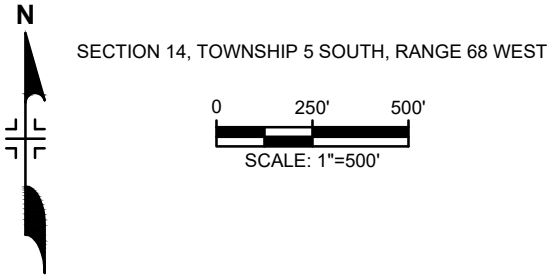


CITY OF GREENWOOD VILLAGE
2024 BRIDGE RAIL REPLACEMENTS

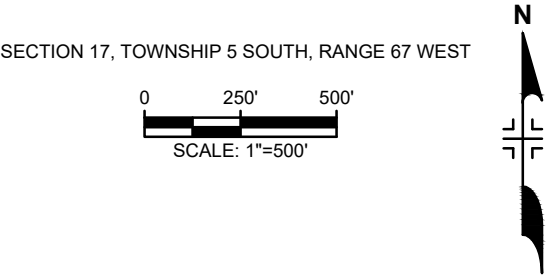
ARAPAHOE COUNTY, COLORADO
PROJECT NO. 91050



GREEN OAKS DRIVE OVER THE HIGHLINE CANAL
VICINITY MAP



E ORCHARD ROAD OVER GREENWOOD GULCH
VICINITY MAP



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REVISIONS	NO.	DATE	DESCRIPTION



2024 BRIDGE RAIL REPLACEMENTS
CITY OF GREENWOOD VILLAGE, CO

CLIENT PROJECT NO.
91050

WSB PROJECT NO.
028318-000

TITLE SHEET

SHEET
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COLORADO
DEPARTMENT OF TRANSPORTATION

M&S STANDARDS PLANS LIST

July 31, 2019

Revised on January 16, 2026

ALL OF THE M&S STANDARD PLANS, AS SUPPLEMENTED AND REVISED, APPLY TO THIS PROJECT WHEN USED BY DESIGNATED PAY ITEM OR SUBSIDIARY ITEM.

THE M&S STANDARD PLANS USED TO DESIGN THIS PROJECT ARE INDICATED BY A MARKED BOX , AND WILL BE ATTACHED TO THE PLANS. ALL OTHER M&S STANDARD PLANS ARE STILL ELIGIBLE FOR USE IN CONSTRUCTION IF APPROVED BY AN APPROPRIATE CDOT ENGINEER.

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2024 BRIDGE RAIL REPLACEMENTS
CITY OF GREENWOOD VILLAGE, CO

CLIENT PROJECT NO.
91050

WSB PROJECT NO.
028318-000

STANDARD PLANS LIST

GENERAL NOTES

1. ALL WORK SHALL BE CONSTRUCTED TO CITY OF GREENWOOD VILLAGE DESIGN AND CONSTRUCTION STANDARDS AND CDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2024, STANDARD SPECIAL PROVISIONS AND THE PROJECT SPECIAL PROVISIONS. UNLESS AS SHOWN OR DIRECTED OTHERWISE, THE CDOT STANDARD PLANS (M & S STANDARDS), 2019, WITH CURRENT REVISIONS SHALL APPLY TO THIS PROJECT.
2. THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF ANY PROBLEM IN CONFORMING TO THE APPROVED PLANS FOR ANY ELEMENT OF THE PROPOSED IMPROVEMENTS PRIOR TO ITS CONSTRUCTION.
3. THE CONTRACTOR SHALL HAVE ON SITE AT ALL TIMES ONE (1) STAMPED FOR CONSTRUCTION COPY OF THE PLANS AND SPECIAL PROVISIONS THAT HAVE BEEN APPROVED BY THE CITY, ONE (1) COPY EACH OF THE CURRENT CDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE M&S STANDARD PLANS, AND A COPY OF ALL APPLICABLE PERMITS.
4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND TRAINING FROM APPLICABLE AGENCIES, INCLUDING CDOT, PRIOR TO COMMENCEMENT OF CONSTRUCTION. PERMIT FEES WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE WORK. THE FEES WILL BE WAIVED FOR PERMITS ISSUED BY THE CITY OF GREENWOOD VILLAGE.
5. ALL MATERIALS AND WORK SHALL BE SUBJECT TO INSPECTION BY CITY. THE CITY RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORK THAT DO NOT CONFORM TO THE STANDARDS AND SPECIFICATIONS FOR THE PROJECT.
6. FOR QUANTITIES OF PAVEMENT MATERIALS, THE FOLLOWING RATES OF APPLICATION SHALL BE USED:

A. BITUMINOUS PAVEMENT AT 110 LBS. PER SQ. YD. PER 1" THICKNESS. REFERENCES TO HOT MIX ASPHALT (HMA) ARE EQUIVALENT TO HOT BITUMINOUS PAVEMENT (HBP).

B. AGGREGATE BASE COURSE (CLASS 6) AT 133 LBS./CU. FT.
7. ANY LAYER OF BITUMINOUS PAVEMENT THAT IS TO HAVE A SUCCEEDING LAYER PLACED THEREON SHALL BE COMPLETED FULL WIDTH BEFORE SUCCEEDING LAYER IS PLACED. LONGITUDINAL ASPHALT JOINTS SHALL BE OFFSET 12" FROM LANE LINES OR SHOULDER LINES, UNLESS NOTED OTHERWISE IN THE PLANS.
8. THE AREA OF EXISTING PAVEMENT TO BE OVERLAID SHALL BEGIN AND END WITH A MILLED TRANSVERSE BUTT JOINT, OR AS APPROVED BY THE CITY. THIS EFFORT WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE ASSOCIATED HOT MIX ASPHALT OVERLAY.
9. FINAL GRADING OF THE ASPHALT PAVEMENT SURFACE SHALL PROVIDE POSITIVE DRAINAGE. WATER POCKETS AND POOLING OF WATER ON THE ROADWAY WILL NOT BE ACCEPTED AND SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
10. THE CONTRACTOR SHALL PROVIDE QUALITY CONTROL (QC) TESTING FOR ASPHALT, CONCRETE, AND SOILS (COMPACTION). THE REQUIREMENTS FOR QC TESTING SHALL BE IN ACCORDANCE WITH THE CITY OF GREENWOOD VILLAGE PUBLIC INFRASTRUCTURE DESIGN AND CONSTRUCTION STANDARDS. QC TESTING WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE RELATED ASPHALT, CONCRETE, OR SOIL PAY ITEMS, (INCLUDING EMBANKMENT, BACKFILL, BASES, SUBGRADE, ETC.). THE CITY MAY ALSO PERFORM APPROPRIATE QUALITY ASSURANCE (QA) TESTING FOR THE MATERIALS AND WORK.
11. WATER SHALL BE USED TO MITIGATE DUST WHEN AND WHERE NEEDED (ESPECIALLY DURING CONCRETE REMOVAL OR JACK HAMMERING), OR AS DIRECTED BY THE ENGINEER, DURING THE PROJECT. DUST PALLIATIVES SHALL BE IN ACCORDANCE WITH SECTION 209, EXCEPT THAT THE COST SHALL BE INCLUDED IN THE WORK.
12. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING FEATURES, LANDSCAPING OR IMPROVEMENTS, CAUSED BY THE CONTRACTOR'S ACTIVITIES. THOSE REPAIRS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
13. CONTRACTOR SHALL INFORM ENGINEER OF METHOD AND LOCATION OF DUMPING REMOVED ASPHALT PRIOR TO BEGINNING PROJECT. CONTRACTOR TO ABIDE BY ALL LOCAL LAWS WHEN DUMPING REMOVED ASPHALT. REMOVED ASPHALT MUST BE HAULED OFF-SITE, AND MAY NOT BE WASTED ON-SITE. THE COST OF HAULING OF REMOVED ASPHALT SHALL BE INCLUDED IN THE WORK.
14. ALL REMOVED ITEMS AND EXCESS MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR, UNLESS NOTED OTHERWISE, AND BE PROPERLY DISPOSED OF OFF-SITE.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY REQUIRED STORM WATER/EROSION CONTROL PERMITTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCEPTANCE AND CONTROL OF ALL SURFACE AND SUBSURFACE DRAINAGE AND GROUNDWATER ENTERING THE PROJECT AREA. ADDITIONAL EROSION CONTROL MEASURES SHALL BE PROVIDED AS NEED DEVELOPS, OR AS DIRECTED BY THE ENGINEER.
16. THE PHYSICAL FEATURES WITHIN THE LIMITS OF THE PROJECT HAVE BEEN SHOWN BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF DESIGN. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL FEATURES PRIOR TO BEGINNING ANY WORK OR FABRICATING ANY ELEMENTS OF THE WORK.

17. THE CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO THOSE AREAS WITHIN THE CONSTRUCTION LIMITS AS SHOWN ON THE PLANS. ANY DISTURBANCE BEYOND THESE LIMITS SHALL BE RESTORED TO ORIGINAL CONDITION BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. CONSTRUCTION ACTIVITIES IN ADDITION TO NORMAL CONSTRUCTION PROCEDURES SHALL INCLUDE THE PARKING OF VEHICLES OR EQUIPMENT, DISPOSAL OF LITTER, AND ANY OTHER ACTION WHICH WOULD ALTER EXISTING CONDITIONS.
18. NOTIFY THE CITY OF ANY SOIL, CONCRETE OR ASPHALT PLACEMENT 48 HOURS PRIOR TO PLACEMENT.
19. THE CONTRACTOR SHALL NOTIFY THE CITY AT LEAST 5 DAYS PRIOR TO STARTING CONSTRUCTION.
20. ANY DAMAGE CAUSED BY THE CONTRACTOR TO PRESENT ROADWAY FACILITIES OUTSIDE OF THE PROJECT LIMITS SHALL BE REPAIRED IMMEDIATELY AND PRIOR TO CONTINUING OTHER WORK. ANY MUD OR OTHER MATERIAL TRACKED OR OTHERWISE DEPOSITED ON THE ROADWAY SHALL BE REMOVED DAILY OR AS ORDERED BY THE INSPECTOR.
21. ANY CONSTRUCTION EQUIPMENT WITH OUTRIGGERS SHALL USE STREET PADS TO PROTECT PAVEMENT.
22. NO STORAGE OF MATERIALS OR EQUIPMENT WILL BE ALLOWED WITHIN 10-FEET OF THE EDGE OF TRAVELED WAY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING AND OBTAINING A SUITABLE STAGING AREA.
23. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ACCESS TO PUBLIC STREETS AND PRIVATE PROPERTY ADJOINING THE PROJECT. THE CONTRACTOR WILL NOT BE ALLOWED TO SHUT OFF ACCESS TO ANY PROPERTY AND MUST COORDINATE HIS WORK WITH THE PROPERTY OWNERS.
24. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE POLICE AND FIRE DEPARTMENT PRIOR TO CONSTRUCTION TO ENSURE EMERGENCY ACCESS THROUGH THE CORRIDOR DURING CONSTRUCTION.
25. THE CONTRACTOR SHALL PROTECT ALL SURVEY MONUMENTATION AND PROPERTY CORNERS WITHIN THE PROJECT LIMITS. IF ANY MONUMENT OR PROPERTY CORNER IS DAMAGED OR DISTURBED, THE CONTRACTOR SHALL RESTORE THE MONUMENT TO ITS ORIGINAL CONDITION, TO THE SATISFACTION OF THE CITY AND AT NO COST TO THE CITY. RESTORING OF MONUMENTS OR PROPERTY CORNERS SHALL BE PERFORMED UNDER THE DIRECTION OF A PROFESSIONAL LAND SURVEYOR.
26. WHERE IT IS REQUIRED TO CUT EXISTING PAVING OR CONCRETE, THE CUTTING SHALL BE DONE TO A NEAT WORK LINE WITH A SAW OR OTHER METHOD AS APPROVED BY THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE APPLICABLE REMOVAL ITEM.
27. THE CONTRACTOR SHALL KEEP THE WORK AREA DRY OF STANDING WATER AND SHALL KEEP THE EXCAVATION AREAS FREE FROM STORM RUN-OFF. UNDER NO CIRCUMSTANCES SHALL WATER BE ALLOWED TO RUN FROM THE WORK SITE OR EXCAVATION OFF OF THE PROJECT SITE.
28. THE CONTRACTOR SHALL PROVIDE A SANITARY FACILITY ON SITE FOR THE DURATION OF THIS PROJECT. MAINTENANCE OF THE SANITARY FACILITY SHALL INCLUDE CLEANING AND STOCKING AT LEAST TWICE PER WEEK.
29. TEMPORARY CONCRETE BARRIERS SHALL HAVE DRAINAGE SLOTS, WHERE NEEDED, TO PROVIDE ADEQUATE DRAINAGE.
30. THE CONTRACTOR SHALL BEAR RESPONSIBILITY AND EXPENSE FOR PROVIDING TEMPORARY DITCHES AND PIPES TO ENSURE ADEQUATE DRAINAGE AND SAFE DRIVING CONDITIONS AT ALL TIMES.
31. THE CONTRACTOR SHALL BEAR RESPONSIBILITY AND EXPENSE FOR MAINTAINING ADEQUATE DRAINAGE AND SAFE DRIVING CONDITIONS AT ALL TIMES. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF RELATED WORK.
32. PAINT REMOVAL MATERIAL AND REMOVED PAINT MUST BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS. CONTRACTOR SHALL TEST FOR HEAVY METALS TO DETERMINE SUITABLE MEANS OF DISPOSAL.



SCALE: DESIGN BY: KSJ

PLAN BY: KSJ CHECK BY: RT

REVISIONS	NO.	DATE	DESCRIPTION



2024 BRIDGE RAIL REPLACEMENTS
CITY OF GREENWOOD VILLAGE, CO

CLIENT PROJECT NO.
91050

WSB PROJECT NO.
028318-000

GENERAL NOTES

SHEET
03 OF 20

100% PLANS - NOT FOR CONSTRUCTION

UTILITY NOTES

1. THE CONTRACTOR SHALL COMPLY WITH ARTICLE 1.5 OF TITLE 9, CRS ("EXCAVATION REQUIREMENTS") WHEN EXCAVATING OR GRADING IS PLANNED IN THE AREA OF UNDERGROUND UTILITY FACILITIES. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITIES AT LEAST TWO (2) BUSINESS DAYS, NOT INCLUDING THE ACTUAL DAY OF NOTICE, PRIOR TO COMMENCING SUCH OPERATIONS. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AT PHONE NO. 811 OR 1-800-922-1987, TO HAVE LOCATIONS OF UNCC REGISTERED LINES MARKED BY MEMBER COMPANIES. ALL OTHER UNDERGROUND FACILITIES SHALL BE LOCATED BY CONTACTING THE RESPECTIVE OWNER. UTILITY SERVICE LATERALS SHALL ALSO BE LOCATED PRIOR TO BEGINNING EXCAVATION OR GRADING.
2. EXISTING UNDERGROUND UTILITIES SHOWN ARE LOCATED FROM FIELD SURVEY CONDUCTED BY WSB. UTILITIES MAY EXIST THAT ARE NOT SHOWN ON THE PLANS.
3. ALL SURVEYED UTILITIES ARE DEPICTED AS ASCE 38-02 "QUALITY LEVEL B" FROM SURVEY CONDUCTED BY WSB UNLESS NOTED OTHERWISE.
4. ALL SERVICES ARE MODELED USING GPS SURVEYED LOCATIONS FROM SITE MARKING AS LOCATED BY WSB.
5. UTILITY INFORMATION PREPARED FOR DESIGN ONLY. ALL SERVICES MUST BE LOCATED/POTHOLED BY THE CONTRACTOR PRIOR TO EXCAVATION OR CONSTRUCTION.
6. THE INFORMATION SHOWN ON THESE PLANS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE.

SWMP NOTES

1. EROSION CONTROL SHALL FOLLOW THE GREENWOOD VILLAGE CONSTRUCTION SITE MANAGEMENT MANUAL CHAPTER 3.0 EROSION AND SEDIMENT CONTROL AND CDOT'S STANDARD PLAN NO. M-208-1 TEMPORARY EROSION CONTROL.
2. ALL MATERIALS, WORKMANSHIP AND INSTALLATION METHODS SHALL BE SUBJECT TO INSPECTION BY THE CITY'S INSPECTORS.
3. INLET PROTECTION SHALL BE PROVIDED AS SHOWN IN THE PLANS AT ALL SITE/PROJECT INLETS TO MINIMIZE CONTAMINANTS FROM LEAVING THE SITE.

STRUCTURES NOTES

1. THE FINAL FINISH FOR THE SURFACES OF THE BRIDGE RAIL TYPE 10M (SPECIAL) CURBS SHALL BE CLASS 2. ALL OTHER EXPOSED CONCRETE SURFACES SHALL RECEIVE A CLASS 1 FINAL FINISH TO ONE FOOT BELOW THE GROUND LINE.
2. ALL STEEL MEMBERS INCLUDING HANDRAIL, BRIDGE RAIL, AND GUARDRAIL SHALL BE WEATHERING STEEL.
3. ALL BOLTS SHALL BE 7/8" DIAMETER, ASTM F3125 GRADE A325 TYPE 3 HIGH STRENGTH BOLTS, UNLESS OTHERWISE NOTED.
4. ALL REINFORCING STEEL SHALL BE GRADE 60, EPOXY COATED UNLESS OTHERWISE NOTED.
5. ALL CONCRETE SHALL BE CLASS D UNLESS NOTED OTHERWISE
6. N DENOTES NON COATED REINFORCING STEEL.
7. THE FOLLOWING TABLE GIVES THE MINIMUM LAP SPLICE LENGTH FOR EPOXY COATED REINFORCING BARS PLACED IN ACCORDANCE WITH SUBSECTION 602.06. THESE SPLICE LENGTHS SHALL BE INCREASED BY 25% FOR BARS SPACED AT LESS THAN 6" ON CENTER OR LESS THAN 3" OF LATERAL COVER.

BAR SIZE	#4	#5
SPLICE LENGTH FOR CLASS D CONCRETE	2'-4"	2'-11"

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

8. THE FOLLOWING TABLE GIVES THE MINIMUM LAP SPLICE LENGTH FOR BLACK REINFORCING BARS PLACED IN ACCORDANCE WITH SUBSECTION 602.06. THESE SPLICE LENGTHS SHALL BE INCREASED BY 25% FOR BARS SPACED AT LESS THAN 6" ON CENTER OR LESS THAN 3" OF LATERAL COVER.

BAR SIZE	#4	#5
SPLICE LENGTH FOR CLASS D CONCRETE	1'-11"	2'-5"

SPLICE CRITERIA FOR CLASS D CONCRETE SHALL ALSO APPLY TO CLASS DR CONCRETE, CLASS DT CONCRETE, AND CONCRETE (PATCHING).

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION.
10. THE CONTRACTOR SHALL LIMIT MILLING OPERATIONS TO THE EXISTING ASPHALT OVERLAY ONLY. THE CONTRACTOR SHALL FIELD VERIFY EXISTING ASPHALT OVERLAY THICKNESS. UNDER NO CIRCUMSTANCE SHALL MILLING EQUIPMENT PENETRATE OR DAMAGE THE EXISTING BRIDGE DECK.
11. STATIONS, ELEVATIONS, AND DIMENSIONS CONTAINED IN THESE PLANS ARE CALCULATED FROM A RECENT FIELD SURVEY. THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.
12. THE BITUMINOUS PAVEMENT SHALL BE REMOVED FROM THE EXISTING STRUCTURE AS INDICATED ON THE PLANS AND REPLACED TO THE GRADE AND CROSS SLOPE OF THE EXISTING ROADWAY.
13. ALL LONGITUDINAL AND TRANSVERSE DIMENSIONS ARE MEASURED HORIZONTALLY AND INCLUDE NO CORRECTION FOR GRADE.
14. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 (1-800-922-1987) AT LEAST 3 DAYS (2 DAYS NOT INCLUDING THE DAY OF NOTIFICATION) PRIOR TO ANY EXCAVATION OR OTHER EARTHWORK.

ROW, FENCE, AND UTILITY LEGEND

	Existing Fence
	Existing ROW
	Electric Quality Level B
	Communication Quality Level B
	Gas Quality Level B
	Sanitary Sewer Quality Level B



SCALE: DESIGN BY: KSJ

PLAN BY: KSJ CHECK BY: RT

REVISIONS

NO.	DATE	DESCRIPTION



2024 BRIDGE RAIL REPLACEMENTS
CITY OF GREENWOOD VILLAGE, CO

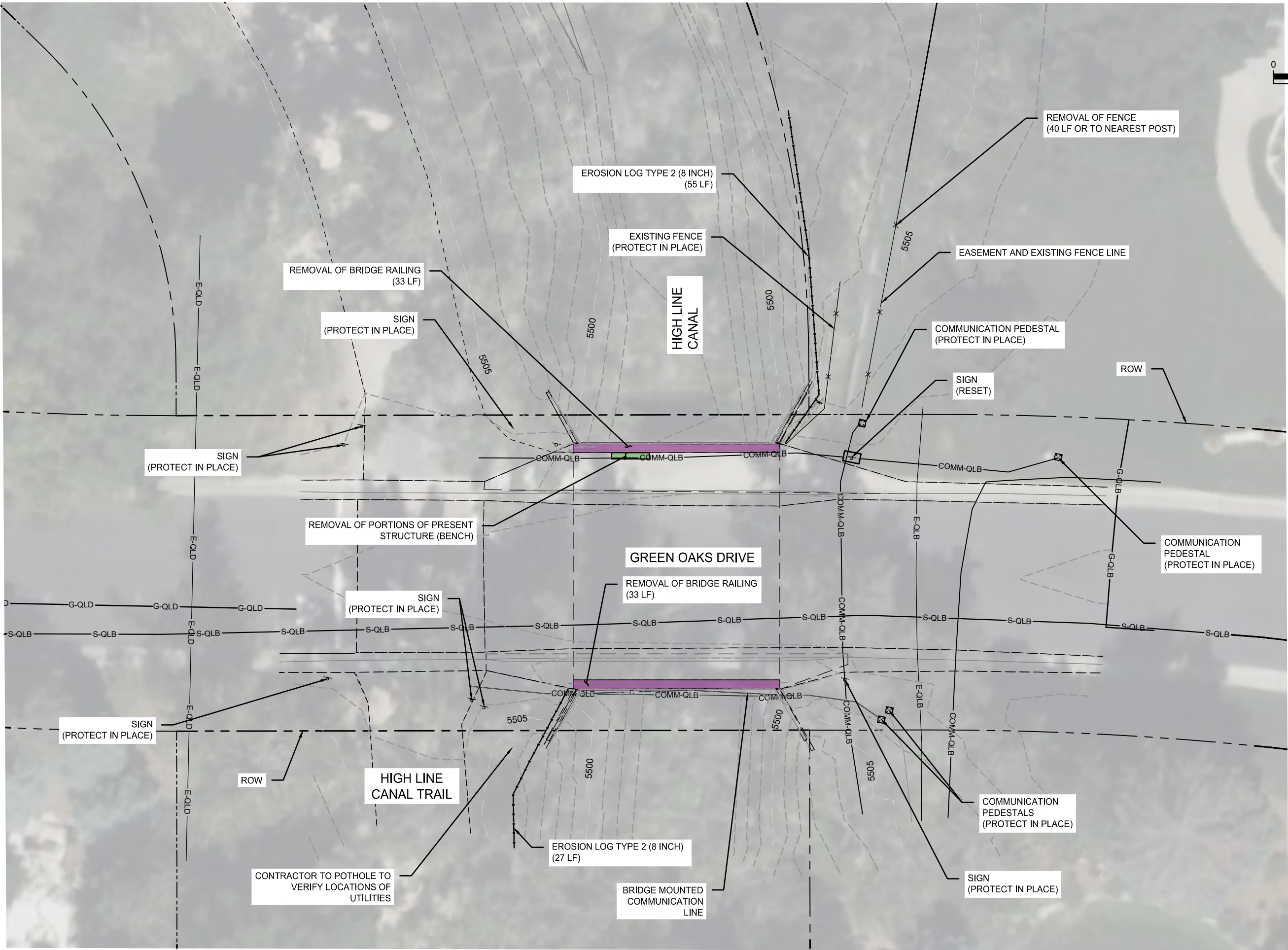
CLIENT PROJECT NO.
91050

WSB PROJECT NO.
028318-000

GENERAL NOTES

SHEET
04 OF 20

100% PLANS - NOT FOR CONSTRUCTION



REMOVAL PLAN



SCALE: DESIGN BY: KSJ

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REVISIONS	
NO.	DESCRIPTION



2024 BRIDGE RAIL REPLACEMENTS
CITY OF GREENWOOD VILLAGE, CO

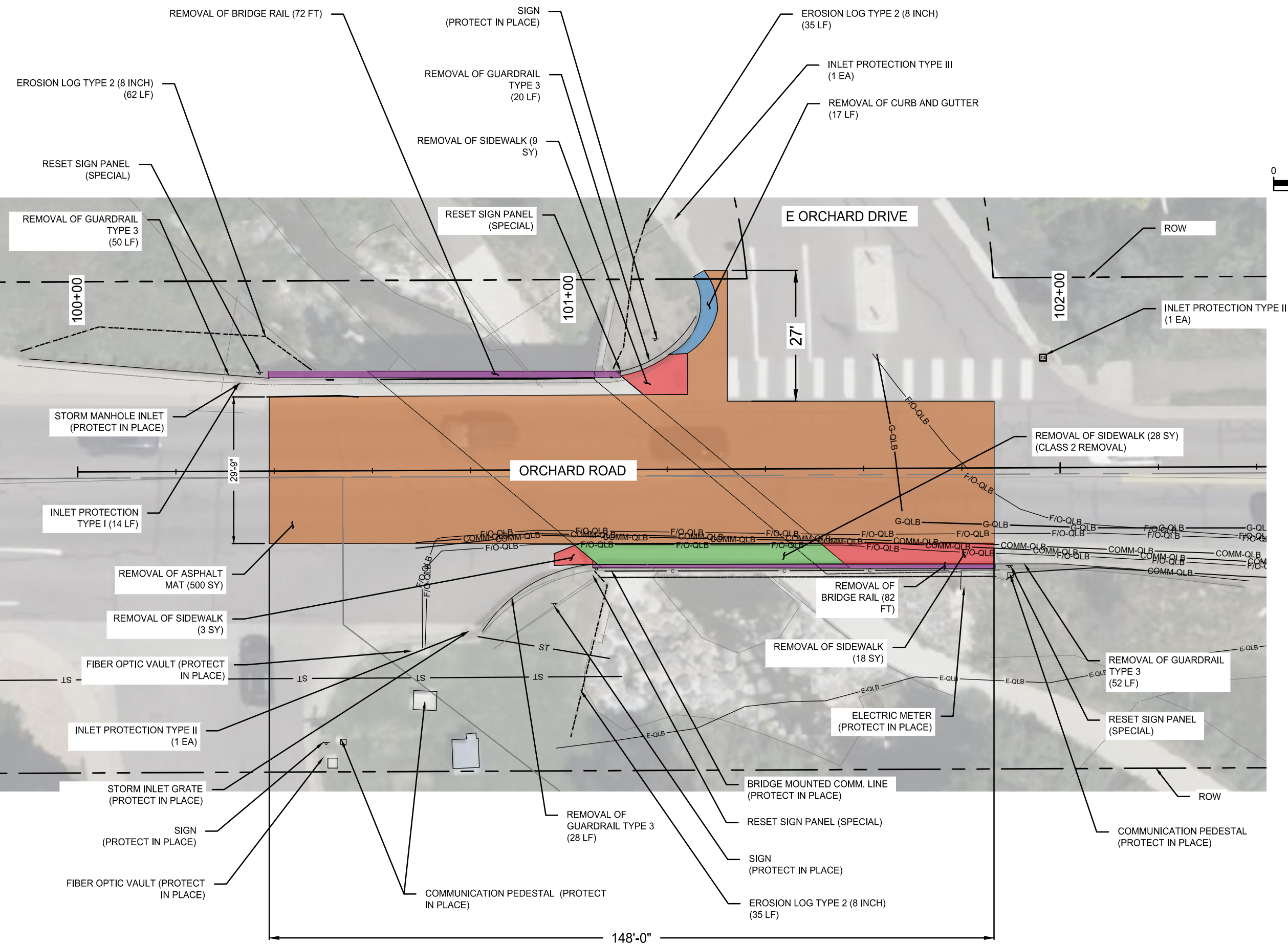
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91050

WSB PROJECT NO.
028318-000

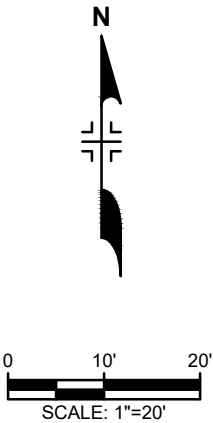
REMOVALS
GREEN OAKS DRIVE OVER
HIGH LINE CANAL

SHEET
05 OF 20

100% PLANS - NOT FOR CONSTRUCTION



REMOVAL PLAN



SCALE: DESIGN BY: KSJ

PLAN BY: KSJ CHECK BY: RT

REVISIONS	
NO.	DESCRIPTION

2024 BRIDGE RAIL REPLACEMENTS
CITY OF GREENWOOD VILLAGE, CO

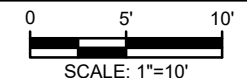
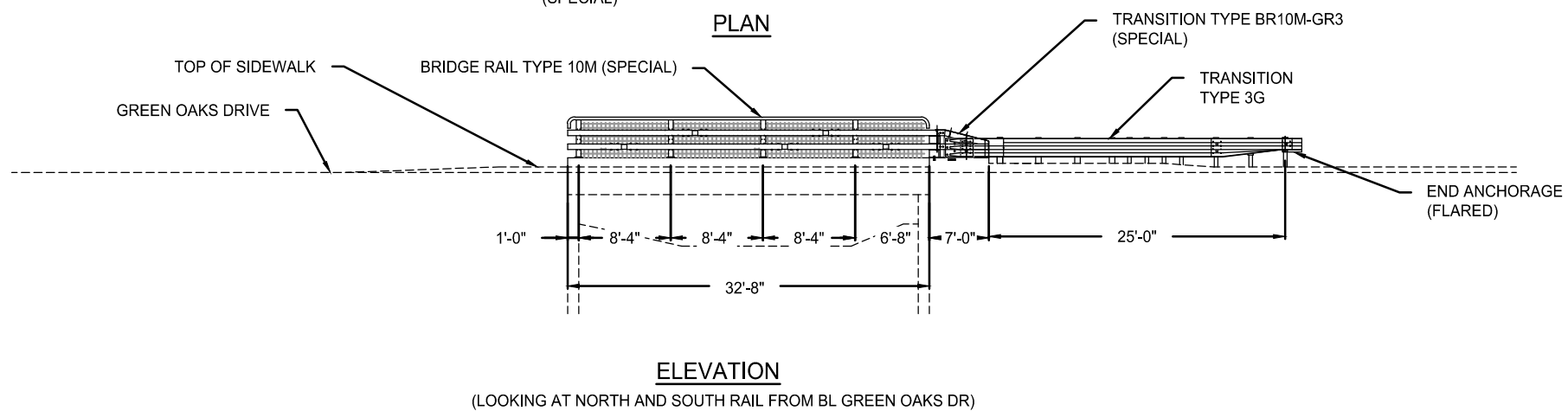
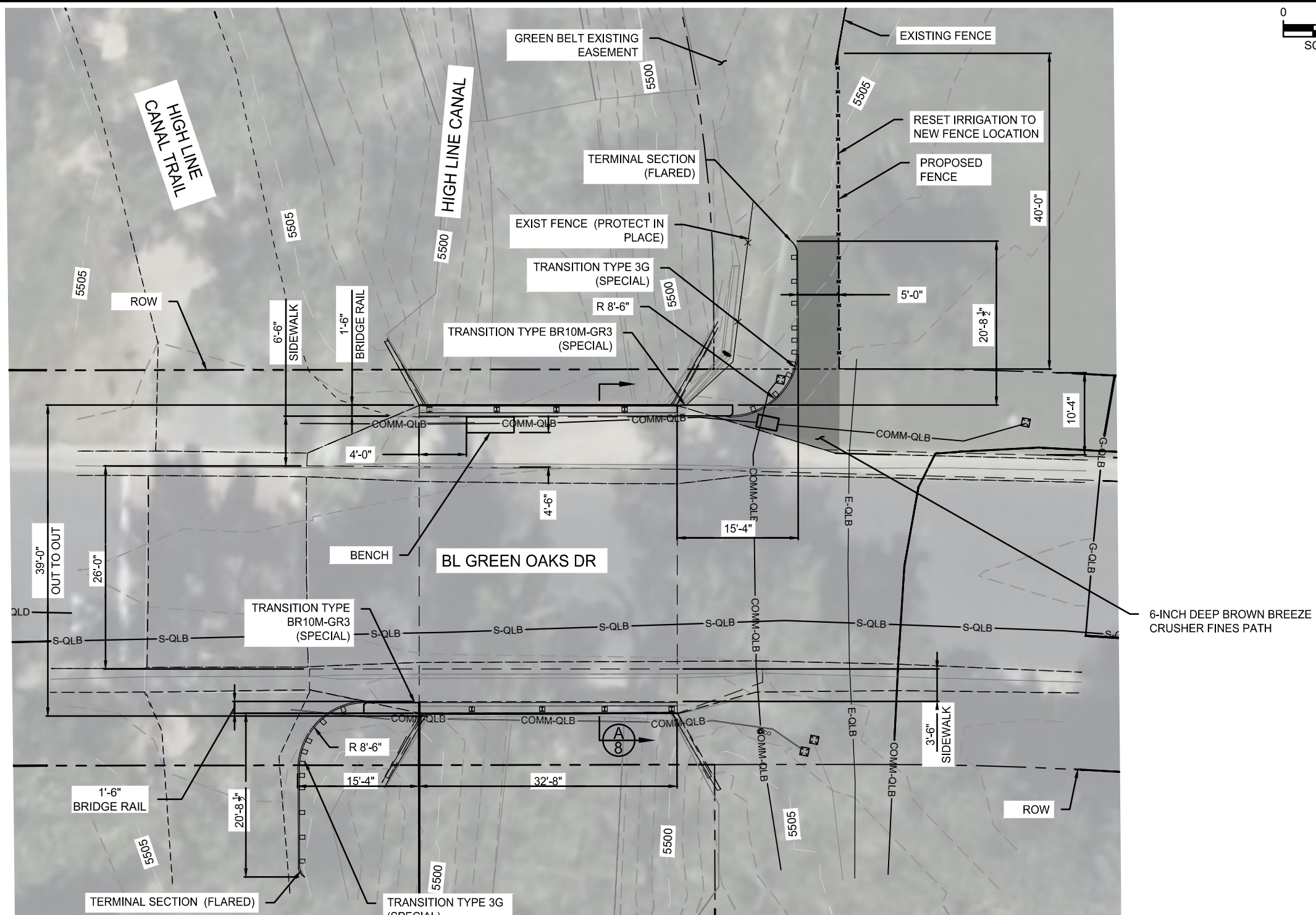
CLIENT PROJECT NO.
91050

WSB PROJECT NO.
028318-000

REMOVALS
E ORCHARD ROAD OVER
GREENWOOD GULCH

SHEET
06 OF 20

100% PLANS - NOT FOR CONSTRUCTION



SCALE: DESIGN BY: KSJ

PLAN BY: KSJ CHECK BY: RT

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2024 BRIDGE RAIL REPLACEMENTS
CITY OF GREENWOOD VILLAGE, CO

CLIENT PROJECT NO.
91050

WSB PROJECT NO.
028318-000

GENERAL LAYOUT
GREEN OAKS DRIVE OVER
HIGH LINE CANAL

SHEET

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100% PLANS - NOT FOR CONSTRUCTION

REVISIONS	
NO.	DESCRIPTION



2024 BRIDGE RAIL REPLACEMENTS
CITY OF GREENWOOD VILLAGE, CO

CLIENT PROJECT NO.
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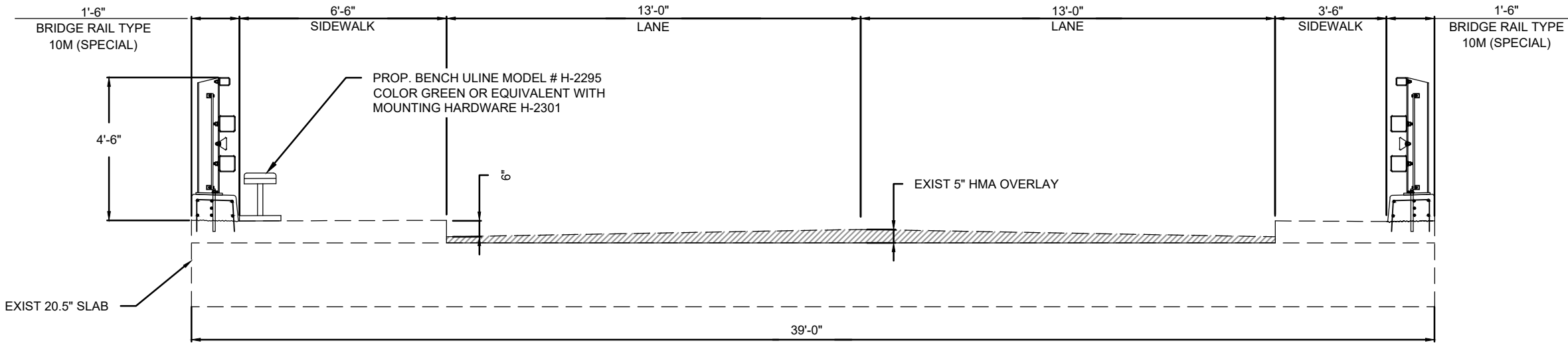
WSB PROJECT NO.
028318-000

TYPICAL SECTION
GREEN OAKS DR

SHEET

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100% PLANS - NOT FOR CONSTRUCTION



TYPICAL SECTION
(LOOKING EAST ALONG CL ROADWAY)

SECTION A

NOTE:

ALL DIMENSIONS ARE BASED ON RECENT SURVEY AND LATEST STRUCTURE INSPECTION REPORT. CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO COMMENCING WORK.

THE MANUFACTURER'S EQUIPMENT INSTALLATION INSTRUCTIONS AS WELL AS ENGINEER APPROVED MEANS AND METHODS MUST BE FOLLOWED TO MOUNT THE PROPOSED BENCH TO THE EXISTING SIDEWALK.

REVISIONS	
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2024 BRIDGE RAIL REPLACEMENTS
CITY OF GREENWOOD VILLAGE, CO

CLIENT PROJECT NO.
91050

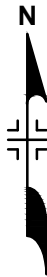
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028318-000

GENERAL LAYOUT
E ORCHARD ROAD OVER
GREENWOOD GULCH
(SHEET NO 1 OF 2)

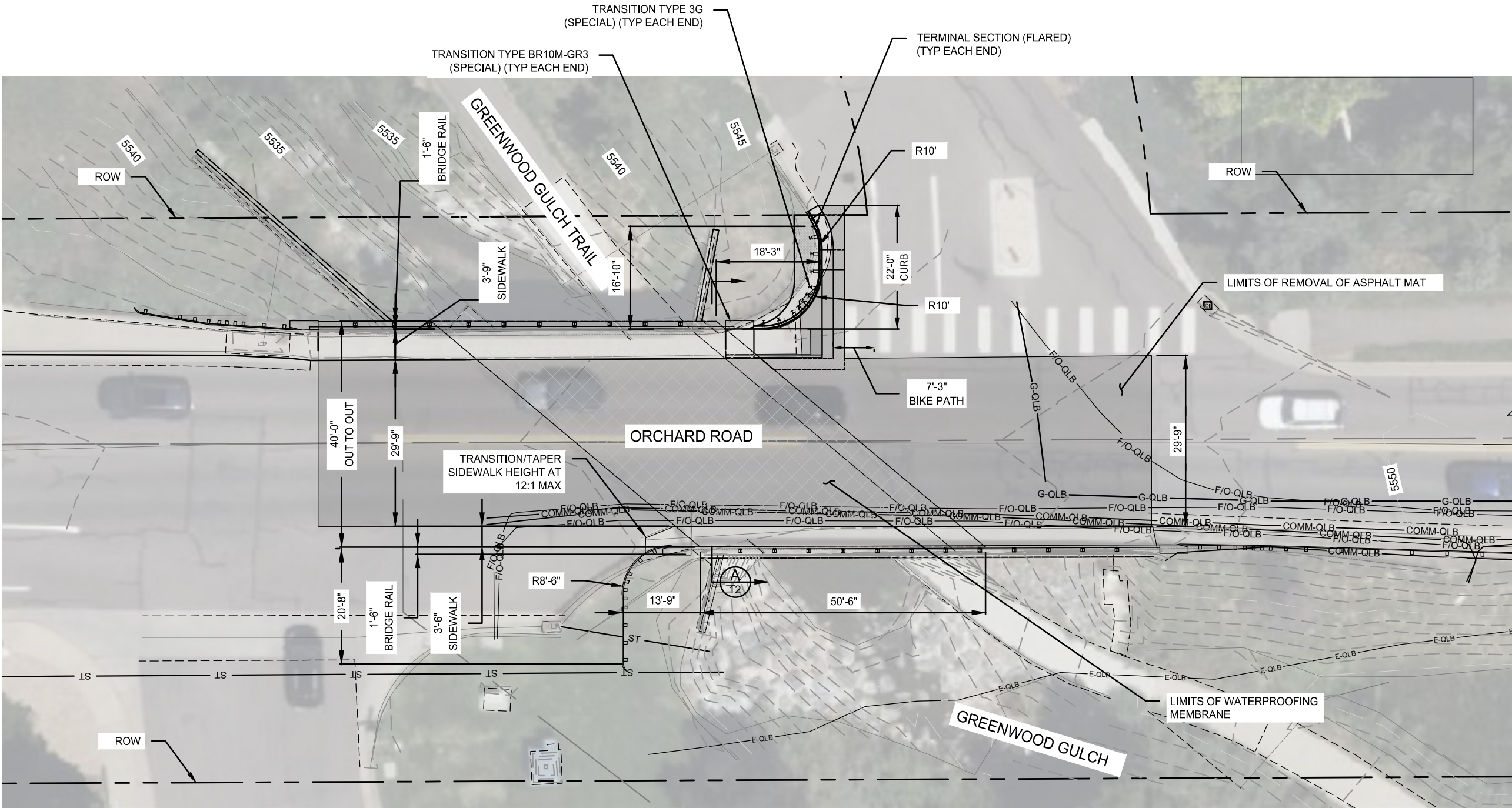
SHEET

09 OF 20

100% PLANS - NOT FOR CONSTRUCTION



MATCHLINE - STA 102+90.60
SEE SHEET 11



PLAN



SCALE: DESIGN BY: KSJ
PLAN BY: KSJ CHECK BY: RT

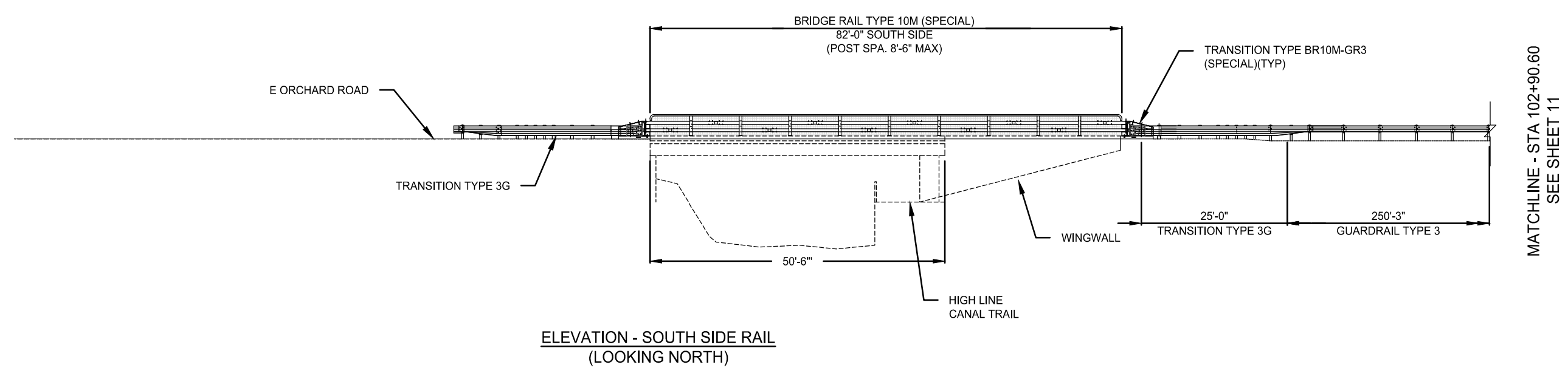
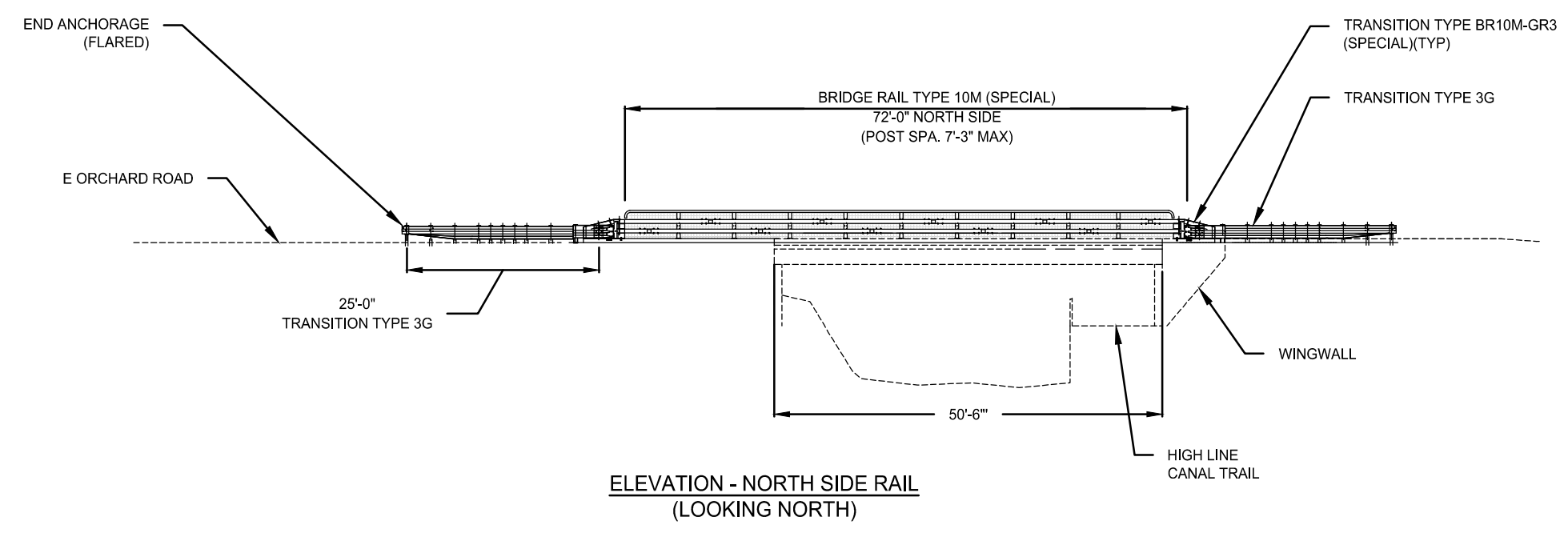
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NO.	DESCRIPTION



2024 BRIDGE RAIL REPLACEMENTS
CITY OF GREENWOOD VILLAGE, CO

CLIENT PROJECT NO.
91050
WSB PROJECT NO.
028318-000
GENERAL LAYOUT
E ORCHARD ROAD OVER
GREENWOOD GULCH
(SHEET NO. 1 OF 2)
SHEET
10 OF 20

100% PLANS - NOT FOR CONSTRUCTION



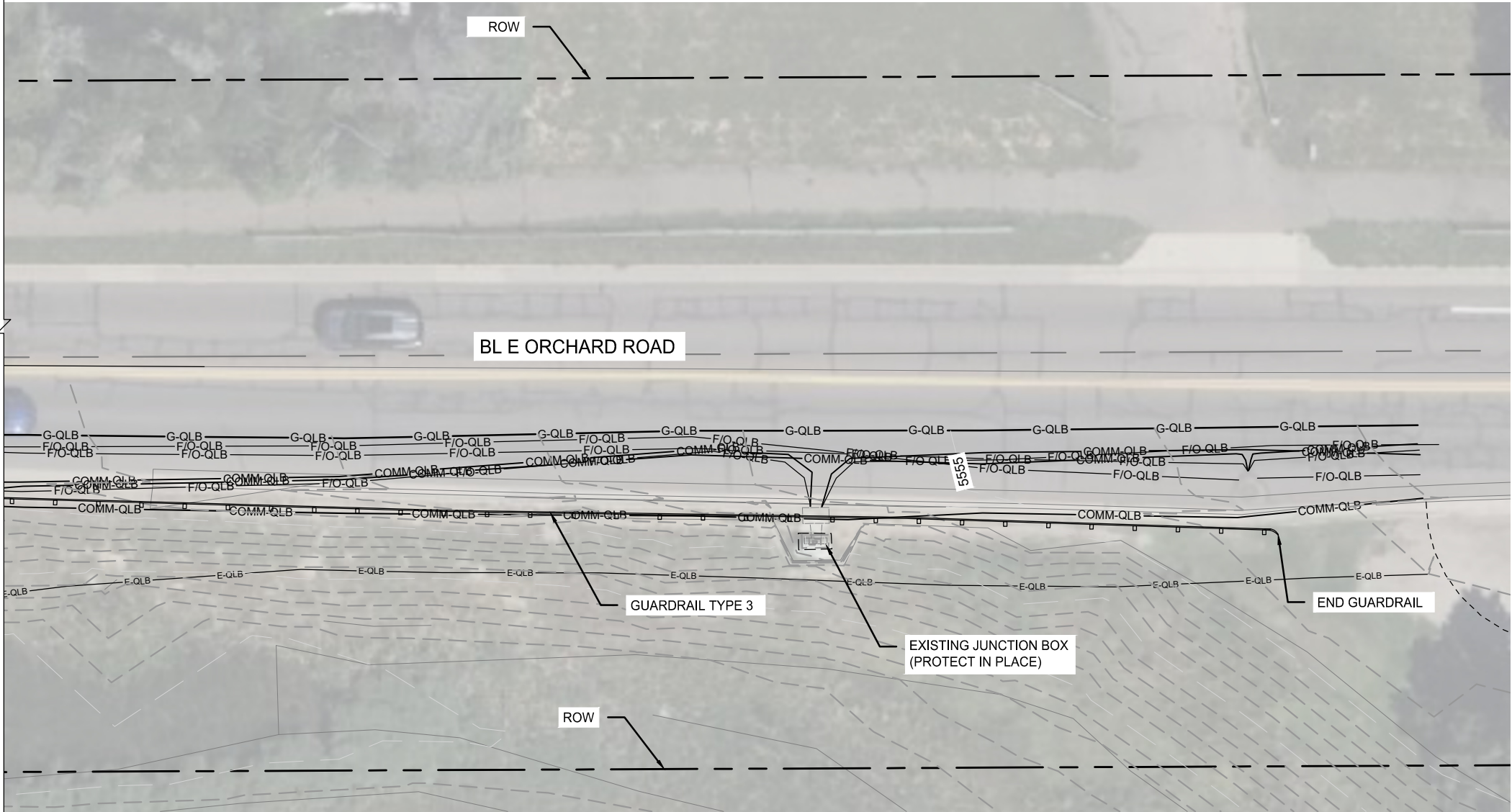
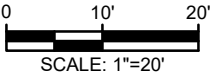
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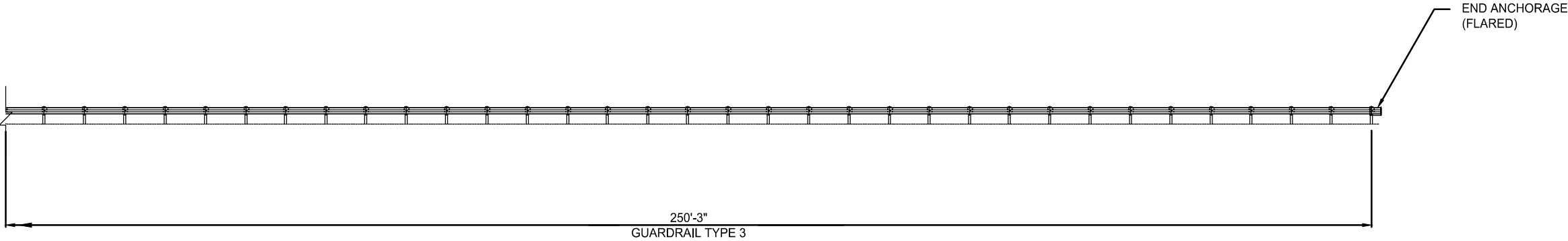
2024 BRIDGE RAIL REPLACEMENTS
CITY OF GREENWOOD VILLAGE, CO

CLIENT PROJECT NO.	91050
WSB PROJECT NO.	028318-000
GENERAL LAYOUT E ORCHARD ROAD OVER GREENWOOD GULCH (SHEET NO 2 OF 2)	

SHEET



PLAN



ELEVATION - SOUTH SIDE RAIL
(LOOKING NORTH)

MATCHLINE - STA 102+90.60
SEE SHEET 9

MATCHLINE - STA 102+90.60
SEE SHEET 10

REVISIONS

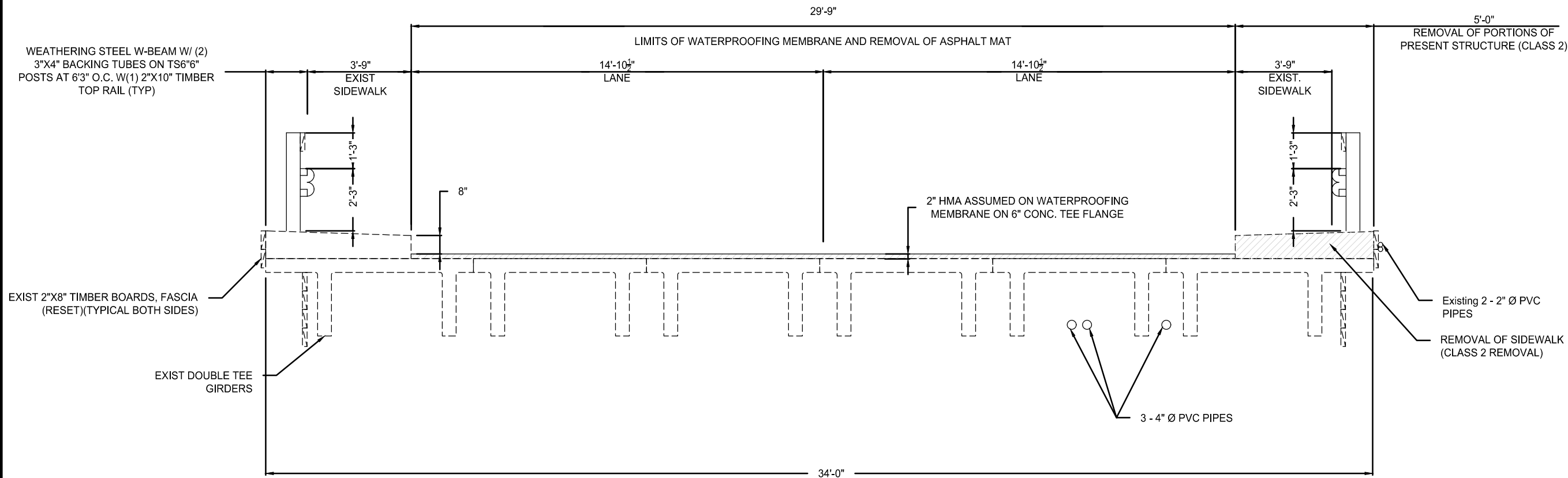
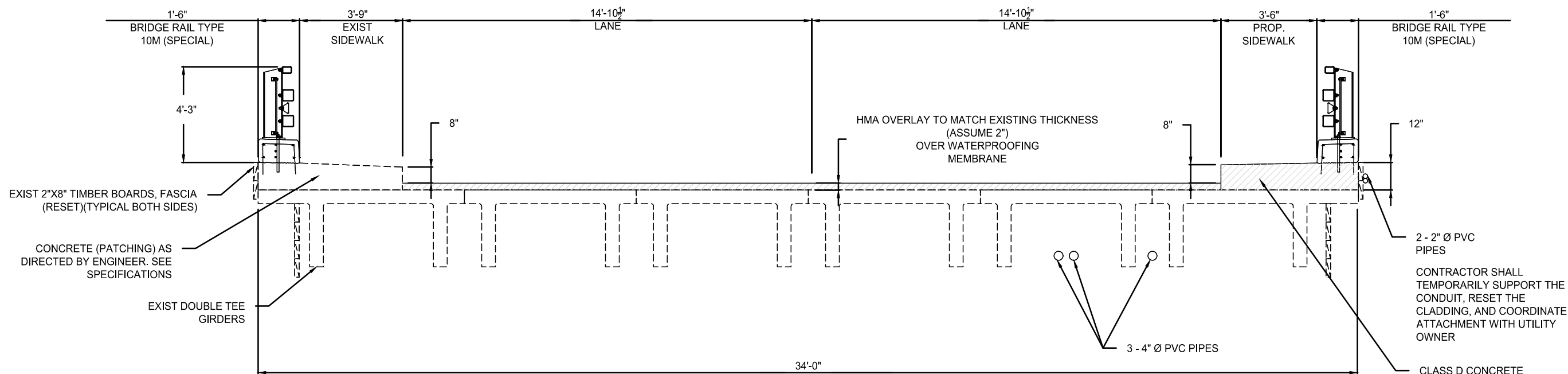
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2024 BRIDGE RAIL REPLACEMENTS
CITY OF GREENWOOD VILLAGE, COCLIENT PROJECT NO.
91050WSB PROJECT NO.
028318-000TYPICAL SECTION
ORCHARD RD

SHEET

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100% PLANS - NOT FOR CONSTRUCTION

EXISTING TYPICAL SECTION
(LOOKING EAST)SECTION $\textcircled{A}$ PROPOSED TYPICAL SECTION
(LOOKING EAST)SECTION $\textcircled{A}$

REVISIONS

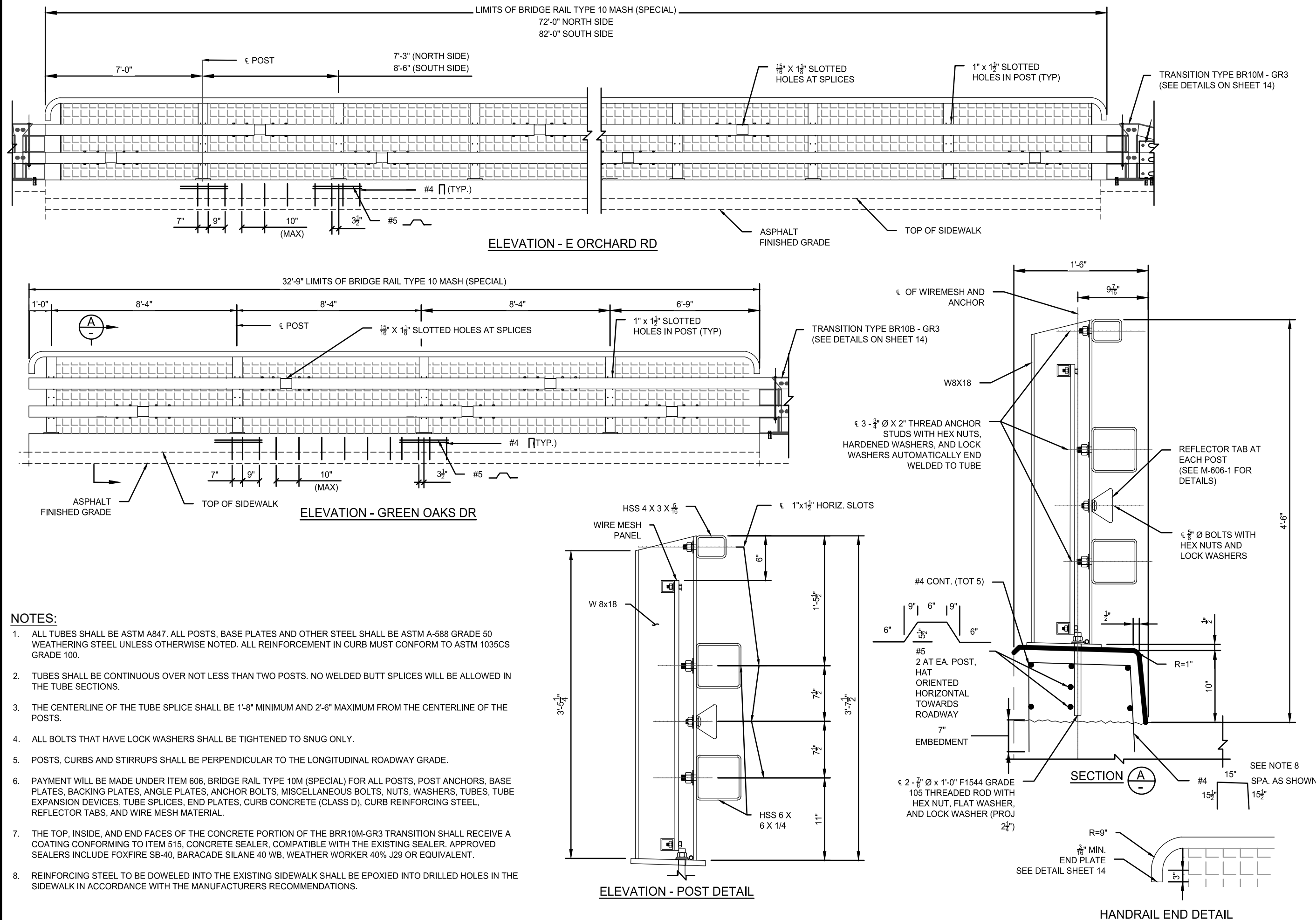
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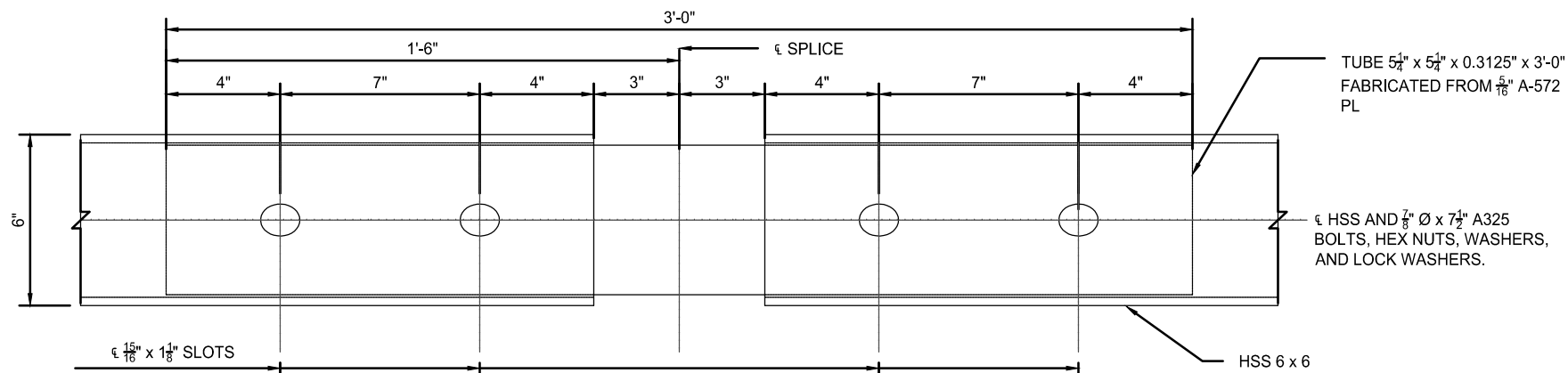
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CITY OF GREENWOOD VILLAGE, COCLIENT PROJECT NO.
91050WSB PROJECT NO.
028318-000RAIL DETAILS
(SHEET NO 1 OF 6)

SHEET

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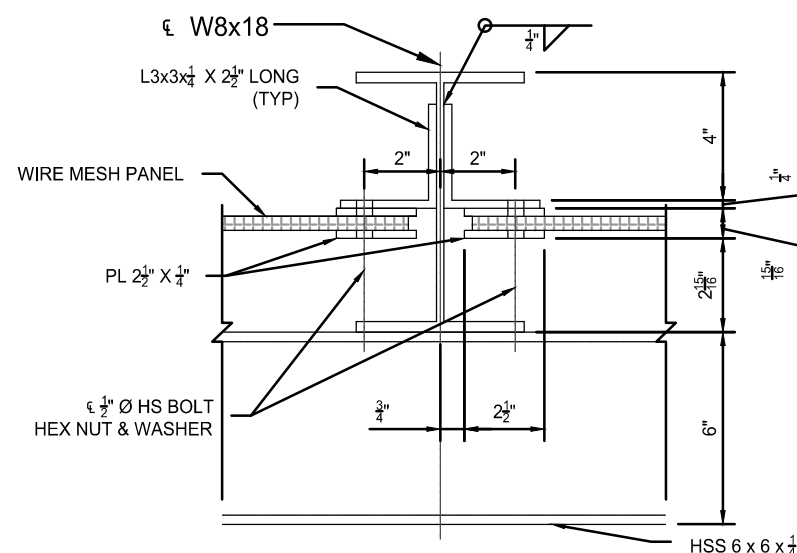
100% PLANS - NOT FOR CONSTRUCTION



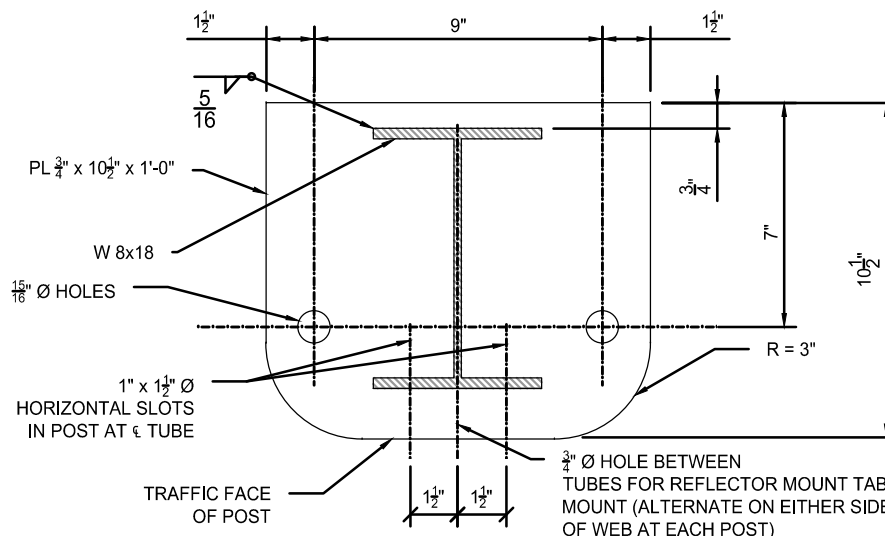


AT TUBE SPLICE. SLOT BOTH INNER AND OUTER TUBES. STAGGER TOP AND BOTTOM SPLICES INTO DIFFERENT POST SPACINGS.

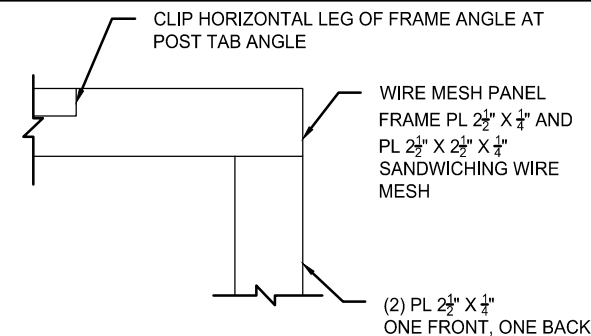
PLAN - TUBE SPLICE
(PROVIDE SIMILAR SPLICE FOR 4x3 TOP TUBE.)



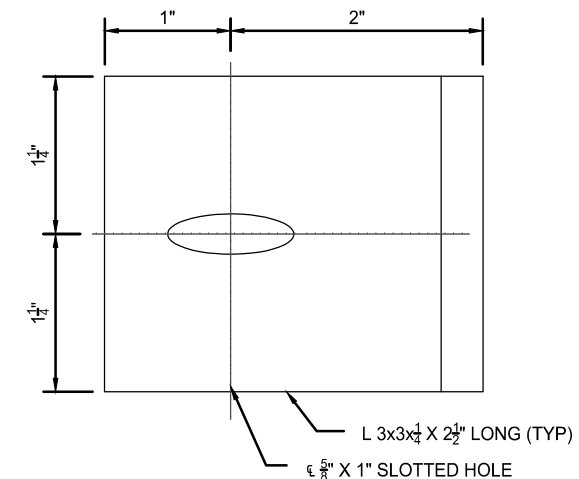
WIRE MESH CONNECTION DETAIL



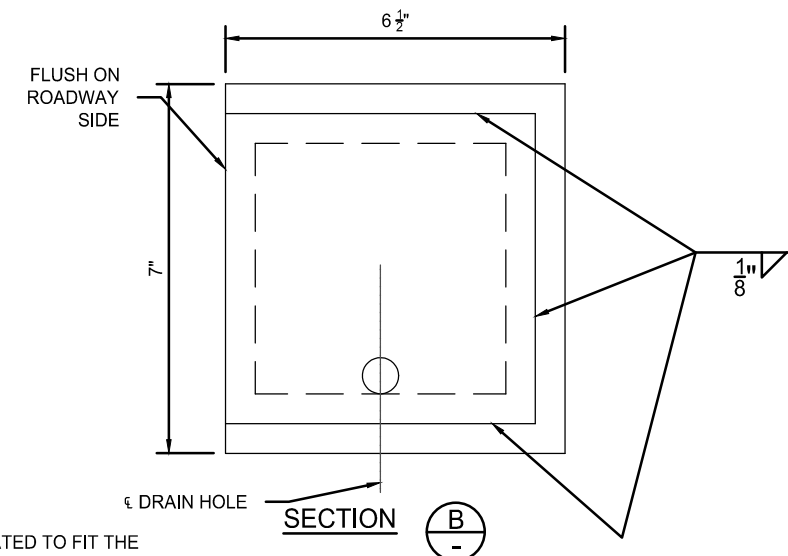
PLAN - POST DETAIL



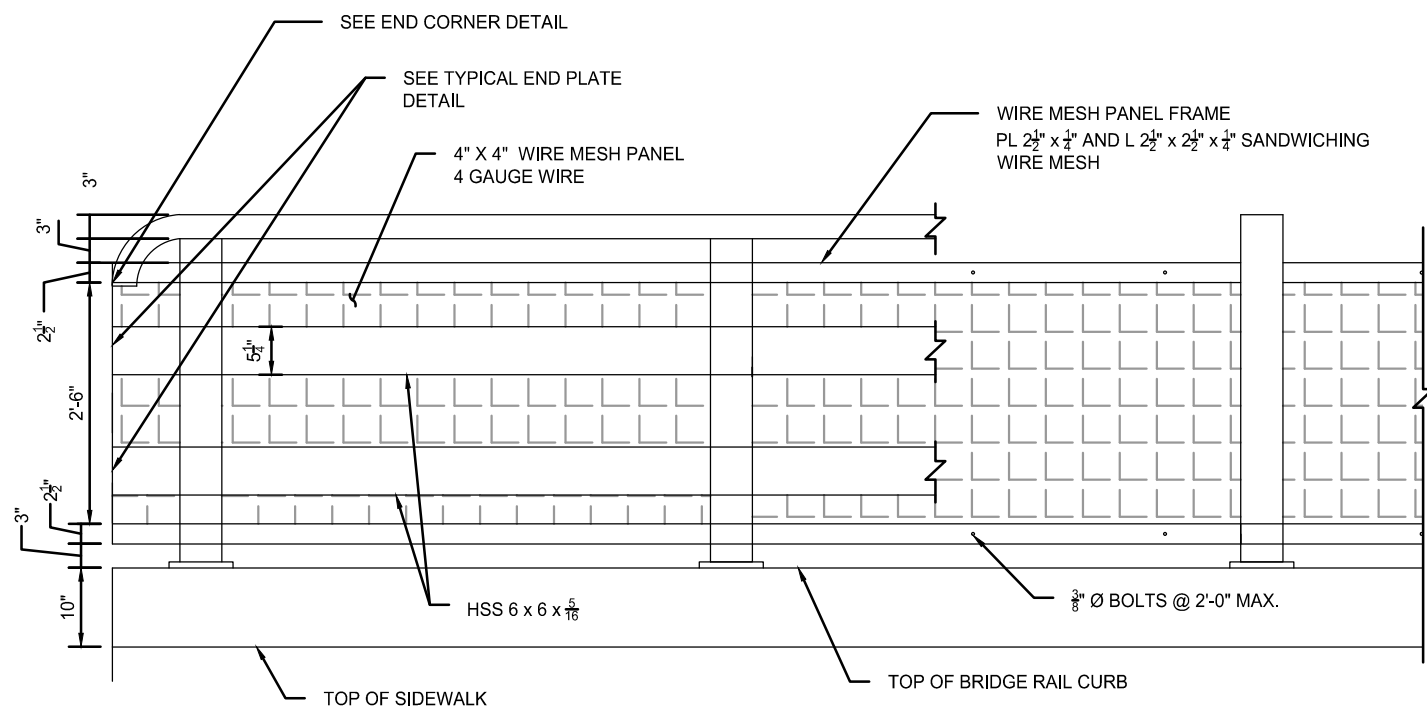
FRAME CORNER DETAIL



ANGLE DETAIL



TYPICAL END PLATE DETAIL



ELEVATION

NOTES:

1. THE PEDESTRIAN RAILING PANELS SHALL BE FABRICATED TO FIT THE GRADE OF THE BRIDGE DECK. VERTICAL MEMBERS OF THE PANEL SHALL BE PERPENDICULAR TO THE LONGITUDINAL ROADWAY GRADE; HORIZONTAL MEMBERS SHALL BE PARALLEL TO THE ROADWAY GRADE.
2. STRUCTURAL STEEL:
BARS: ASTM A-709 GRADE 50W
BOLTS: ASTM F3125 GRADE A325 TYPE 3 WEATHERING STEEL
3. WIRE MESH SHALL CONFORM TO 4" x 4" MESH (3.7750" x 3.7750" OPENING), WIRE 0.255" Ø (4 GAUGE), CARBON STEEL, COLD ROLLED, WELDED TRIMMED, THEN PAINTED (FEDERAL STANDARD 10055). McNICHOLS WIRE MESH ITEM 3604240000 OR APPROVED EQUAL, THEN PAINTED.
4. UNLESS SHOWN OTHERWISE, ALL WELDED CONNECTIONS SHALL BE SEAL WELDED.
5. PRIOR TO FABRICATION OF THIS ITEM, SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
6. PAYMENT FOR PEDESTRIAN RAILING PANELS (INCLUDING BOLTS, NUTS & WASHERS) WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCIDENTAL TO THE COST OF ITEM 606 BRIDGE RAIL TYPE 10M (SPECIAL).

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2024 BRIDGE RAIL REPLACEMENTS
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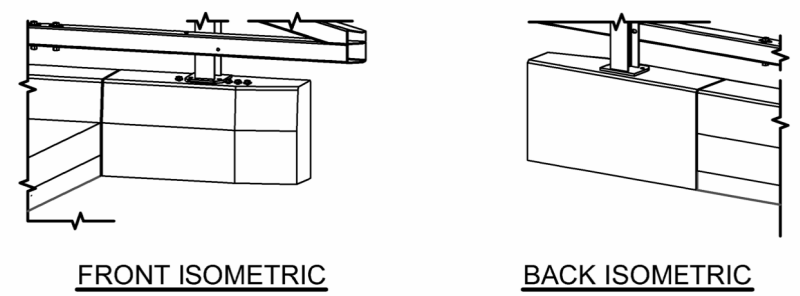
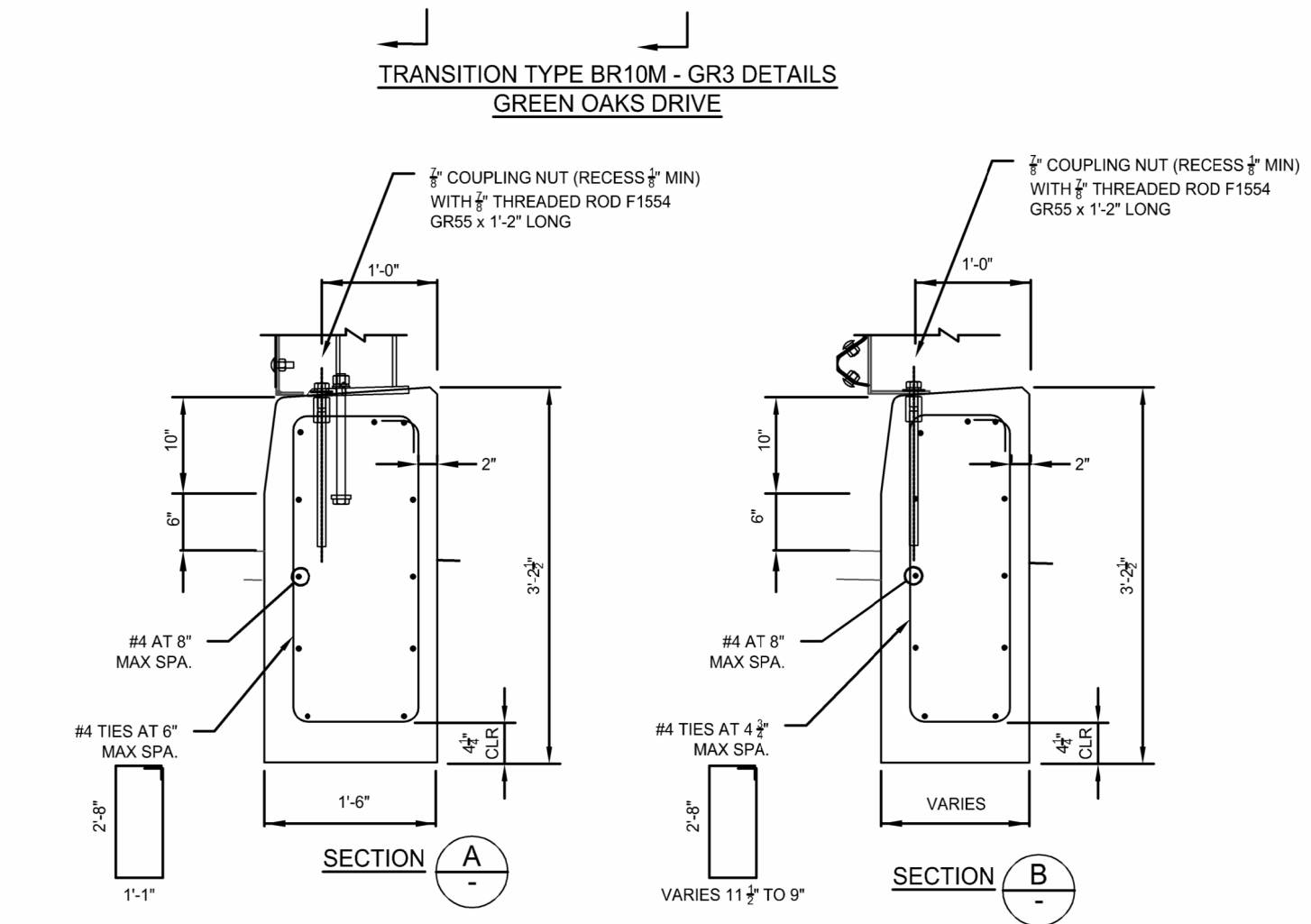
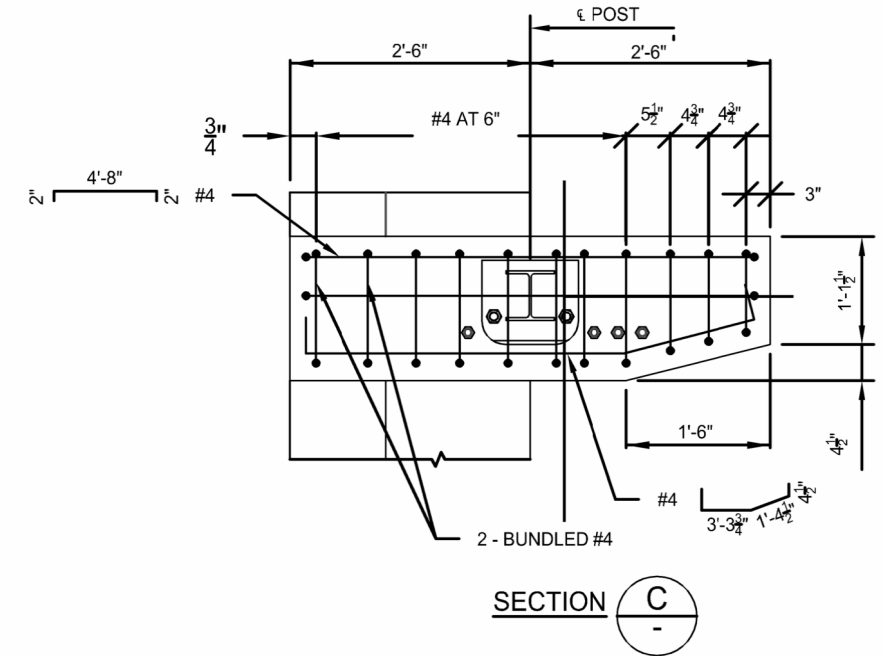
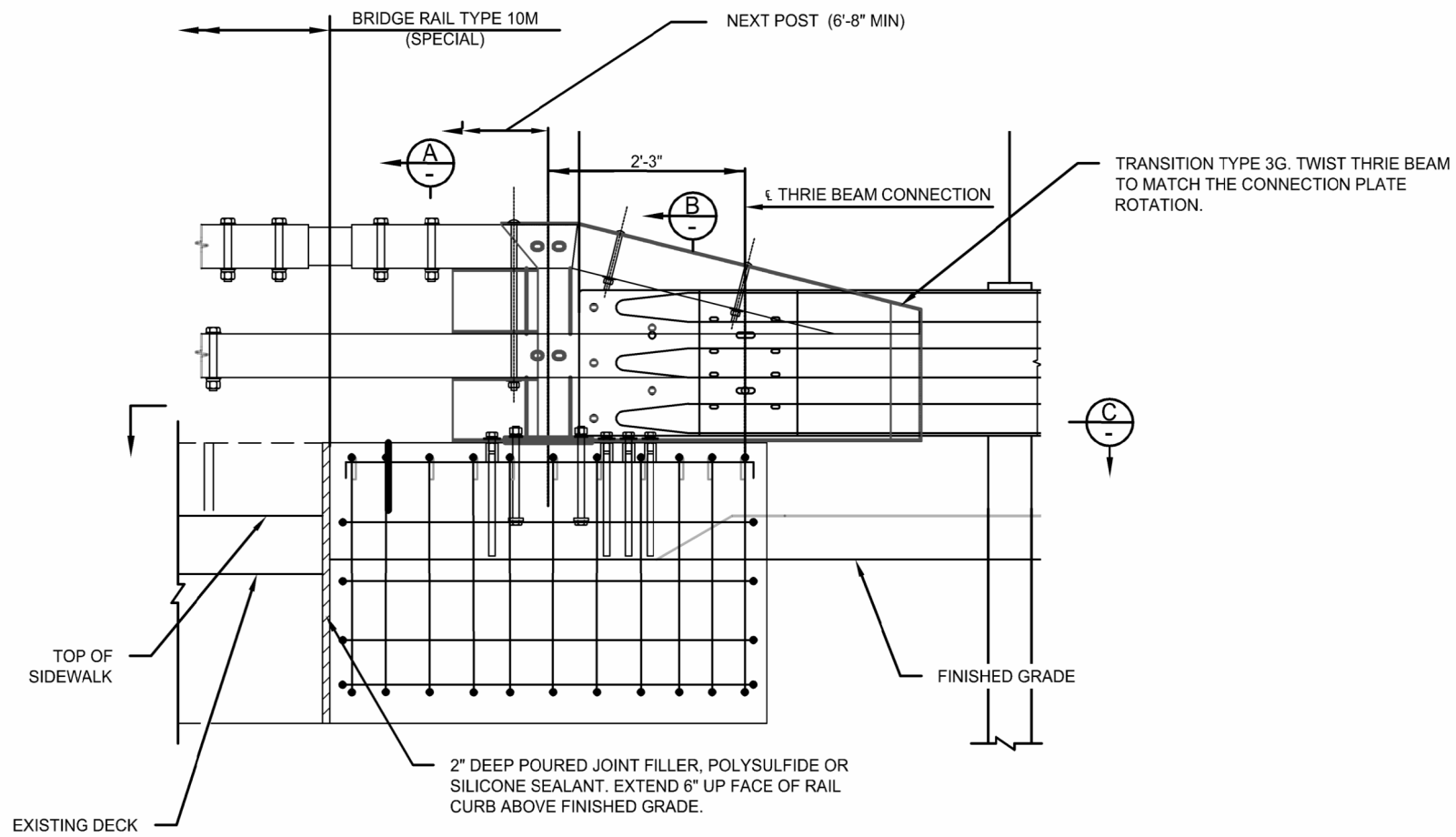
CLIENT PROJECT NO.
91050

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028318-000

RAIL DETAILS
(SHEET NO 2 OF 6)

SHEET

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- NOTES (CONTINUED ON SHEET 16):**
1. ALL TUBES SHALL BE ASTM A847. ALL POSTS, BASE PLATES, SPLICE TUBES FABRICATED BY WELDING AND ALL OTHER STEEL SHALL BE ASTM A588 GRADE 50 UNLESS OTHERWISE NOTED.
 2. THE ABOVE MATERIAL AND ALL ANCHOR BOLTS AND MISCELLANEOUS BOLTS, NUTS, AND WASHERS SHALL BE WEATHERING STEEL IN ACCORDANCE WITH SECTION 509. CONCRETE, REINFORCING STEEL, AND STRUCTURAL STEEL ELEMENTS SHALL CONFORM TO THE REQUIREMENTS OF SECTIONS 601 & 606, 602 & 509, RESPECTIVELY UNLESS OTHERWISE NOTED.
 3. ALL BOLTS THAT HAVE LOCK WASHERS SHALL BE TIGHTENED TO SNUG ONLY.
 4. THE TOP, INSIDE, AND END FACES OF THE TRANSITION SHALL RECEIVE A COATING CONFORMING TO ITEM 515, CONCRETE SEALER, COMPATIBLE WITH THE EXISTING SEALER. APPROVED SEALERS INCLUDE FOXFIRE SB-40, BARCADE SILANE 40 WB, WEATHER WORKER 40% J29 OR EQUIVALENT.
 5. PAYMENT WILL BE MADE UNDER ITEM 606, TRANSITION TYPE BR10B-GR3 FOR ALL ANCHOR BOLTS, MISCELLANEOUS BOLTS, NUTS, WASHERS, TUBES, STUDS, CONCRETE CLASS DF, REINFORCING STEEL, AND CONCRETE SEALER. EXCAVATION AND BACKFILL SHALL BE INCLUDED IN THE WORK.
 6. ALL DIMENSIONS, ELEVATIONS, AND THICKNESSES OF EXISTING STRUCTURAL COMPONENTS INCLUDING BUT NOT LIMITED TO BRIDGE DECK, APPROACH SLABS AND SUPPORTING ELEMENTS ARE BASED ON AVAILABLE DRAWINGS AND INSPECTION REPORTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS, DIMENSIONS AND THICKNESSES PRIOR TO CONSTRUCTION.

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2024 BRIDGE RAIL REPLACEMENTS
CITY OF GREENWOOD VILLAGE, CO



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91050

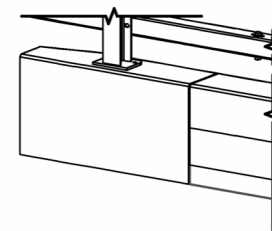
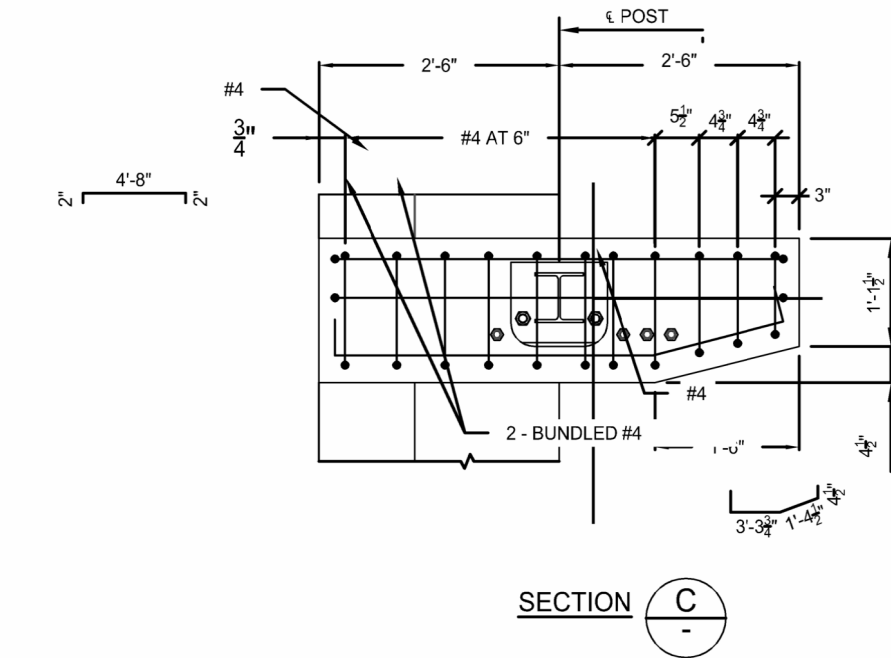
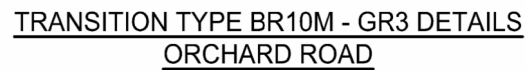
WSB PROJECT NO.
028318-000

RAIL DETAILS
(SHEET NO 4 OF 6)

SHEET 00

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100% PLANS - NOT FOR CONSTRUCTION



FRONT ISOMETRIC

BACK ISOMETRIC

NOTES (CONTD.):

7. PRIOR TO FABRICATION, SHOP DRAWINGS MUST BE SENT TO THE ENGINEER FOR APPROVAL.
8. ALL LONGITUDINAL REINFORCEMENT SHALL TERMINATE WITH STANDARD STIRRUP HOOKS AS SHOWN. ROTATE OR ADJUST REINFORCING HOOKS TO AVOID INTERFERENCES AS REQUIRED.
9. TRANSITIONS SHALL BE CONSTRUCTED TAPERING PERPENDICULAR TO BRIDGE CROSS SLOPE.(BRIDGE RAIL BEYOND COVER PLATE) TO PLUMB (3G/3H SIDE). VERTICAL DIMENSIONS ARE PERPENDICULAR TO THE LONGITUDINAL ROADWAY GRADE.
10. THE THRIE BEAM CONNECTION/POST OF TYPE 3G OR 3H SHALL BE ADJUSTED OR ROTATED TO MATCH THE TRANSITION PLATE.
11. ROTATE AND ADJUST REBAR AT BACK FACE TO AVOID INTERFERENCE.

REVISIONS

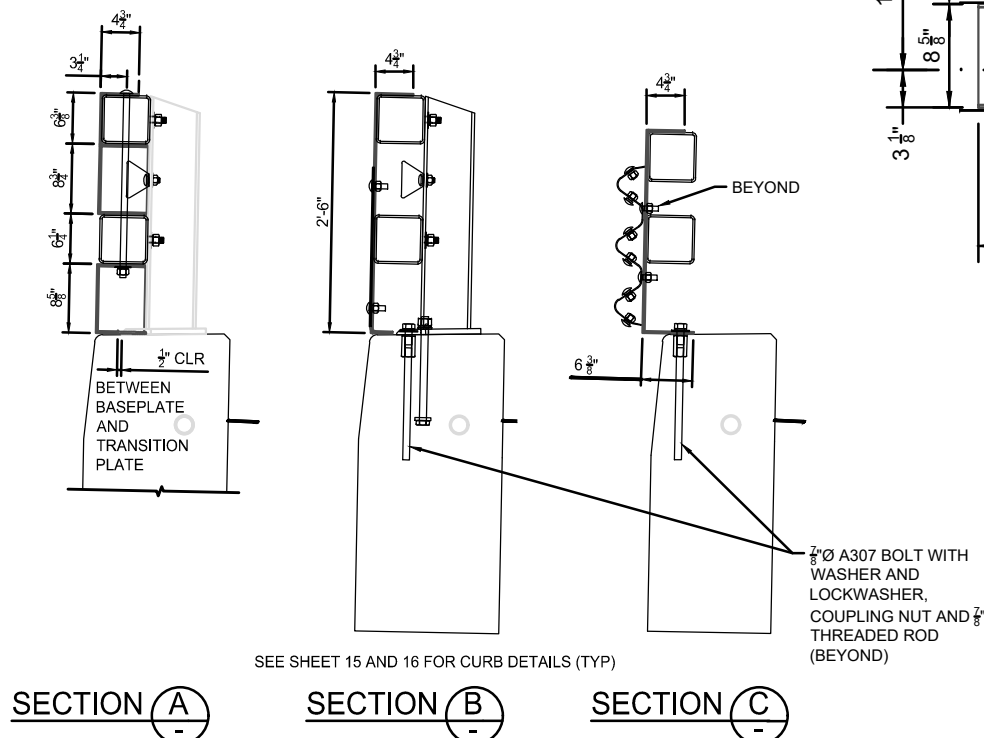
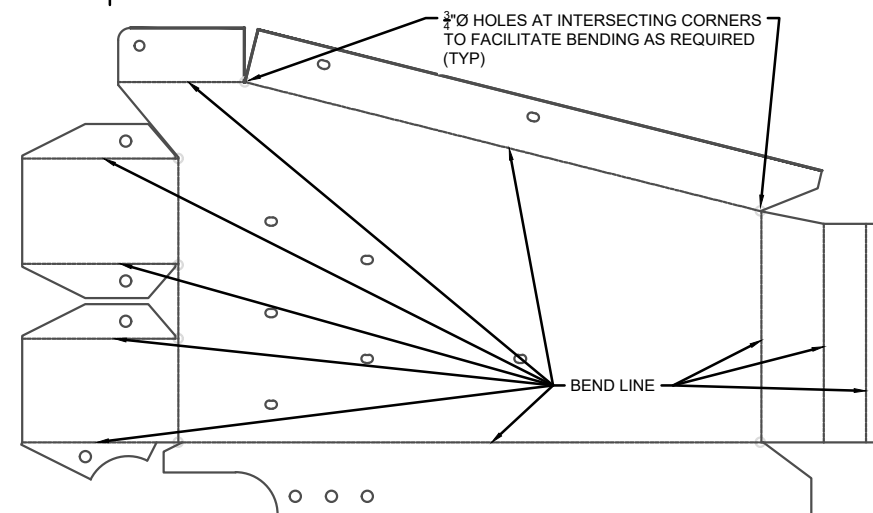
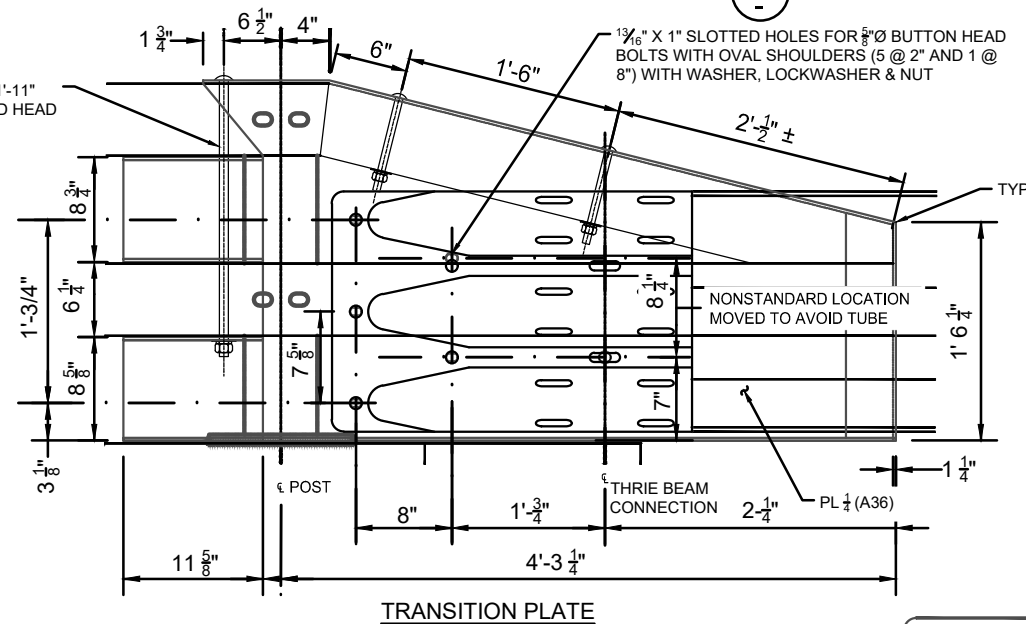
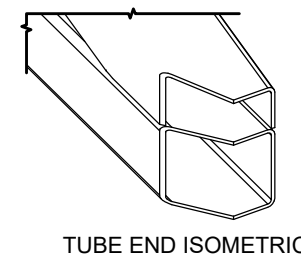
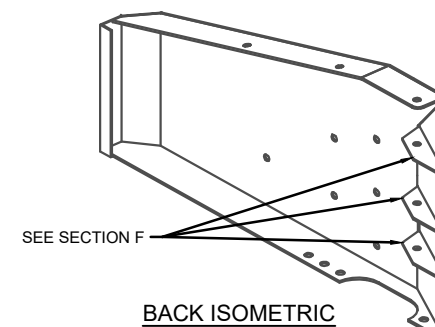
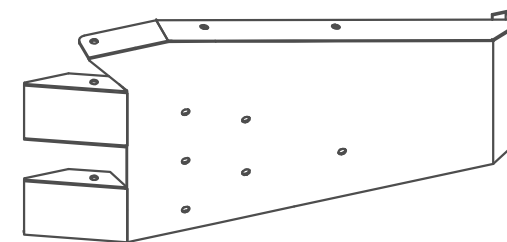
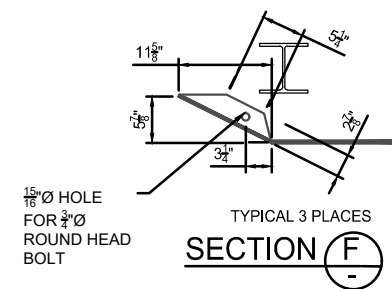
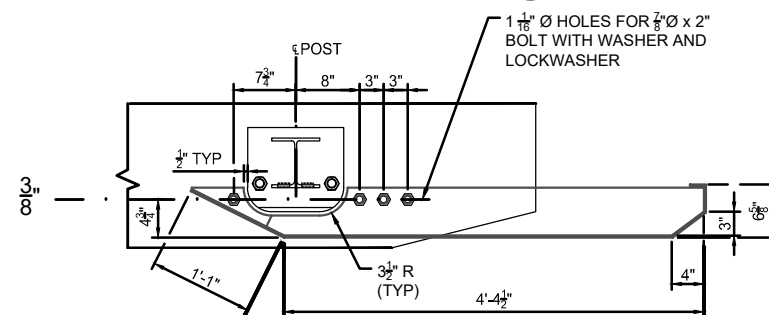
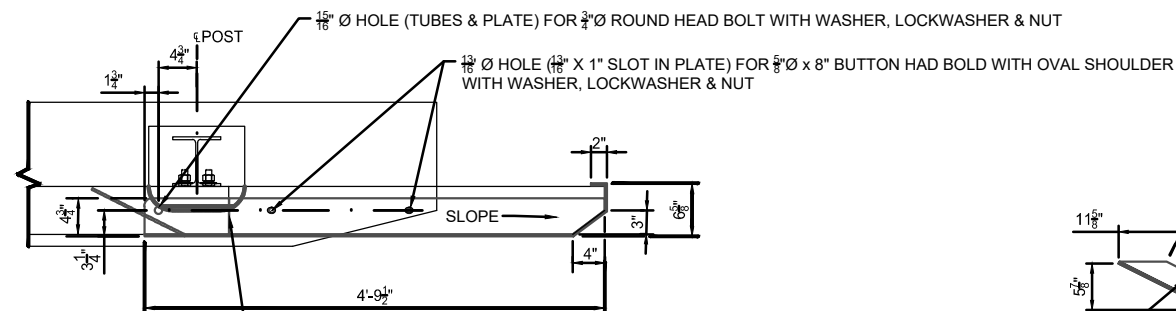
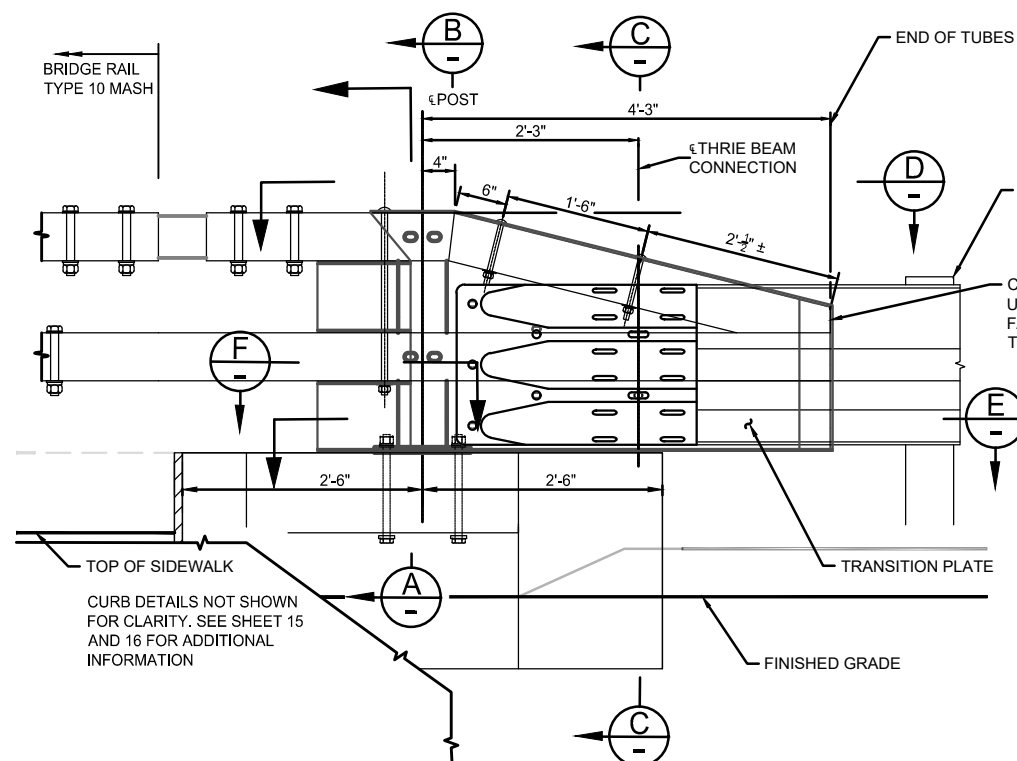
NO.	DATE	DESCRIPTION

2024 BRIDGE RAIL REPLACEMENTS
CITY OF GREENWOOD VILLAGE, COCLIENT PROJECT NO.
91050WSB PROJECT NO.
028318-000RAIL DETAILS
(SHEET NO 5 OF 6)

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100% PLANS - NOT FOR CONSTRUCTION



NOTES:

- TRANSITION PLATE MAY BE FABRICATED WITH BENT PLATES AND/OR WELDED CONSTRUCTION. ALL WELDS SHALL BE SQUARE ROOT WITH CONVEX CONTOURING.
- VERIFY LOCATION OF COVER PLATE HOLES BASED ON SUPPLIED THRIE BEAM TERMINAL SECTION (CONNECTOR).

REVISIONS

NO.

DATE

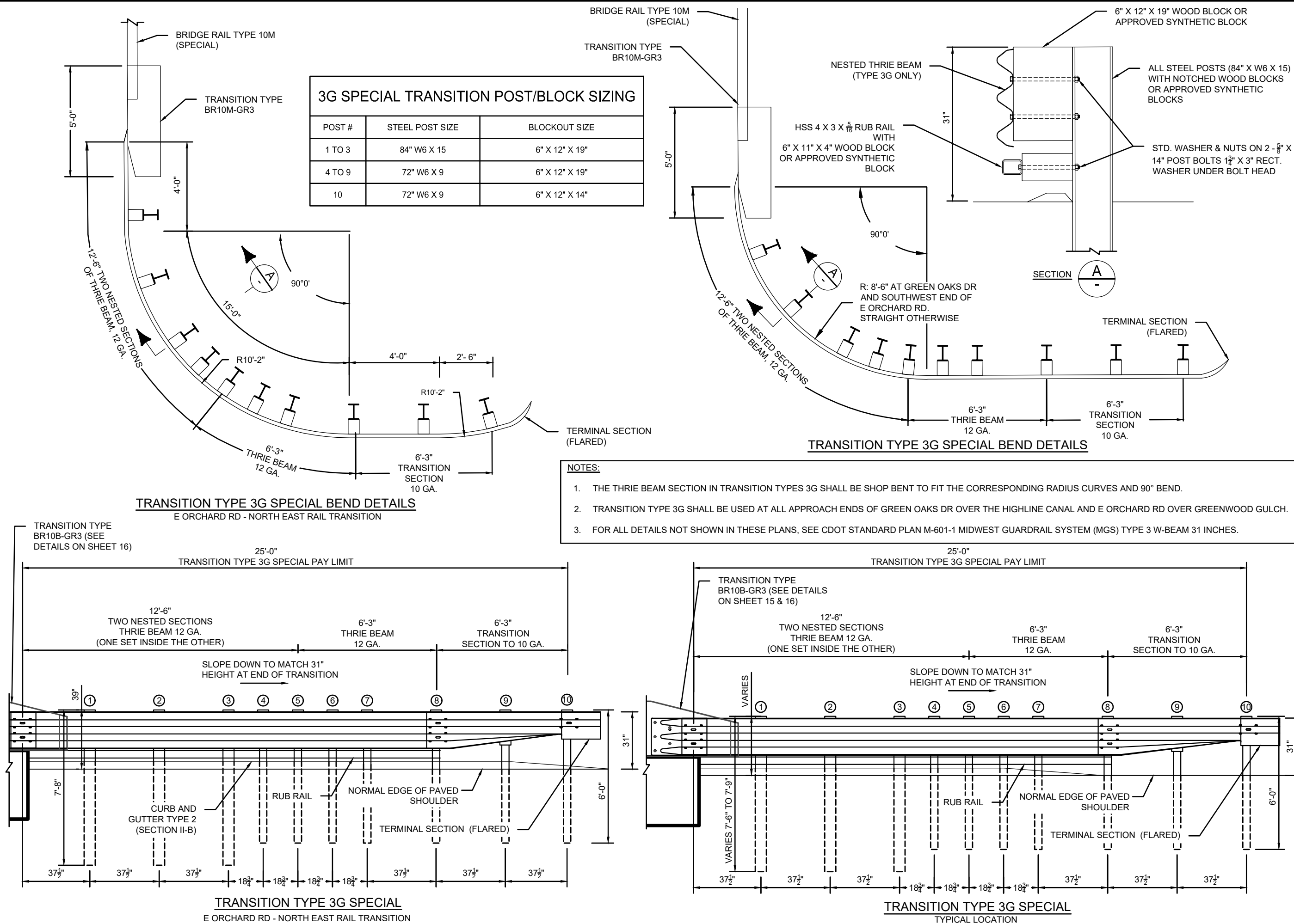
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2024 BRIDGE RAIL REPLACEMENTS
CITY OF GREENWOOD VILLAGE, COCLIENT PROJECT NO.
91050WSB PROJECT NO.
028318-000RAIL DETAILS
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2024 BRIDGE RAIL REPLACEMENTS
CITY OF GREENWOOD VILLAGE, CO

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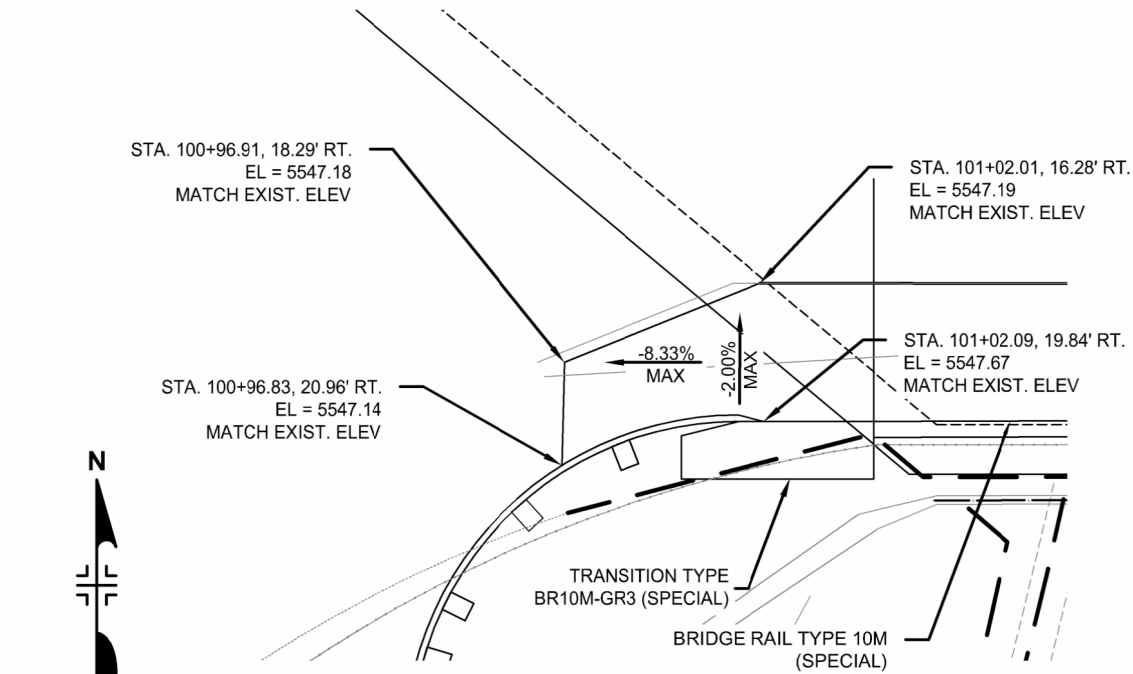
WSB PROJECT NO.
028318-000

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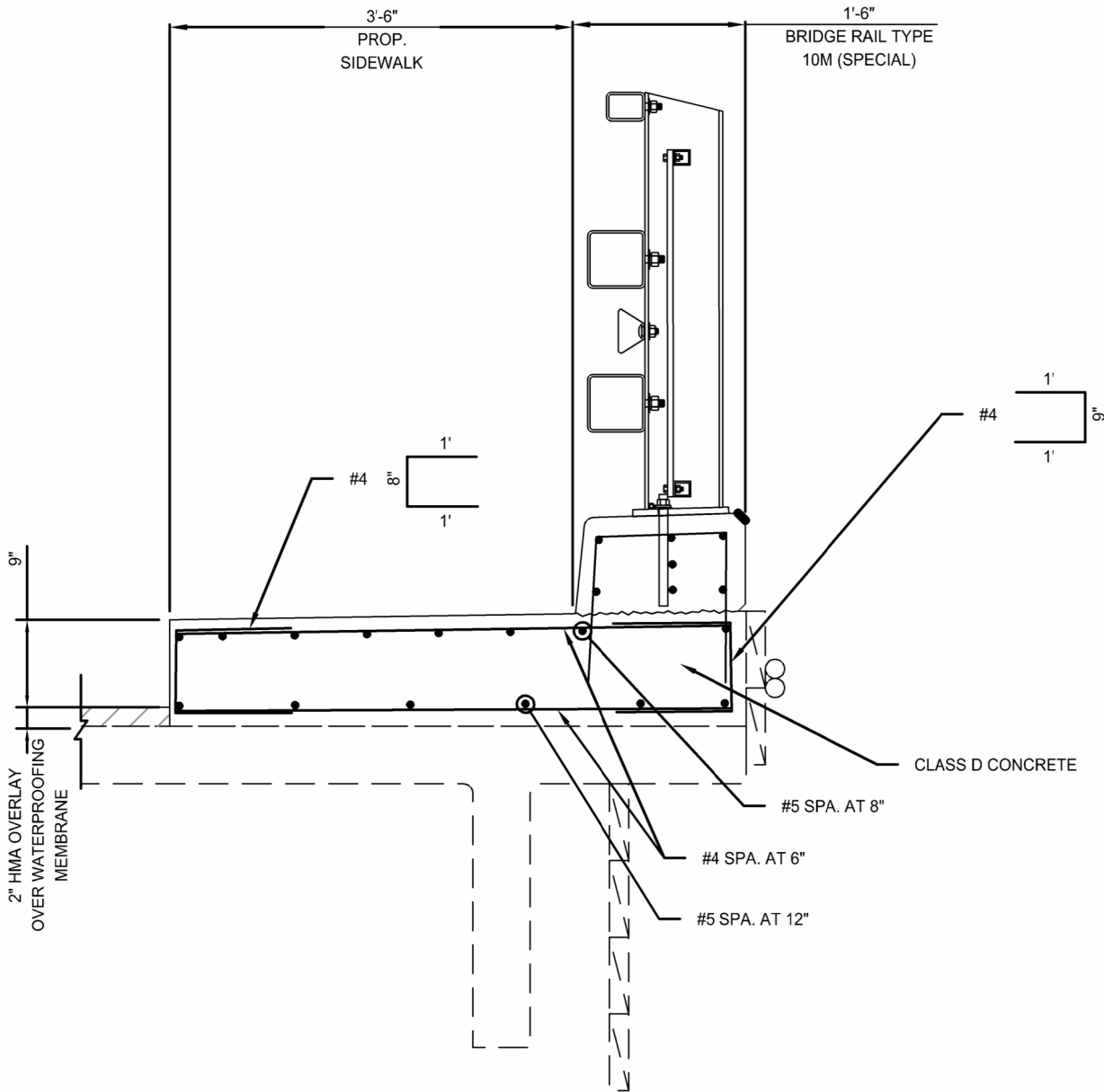
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100% PLANS - NOT FOR CONSTRUCTION



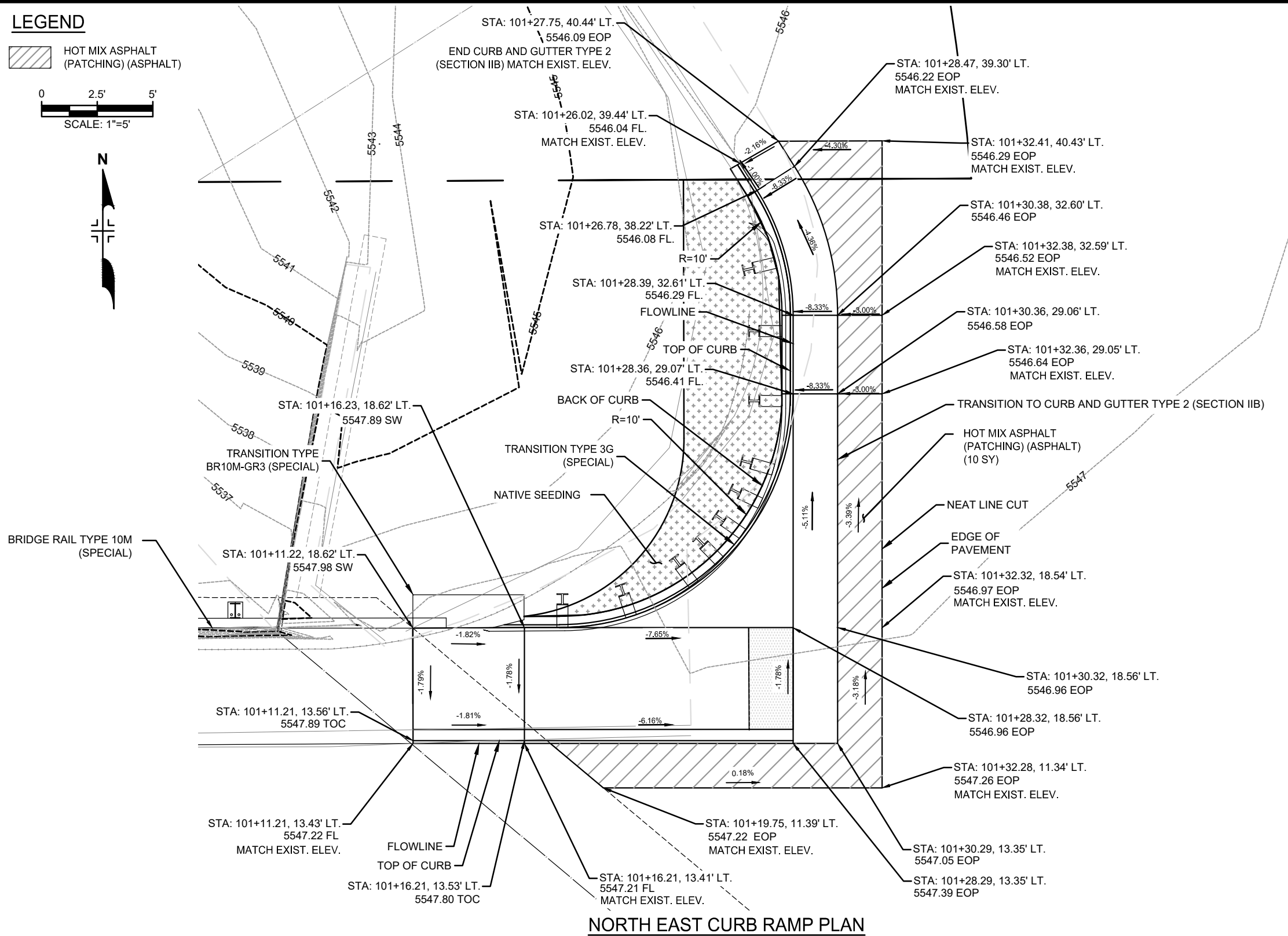
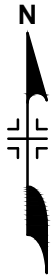
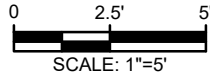
SOUTH WEST CURB RAMP PLAN
E. ORCHARD ROAD



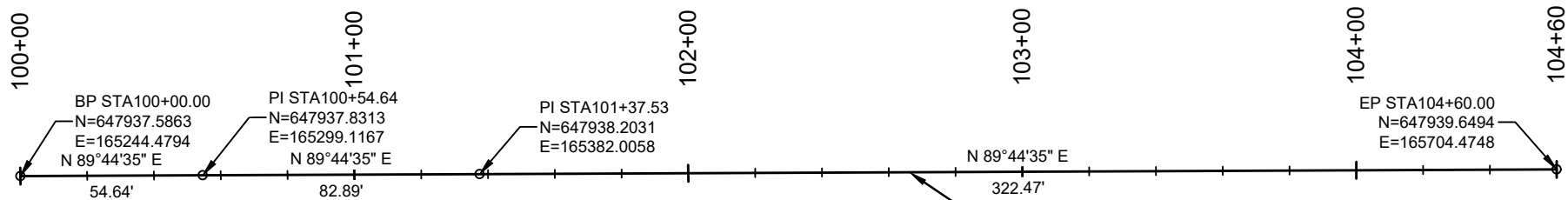
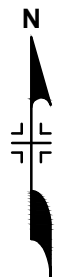
E ORCHARD ROAD - SOUTH SIDEWALK DETAILS

LEGEND

HOT MIX ASPHALT
(PATCHING) (ASPHALT)



NORTH EAST CURB RAMP PLAN



GEOMETRIC LAYOUT

REVISIONS

NO.	DATE	DESCRIPTION



2024 BRIDGE RAIL REPLACEMENTS
CITY OF GREENWOOD VILLAGE, CO

CLIENT PROJECT NO.
91050

WSB PROJECT NO.
028318-000

CURB RAMP DETAILS
E ORCHARD ROAD OVER
GREENWOOD GULCH
(SHEET NO 1 OF 1)

SHEET

20 OF 20