

DESIGN SPEED: 40 MPH
 POSTED SPEED: 35 MPH

**TYPICAL SECTION 80' R.O.W.
 RESIDENTIAL URBAN COLLECTOR**
 NOT TO SCALE
 LORSON BOULEVARD

NOTE:
 Pavement section to be determined
 by Hveem analysis and design. Design
 to be approved by El Paso County PCD
 Engineering

CORE
ENGINEERING GROUP
 15004 1ST AVENUE S.
 BURNSVILLE, MN 55306
 PH: 719.570.1100
 CONTACT: RICHARD L. SCHINDLER, P.E.
 EMAIL: Rich@cegi.com

| NO. | DESCRIPTION | DATE |
|-----|-------------|------|
| | | |
| | | |
| | | |

PREPARED FOR:
LORSON, LLC
 212 N. WASHACH AVE., SUITE 301
 COLORADO SPRINGS, COLORADO 80903
 CONTACT: JEFF MARK

PROJECT:
LORSON BLVD
 LORSON BLVD--OLD GLORY DR
 COLORADO SPRINGS, COLORADO

DRAWN: RLS
 DESIGNED: RLS
 CHECKED: RLS

**TYPICAL STREET SECTIONS
 AND GRADING & EROSION
 CONTROL NOTES & DETAILS**



DATE:
 AUGUST 30, 2018

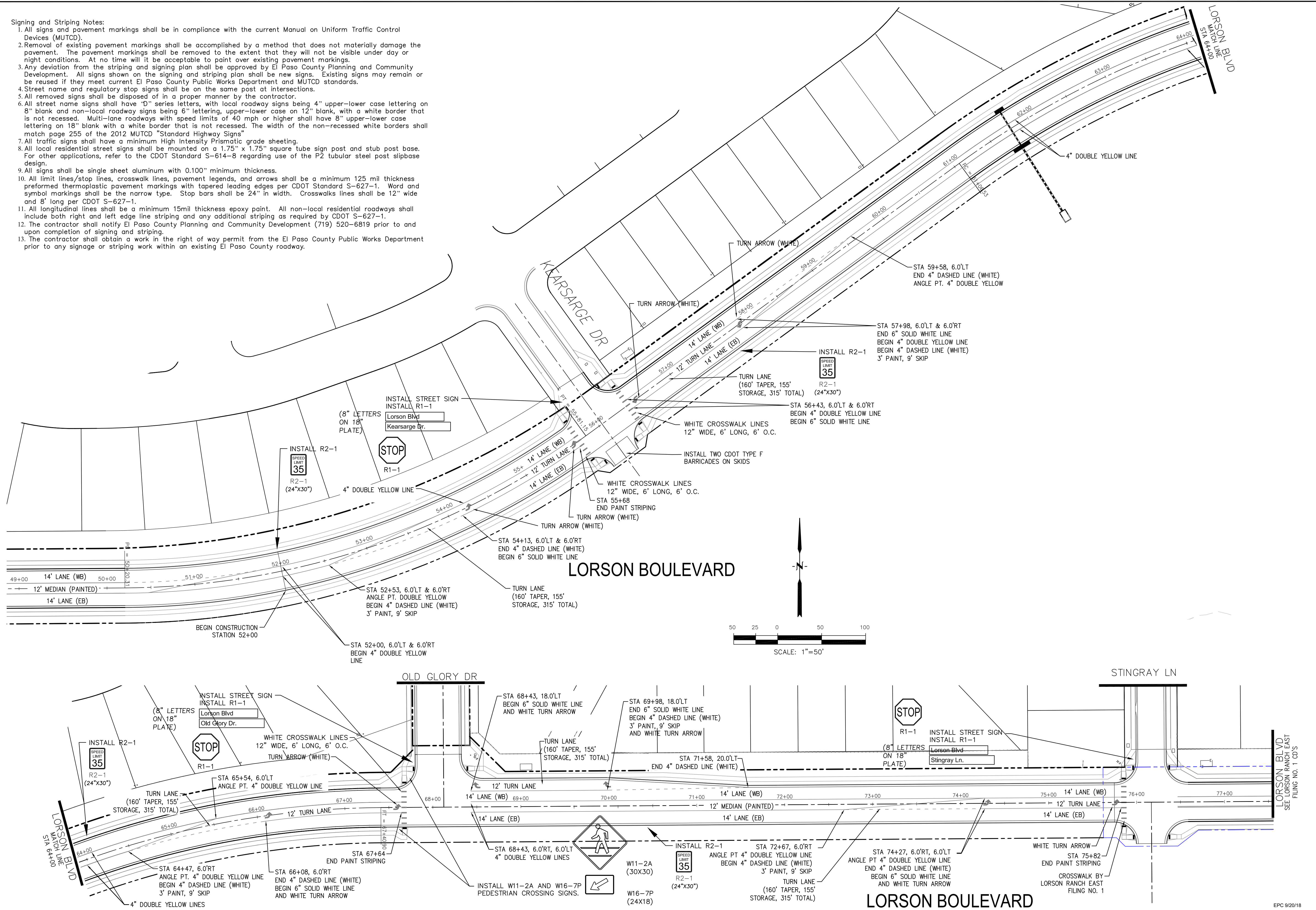
PROJECT NO.
 100.043

SHEET NUMBER
 C1.3

TOTAL SHEETS: 14

Signing and Striping Notes:

1. All signs and pavement markings shall be in compliance with the current Manual on Uniform Traffic Control Devices (MUTCD).
2. Removal of existing pavement markings shall be accomplished by a method that does not materially damage the pavement. The pavement markings shall be removed to the extent that they will not be visible under day or night conditions. At no time will it be acceptable to paint over existing pavement markings.
3. Any deviation from the striping and signing plan shall be approved by El Paso County Planning and Community Development. All signs shown on the signing and striping plan shall be new signs. Existing signs may remain or be reused if they meet current El Paso County Public Works Department and MUTCD standards.
4. Street name and regulatory stop signs shall be on the same post at intersections.
5. All removed signs shall be disposed of in a proper manner by the contractor.
6. All street name signs shall have "D" series letters, with local roadway signs being 4" upper-lower case lettering on 8" blank and non-local roadway signs being 6" lettering, upper-lower case on 12" blank, with a white border that is not recessed. Multi-lane roadways with speed limits of 40 mph or higher shall have 8" upper-lower case lettering on 18" blank with a white border that is not recessed. The width of the non-recessed white borders shall match page 255 of the 2012 MUTCD "Standard Highway Signs".
7. All traffic signs shall have a minimum High Intensity Prismatic grade sheeting.
8. All local residential street signs shall be mounted on a 1.75" x 1.75" square tube sign post and stub post base. For other applications, refer to the CDOT Standard S-614-8 regarding use of the P2 tubular steel post slipbase design.
9. All signs shall be single sheet aluminum with 0.100" minimum thickness.
10. All limit lines/stop lines, crosswalk lines, pavement legends, and arrows shall be a minimum 125 mil thickness preformed thermoplastic pavement markings with tapered leading edges per CDOT Standard S-627-1. Word and symbol markings shall be the narrow type. Stop bars shall be 24" in width. Crosswalks lines shall be 12" wide and 8' long per CDOT S-627-1.
11. All longitudinal lines shall be a minimum 15mil thickness epoxy paint. All non-local residential roadways shall include both right and left edge line striping and any additional striping as required by CDOT S-627-1.
12. The contractor shall notify El Paso County Planning and Community Development (719) 520-6819 prior to and upon completion of signing and striping.
13. The contractor shall obtain a work in the right of way permit from the El Paso County Public Works Department prior to any signage or striping work within an existing El Paso County roadway.



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 EMAIL: Rich@cegi.com

DATE: _____

DESCRIPTION: _____

NO. _____

PROJECT: **LORSON BLVD**
 LORSON BLVD—OLD GLORY DR
 COLORADO SPRINGS, COLORADO

PREPARED FOR: **LORSON, LLC**
 212 N. WAHSATCH AVE., SUITE 301
 COLORADO SPRINGS, COLORADO 80903
 (719) 635-3200
 CONTACT: JEFF MARK

DRAWN: RLS
 DESIGNED: RLS
 CHECKED: RLS

LORSON BOULEVARD SIGNING/STRIPING PLAN

DATE: **AUGUST 30, 2018**

PROJECT NO. **100.043**

SHEET NUMBER **C5.1**

TOTAL SHEETS: 14

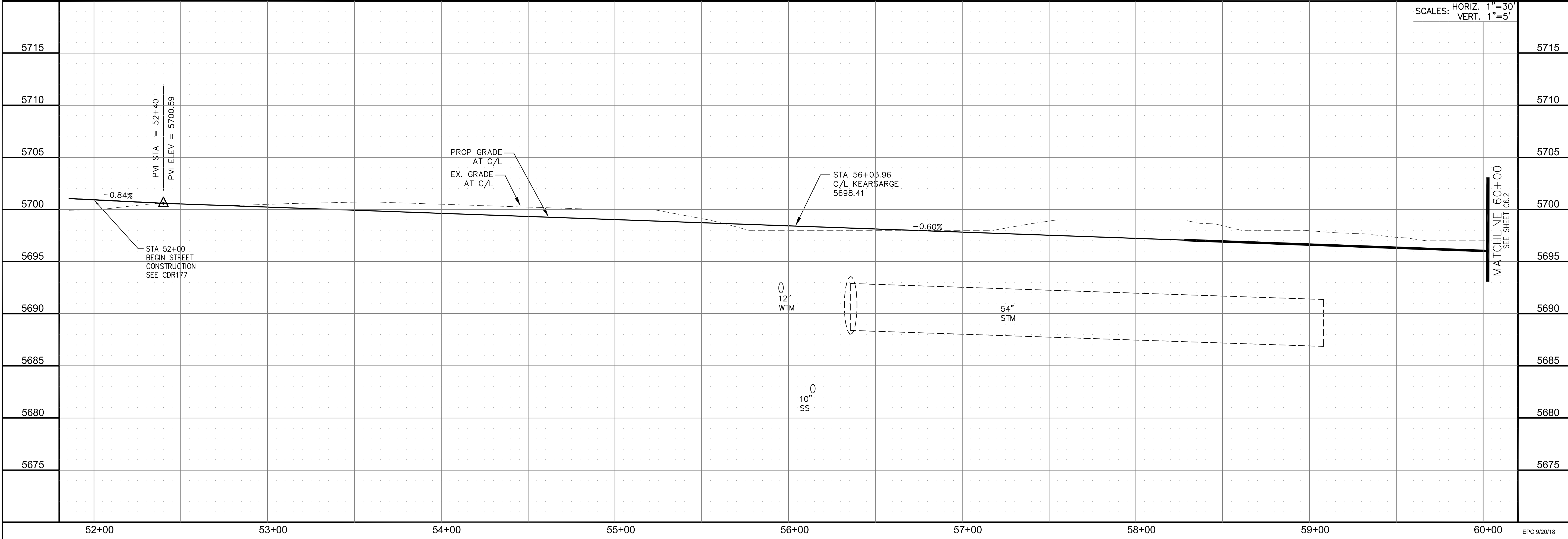
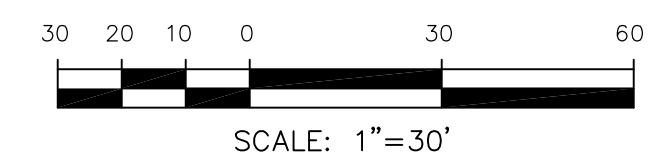
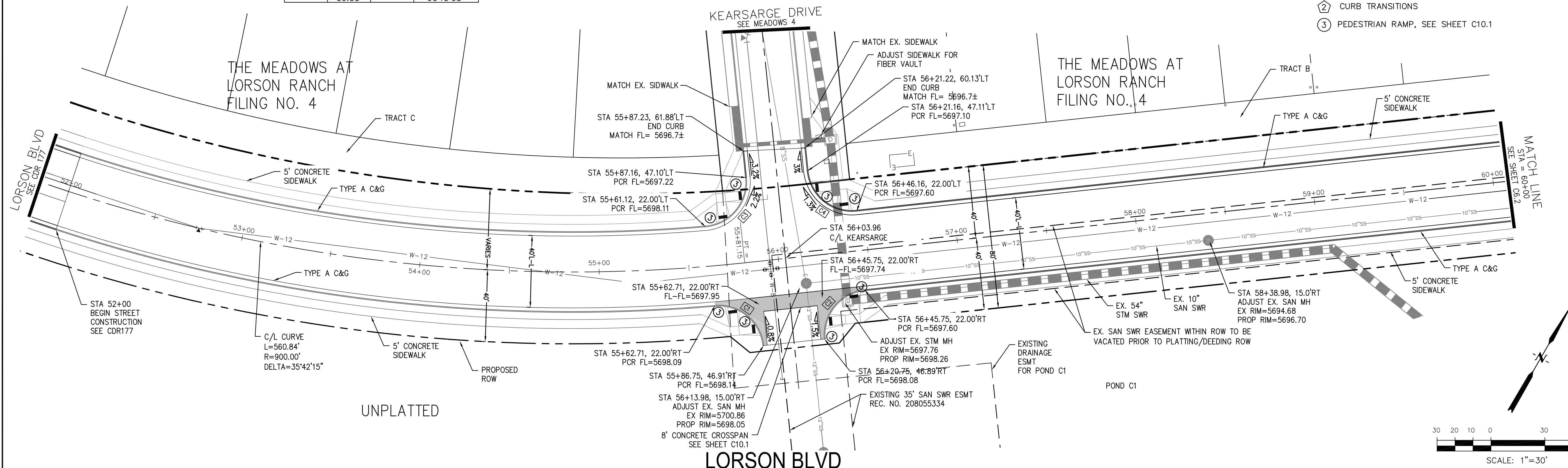
EPC 9/20/18

| CURVE | LENGTH | RADIUS | DELTA |
|-------|--------|--------|-----------|
| C1 | 38.87' | 25.00 | 89°04'42" |
| C2 | 39.16' | 25.00 | 89°44'52" |
| C3 | 39.72' | 25.00 | 91°01'24" |
| C4 | 39.38' | 25.00 | 90°15'08" |

NOTES

1. ALL SPOT ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE NOTED.
2. SEE EARLY GRADING PLAN FOR GRADING INFORMATION.
3. ALL STORM SEWER SHALL BE CLASS III RCP.
4. ALL MHS SHALL BE TYPE 1 UNLESS OTHERWISE NOTED.

- ① CURVE DATA ID
- ② CURB TRANSITIONS
- ③ PEDESTRIAN RAMP, SEE SHEET C10.1



CORE ENGINEERING GROUP
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 BLDG 79, FLD 1100
 COLORADO SPRINGS, COLORADO 80903
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 EMAIL: Rich@cegi.com

DATE: _____
 DESCRIPTION: _____
 NO: _____

PREPARED FOR: **LORSON, LLC**
 212 N. WAHSATCH AVE, SUITE 301
 COLORADO SPRINGS, COLORADO 80903
 PROJECT: **LORSON RANCH**
 LORSON BLVD.-OLD GLORY DR
 COLORADO SPRINGS, COLORADO
 CONTACT: JEFF MARK

DRAWN: RLS
 DESIGNED: RLS
 CHECKED: RLS

STREET/STORM
LORSON BOULEVARD
 STA 52+00 TO 60+00



DATE: AUGUST 30, 2018

PROJECT NO. 100.043

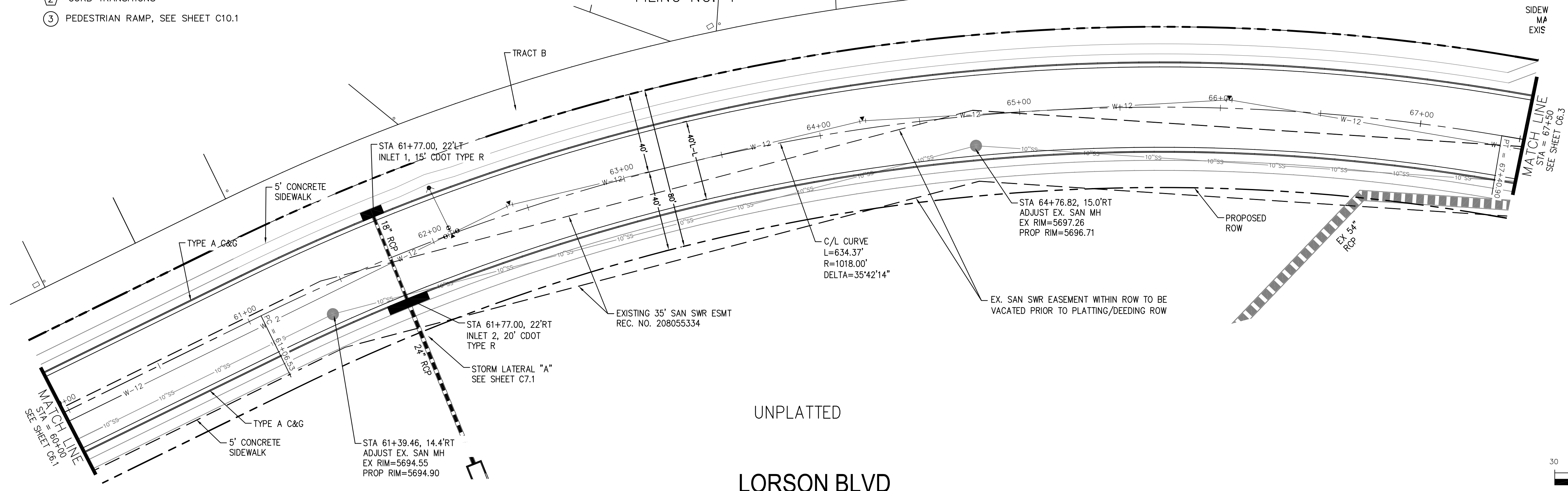
SHEET NUMBER C6.1

TOTAL SHEETS: 14

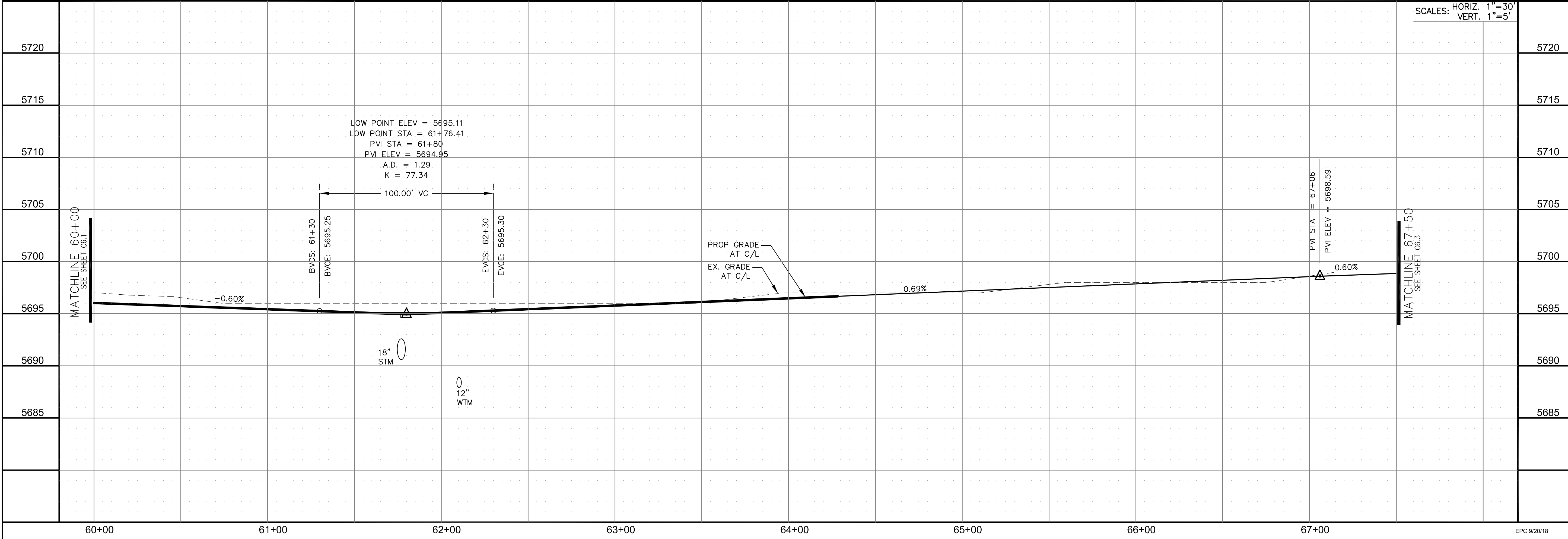
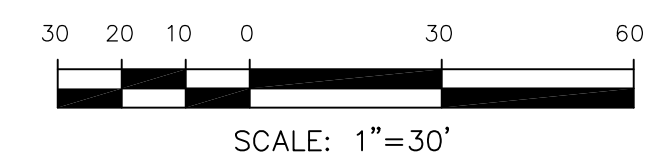
- NOTES
1. ALL SPOT ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE NOTED.
 2. SEE EARLY GRADING PLAN FOR GRADING INFORMATION.
 3. ALL STORM SEWER SHALL BE CLASS III RCP.
 4. ALL MHS SHALL BE TYPE 1 UNLESS OTHERWISE NOTED.

- ① CURVE DATA ID
- ② CURB TRANSITIONS
- ③ PEDESTRIAN RAMP, SEE SHEET C10.1

THE MEADOWS AT
LORSON RANCH
FILING NO. 4



UNPLATTED
LORSON BLVD



SCALES: HORIZ. 1"=30'
VERT. 1"=5'

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SUITE 301
DENVER, CO 80202
PHONE: 303.757.1100
CONTACT: RICHARD L. SCHINDLER, P.E.
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DATE: _____
DESCRIPTION: _____
NO: _____
DRAWN: RLS
DESIGNED: RLS
CHECKED: RLS

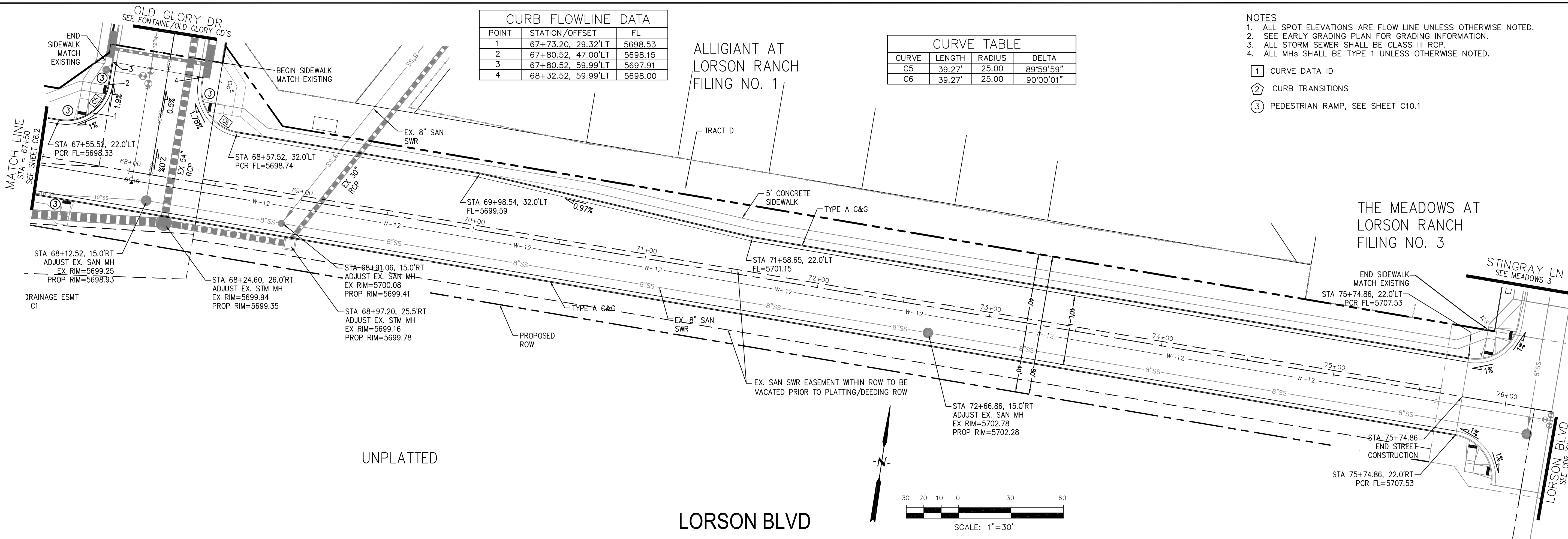
PROJECT: **LORSON RANCH**
LORSON BLVD--OLD GLORY DR
COLORADO SPRINGS, COLORADO

PREPARED FOR: **LORSON, LLC**
212 N. WAHSATCH AVE, SUITE 301
COLORADO SPRINGS, COLORADO 80903
(719) 635-3200
CONTACT: JEFF MARK

STREET/STORM
LORSON BOULEVARD
STA 60+00 TO 67+50



DATE: AUGUST 30, 2018
PROJECT NO. 100.043
SHEET NUMBER C6.2
TOTAL SHEETS: 14



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 BOULDER, CO 80506
 CONTACT: RICHARD L. SCHINDLER, P.E.
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DATE: _____

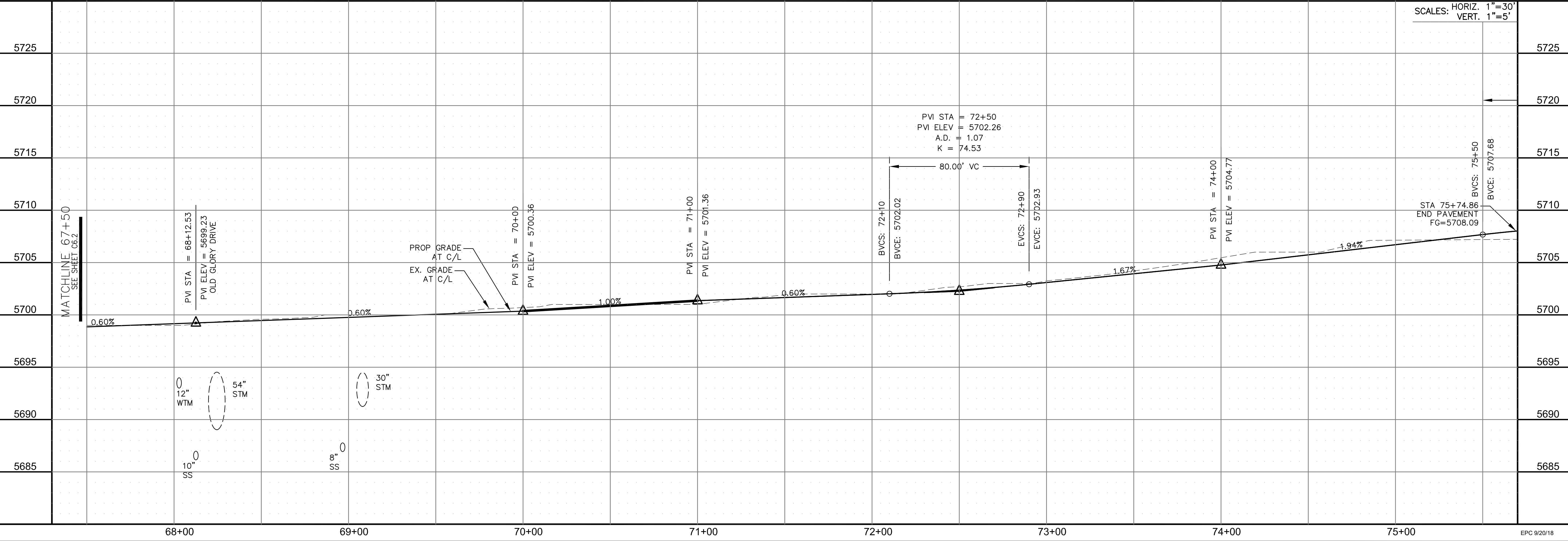
DESCRIPTION: _____

NO: _____

PROJECT: **LORSON RANCH**
 LORSON BLVD-OLD GLORY DR
 COLORADO SPRINGS, COLORADO

PREPARED FOR: **LORSON, LLC**
 212 N. WAHSATCH AVE, SUITE 301
 COLORADO SPRINGS, COLORADO 80903
 (719) 635-3200
 CONTACT: JEFF MARK

DRAWN: RLS
 DESIGNED: RLS
 CHECKED: RLS



STREET/STORM

LORSON BOULEVARD

STA 67+50 TO 75+74.86

DATE: AUGUST 30, 2018

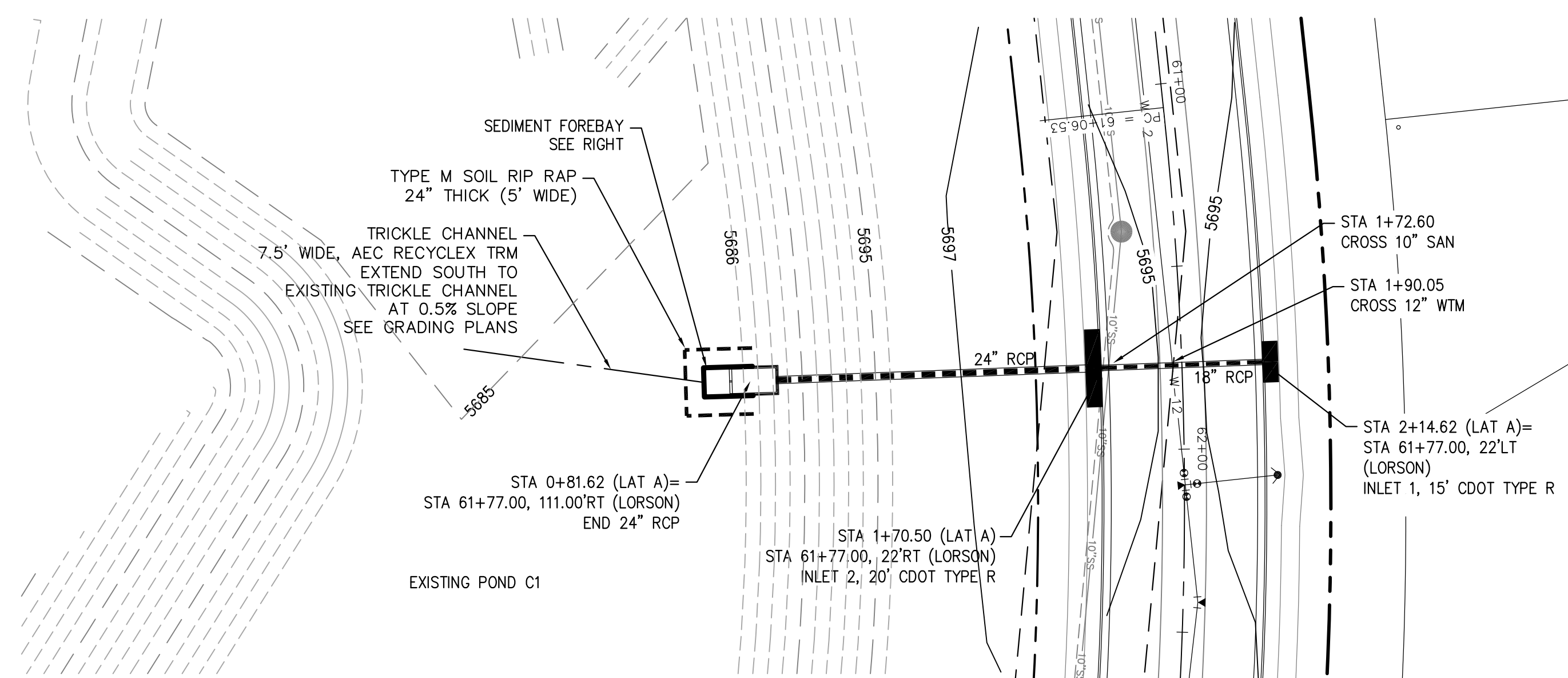
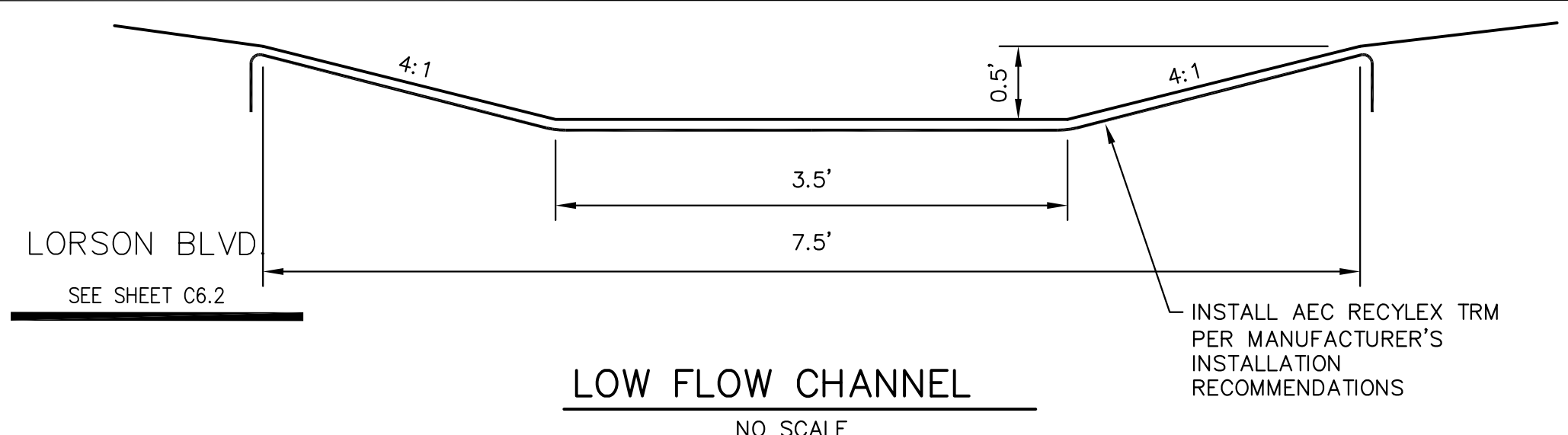
PROJECT NO. 100.043

SHEET NUMBER C6.3

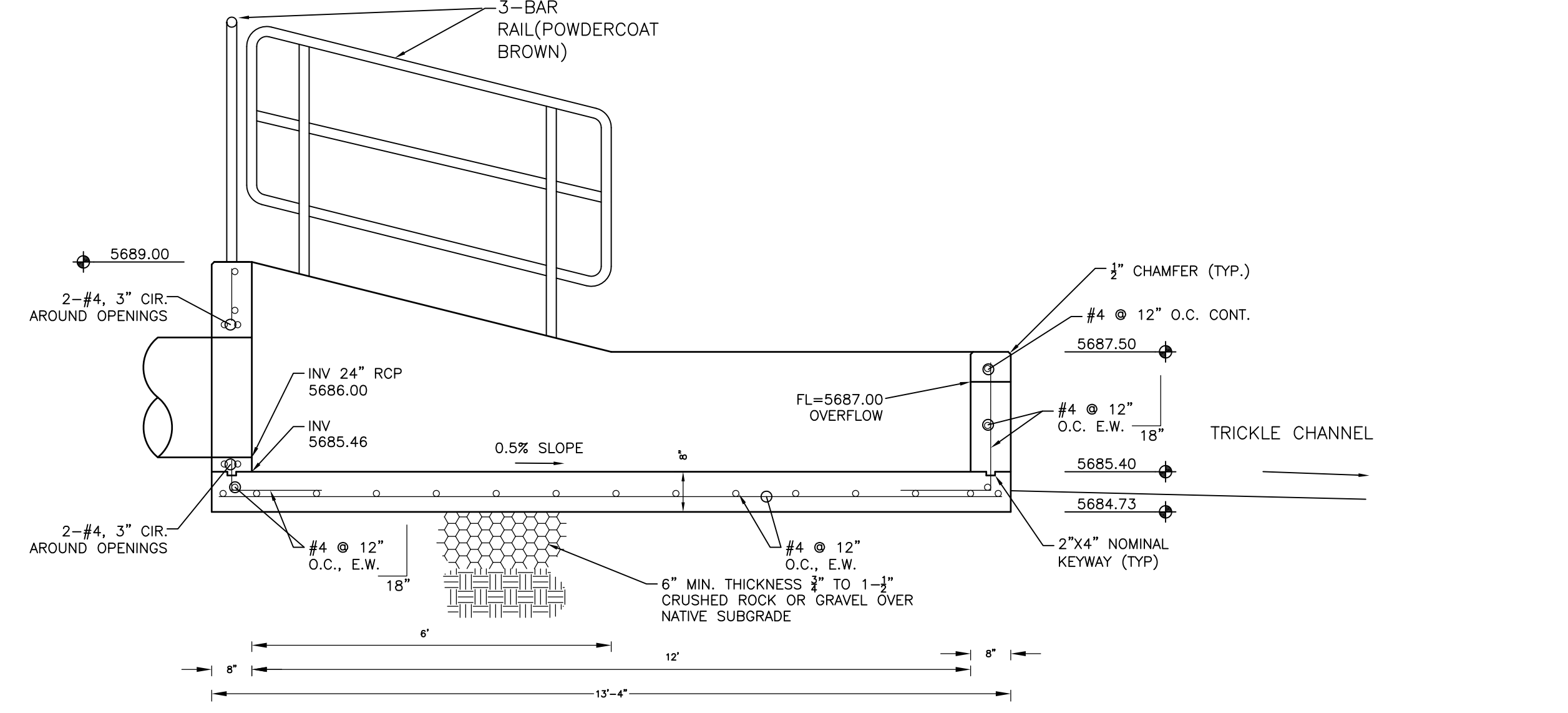
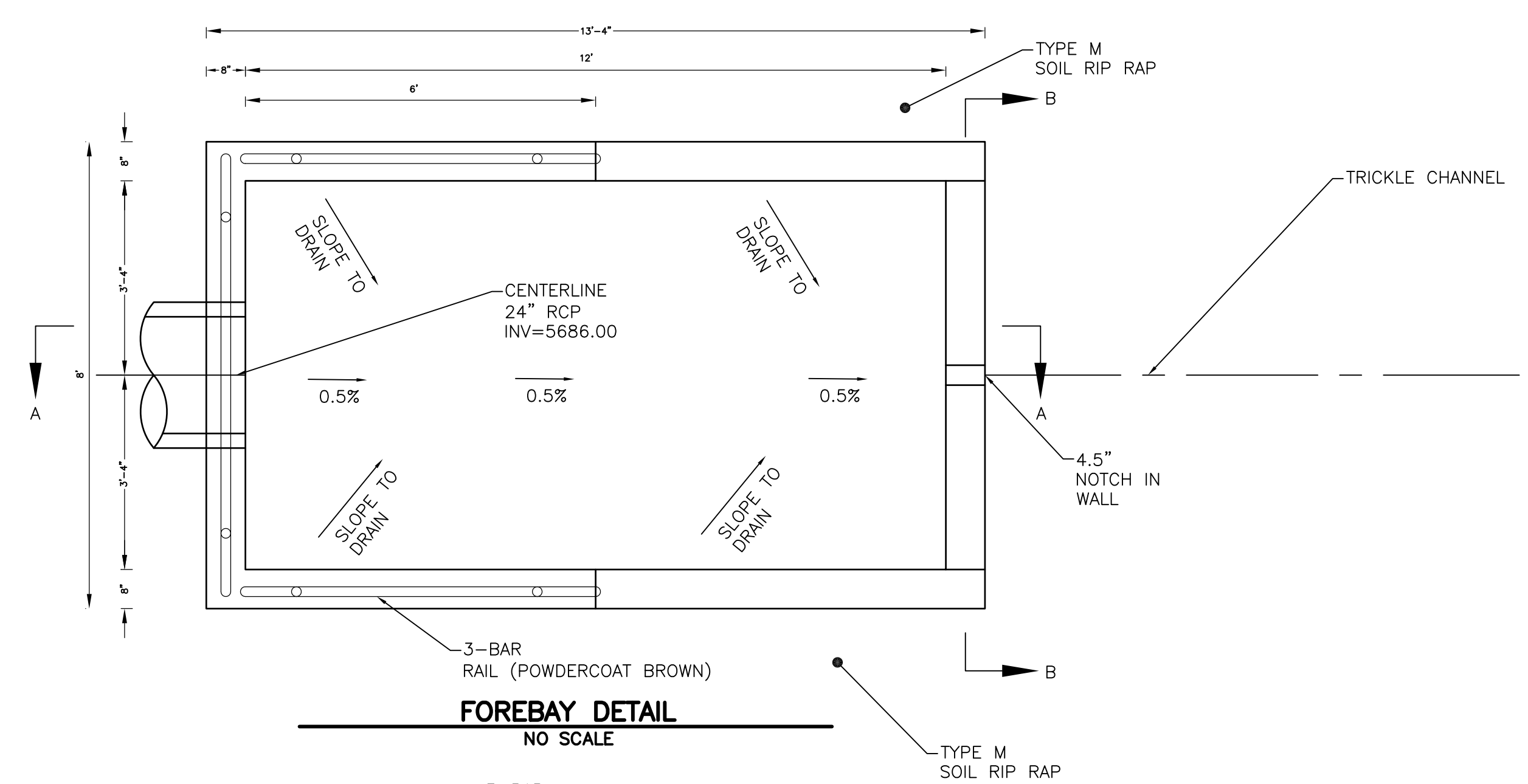
TOTAL SHEETS: 14

EPC 9/20/18

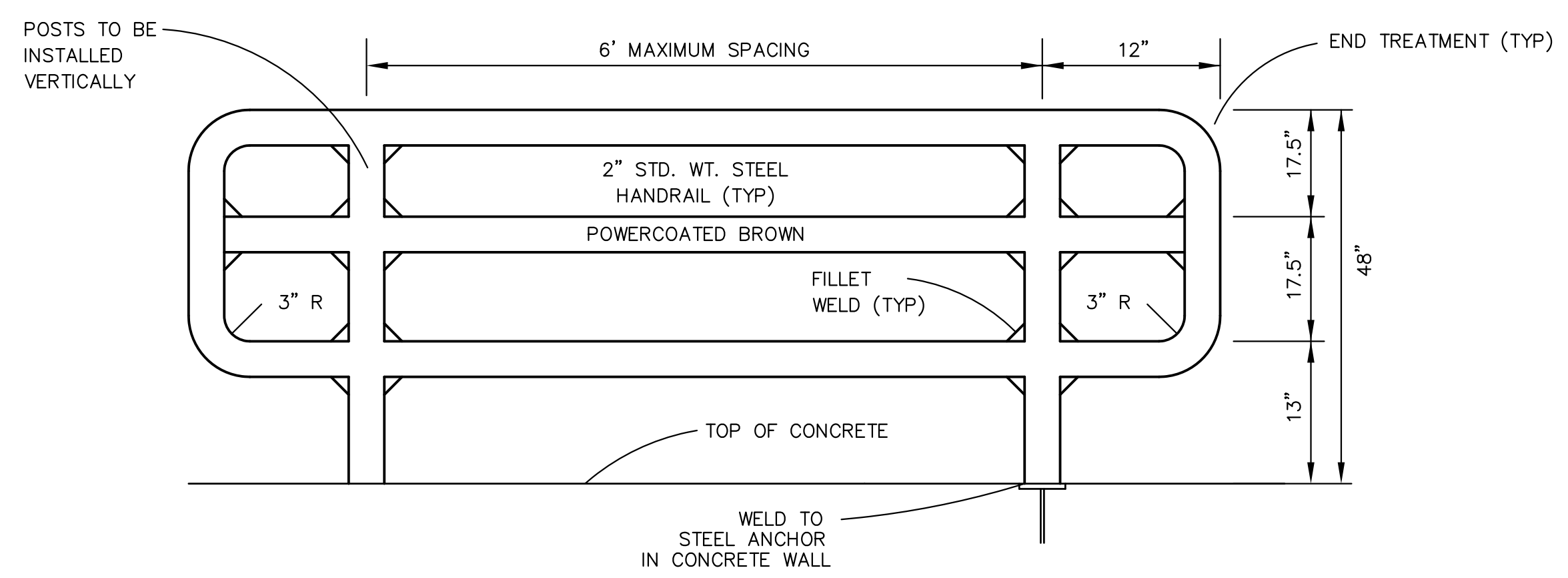
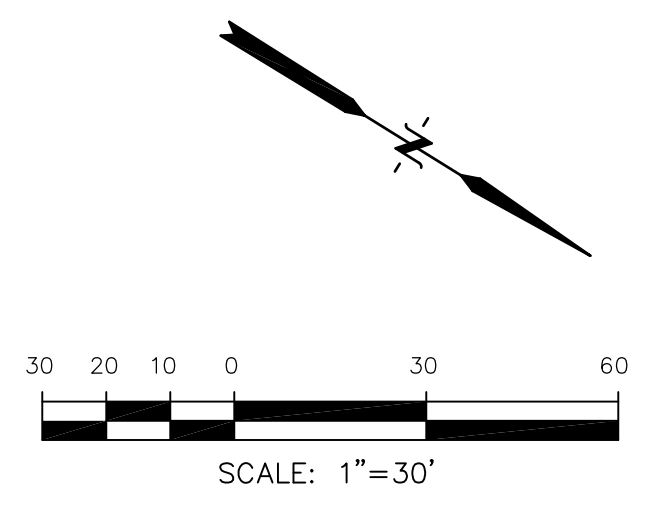




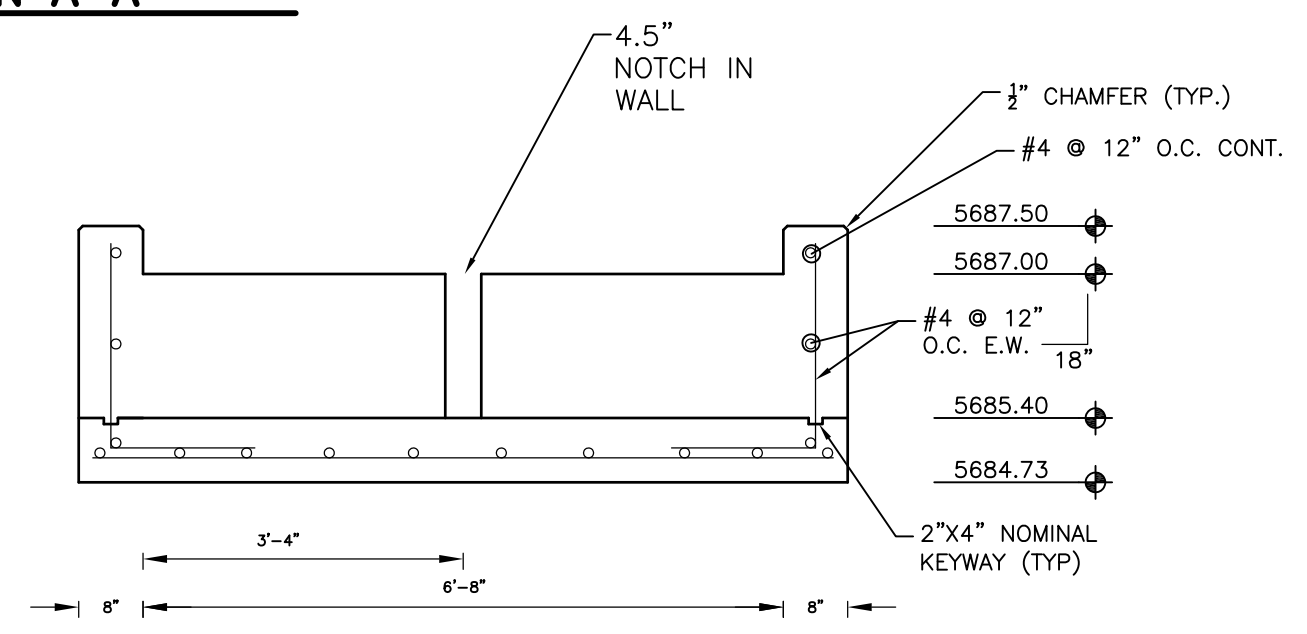
STORM LATERAL "A"



FOREBAY SECTION A-A
NO SCALE



3-BAR RAIL DETAIL
NO SCALE



FOREBAY SECTION B-B
NO SCALE

| SCALES: HORIZ. 1"=30' | | VERT. 1"=5' | |
|-----------------------|------|-------------|--|
| 5715 | | | |
| 5710 | | | |
| 5705 | | | |
| 5700 | | | |
| 5695 | | | |
| 5690 | | | |
| 5685 | | | |
| 5680 | | | |
| 5675 | | | |
| | 1+00 | 2+00 | |

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CONTACT: RICHARD L. SCHINDLER, P.E.
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DATE: _____
DESCRIPTION: _____
NO: _____
PROJECT: **LORSON RANCH**
LORSON BLVD.-OLD GLORY DR
COLORADO SPRINGS, COLORADO
PREPARED FOR: **LORSON, LLC**
212 N. WAHSATCH AVE, SUITE 301
COLORADO SPRINGS, COLORADO 80903
(719) 635-3200
CONTACT: JEFF MARK

DRAWN: RLS
DESIGNED: RLS
CHECKED: RLS

STREET/STORM
STORM SEWER LATERAL "A"

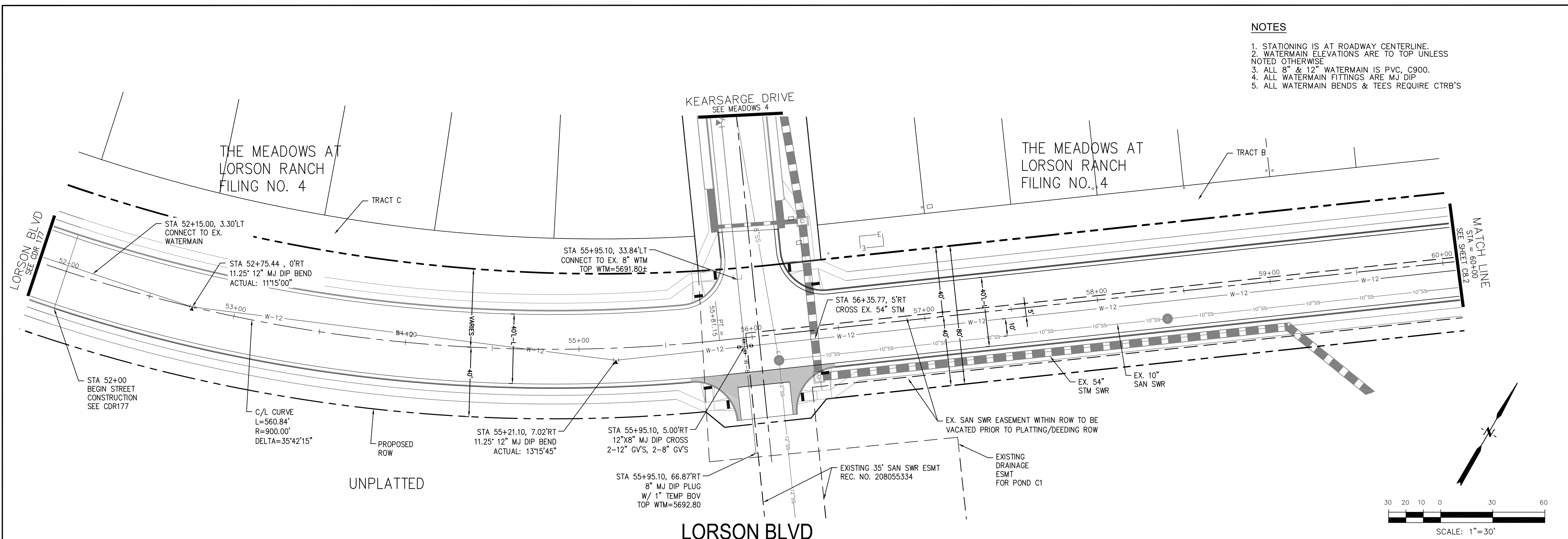


DATE: AUGUST 30, 2018

PROJECT NO. 100.043

SHEET NUMBER C7.1

TOTAL SHEETS: 14



- NOTES**
1. STATIONING IS AT ROADWAY CENTERLINE.
 2. WATERMAIN ELEVATIONS ARE TO TOP UNLESS NOTED OTHERWISE
 3. ALL 8" & 12" WATERMAIN IS PVC, C900.
 4. ALL WATERMAIN FITTINGS ARE MJ DIP
 5. ALL WATERMAIN BENDS & TEES REQUIRE CTRB'S

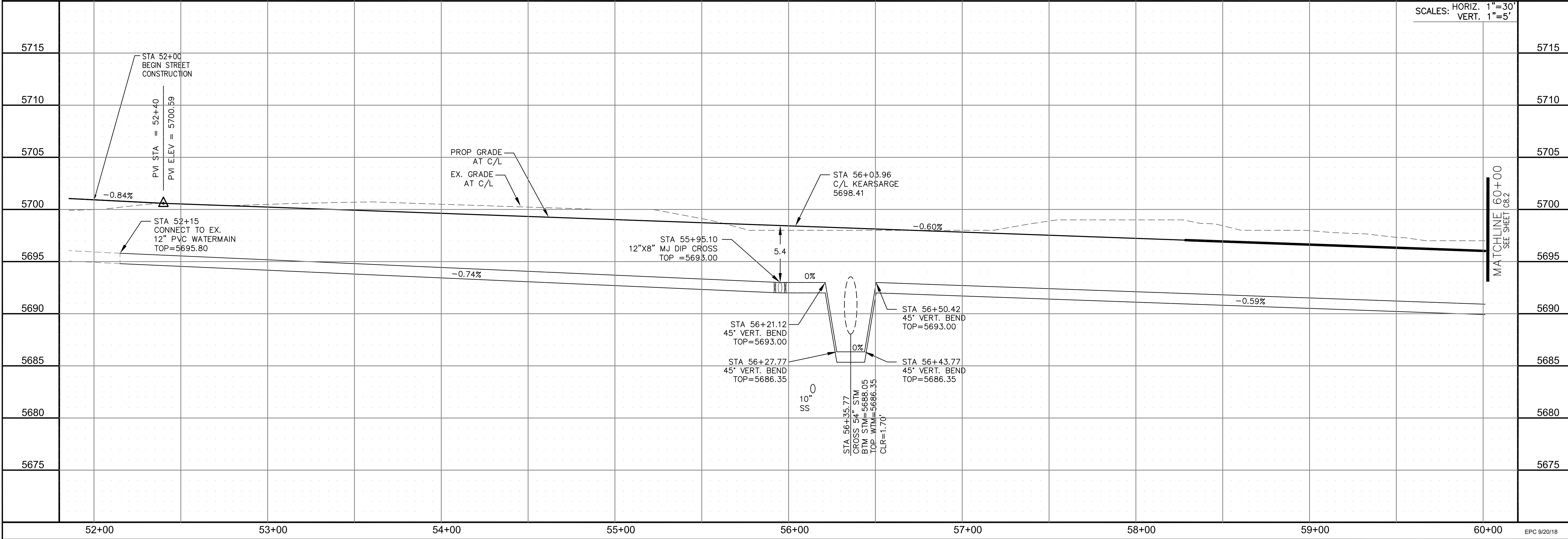
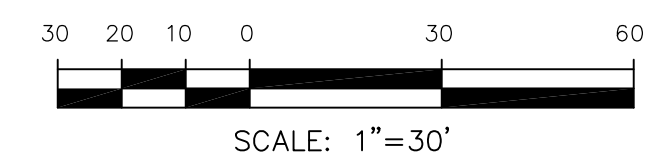
CORE ENGINEERING GROUP
 15004 1ST AVENUE S.
 BURNING WOODS, CO 80016
 PHONE: 303.779.5700
 CONTACT: RICHARD L. SCHINDLER, P.E.
 EMAIL: Rich@cegi.com

DATE: _____
 DESCRIPTION: _____
 NO: _____

PROJECT: **LORSON RANCH**
 LORSON BLVD.-OLD GLORY DR
 COLORADO SPRINGS, COLORADO

PREPARED FOR: **LORSON, LLC**
 212 N. WAHSATCH AVE., SUITE 301
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 (719) 635-3200
 CONTACT: JEFF MARK

DRAWN: RLS
 DESIGNED: RLS
 CHECKED: RLS



WATERMAIN
 LORSON BOULEVARD
 STA 52+00 TO 60+00



DATE: AUGUST 30, 2018

PROJECT NO. 100.043

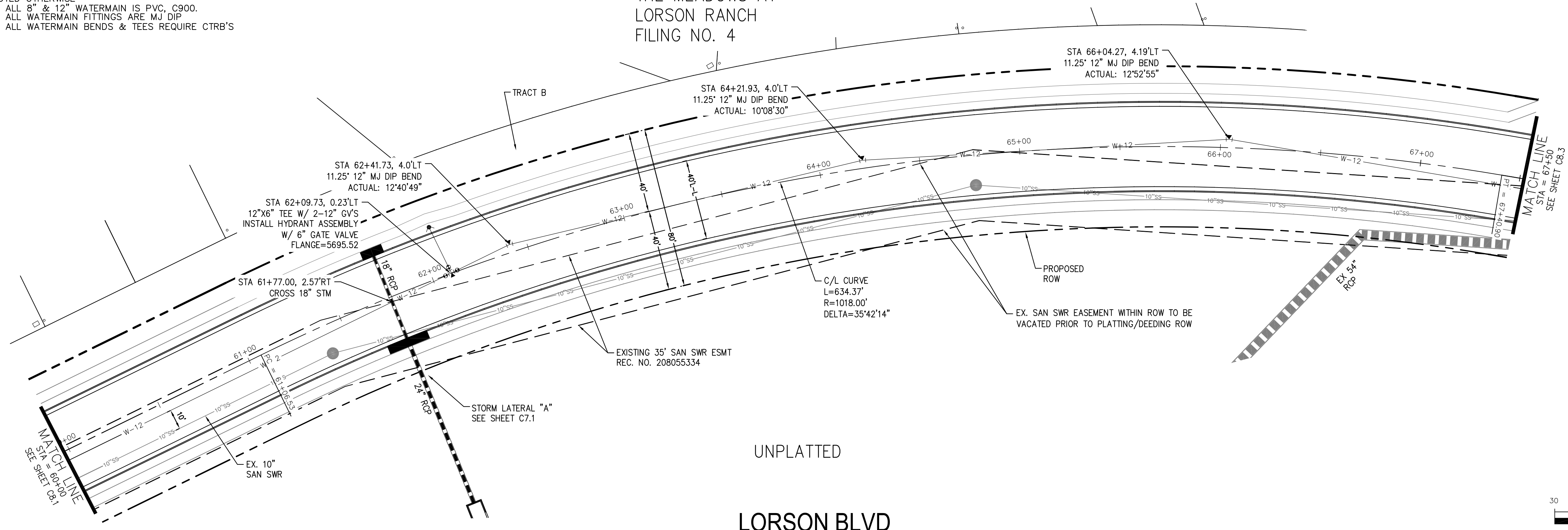
SHEET NUMBER C8.1

TOTAL SHEETS: 14

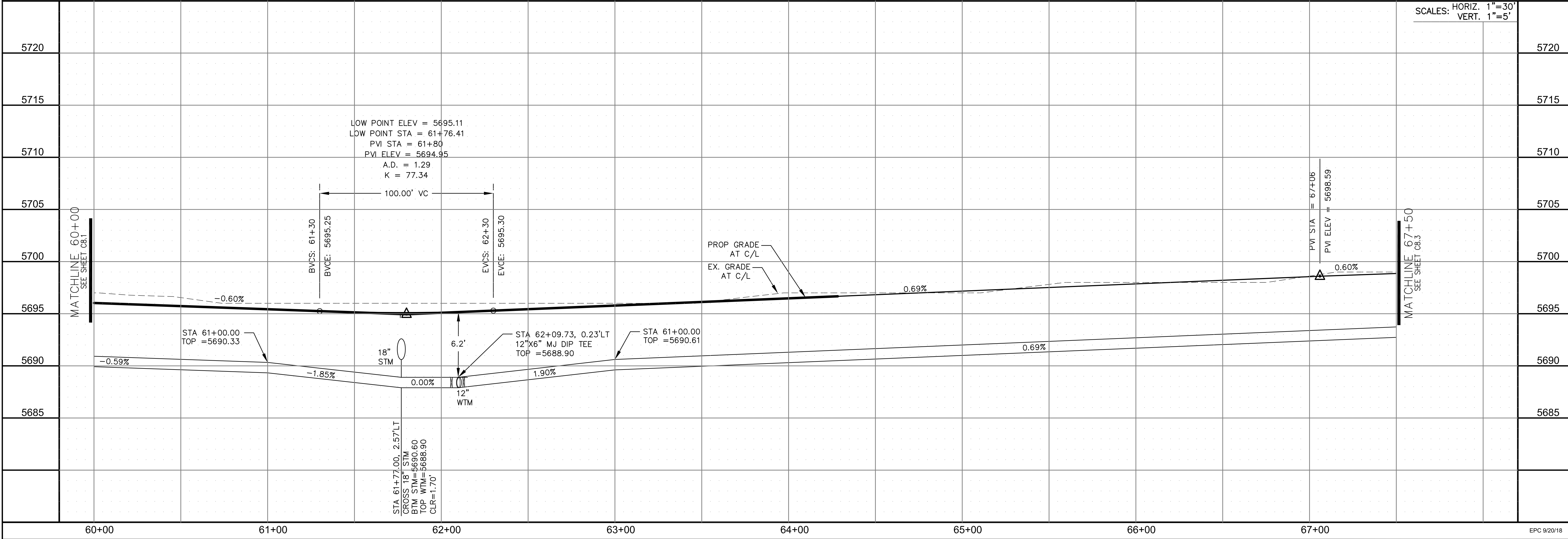
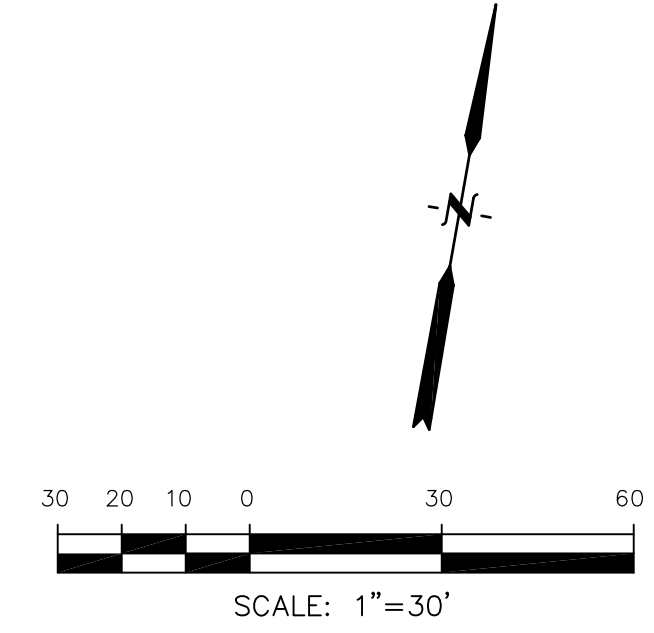
NOTES

1. STATIONING IS AT ROADWAY CENTERLINE.
2. WATERMAIN ELEVATIONS ARE TO TOP UNLESS NOTED OTHERWISE
3. ALL 8" & 12" WATERMAIN IS PVC, C900.
4. ALL WATERMAIN FITTINGS ARE MJ DIP
5. ALL WATERMAIN BENDS & TEES REQUIRE CTRB'S

**THE MEADOWS AT
LORSON RANCH
FILING NO. 4**



UNPLATTED
LORSON BLVD



**CORE
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BURNING WOODS, CO 80906
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CONTACT: RICHARD L. SCHINDLER, P.E.
EMAIL: Rich@cegi.com

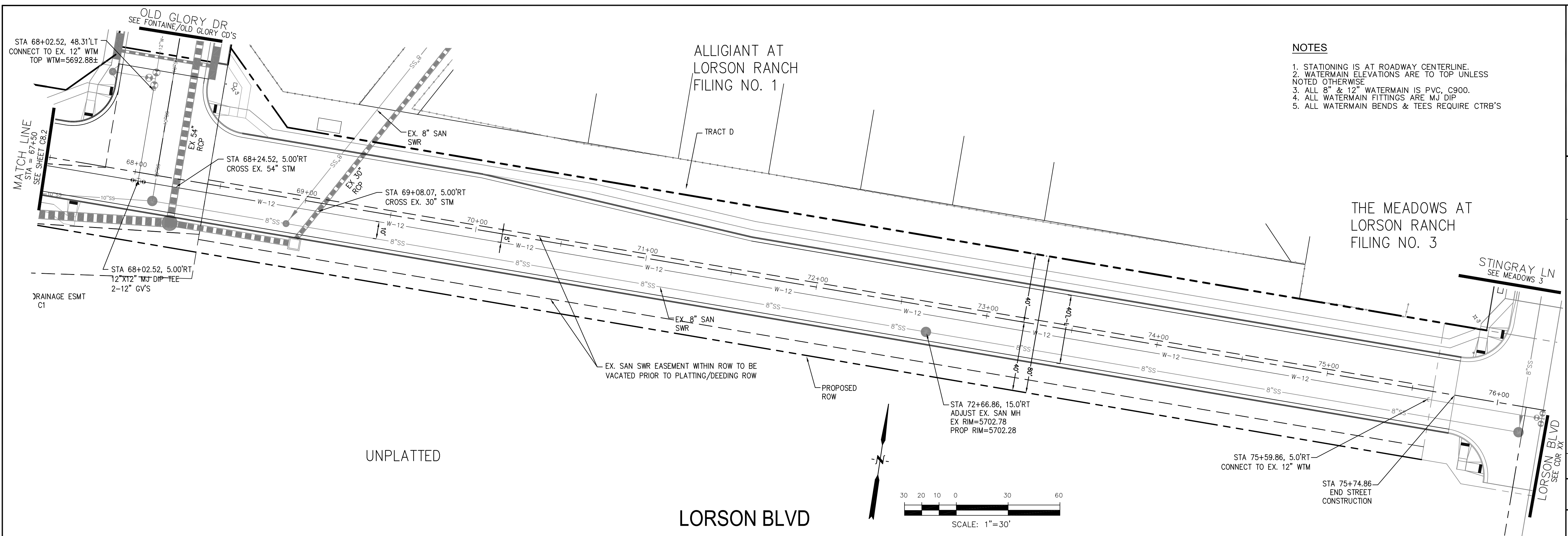
DATE: _____
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NO: _____
PROJECT: **LORSON RANCH**
LORSON BLVD--OLD GLORY DR
COLORADO SPRINGS, COLORADO
PREPARED FOR: **LORSON, LLC**
212 N. WAHSATCH AVE, SUITE 301
COLORADO SPRINGS, COLORADO 80903
CONTACT: JEFF MARK

DRAWN: RLS
DESIGNED: RLS
CHECKED: RLS

**WATERMAIN
LORSON BOULEVARD
STA 60+00 TO 67+50**



DATE: **AUGUST 30, 2018**
PROJECT NO. **100.043**
SHEET NUMBER **C8.2**
TOTAL SHEETS: 14



- NOTES**
1. STATIONING IS AT ROADWAY CENTERLINE.
 2. WATERMAIN ELEVATIONS ARE TO TOP UNLESS NOTED OTHERWISE.
 3. ALL 8" & 12" WATERMAIN IS PVC, C900.
 4. ALL WATERMAIN FITTINGS ARE MJ DIP.
 5. ALL WATERMAIN BENDS & TEES REQUIRE CTRB'S

CORE ENGINEERING GROUP
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 BLDG 100, SUITE 301
 BIRCH CREEK, CO 80150
 CONTACT: RICHARD L. SCHINDLER, P.E.
 EMAIL: Rich@cegi.com

DATE: _____

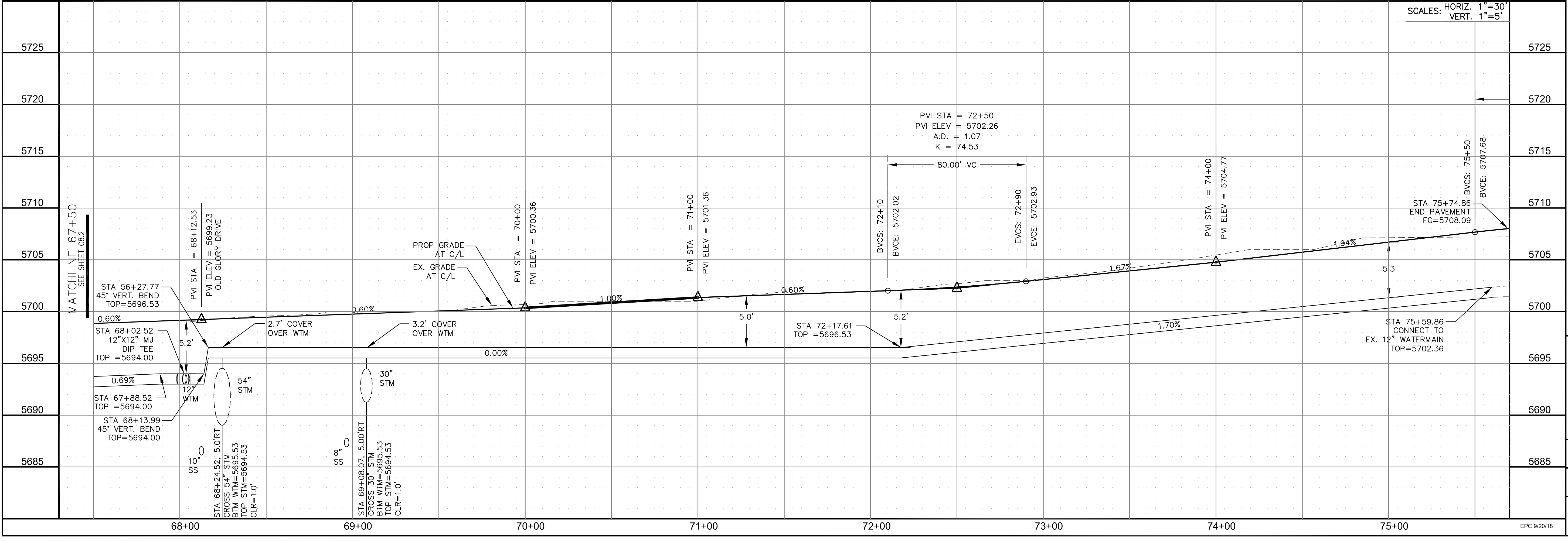
DESCRIPTION: _____

NO: _____

PROJECT: **LORSON RANCH**
 LORSON BLVD-OLD GLORY DR
 COLORADO SPRINGS, COLORADO

PREPARED FOR: **LORSON, LLC**
 212 N. WAHSATCH AVE, SUITE 301
 COLORADO SPRINGS, COLORADO 80903
 (719) 635-3200
 CONTACT: JEFF MARK

DRAWN: RLS
 DESIGNED: RLS
 CHECKED: RLS



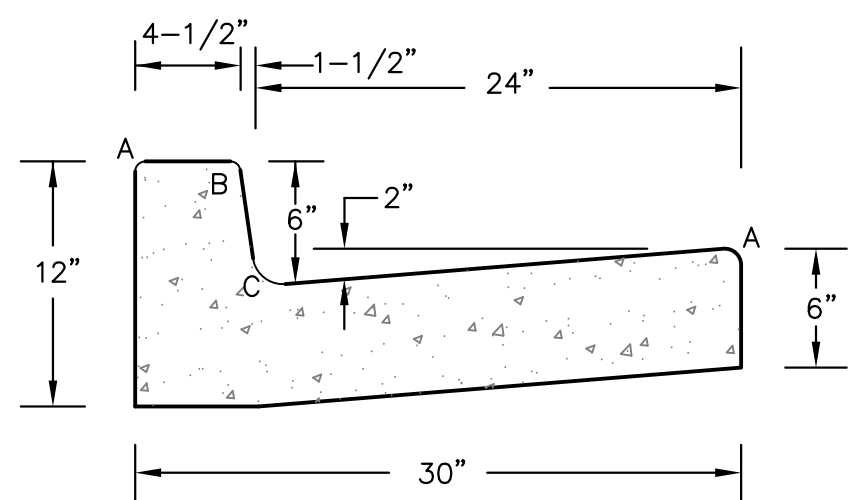
SCALES: HORIZ. 1"=30'
 VERT. 1"=5'

WATERMAIN
LORSON BOULEVARD
STA 67+50 TO 75+59.86

DATE: AUGUST 30, 2018

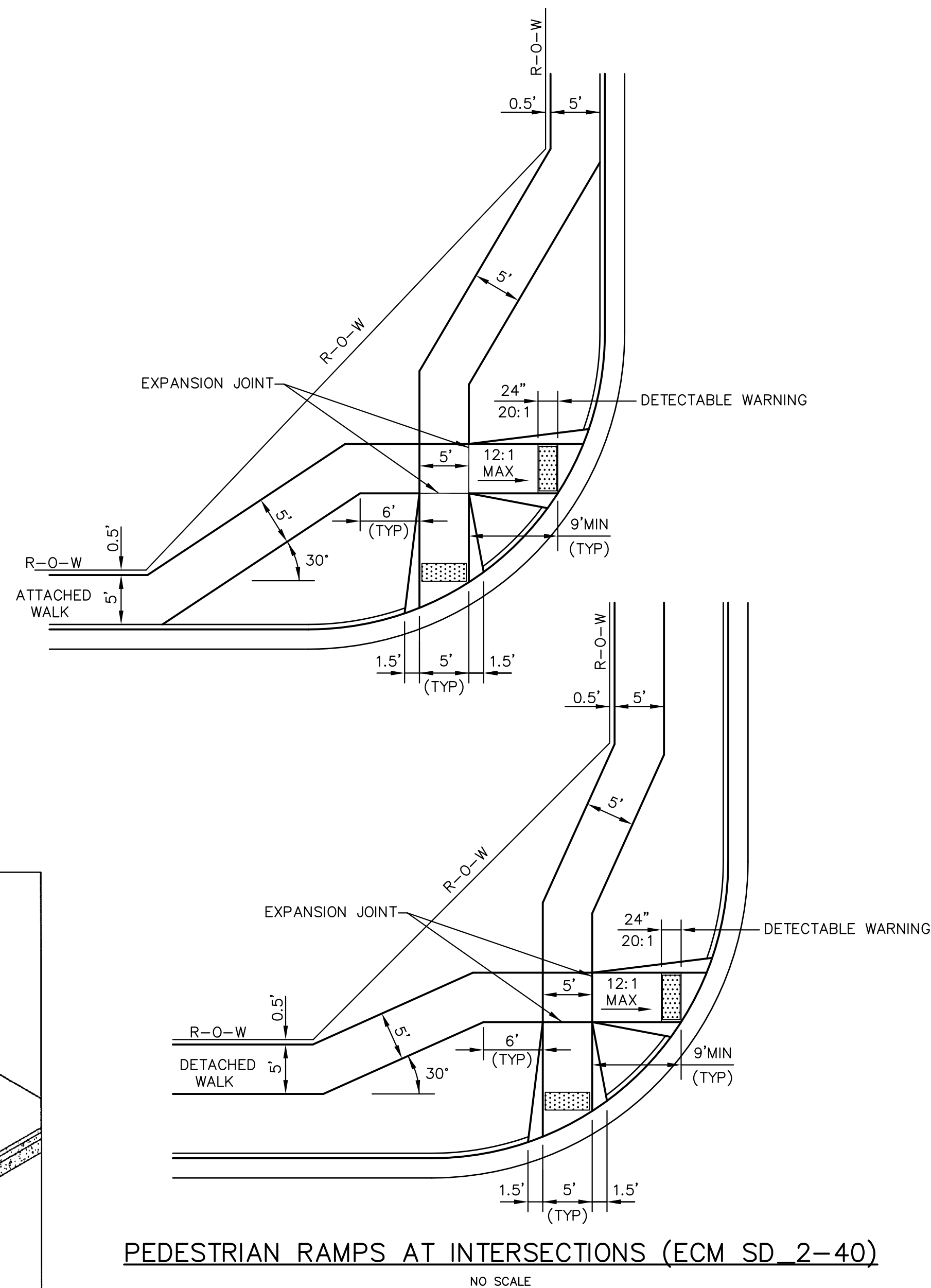
PROJECT NO. 100.043
 SHEET NUMBER C8.3
 TOTAL SHEETS: 14

EPC 9/20/18



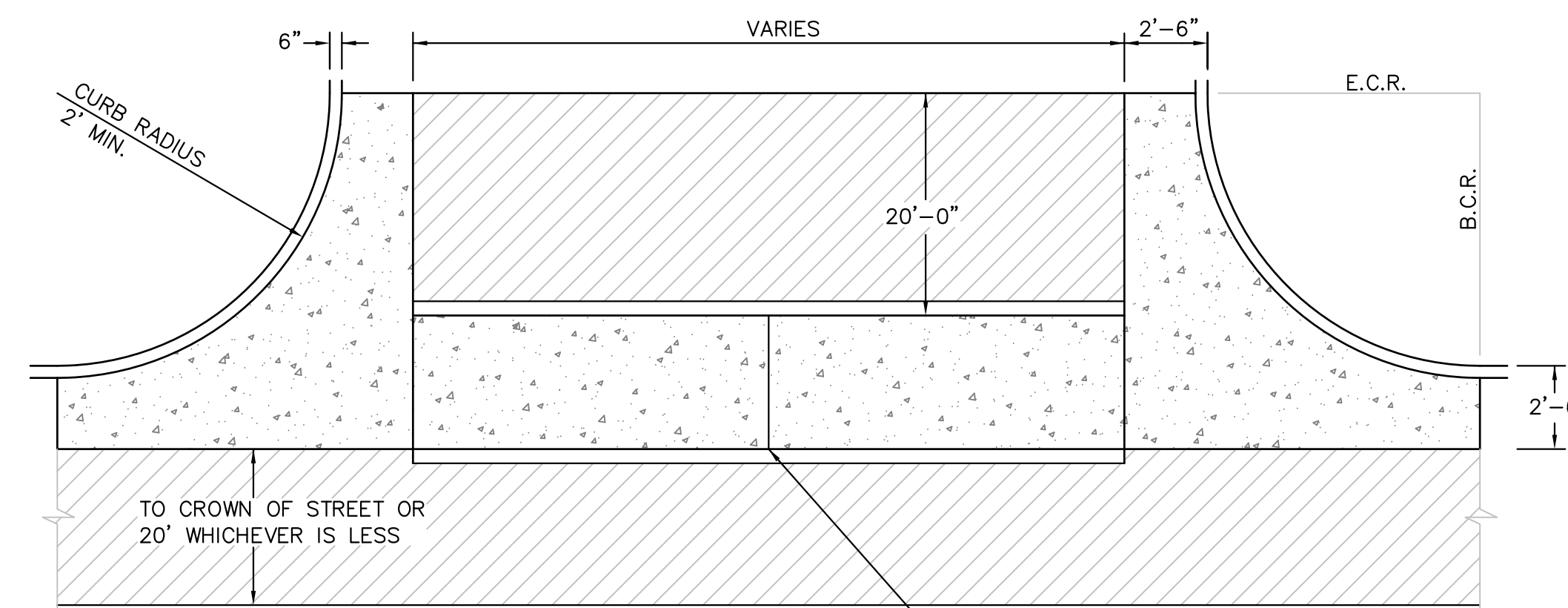
TYPE 'A'
VERTICAL CURB AND GUTTER

SCALE 1" = 1'-0"



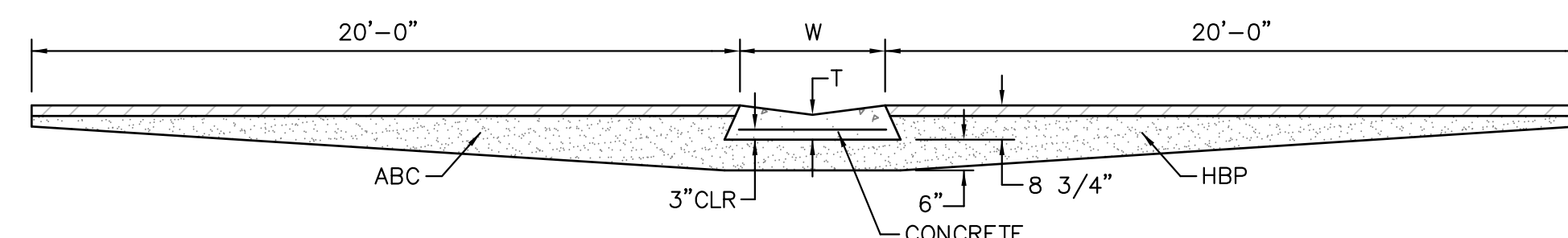
PEDESTRIAN RAMPS AT INTERSECTIONS (ECM SD 2-40)

NO SCALE



PLAN VIEW

SAW CUT OR COLD JOINT, TYP.



SECTION A - A

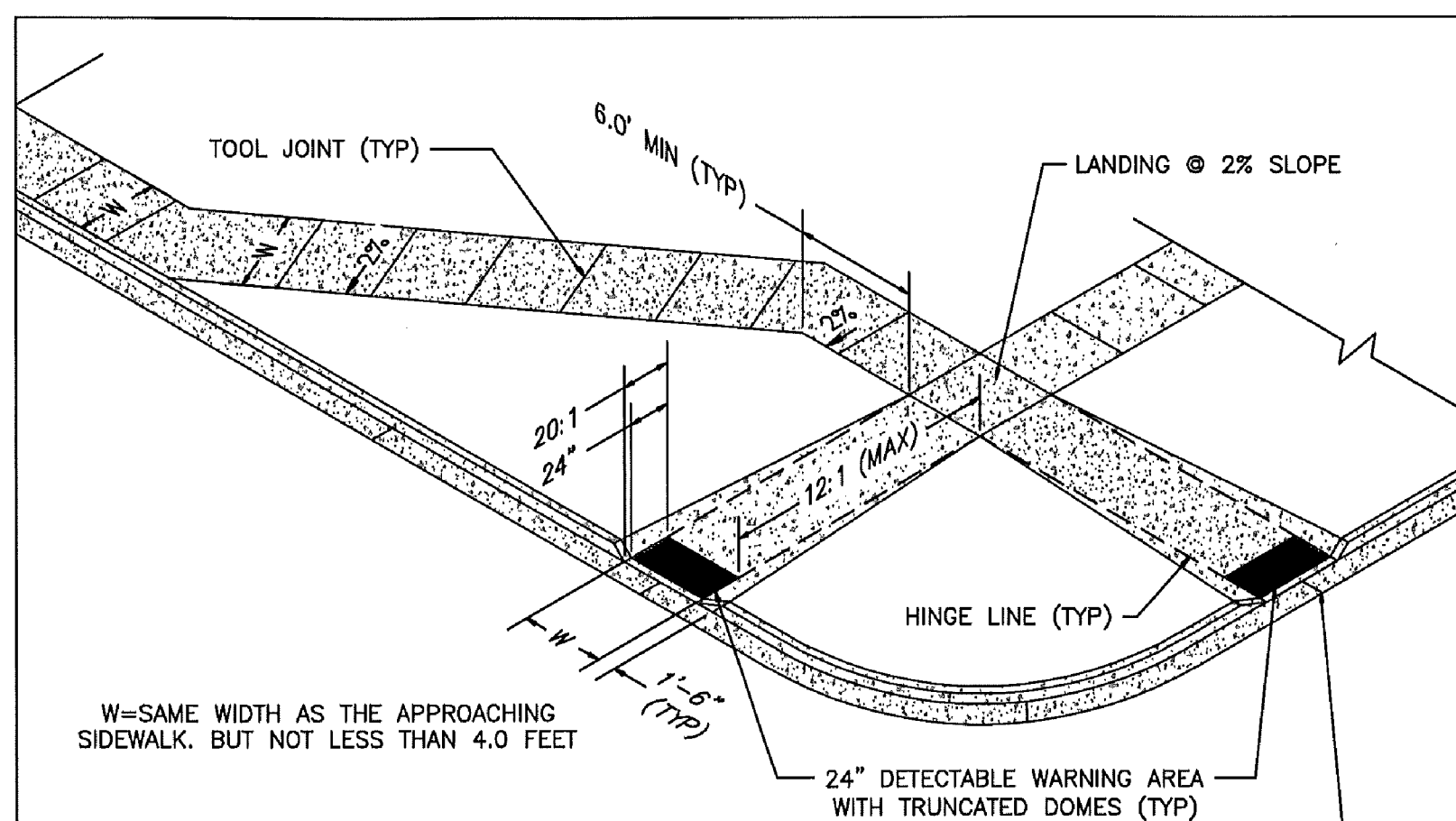
TYPICAL CROSSSPAN LAYOUT (ECM SD 2-26)

NO SCALE

NOTES

1. W = WIDTH SHALL BE 6' FOR LOCAL, 8' FOR COLLECTORS, 10' FOR ARTERIAL ROADS.
2. T = SQUARED-OFF RETURN TO BE POURED MONOLITHIC 8" PCC, OR 9" FOR COLLECTORS MINIMUM WITH 6x6 - 4,4 WWF OR #4 @ 18"E.W.
3. = 3" MINIMUM ASPHALT DEPTH (2 LIFTS).
4. DESIGN TO SPECIFY ELEVATIONS AT PI AND PCR.

CURB DETAILS (ECM SD 2-20)



W=SAME WIDTH AS THE APPROACHING SIDEWALK, BUT NOT LESS THAN 4.0 FEET

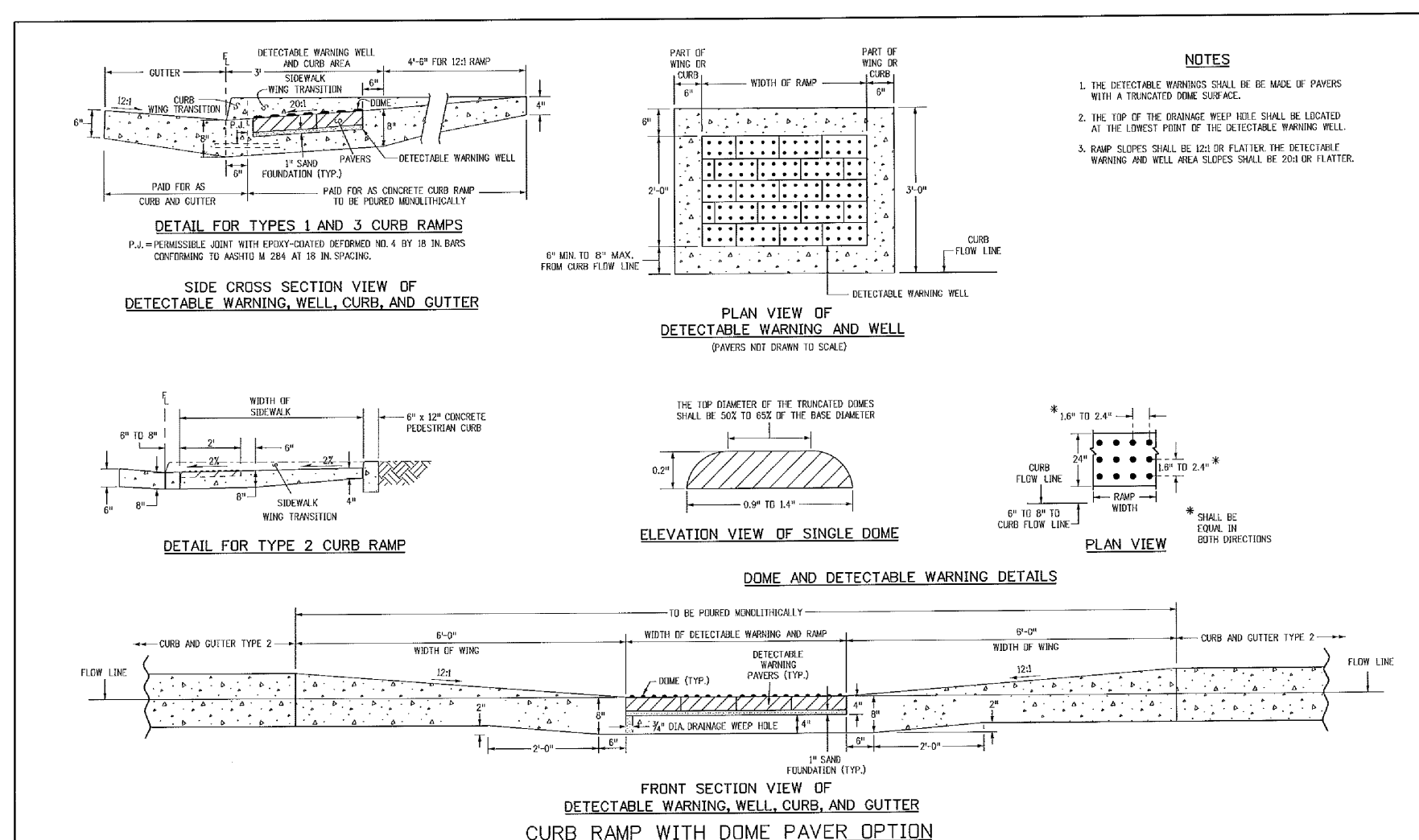
LAYOUT CURB SECTIONS SO THAT AT LEAST ONE TOOL JOINT IS WITHIN RAMP THROAT

PEDESTRIAN RAMP NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT ENGINEERING CRITERIA MANUAL AND ADA REQUIREMENTS.
2. CONTRACTOR TO NOTIFY ENGINEERING DIVISION INSPECTION STAFF 48 HOURS PRIOR TO CONCRETE PLACEMENT.
3. PEDESTRIAN RAMP CONSTRUCTION SHALL BE A MINIMUM 4,500 PSI CONCRETE, MINIMUM 4" THICK, NON-COLORED, NON-SCORED, COARSE BROOM FINISH.
4. RAMP LOCATION AND LENGTH MAY REQUIRE MODIFICATION TO MAINTAIN THE 12:1 MAXIMUM RUNNING RAMP SLOPE AND 20:1 DETECTABLE WARNING AREA DUE TO STREET INTERSECTION GRADES AND/OR ALIGNMENTS.
5. DETECTABLE WARNING AREA SHALL START A MINIMUM OF 6" BUT NOT MORE THAN 8" FROM THE FLOWLINE OF THE CURB AT ANY POINT.
6. DETECTABLE WARNING AREA SHALL BE PREFABRICATED REDDISH INTEGRALLY COLORED TRUNCATED-DOMES.
7. THE DETECTABLE WARNING AREA SHALL BE 24" IN LENGTH AND THE FULL WIDTH OF THE RAMP.
8. RAMP WIDTH REQUIRED IS SAME AS APPROACHING SIDEWALK; 4" MINIMUM.
9. ALL RAMPS WILL BE PERPENDICULAR TO TRAFFIC WITH THE EXCEPTION OF MID-BLOCK OR TERMINAL RAMPS WHICH MAY BE PARALLEL SUBJECT TO APPROVAL.
10. AVOID PLACING DRAINAGE STRUCTURES, TRAFFIC SIGNAL/SIGNAGE, UTILITIES/JUNCTION BOXES, OR OTHER OBSTRUCTIONS WITHIN PROPOSED RAMP AREAS.

GENERAL NOTES

1. WHERE THE 1'-6" FLARED SIDE(S) OF A PERPENDICULAR CURB RAMP IS (ARE) CONTIGUOUS WITH A PEDESTRIAN OR HARD SURFACE AREA, THE MAXIMUM FLARE SLOPE SHALL NOT EXCEED 10:1.
2. PEDESTRIAN WALKWAY AND/OR LOCATION OF EXISTING OR FUTURE PEDESTRIAN RAMPS ON OPPOSITE CORNERS SHALL BE REVIEWED BEFORE CONSTRUCTING NEW RAMPS.
3. AT MARKED PEDESTRIAN CROSSINGS, THE BOTTOM OF THE RAMPS, EXCLUSIVE OF THE FLARE SIDES, SHALL BE TOTALLY CONTAINED WITHIN THE MARKINGS.



TRUNCATED DOME DETAILS (ECM SD 2-42)

NO SCALE

| | | | |
|--|--|---------------------------------------|-----------------------------|
| Computer File Information | Sheet Revisions | Colorado Department of Transportation | STANDARD PLAN NO. |
| C:\projects\100.043\100.043.dwg User: [Name] Date: 1/18/11 Project: Pedestrian Intersection | 01: Initial Design 02: Final Design | Project Development Branch DD/LTA | M-608-1 Sheet No. 6 of 6 |

| | | |
|--|--|--|
| DATE APPROVED: 7/9/09 André P. Brackin DEPARTMENT OF TRANSPORTATION | Pedestrian Intersection Ramp Standard Drawing REVISION DATE: 1/18/11 FILE NAME: SD_2-41 | |
|--|--|--|

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EMAIL: rich@cegi.com

DATE: _____
DESCRIPTION: _____
NO. _____

PROJECT: **LORSON, LLC**
212 N. WAHSATCH AVE., SUITE 301
COLORADO SPRINGS, COLORADO 80903
CONTACT: JEFF MARK

DRAWN: RLS
DESIGNED: RLS
CHECKED: RLS

ROADWAY DETAIL SHEET

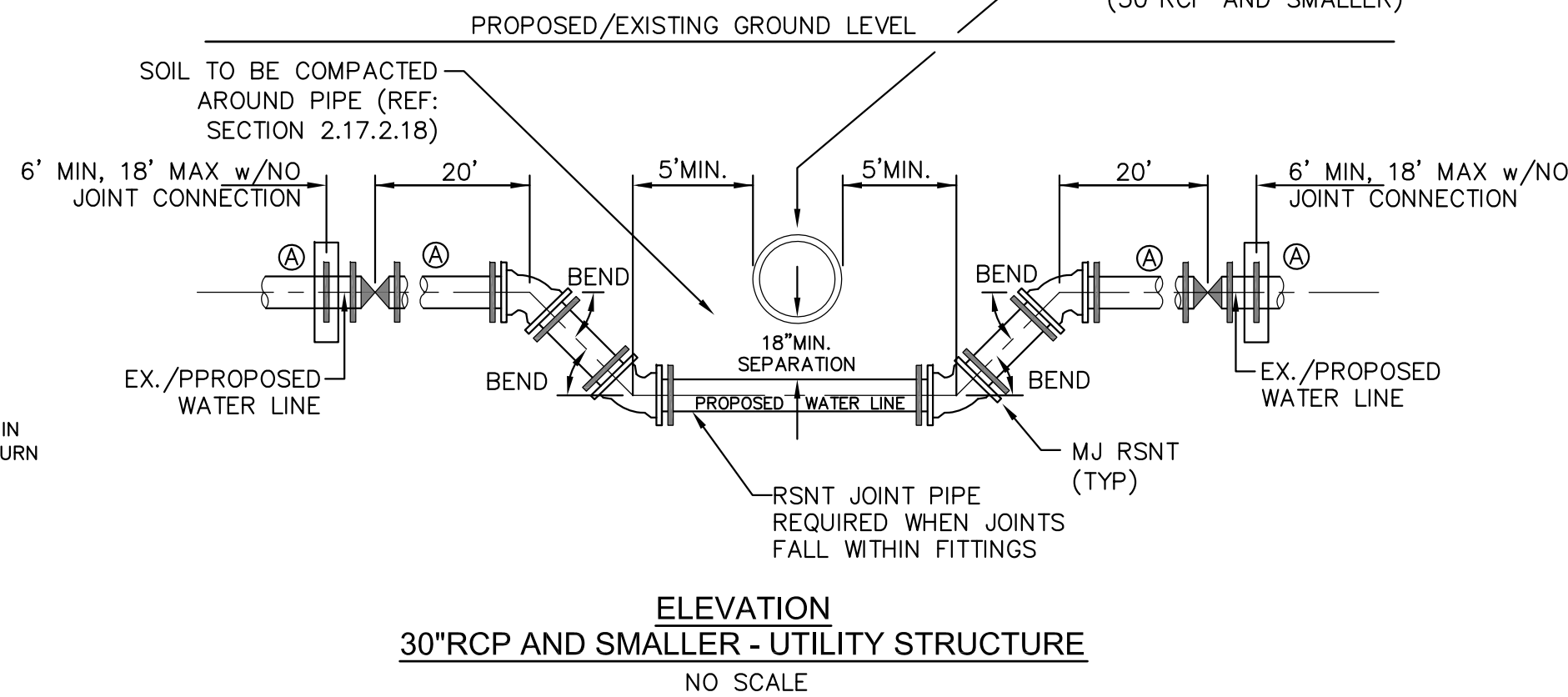
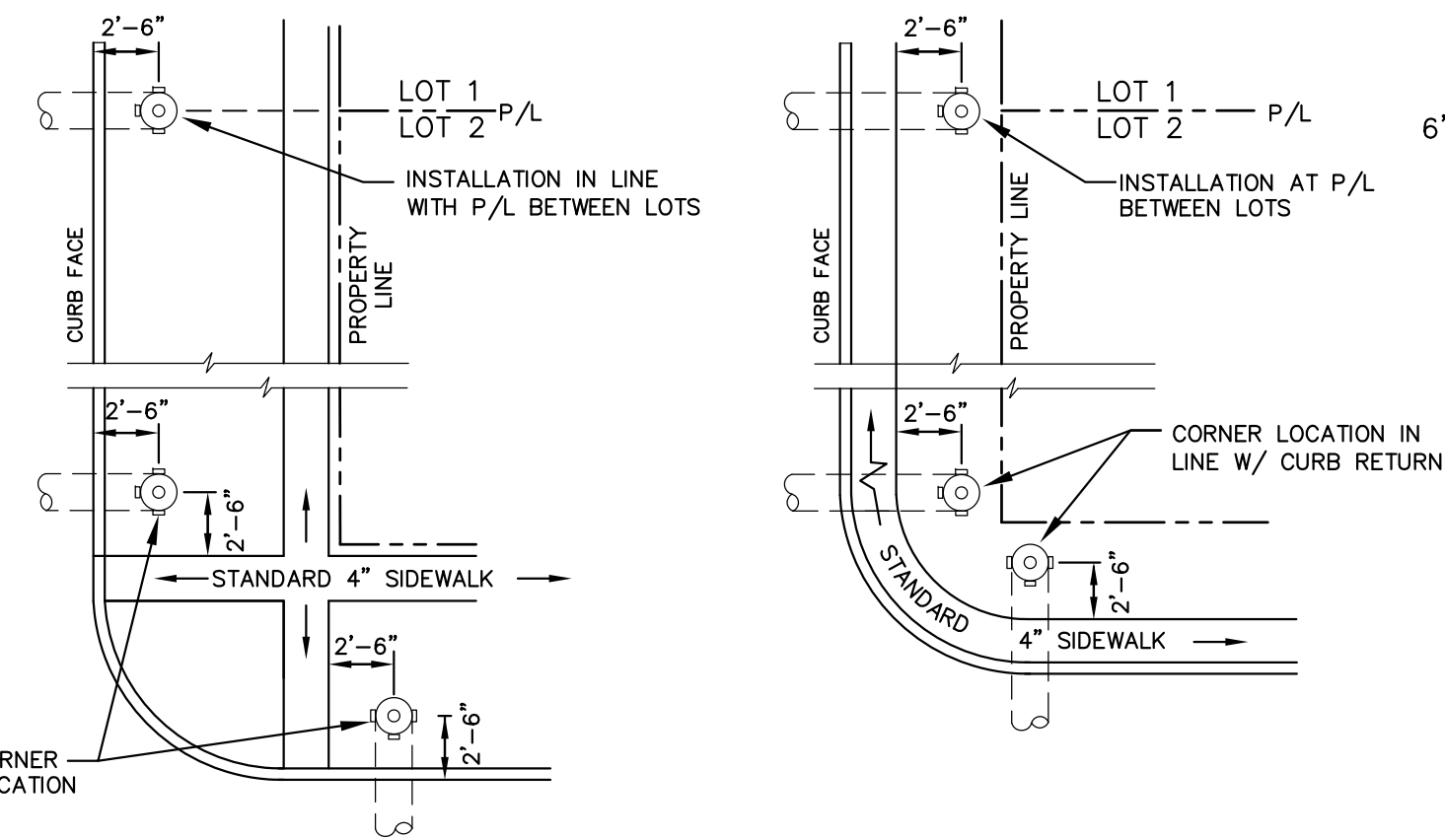
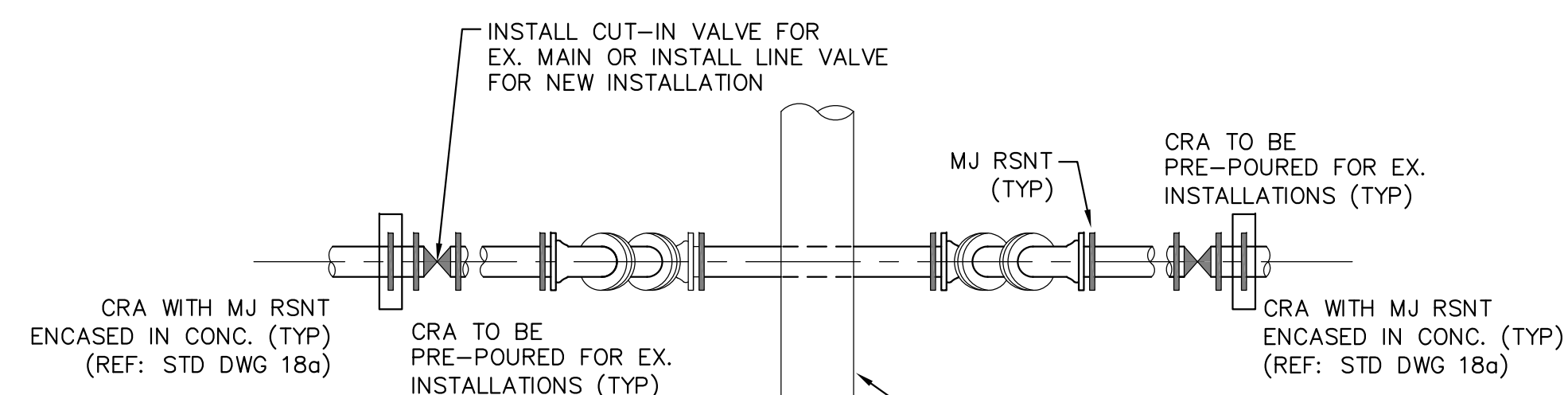
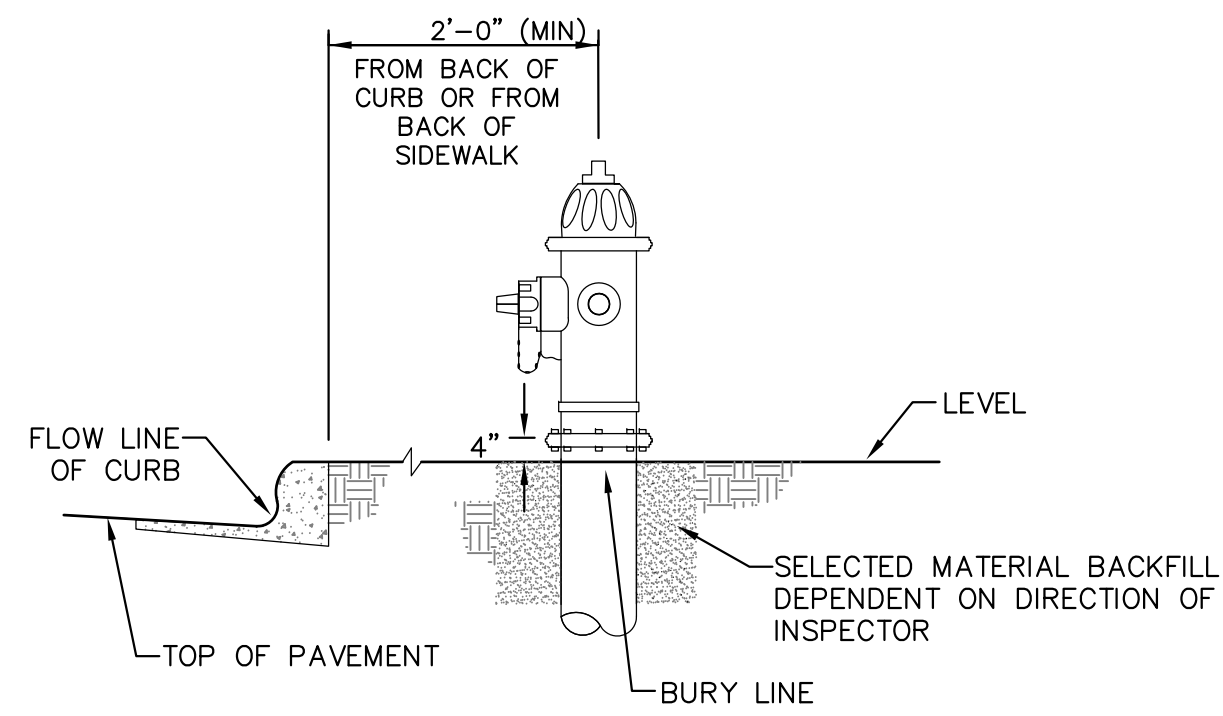


DATE: AUGUST 30, 2018

PROJECT NO. 100.043

SHEET NUMBER C10.1

TOTAL SHEETS: 14



ELEVATION
30"RCP AND SMALLER - UTILITY STRUCTURE
NO SCALE

GENERAL NOTES

1. D.I.P. PIPE REQUIRED IN LOWERINGS (AT THE DISCRETION OF THE WRD/INSPECTOR PVC PIPE MAYBE APPROVED).
2. (A) LOWERINGS TO BE CATHODIC PROTECTED UNDER THE DIRECTION OF THE WRD INSPECTOR. (17 lb).
3. ALL FITTINGS SHALL HAVE MJ RSNTS. SEE DRAWINGS NO. 27, 28 & SECTION 5.14 OF THE WRD SPECIFICATIONS.
4. EXAMPLE CAN VARY DUE TO SITE CONDITIONS AND INSPECTOR'S DIRECTION'S.

LOWERING DETAIL WITH MJ RSNT FITTINGS AND RSNT JOINT PIPE (w/APPROVAL OF W.R.D.)
(PER CSU STANDARD # 20a)
NO SCALE

DETACHED SIDEWALK LOCATION
NO SCALE

ATTACHED SIDEWALK LOCATION
NO SCALE

NOTE
ALL HYDRANTS SHALL BE GUARDIAN K-81D OR AVK SERIES 2700.

NOTES

1. HYDRANT NOZZLE SHALL BE POSITIONED AT RIGHT ANGLES TO CURB. IF NO CURB OR SIDEWALK EXIST, NOZZLE SHALL BE PLACED AT RIGHT ANGLE TO STREET OR ALLEY.
2. HYDRANTS WILL BE PLACED A MINIMUM OF 5.0 FEET FROM ANY UTILITY OR DRAINAGE STRUCTURE (TO BE CO-ORDINATED WITH JOINT TRENCH INSTALLATION)
3. ANY HYDRANT BEING INSTALLED WITH CONDITIONS OTHER THAN THOSE MENTIONED AND/OR DETAILED BELOW WILL REQUIRE SIGNED APPROVAL FROM SECURITY FIRE PROTECTION DISTRICT.

FIRE HYDRANT LOCATIONS
NO SCALE

CORE ENGINEERING GROUP
15004 1ST AVENUE S.
BURNSVILLE, MN 55306
PH: 719.970.1100
CONTACT: RICHARD L. SCHINDLER, P.E.
EMAIL: rich@cegi.com

| NO. | DESCRIPTION | DATE |
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PREPARED FOR: **LORSON, LLC**
212 N. WAHSAATCH AVE, SUITE 301
COLORADO SPRINGS, COLORADO 80903
CONTACT: JEFF MARK

PROJECT: **LORSON BLVD**
LORSON BLVD-OLD GLORY DR
COLORADO SPRINGS, COLORADO

DRAWN: RLS
DESIGNED: RLS
CHECKED: RLS

LORSON BOULEVARD WATERMAIN DETAILS



DATE:
AUGUST 30, 2018

PROJECT NO.
100.043

SHEET NUMBER
C12.1

TOTAL SHEETS: 14