 E: 225658.47	7533.34
58	BOP	N: 448303.43 E: 225693.41	7532.50
59	BOP	N: 448316.76 E: 225693.41	7531.35
60	BOP	N: 448308.79 E: 225693.41	7531.34
61	BOP	N: 448266.51 E: 225693.41	7532.83
62	BOP	N: 448165.42 E: 225693.41	7533.92
63	BOP	N: 448129.02 E: 225693.41	7534.00
64	BOP	N: 448051.70 E: 225693.41	7532.56
65	BOP/Rundown TOW	N: 448050.00 E: 225693.41	7533.24
66	Forebay Outer	N: 448050.85 E: 225693.41	7533.16
67	Forebay Inner	N: 448051.80 E: 225693.41	7531.66
68	Forebay Outer	N: 448051.80 E: 225693.41	7533.22
69	Forebay Inner	N: 448052.67 E: 225693.41	7531.62
70	Forebay Outer	N: 448061.95 E: 225693.41	7532.58
71	Forebay Inner	N: 448062.21 E: 225693.41	7531.49
72	Forebay Outer	N: 448069.65 E: 225693.41	7532.19
73	Forebay Inner	N: 448069.15 E: 225693.41	7531.46
74	Forebay Outer	N: 448075.67 E: 225693.41	7532.19
75	Forebay Inner	N: 448074.71 E: 225618.11	7531.46
76	Forebay Outer	N: 448074.71 E: 225620.76	7532.58
77	Forebay Inner	N: 448073.83 E: 225620.76	7531.49
78	Forebay Outer	N: 448064.56 E: 225620.76	7533.22
79	Forebay Inner	N: 448064.29 E: 225620.76	7531.62
80	Forebay Outer	N: 448057.01 E: 225621.71	7533.16
81	Forebay Inner	N: 448057.35 E: 225620.81	7531.66
82	TC Flow Line	N: 448072.66 E: 225620.18	7531.43
83	TC Flow Line	N: 448186.26 E: 225620.88	7530.71
84	TOP	N: 448281.82 E: 225446.60	7530.11
85	TC Flow Line	N: 448301.23 E: 225437.29	7530.00

POND GRADING NOTES:

- TWO SIGNS OF MINIMUM 3 SQ. FT. AREA, SHALL BE INSTALLED AROUND THE POND PERIMETER. THE SIGNS WILL BE CONSTRUCTED OF A DURABLE MATERIAL SUCH AS METAL OR PLASTIC AND HAVE RED LETTERING ON A WHITE BACKGROUND STATING, "WARNING- THIS AREA IS A STORMWATER FACILITY AND IS SUBJECT TO PERIODIC FLOODING."
- SEE LANDSCAPE PLAN FOR RE-SEEDING AREAS ASSOCIATED WITH PERMANENT CONTROL MEASURE IMPROVEMENTS.
- SEE GRADING & EROSION CONTROL PLANS FOR ANY EXISTING VEGETATION IN THE AREA. CLEARING AND GRUBBING WILL OCCUR PRIOR TO POND CONSTRUCTION AND THEREFORE, NO EXISTING VEGETATION WILL BE PRESENT.
- ALL RIPRAP MUST BE INSTALLED PER DETAIL ON SHEET 2.

ABBREVIATIONS:

T.O.W. ~ TOP OF WALL
B.O.P. ~ BOTTOM OF POND
T.O.P. ~ TOP OF POND
T.C. ~ TRICKLE CHANNEL
G.B. ~ GRADE BREAK

PCD FILE NO.: SF####

DRAWN BY: CMD JOB DATE: 9/16/24
APPROVED: RDL JOB NUMBER: 211030.240
CAD DATE: 9/19/2024
CAD FILE: J:\2021\211030\CAD\Drawings\Filing_No_4\Pond_C_Grading

BAR IS ONE INCH ON OFFICIAL DRAWINGS.
0 1" IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.

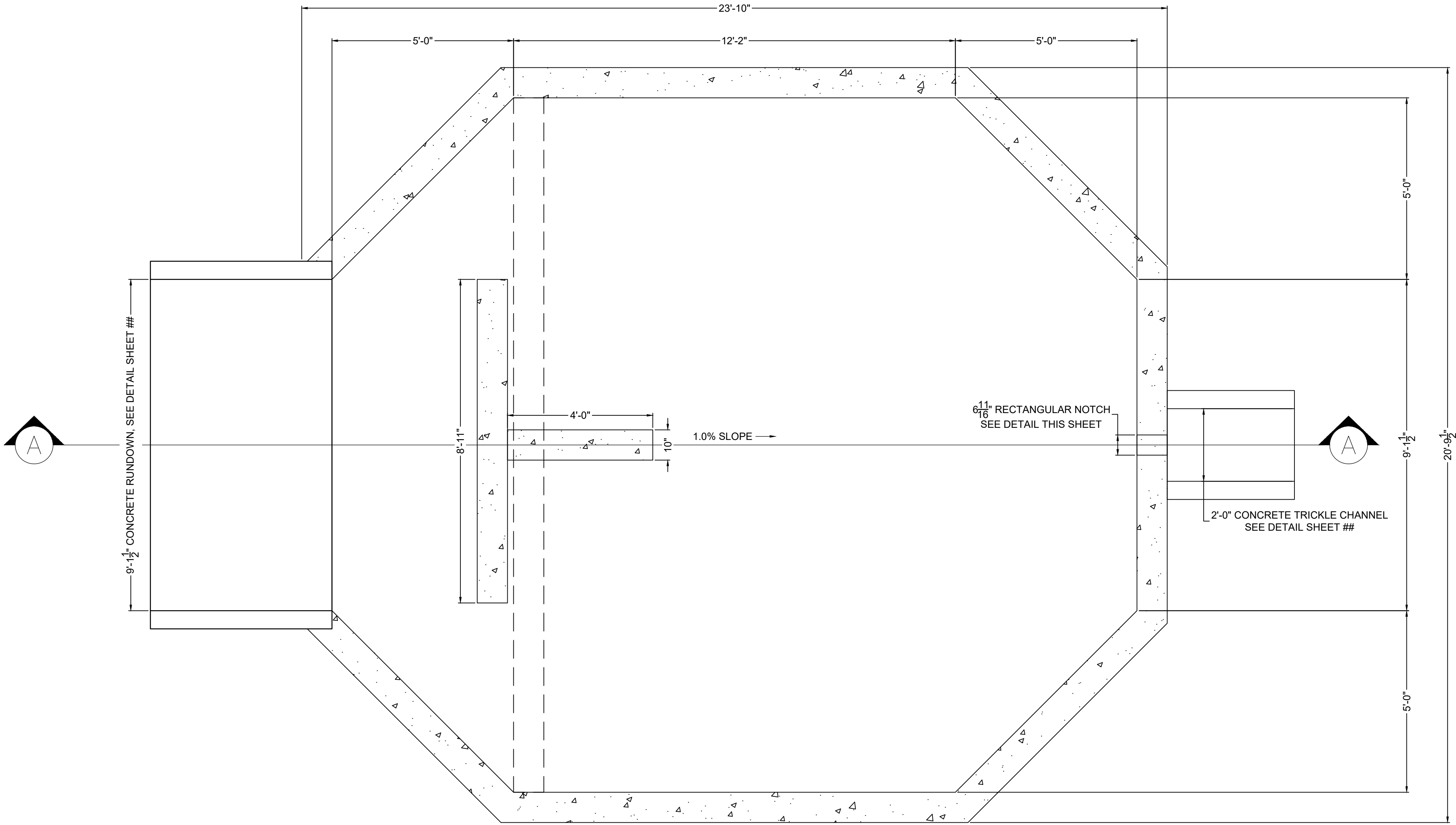
NO.	DATE	BY	REVISION DESCRIPTION

HR GREEN - COLORADO SPRINGS
1975 RESEARCH PARKWAY SUITE 160
COLORADO SPRINGS, CO 80920
PHONE: 719.300.4140
FAX: 713.965.0044

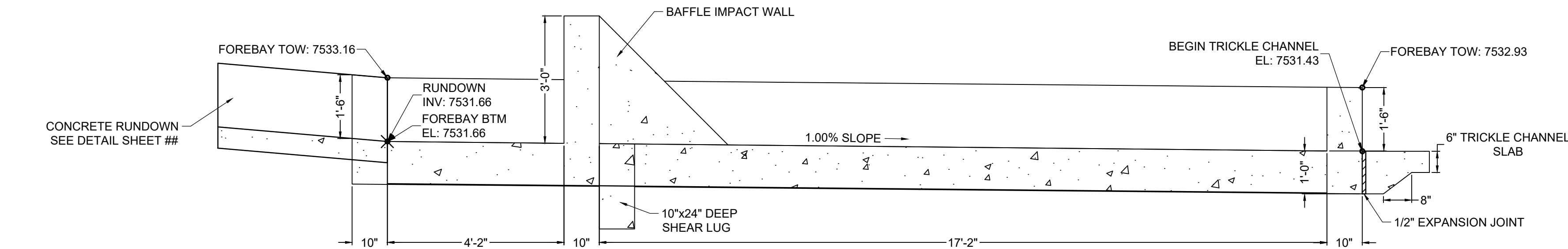
FLYING HORSE NORTH FILING 4
PRI #2, LLC.
EL PASO COUNTY, CO

POND DETAILS
POND C GRADING PLAN

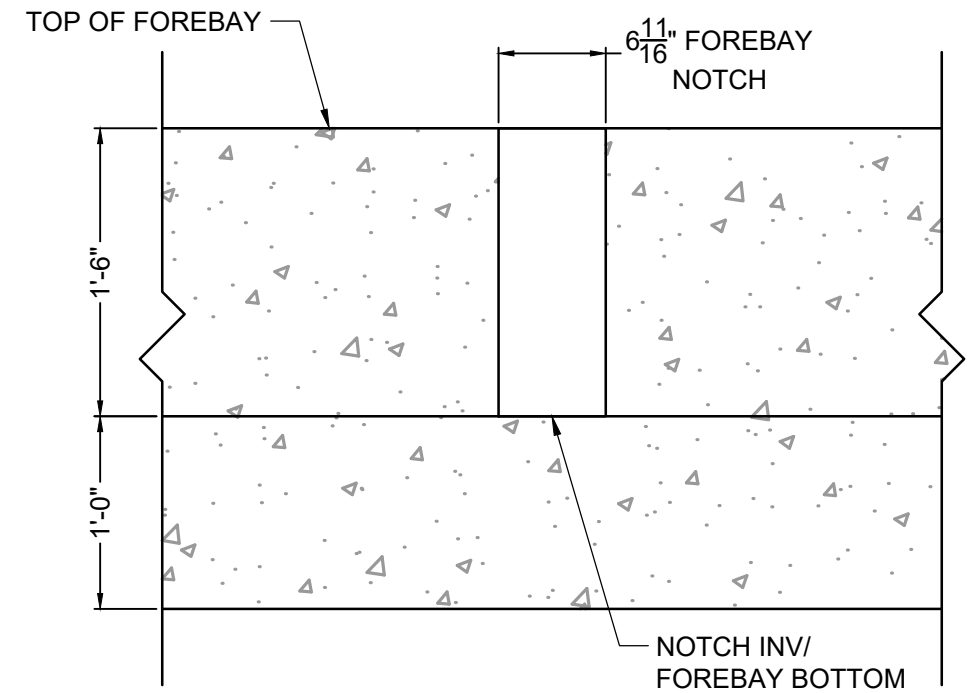
SHEET
PND
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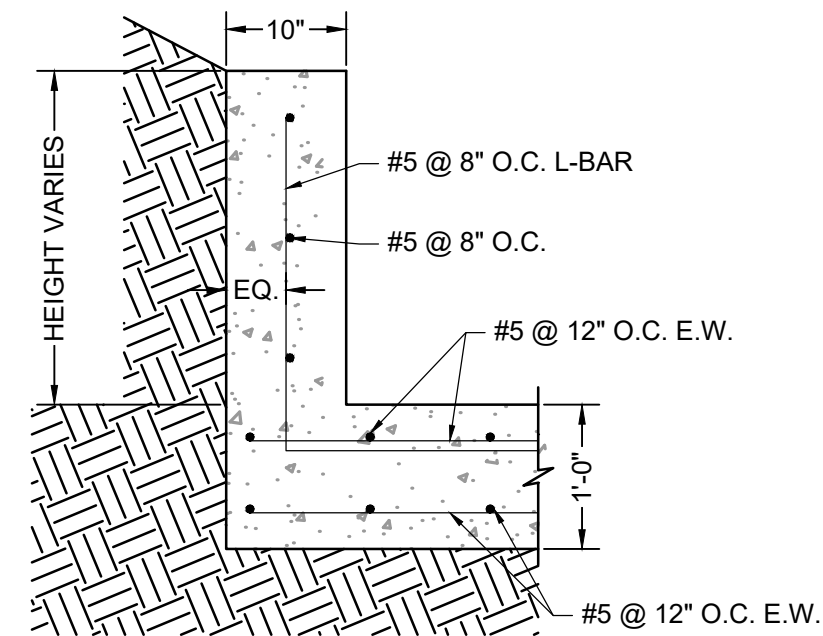
PLAN VIEW
FOREBAY C
SCALE: 1"=2'



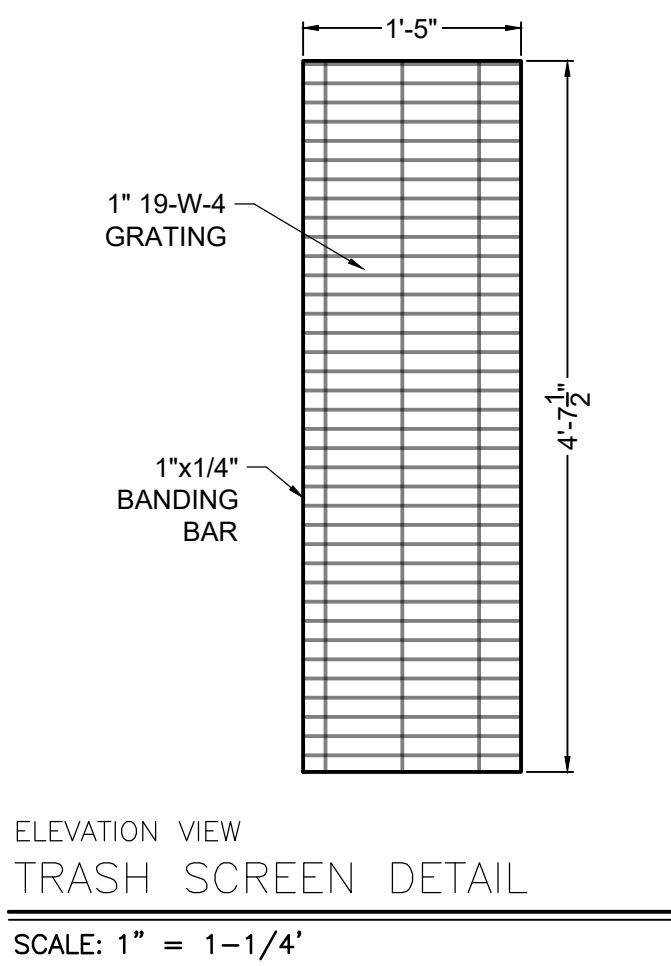
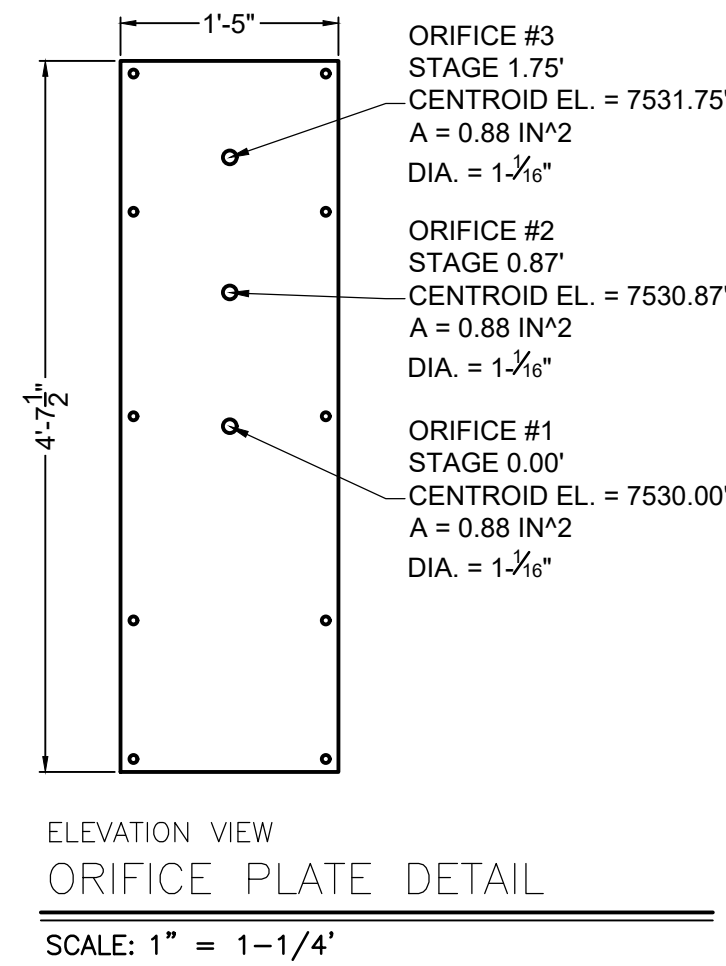
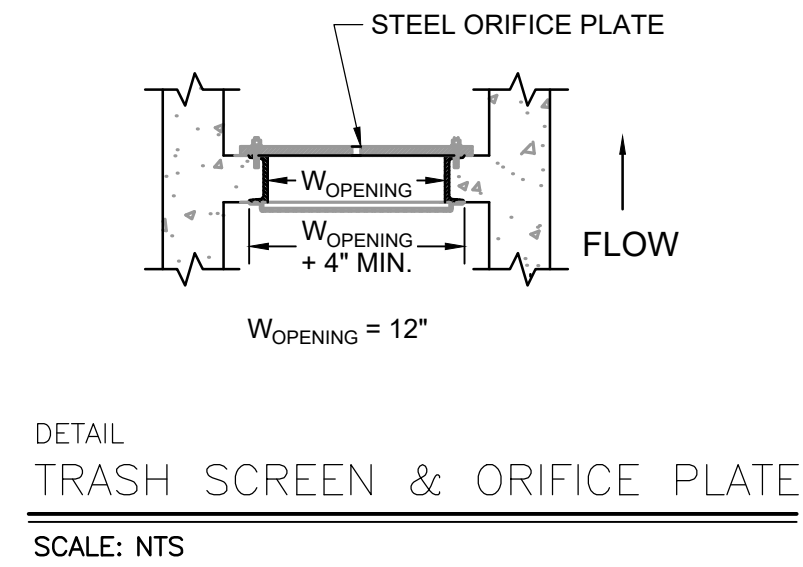
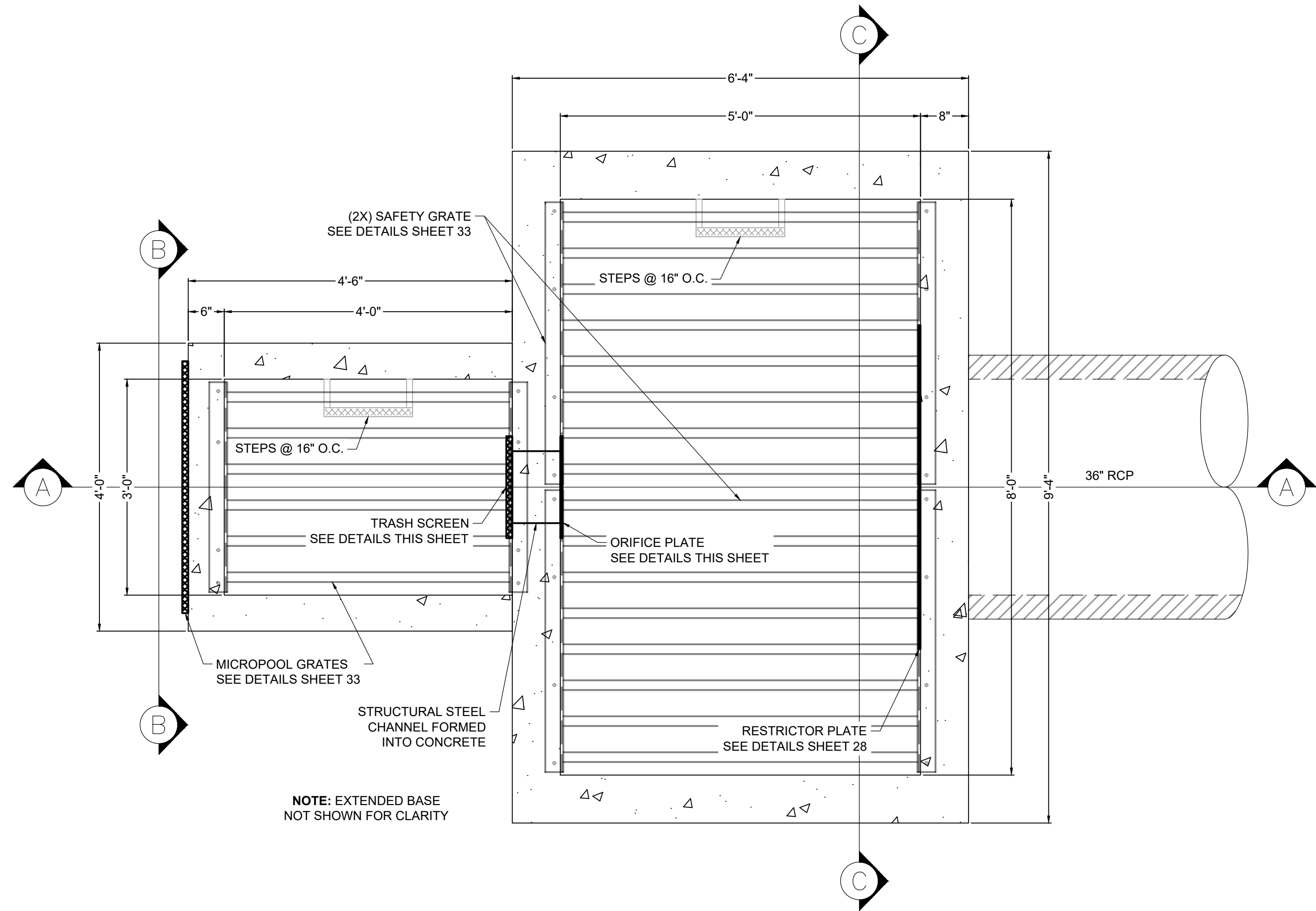
SECTION VIEW A-A
FOREBAY C
SCALE: 1"=2'



FOREBAY C NOTCH DETAIL
SCALE: NTS



ELEVATION VIEW
FOREBAY WINGWALL REINFORCING DETAIL
SCALE: NTS

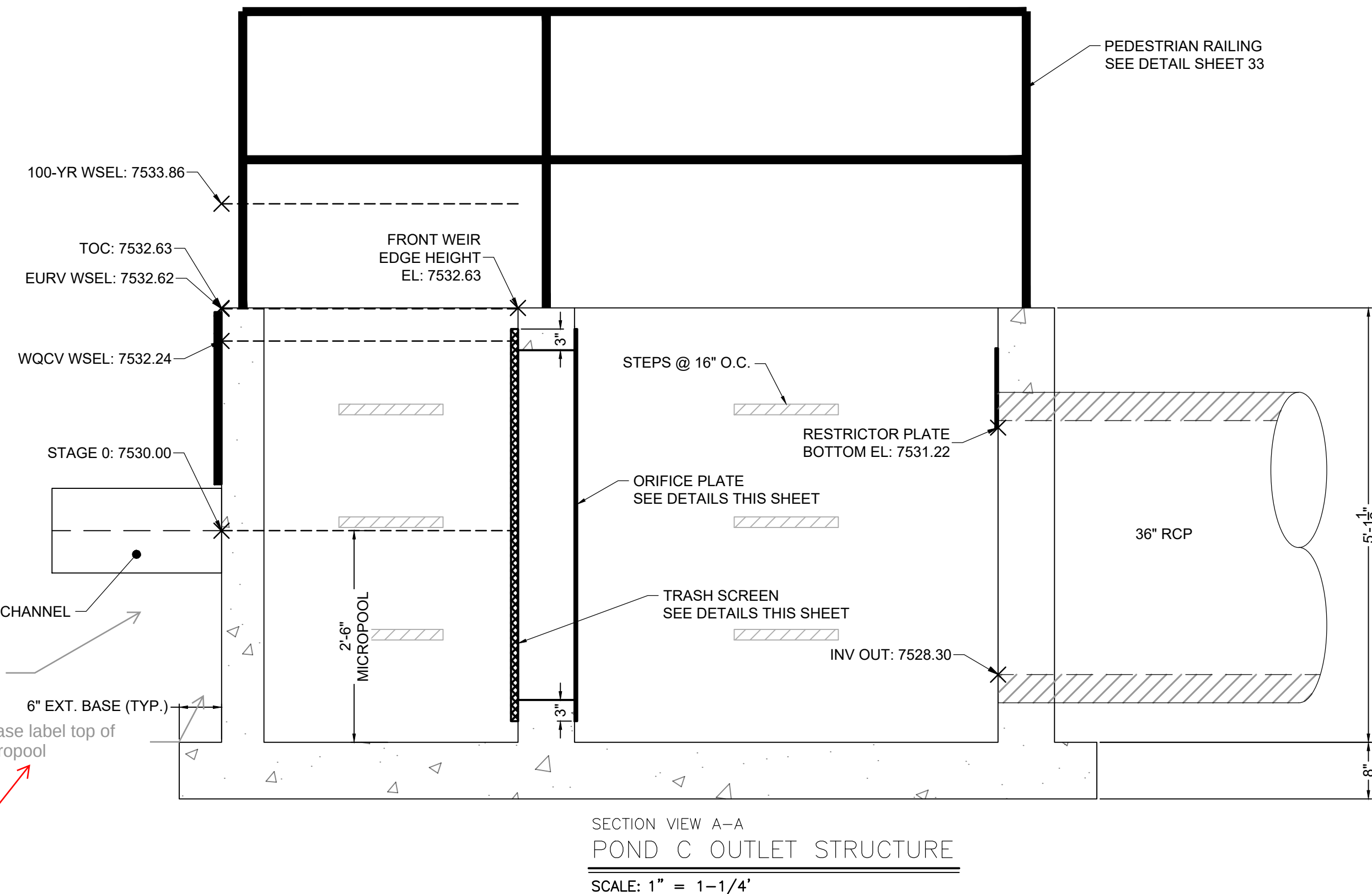
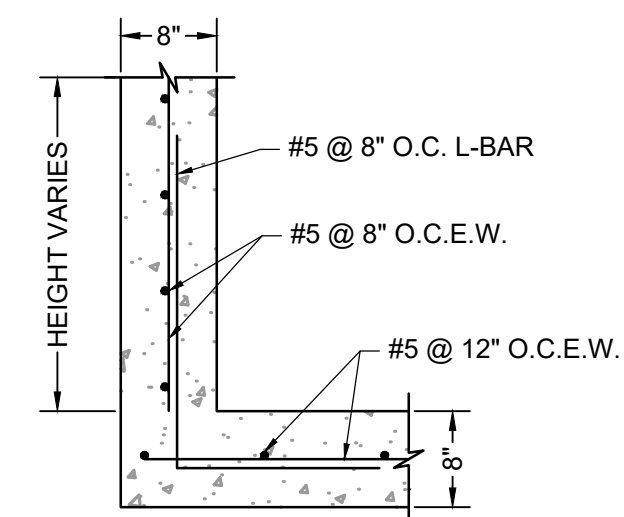


TRASH SCREEN NOTES:

1. TRASH SCREEN SHALL BE STEEL AND SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME.
2. TRASH SCREEN OPEN AREAS ARE FOR SPECIFIED TRASH RACK MATERIALS. TOTAL TRASH RACK SIZE MAY NEED TO BE ADJUSTED FOR MATERIALS HAVING DIFFERENT OPEN AREA/GROSS AREA RATIO (R VALUE).
3. STRUCTURAL DESIGN OF TRASH RACKS SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF THE RACK.
4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR TRASH SCREEN FOR ENGINEER'S APPROVAL PRIOR TO CONSTRUCTION.

ORIFICE PLATE NOTES:

1. PLATE TO BE 3/8" THICK GALVANIZED STEEL.
2. BOLT PLATE TO CONCRETE 16" O.C. MAX.
3. PROVIDE CONTINUOUS NEOPRENE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE.
4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ORIFICE PLATE FOR ENGINEER'S APPROVAL PRIOR TO CONSTRUCTION.



HRG RESPONSE: ISV LABELED.

HRG RESPONSE: TOP OF MICROPOOL LABELLED.

DRAWN BY: CMD JOB DATE: 9/16/24
APPROVED: RDL JOB NUMBER: 211030.240
CAD DATE: 9/22/2024
CAD FILE: J:\2021\211030\CAD\Drawings\C\Filing_No_4\Outlet_Structure_Details

BAR IS ONE INCH ON OFFICIAL DRAWINGS.
0 1"
IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	REVISION DESCRIPTION



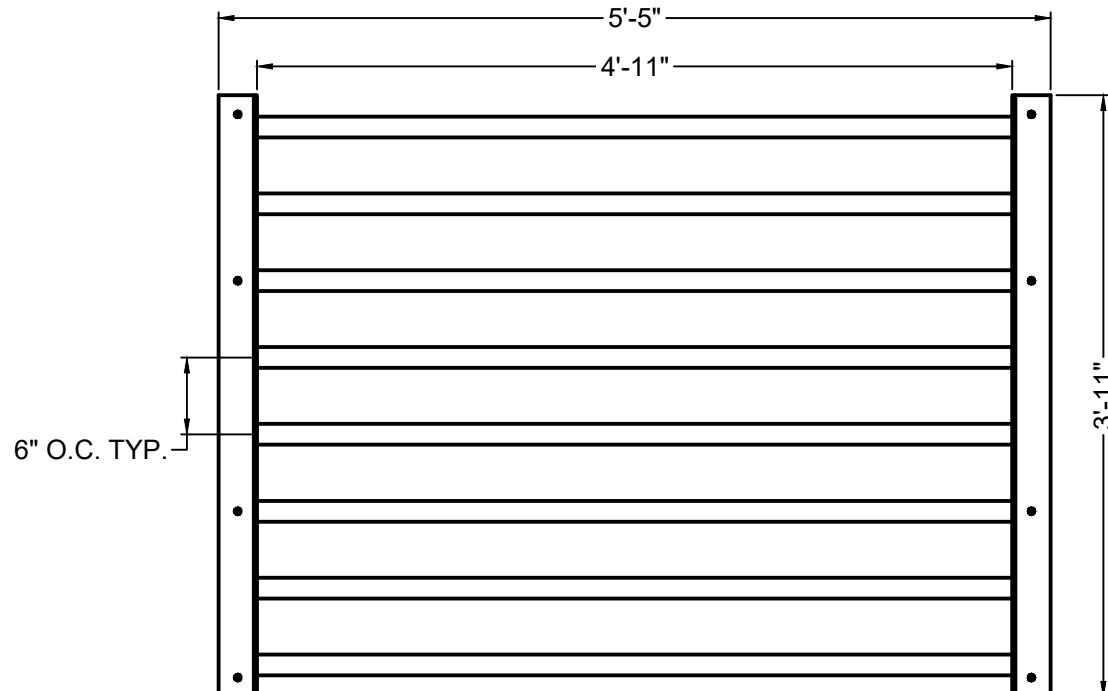
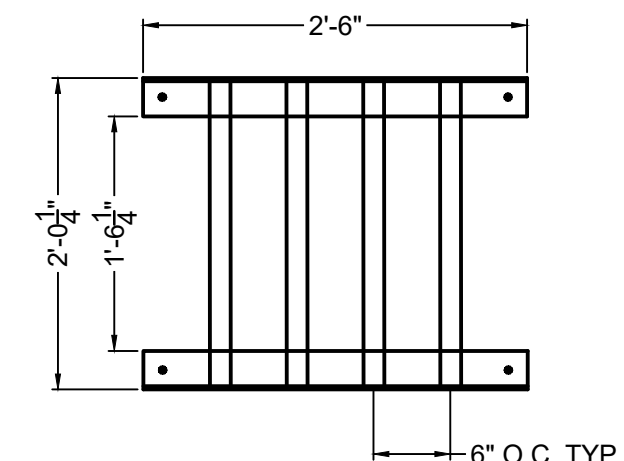
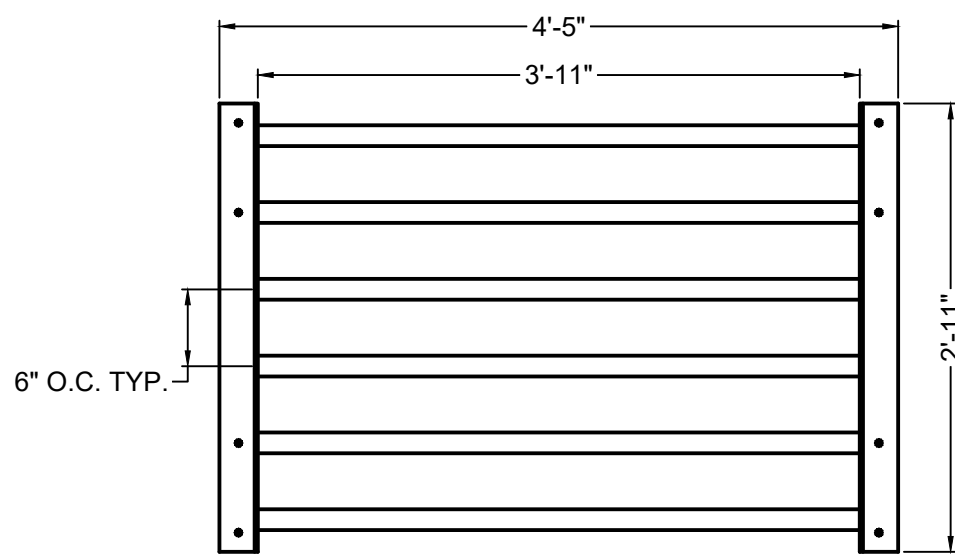
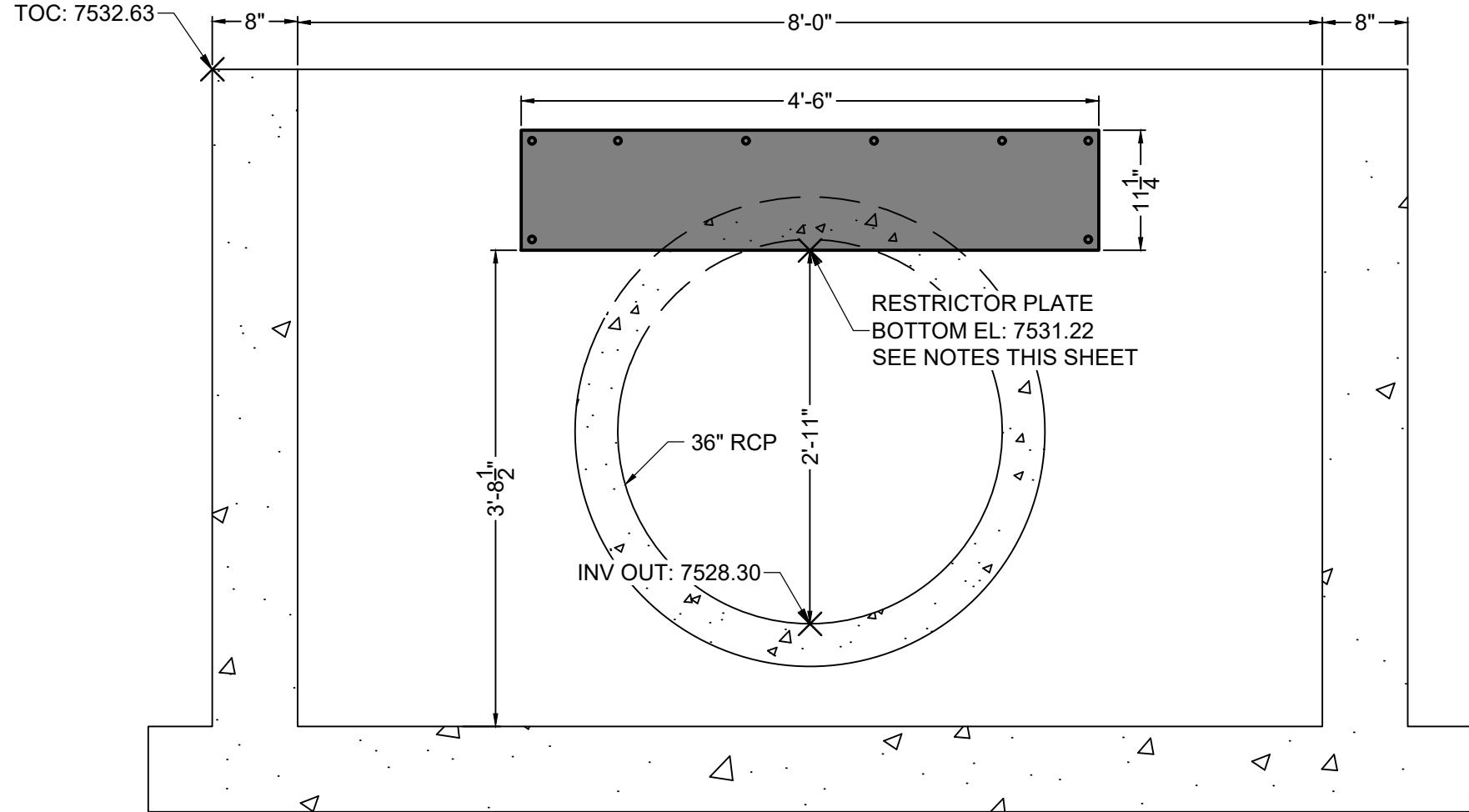
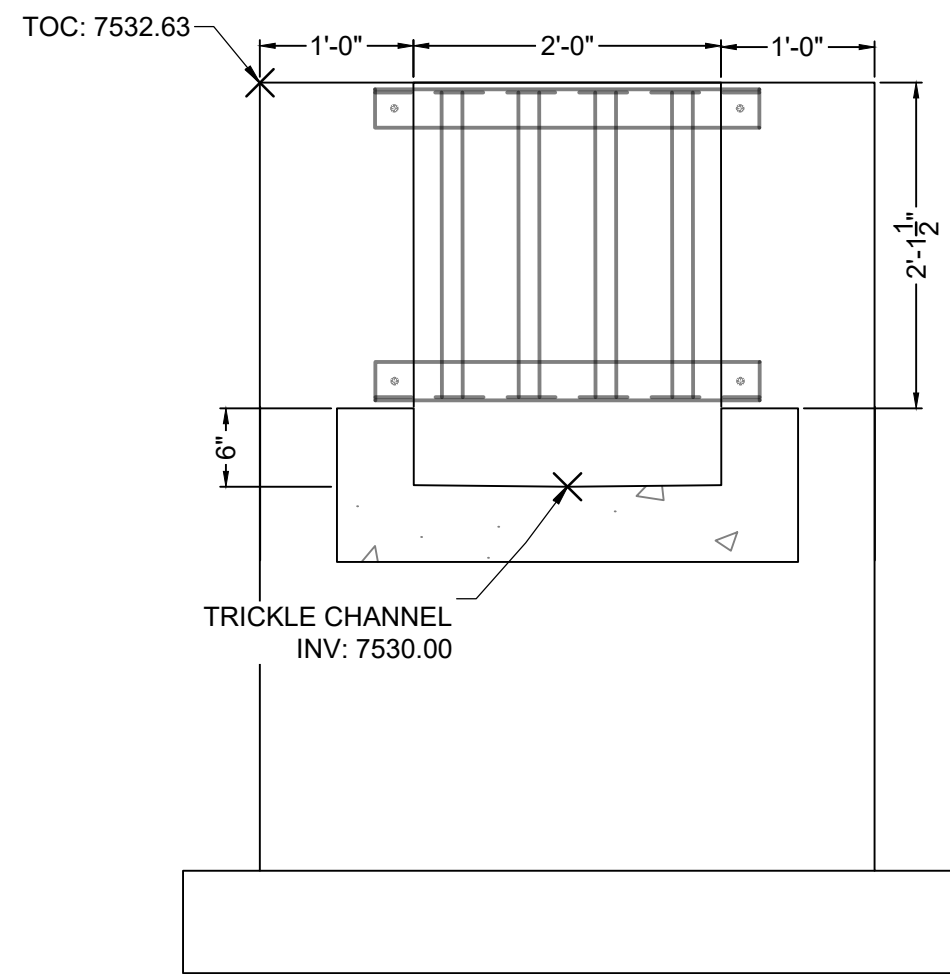
HR GREEN - COLORADO SPRINGS
1975 RESEARCH PARKWAY SUITE 160
COLORADO SPRINGS, CO 80920
PHONE: 719.300.4140
FAX: 713.965.0044

FLYING HORSE NORTH FILING 4
PRI #2, LLC.
EL PASO COUNTY, CO

POND DETAILS
POND C OUTLET STRUCTURE

SHEET
PND

32

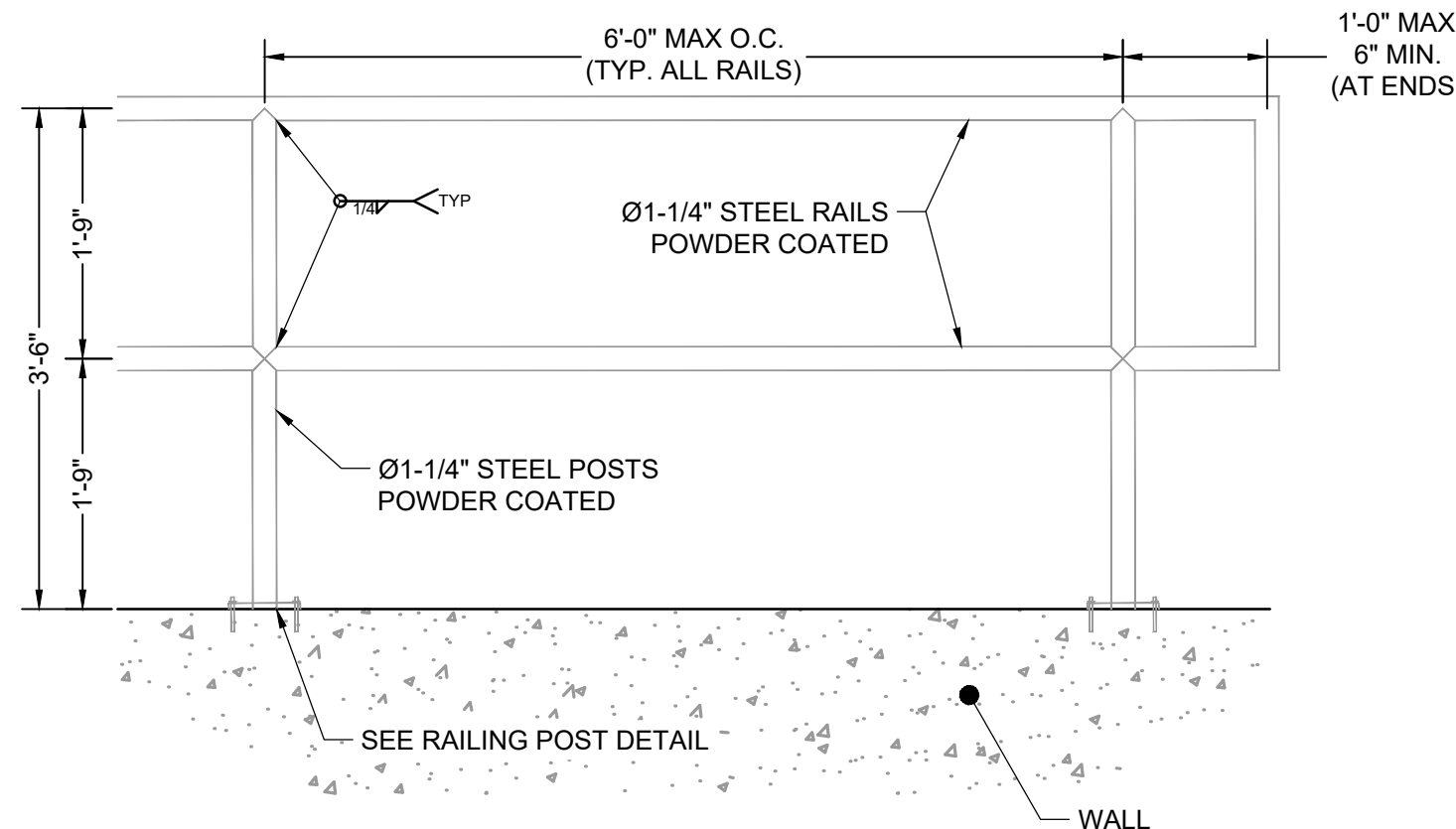
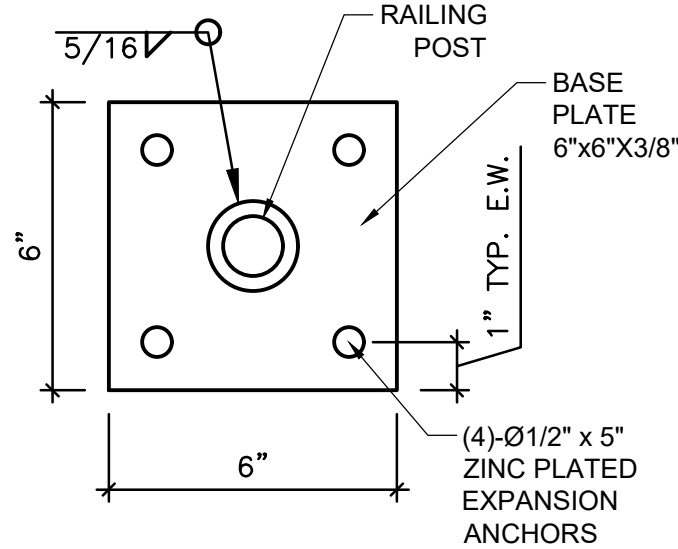


TWO SIGNS SHALL BE INSTALLED AROUND THE POND PERIMETER. THE SIGNS SHALL BE CONSTRUCTED OF A DURABLE MATERIAL SUCH AS METAL OR PLASTIC AND HAVE RED LETTERING ON A WHITE BACKGROUND WITH THE BELOW MESSAGE.

WARNING:
THIS AREA IS A
STORMWATER
FACILITY AND
IS SUBJECT TO
PERIODIC
FLOODING

Minimum Sign Area: 3 sqft

**POND WARNING SIGN
DETAIL**
SCALE: N.T.S.



SAFETY GRATES/TRASH RACK NOTES:

1. TRASH RACKS AND SAFETY GRATES SHALL BE 1-1/2" SCH. 40 STEEL PIPE, @ 6" CENTERS BOUNDED BY 3"x3"x1/4" ANGLE IRON. ALL GRATES SHALL BE MOUNTED USING ZINC PLATED STEEL HARDWARE.
2. REMOVABLE GRATE SECTIONS SHALL BE MOUNTED USING ZINC PLATED STEEL HARDWARE AND PROVIDED WITH HINGED & LOCKABLE OR BOLTABLE ACCESS PANELS AS SHOWN ON THE PLANS.
3. STEEL GRATES SHALL BE HOT DIP GALVANIZED AND MAY BE HOT POWDER COATED AFTER GALVANIZING.
4. STRUCTURAL STEEL FOR GRATES SHALL BE GALVANIZED AND SHALL BE IN ACCORDANCE WITH CDOT STANDARD SPECIFICATIONS, SUBSECTION 712.06.
5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR GRATING FOR ENGINEER'S APPROVAL PRIOR TO CONSTRUCTION.

RESTRICTOR PLATE NOTES:

1. 3/8" THICK RESTRICTOR PLATE, GALVANIZED STEEL.
2. BOLT PLATE TO CONCRETE @ 12" O.C. MAX.
3. PROVIDE CONTINUOUS NEOPRENE GASKET MATERIAL BETWEEN PLATE AND CONCRETE.
4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR RESTRICTOR PLATE FOR ENGINEER'S APPROVAL PRIOR TO CONSTRUCTION.