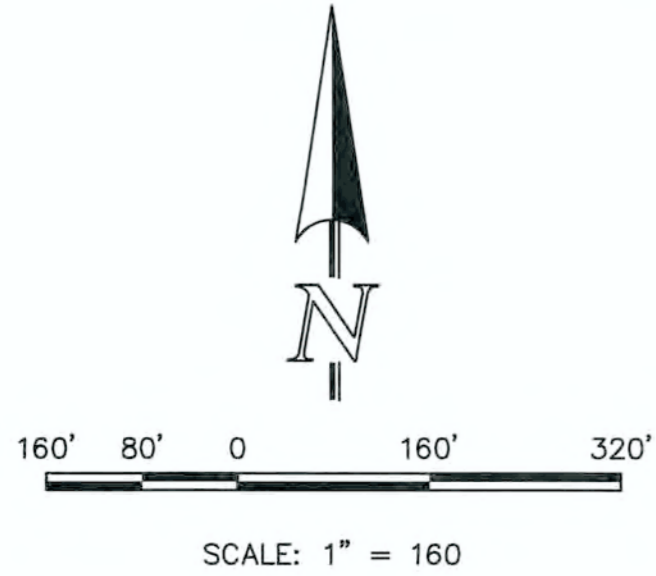


KEY MAP
SCALE: 1" = 160'



48 HOURS BEFORE YOU DIG,
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UTILITY NOTIFICATION CENTER OF COLORADO
IT'S THE LAW

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| NO. | REVISION | DATE |
|-----|--------------------------|---------|
| 1 | REVISED PER EPC COMMENTS | 8-21-19 |
| | | |
| | | |
| | | |

REVIEW:
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF
CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

Kyle R. Campbell
KYLE R. CAMPBELL, COLORADO P.E. #29794

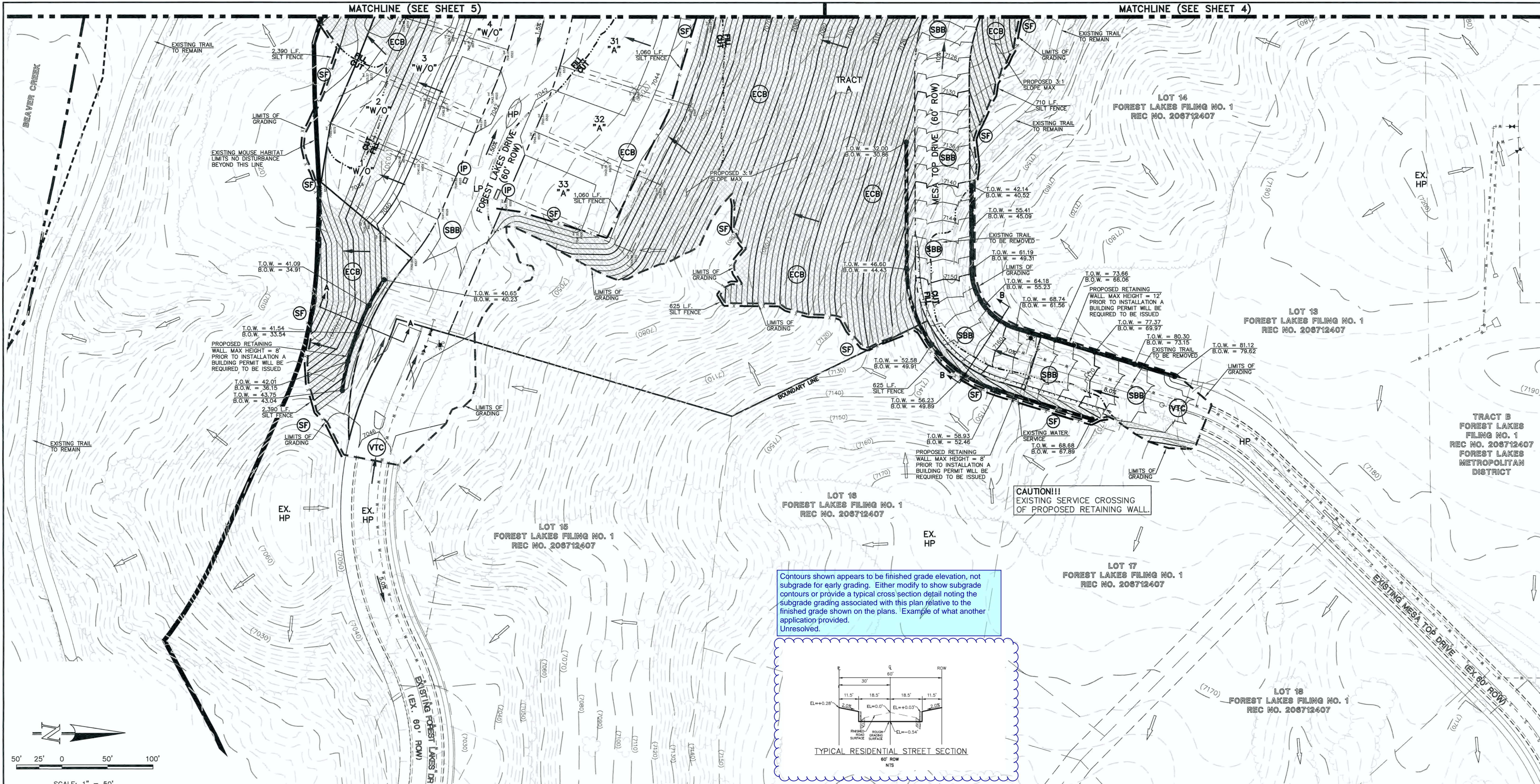
DATE: 8/30/19

CLASSIC CONSULTING
619 N. Cascade Avenue, Suite 200
Colorado Springs, Colorado 80903
(719) 785-0790
(719) 785-0799 (fax)

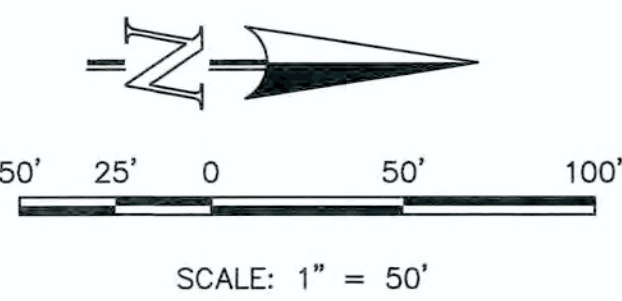
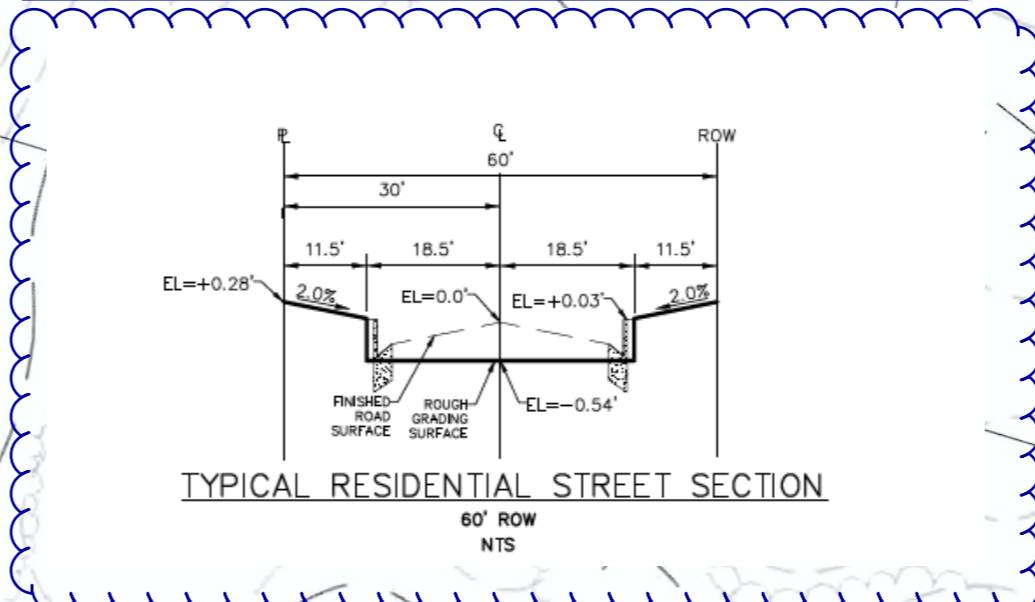
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|---|--------------|---------------|---------------|
| FOREST LAKES FILING NO. 5, 6 & 7 GRADING INDEX REFERENCE SHEET | | | |
| PRE-DEVELOPMENT GRADING AND EROSION CONTROL PLAN | | | |
| DESIGNED BY | MAL | SCALE | DATE 05/21/19 |
| DRAWN BY | BB | (H) 1" = 160' | SHEET 2 OF 13 |
| CHECKED BY | (V) 1" = N/A | JOB NO. | 1175.50 |



N:\117550.DRAWINGS\CONSTRUCTION\EARLY GRADING\117550_Gr-02.dwg, 8/30/2019, 2:32:20 PM, L1

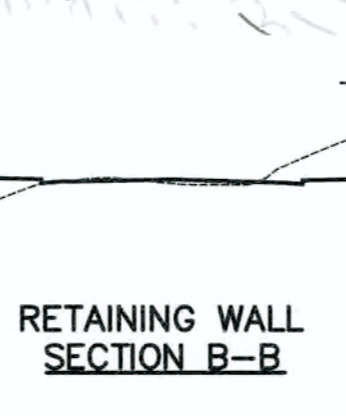
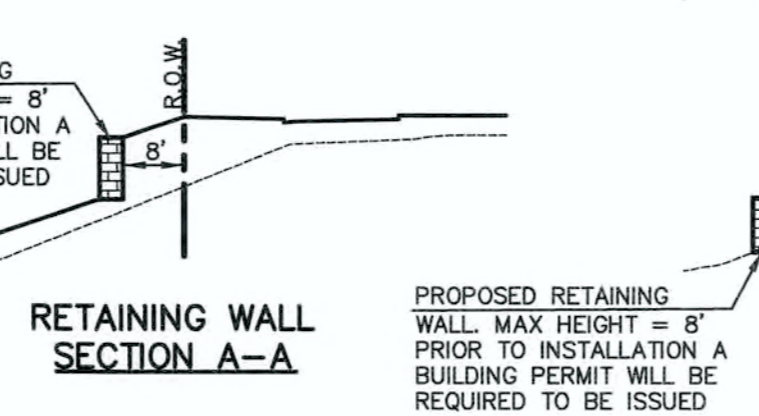


Contours shown appears to be finished grade elevation, not subgrade for early grading. Either modify to show subgrade contours or provide a typical cross section detail noting the subgrade grading associated with this plan relative to the finished grade shown on the plans. Example of what another application provided. Unresolved.



LEGEND

- (7700) --- EXISTING CONTOUR
- 7700 --- PROPOSED CONTOUR
- PROPOSED LIMITS OF GRADING
- BOUNDARY/R.O.W. LINE
- EXISTING FLOW DIRECTION
- PROPOSED FLOW
- "A" A LOT
- "B" B LOT
- "W/O" WALKOUT LOT
- "T" TRANSITION LOT
- "G" GARDEN LOT
- PROPOSED INLET
- PROPOSED STORM SEWER PIPE
- HP PROPOSED HIGH POINT
- LP PROPOSED LOW POINT
- TW = XX.XX
--- BW = XX.XX
- (TSB) TEMPORARY SEDIMENT BASIN
- (SF) SILT FENCE
- (SBB) STRAW BALE CHECK DAM
- (IP) INLET PROTECTION
- (VTC) VEHICLE TRACKING CONTROL
- (ECB) EROSION CONTROL BLANKET
- (X) EXISTING VEGETATION



NOTE:
SEE SHEET 08 FOR LOT TEMPLATES
SEE SHEET 12 FOR EROSION CONTROL DETAILS

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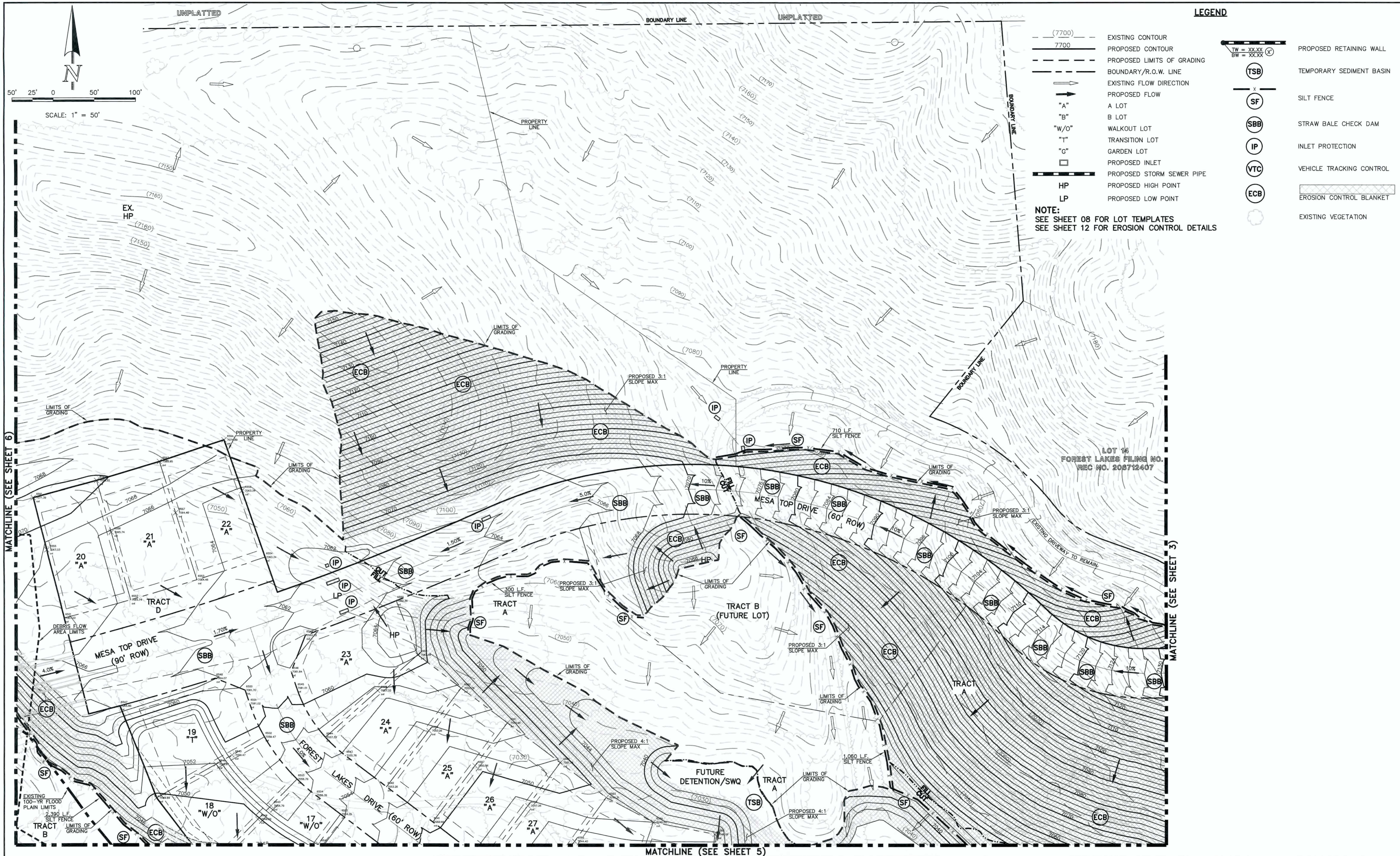
Tom R. Campbell
KYLE R. CAMPBELL, COLORADO, P.E. #29794

DATE: 8/21/19

619 N. Cascade Avenue, Suite 200
Colorado Springs, Colorado 80903

(719) 785-0790
(719) 785-0798(Fax)

| FOREST LAKES FILING NO. 5, 6 & 7 | | | |
|--|--------------|--------------|---------------|
| PRE-DEVELOPMENT GRADING AND EROSION CONTROL PLAN | | | |
| DESIGNED BY | MAL | SCALE | DATE 05/21/19 |
| DRAWN BY | BB | (H) 1" = 50' | SHEET 3 OF 13 |
| CHECKED BY | (V) 1" = N/A | JOB NO. | 1175.50 |



- LEGEND**
- (7700) --- EXISTING CONTOUR
 - 7700 --- PROPOSED CONTOUR
 - PROPOSED LIMITS OF GRADING
 - BOUNDARY/R.O.W. LINE
 - EXISTING FLOW DIRECTION
 - PROPOSED FLOW
 - "A" --- A LOT
 - "B" --- B LOT
 - "W/O" --- WALKOUT LOT
 - "T" --- TRANSITION LOT
 - "G" --- GARDEN LOT
 - --- PROPOSED INLET
 - PROPOSED STORM SEWER PIPE
 - HP --- PROPOSED HIGH POINT
 - LP --- PROPOSED LOW POINT
 - TW = XX.XX (X) --- PROPOSED RETAINING WALL
 - BW = XX.XX (X) --- TEMPORARY SEDIMENT BASIN
 - (TSB) --- TEMPORARY SEDIMENT BASIN
 - (SF) --- SILT FENCE
 - (SBB) --- STRAW BALE CHECK DAM
 - (IP) --- INLET PROTECTION
 - (VTC) --- VEHICLE TRACKING CONTROL
 - (ECB) --- EROSION CONTROL BLANKET
 - --- EXISTING VEGETATION

NOTE:
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 SEE SHEET 12 FOR EROSION CONTROL DETAILS

50' 25' 0 50' 100'
 SCALE: 1" = 50'

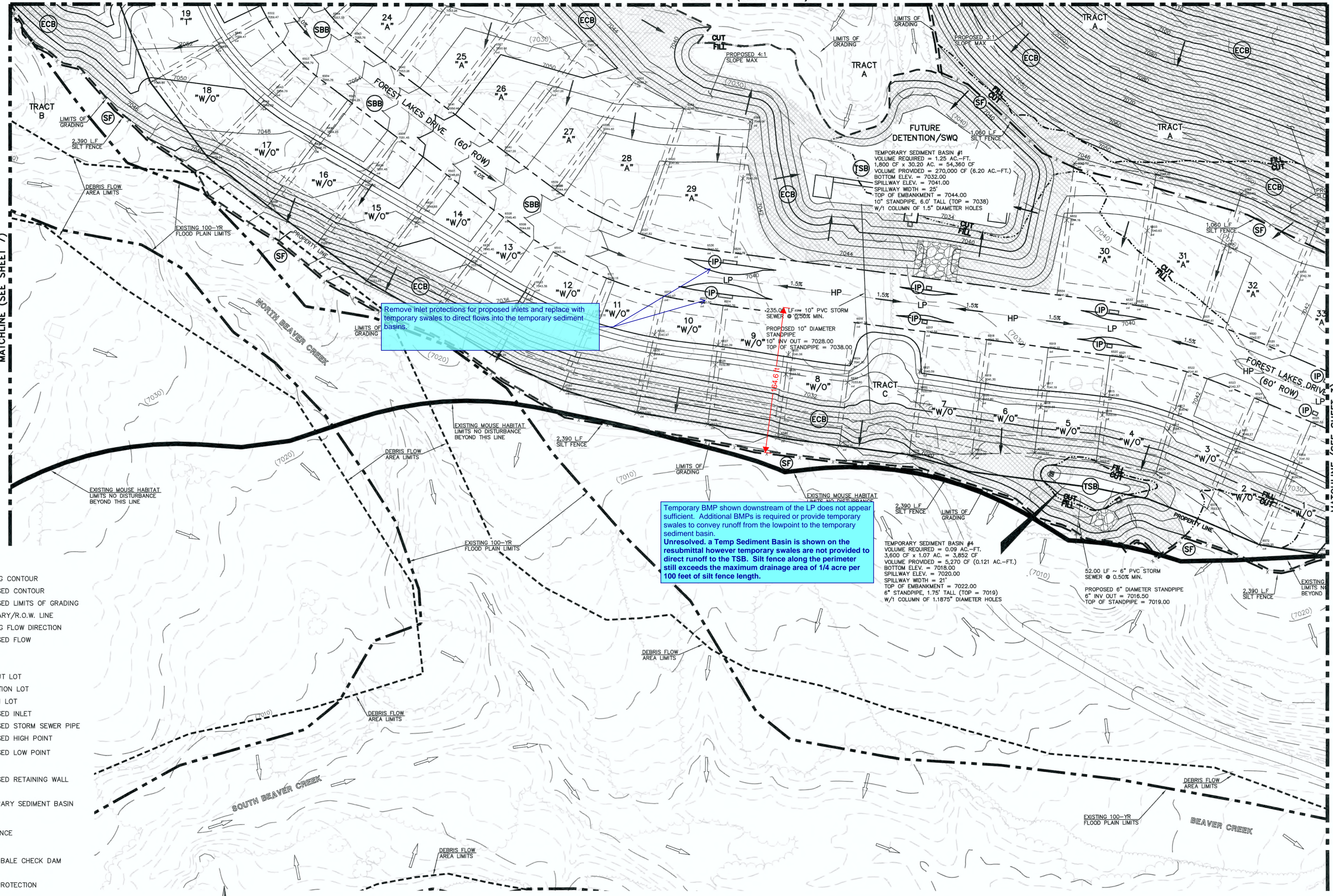
MATCHLINE (SEE SHEET 6)

MATCHLINE (SEE SHEET 3)

MATCHLINE (SEE SHEET 5)

| <p>48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS 811 UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW</p> <p>THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.</p> | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>REVISION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>REVISED PER EPC COMMENTS</td> <td>8-21-19</td> </tr> </tbody> </table> | NO. | REVISION | DATE | 1 | REVISED PER EPC COMMENTS | 8-21-19 | <p>REVIEW:</p> <p>PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC</p> <p><i>[Signature]</i> 8/21/19 KYEE R. CAMPBELL, COLORADO P.E. #29794</p> | | <p>FOREST LAKES FILING NO. 5, 6 & 7</p> <p>PRE-DEVELOPMENT GRADING AND EROSION CONTROL PLAN</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DESIGNED BY</td> <td>MAL</td> <td>SCALE</td> <td>DATE</td> <td>05/21/19</td> </tr> <tr> <td>DRAWN BY</td> <td>BB</td> <td>(H) 1" = 50'</td> <td>SHEET</td> <td>4 OF 13</td> </tr> <tr> <td>CHECKED BY</td> <td>(V) 1" = N/A</td> <td>JOB NO.</td> <td colspan="2">1175.50</td> </tr> </table> | DESIGNED BY | MAL | SCALE | DATE | 05/21/19 | DRAWN BY | BB | (H) 1" = 50' | SHEET | 4 OF 13 | CHECKED BY | (V) 1" = N/A | JOB NO. | 1175.50 | |
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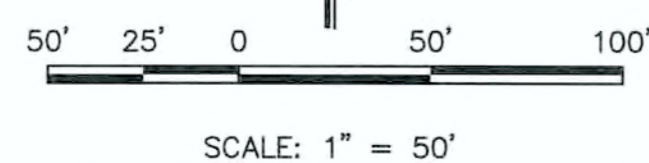
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LEGEND

- (7700) EXISTING CONTOUR
- 7700 PROPOSED CONTOUR
- PROPOSED LIMITS OF GRADING
- BOUNDARY/R.O.W. LINE
- EXISTING FLOW DIRECTION
- PROPOSED FLOW
- "A" A LOT
- "B" B LOT
- "W/O" WALKOUT LOT
- "T" TRANSITION LOT
- "G" GARDEN LOT
- PROPOSED INLET
- PROPOSED STORM SEWER PIPE
- HP PROPOSED HIGH POINT
- LP PROPOSED LOW POINT
- PROPOSED RETAINING WALL
- TSB TEMPORARY SEDIMENT BASIN
- SF SILT FENCE
- SBB STRAW BALE CHECK DAM
- IP INLET PROTECTION
- VTC VEHICLE TRACKING CONTROL
- ECB EROSION CONTROL BLANKET
- EXISTING VEGETATION

NOTE:
SEE SHEET 08 FOR LOT TEMPLATES
SEE SHEET 12 FOR EROSION CONTROL DETAILS



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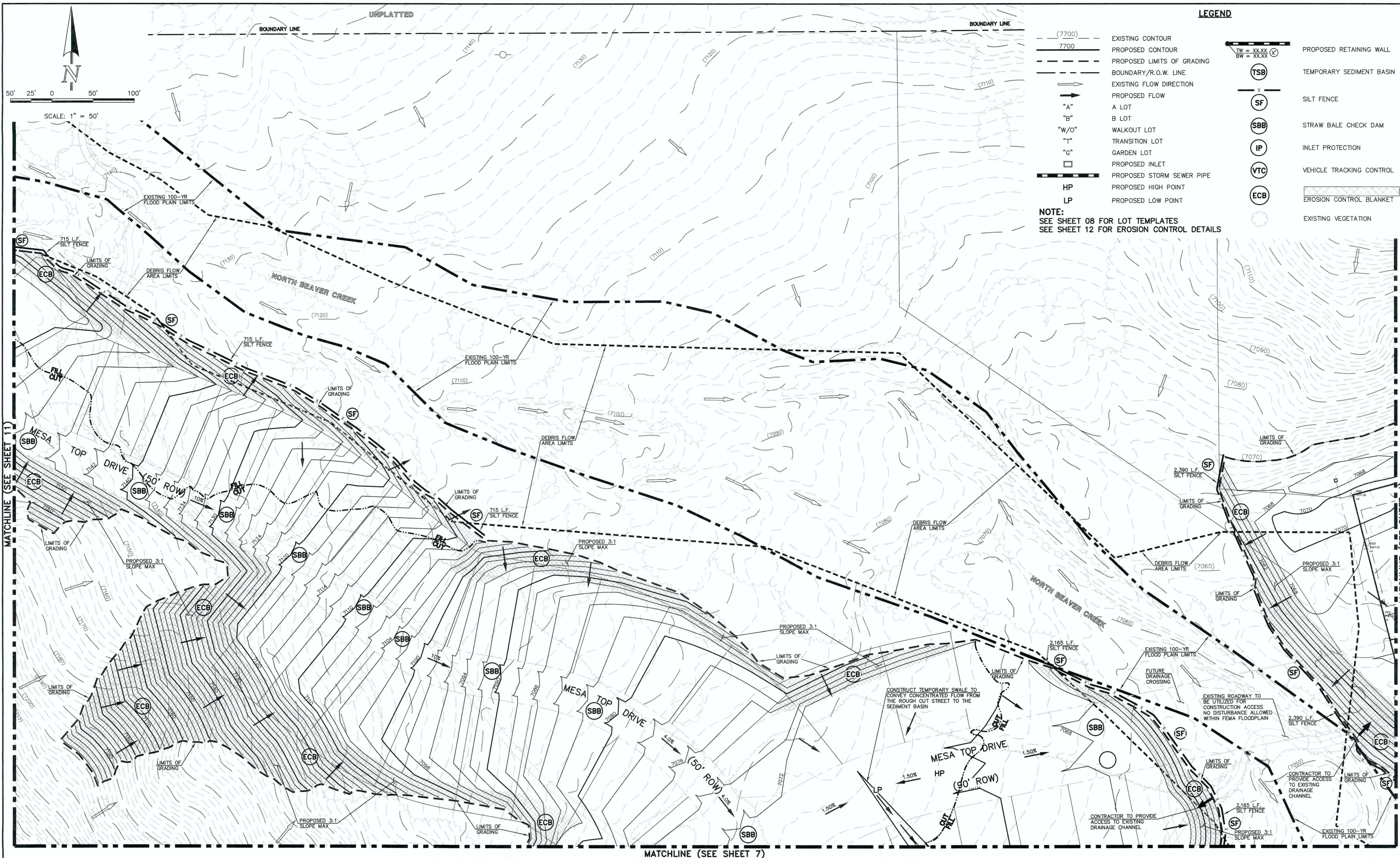
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DATE

619 N. Cascade Avenue, Suite 200
Colorado Springs, Colorado 80903
(719)785-0790
(719)785-0799(Fax)

FOREST LAKES FILING NO. 5, 6 & 7

PRE-DEVELOPMENT GRADING AND EROSION CONTROL PLAN

| | | | | |
|-------------|--------------|--------------|---------|----------|
| DESIGNED BY | MAL | SCALE | DATE | 05/21/19 |
| DRAWN BY | BB | (H) 1" = 50' | SHEET | 5 OF 13 |
| CHECKED BY | (V) 1" = N/A | JOB NO. | 1175.50 | |



LEGEND

- (---) (7700) EXISTING CONTOUR
- (---) 7700 PROPOSED CONTOUR
- (---) PROPOSED LIMITS OF GRADING
- (---) BOUNDARY/R.O.W. LINE
- (---) EXISTING FLOW DIRECTION
- (---) PROPOSED FLOW
- (---) "A" A LOT
- (---) "B" B LOT
- (---) "W/O" WALKOUT LOT
- (---) "T" TRANSITION LOT
- (---) "G" GARDEN LOT
- (---) PROPOSED INLET
- (---) PROPOSED STORM SEWER PIPE
- (---) HP PROPOSED HIGH POINT
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- (ECB) EROSION CONTROL BLANKET
- (---) EXISTING VEGETATION

NOTE:
 SEE SHEET 08 FOR LOT TEMPLATES
 SEE SHEET 12 FOR EROSION CONTROL DETAILS

SCALE: 1" = 50'

MATCHLINE (SEE SHEET 1)

MATCHLINE (SEE SHEET 4)

MATCHLINE (SEE SHEET 7)

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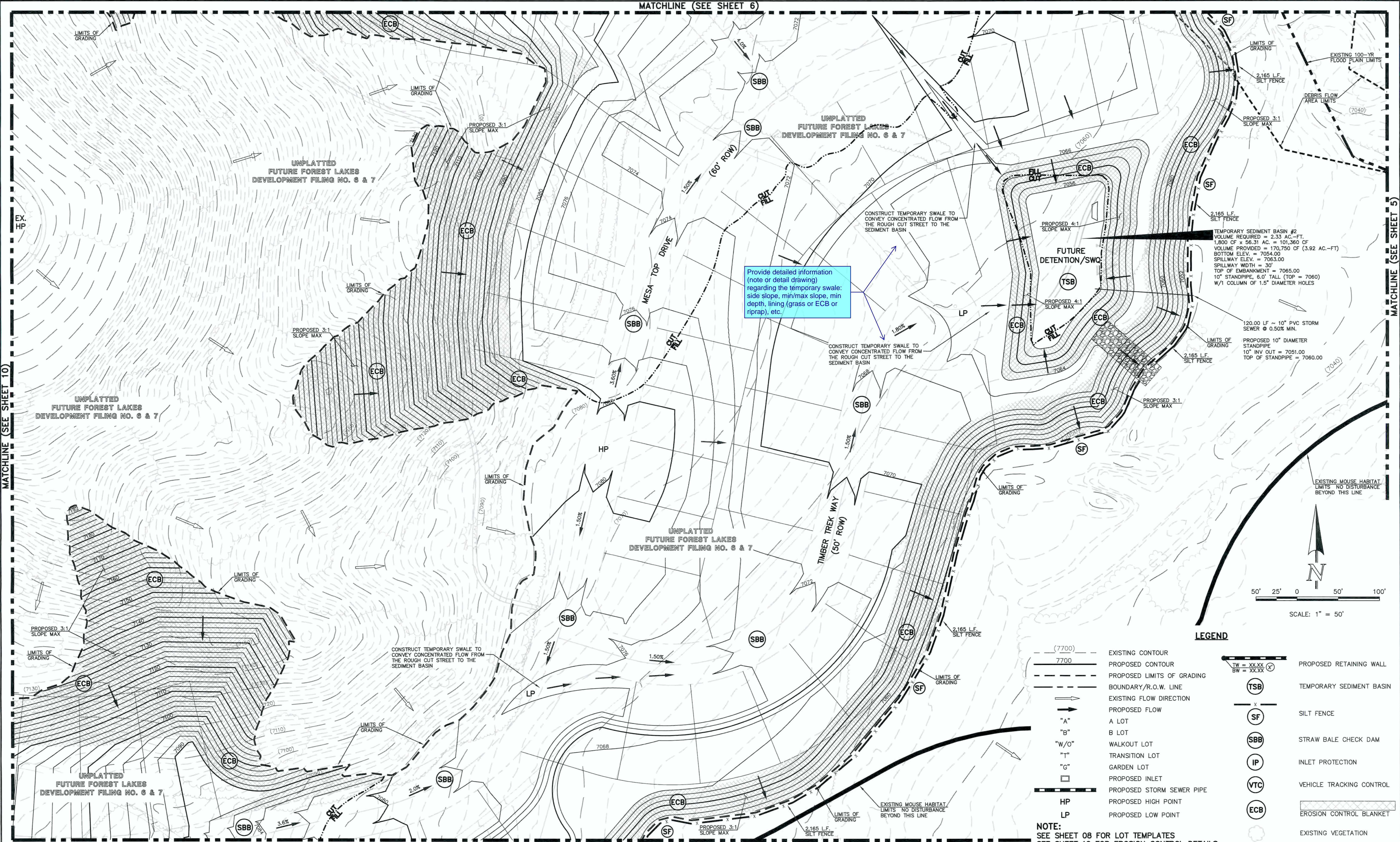
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MATCHLINE (SEE SHEET 6)

MATCHLINE (SEE SHEET 10)

MATCHLINE (SEE SHEET 5)

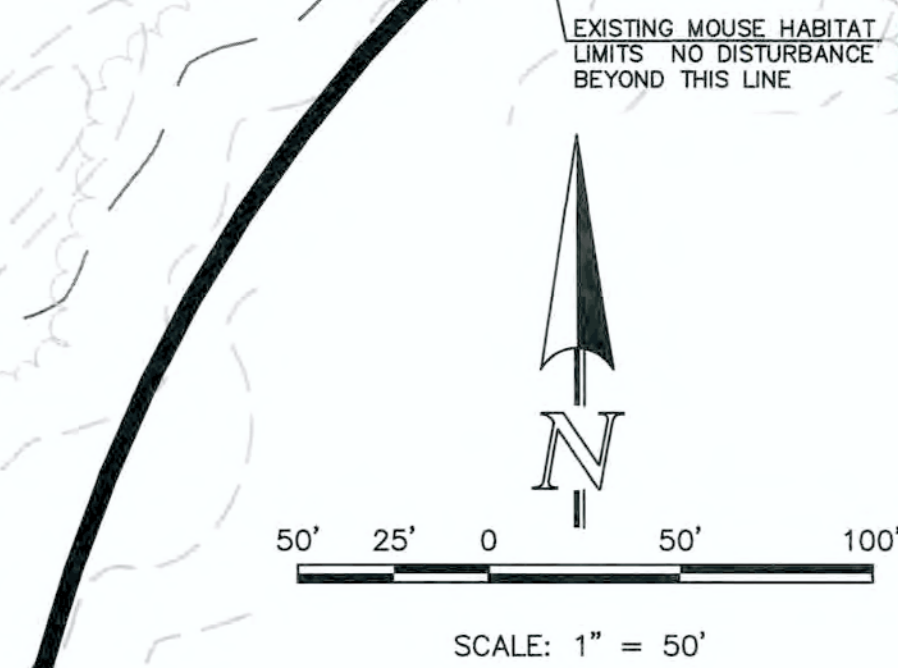
MATCHLINE (SEE SHEET 8)



Provide detailed information (note or detail drawing) regarding the temporary swale: side slope, min/max slope, min depth, lining (grass or ECB or riprap), etc.

TEMPORARY SEDIMENT BASIN #2
 VOLUME REQUIRED = 2.33 AC.-FT.
 1,800 CF x 56.31 AC. = 101,360 CF
 BOTTOM ELEV. = 7054.00
 VOLUME PROVIDED = 170,750 CF (3.92 AC.-FT)
 SPILLWAY ELEV. = 7063.00
 SPILLWAY WIDTH = 30'
 TOP OF EMBANKMENT = 7065.00
 10" STANDPIPE, 6.0' TALL (TOP = 7060)
 W/1 COLUMN OF 1.5" DIAMETER HOLES

120.00 LF ~ 10" PVC STORM SEWER @ 0.50% MIN.
 PROPOSED 10" DIAMETER STANDPIPE
 10" INV OUT = 7051.00
 TOP OF STANDPIPE = 7060.00



LEGEND

- (7700) EXISTING CONTOUR
- 7700 PROPOSED CONTOUR
- PROPOSED LIMITS OF GRADING
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- PROPOSED INLET
- PROPOSED STORM SEWER PIPE
- HP PROPOSED HIGH POINT
- LP PROPOSED LOW POINT
- TW = XXXX
BW = XXXX PROPOSED RETAINING WALL
- (TSB) TEMPORARY SEDIMENT BASIN
- (SF) SILT FENCE
- (SBB) STRAW BALE CHECK DAM
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- EXISTING VEGETATION

NOTE:
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 SEE SHEET 12 FOR EROSION CONTROL DETAILS

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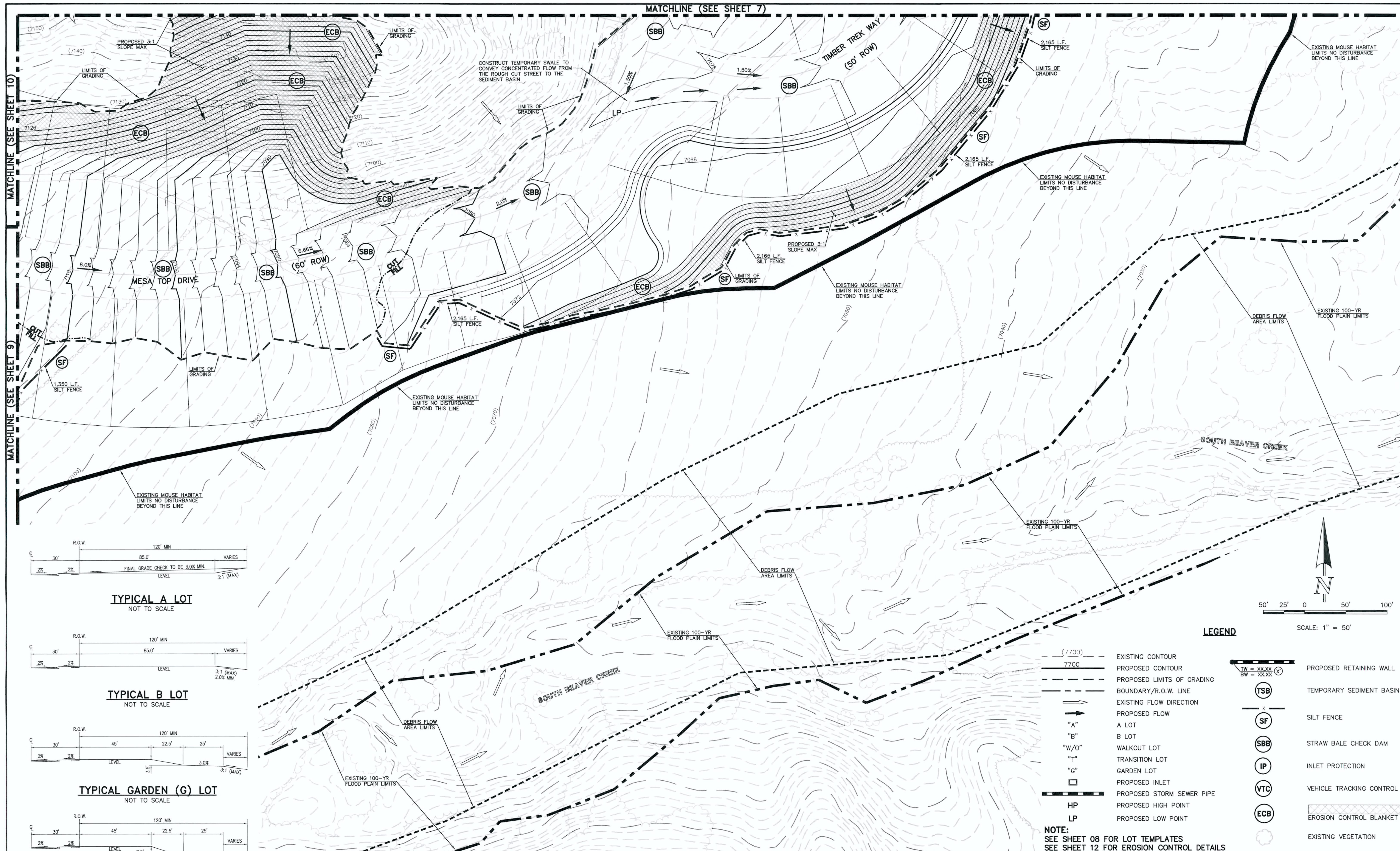
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8/23/19
 DATE

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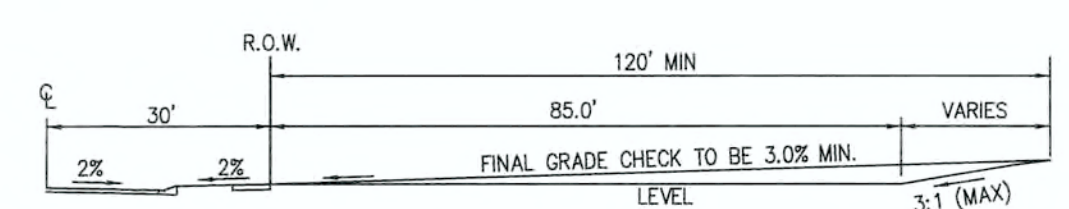
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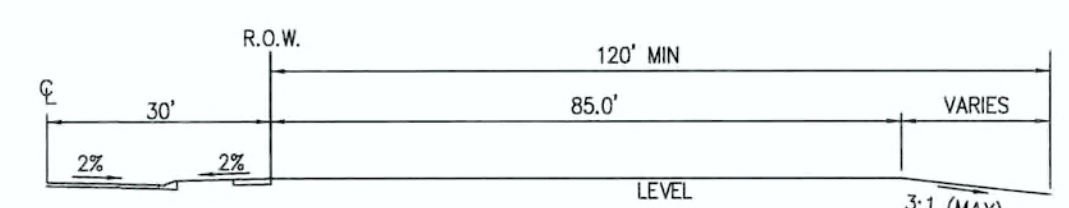
MATCHLINE (SEE SHEET 9)

MATCHLINE (SEE SHEET 10)

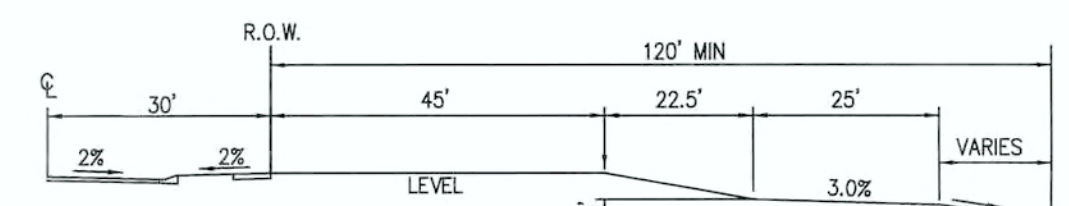
MATCHLINE (SEE SHEET 7)



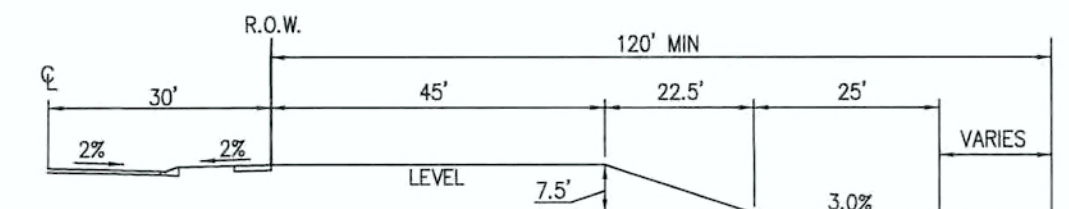
TYPICAL A LOT
NOT TO SCALE



TYPICAL B LOT
NOT TO SCALE



TYPICAL GARDEN (G) LOT
NOT TO SCALE



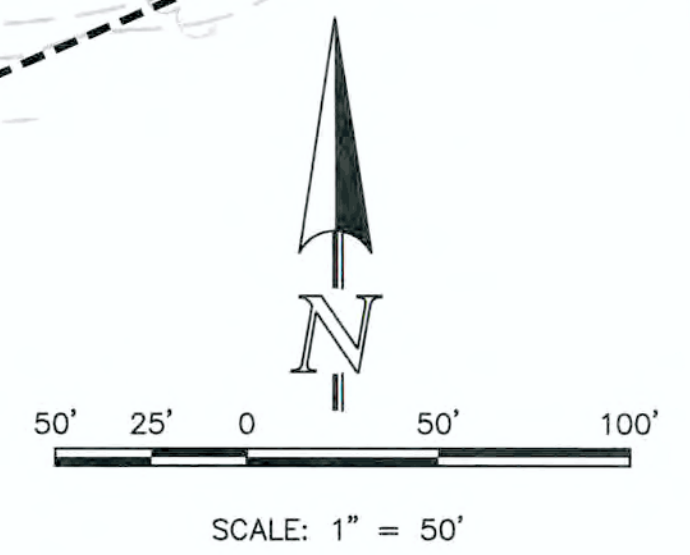
TYPICAL WALKOUT (W/O) LOT
NOT TO SCALE

NOTE:
"T" LOTS OR "TRANSITION" LOTS OCCUR IN PLACES WHERE BOTH PROPERTY LINES CANNOT BE GRADED AS THE TYPICAL STANDARD LOT TEMPLATES SHOWN. THESE LOTS WILL STILL BE GRADED TO CREATE POSITIVE DRAINAGE AWAY FROM THE STRUCTURE.

LEGEND

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- 7700 --- PROPOSED CONTOUR
- PROPOSED LIMITS OF GRADING
- BOUNDARY/R.O.W. LINE
- EXISTING FLOW DIRECTION
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SEE SHEET 12 FOR EROSION CONTROL DETAILS



| <p>48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS 811 UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW</p> <p>THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.</p> | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>REVISION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>REVISED PER EPC COMMENTS</td> <td>8-21-19</td> </tr> </tbody> </table> | NO. | REVISION | DATE | 1 | REVISED PER EPC COMMENTS | 8-21-19 | <p>REVIEW:</p> <p>PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC</p> <p style="text-align: center;"> KYLE R. CAMPBELL, COLORADO P.E. #23794 </p> | <div style="text-align: center;"> CLASSIC CONSULTING </div> <p>619 N. Cascade Avenue, Suite 200 Colorado Springs, Colorado 80903</p> <p>(719) 785-0790 (719) 785-0799 (Fax)</p> | <p>FOREST LAKES FILING NO. 5, 6 & 7</p> <p>PRE-DEVELOPMENT GRADING AND EROSION CONTROL PLAN</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DESIGNED BY</td> <td>MAL</td> <td>SCALE</td> <td>DATE</td> <td>05/21/19</td> </tr> <tr> <td>DRAWN BY</td> <td>BB</td> <td>(H) 1" = 50'</td> <td colspan="2">SHEET 8 OF 13</td> </tr> <tr> <td>CHECKED BY</td> <td>(V) 1" = N/A</td> <td colspan="3">JOB NO. 1175.50</td> </tr> </table> | DESIGNED BY | MAL | SCALE | DATE | 05/21/19 | DRAWN BY | BB | (H) 1" = 50' | SHEET 8 OF 13 | | CHECKED BY | (V) 1" = N/A | JOB NO. 1175.50 | | |
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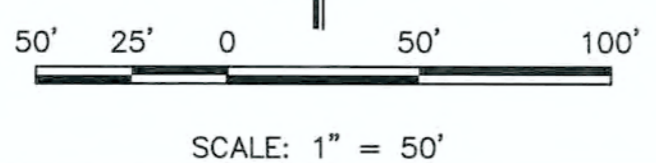
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Provide detailed information (note or detail drawing) regarding the temporary swale: side slope, min/max slope, min depth, lining (grass or ECB or riprap), etc.

LEGEND

- (7700) --- EXISTING CONTOUR
- 7700 --- PROPOSED CONTOUR
- PROPOSED LIMITS OF GRADING
- BOUNDARY/R.O.W. LINE
- EXISTING FLOW DIRECTION
- PROPOSED FLOW
- "A" A LOT
- "B" B LOT
- "W/O" WALKOUT LOT
- "T" TRANSITION LOT
- "G" GARDEN LOT
- PROPOSED INLET
- PROPOSED STORM SEWER PIPE
- HP PROPOSED HIGH POINT
- LP PROPOSED LOW POINT
- TW = XX.XX
BW = XX.XX PROPOSED RETAINING WALL
- (TSB) TEMPORARY SEDIMENT BASIN
- (SF) SILT FENCE
- (SBB) STRAW BALE CHECK DAM
- (IP) INLET PROTECTION
- (VTC) VEHICLE TRACKING CONTROL
- (ECB) EROSION CONTROL BLANKET
- EXISTING VEGETATION

NOTE: SEE SHEET 08 FOR LOT TEMPLATES
SEE SHEET 12 FOR EROSION CONTROL DETAILS



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| | | |
| | | |
| | | |

REVIEW:

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF
CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

Kyle R. Campbell
KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE

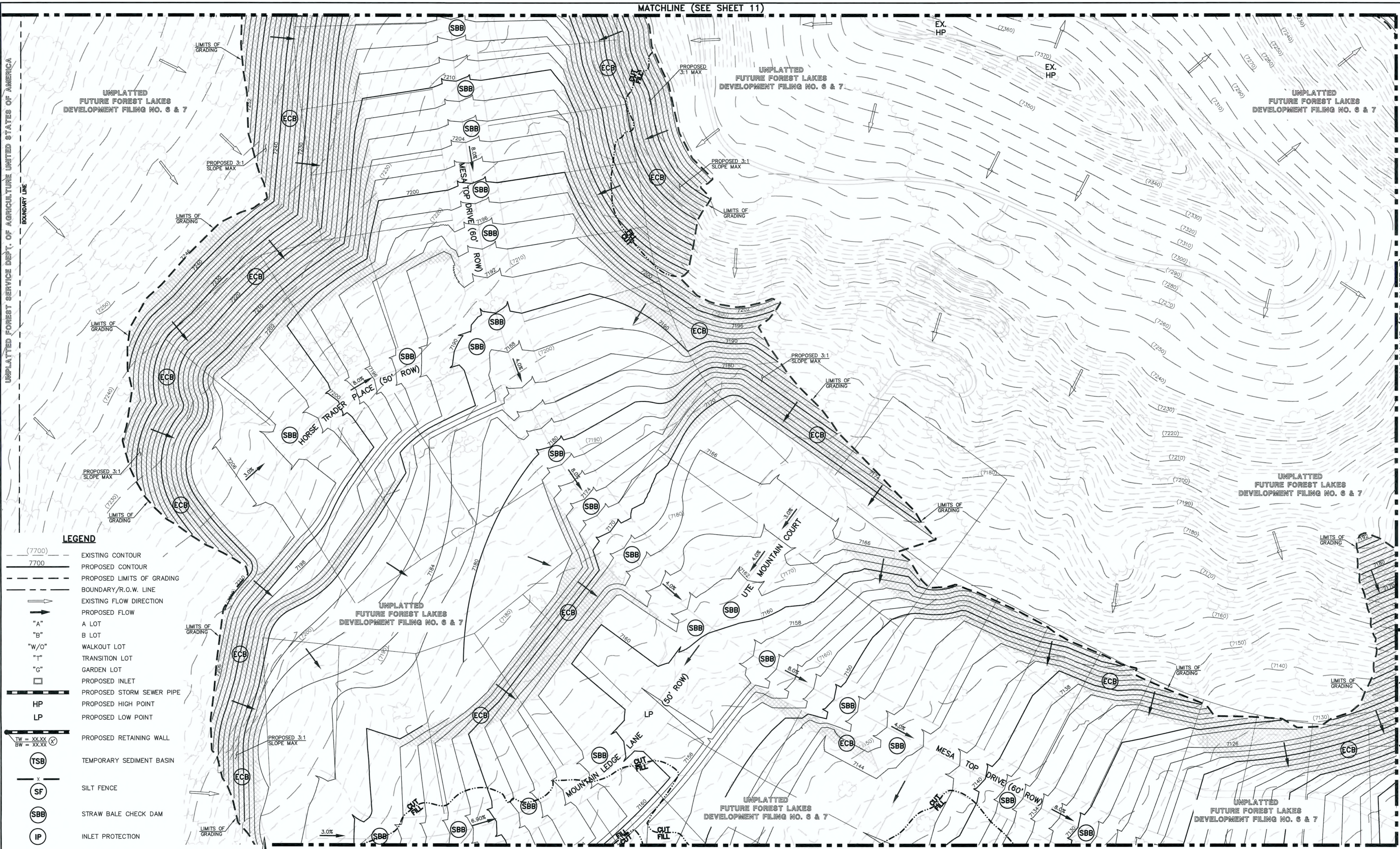
CLASSIC CONSULTING
619 N. Cascade Avenue, Suite 200 (719)785-0790
Colorado Springs, Colorado 80903 (719)785-0799(Fax)

FOREST LAKES FILING NO. 5, 6 & 7

PRE-DEVELOPMENT GRADING AND EROSION CONTROL PLAN

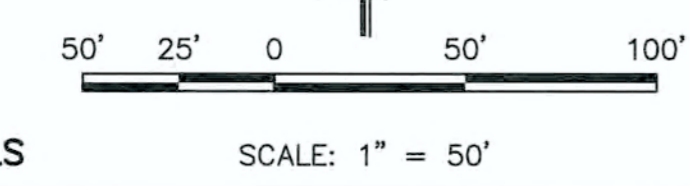
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|-------------|--------------|-----------------|---------------|----------|
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| DRAWN BY | BB | (H) 1" = 50' | SHEET 9 OF 12 | |
| CHECKED BY | (V) 1" = N/A | JOB NO. 1175.50 | | |

MATCHLINE (SEE SHEET 11)



- LEGEND**
- (7700) EXISTING CONTOUR
 - 7700 PROPOSED CONTOUR
 - PROPOSED LIMITS OF GRADING
 - BOUNDARY/R.O.W. LINE
 - EXISTING FLOW DIRECTION
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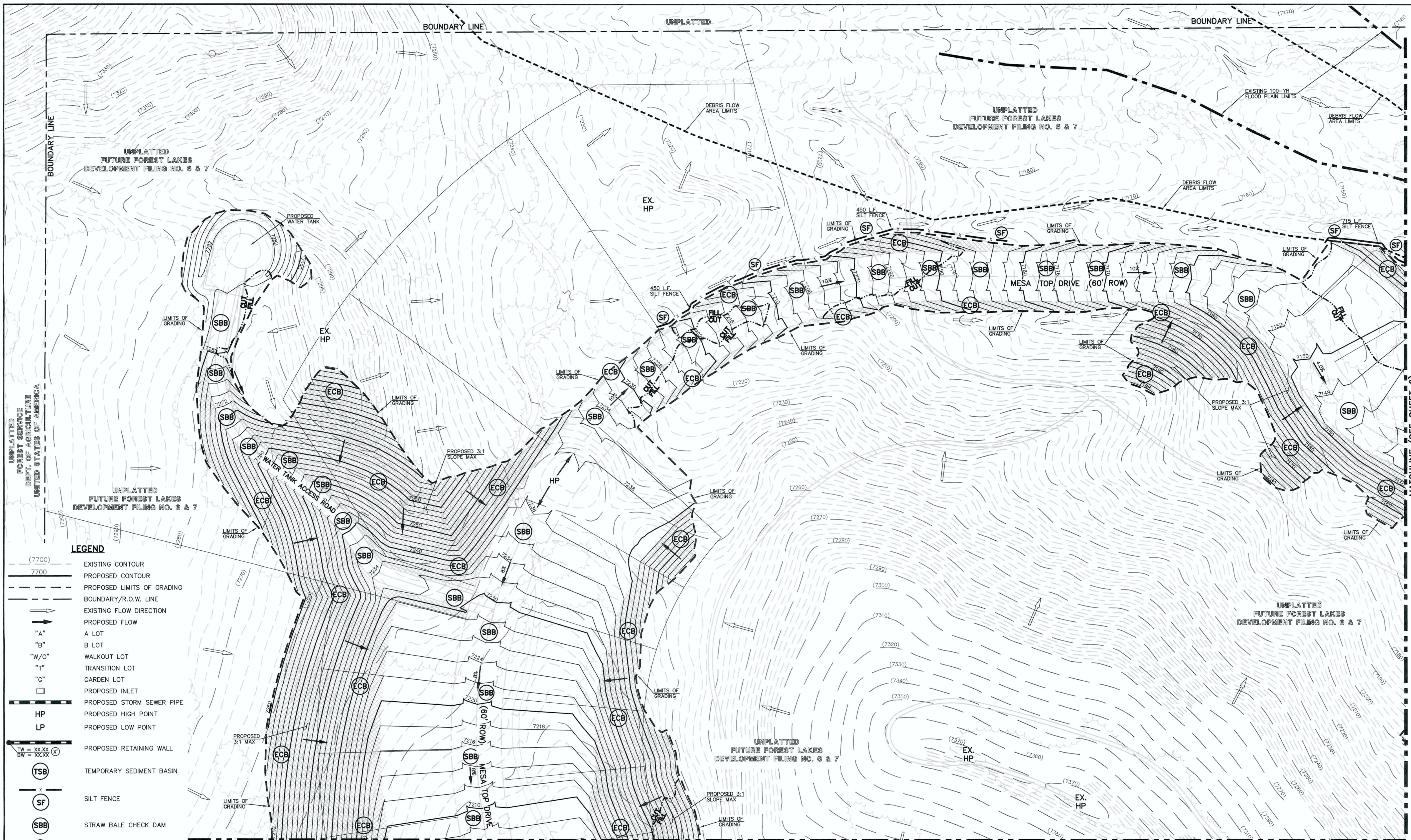
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MATCHLINE (SEE SHEET 7)

MATCHLINE (SEE SHEET 8)

MATCHLINE (SEE SHEET 9)

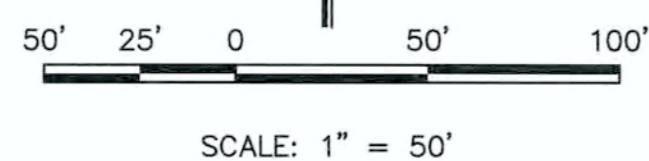
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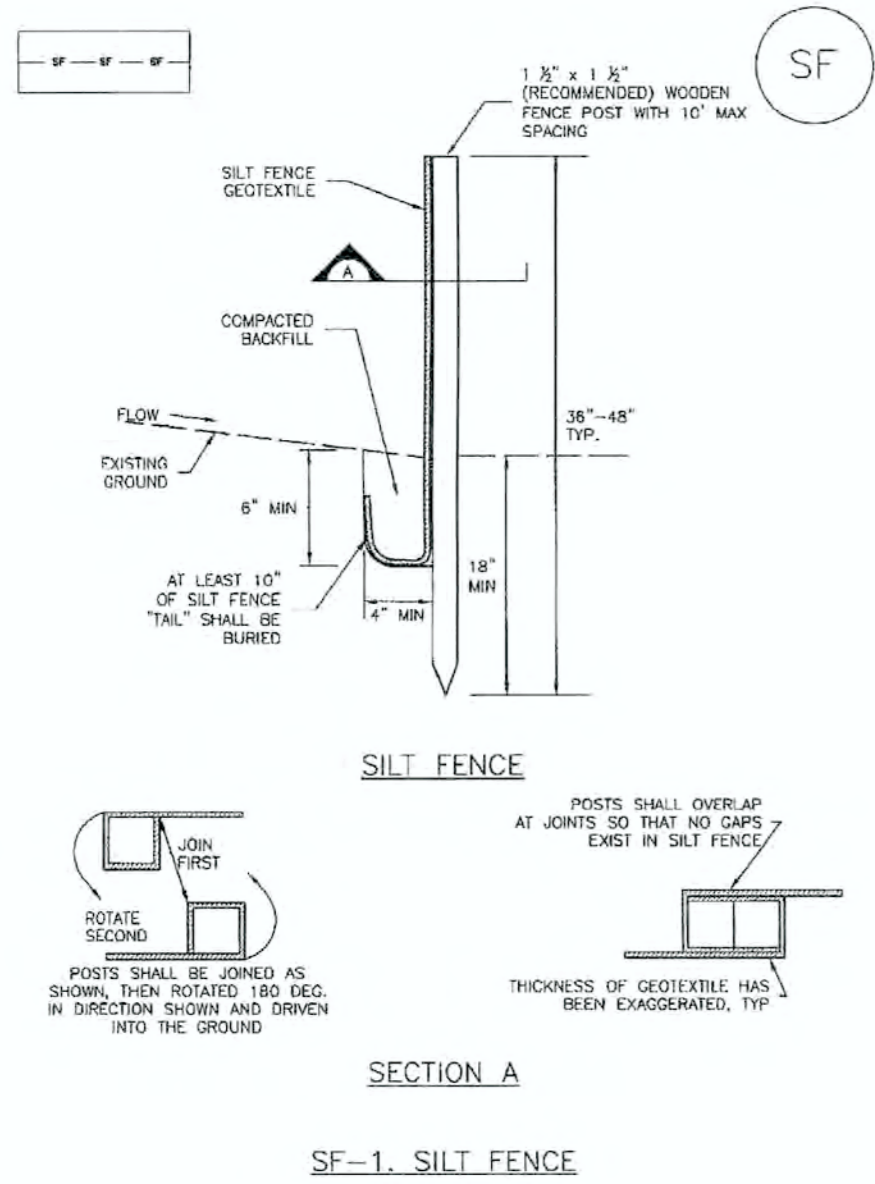
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MATCHLINE (SEE SHEET 6)

MATCHLINE (SEE SHEET 10)

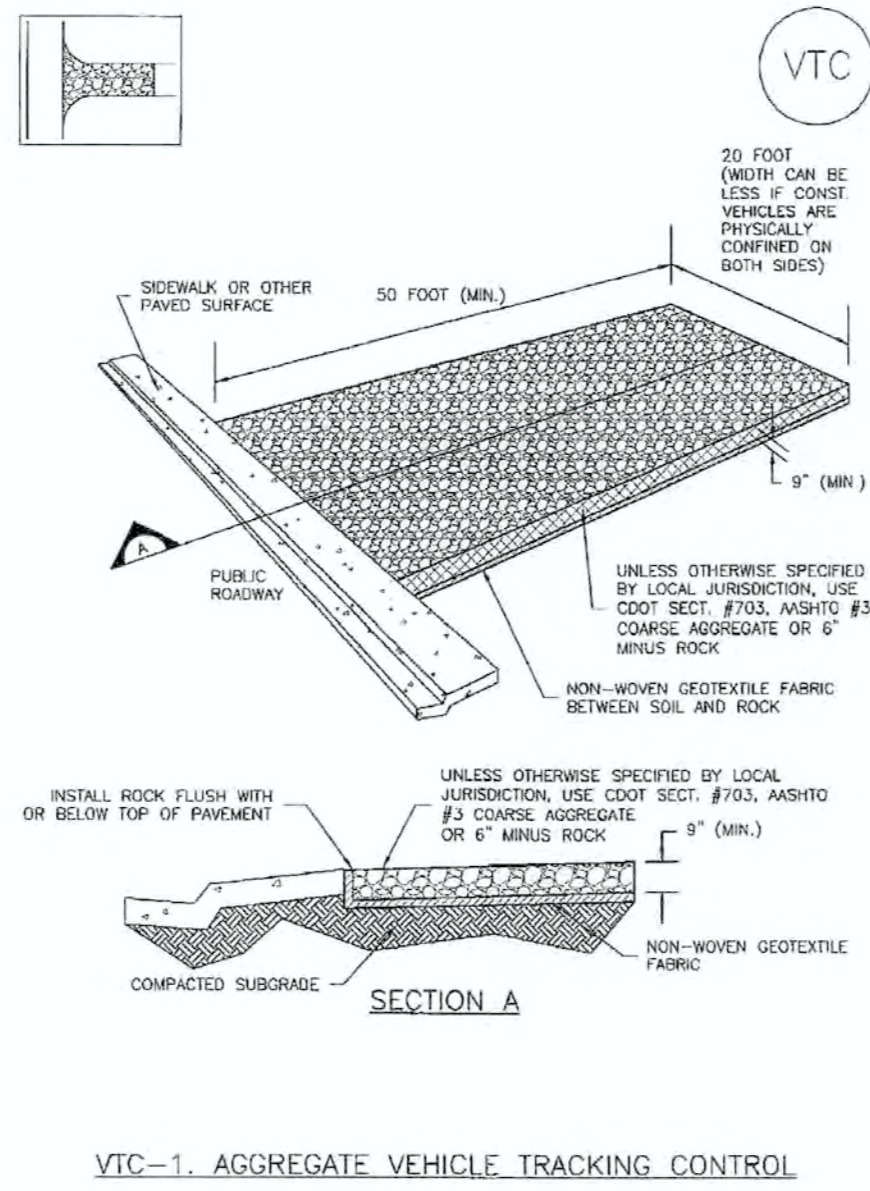
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Silt Fence (SF) SC-1



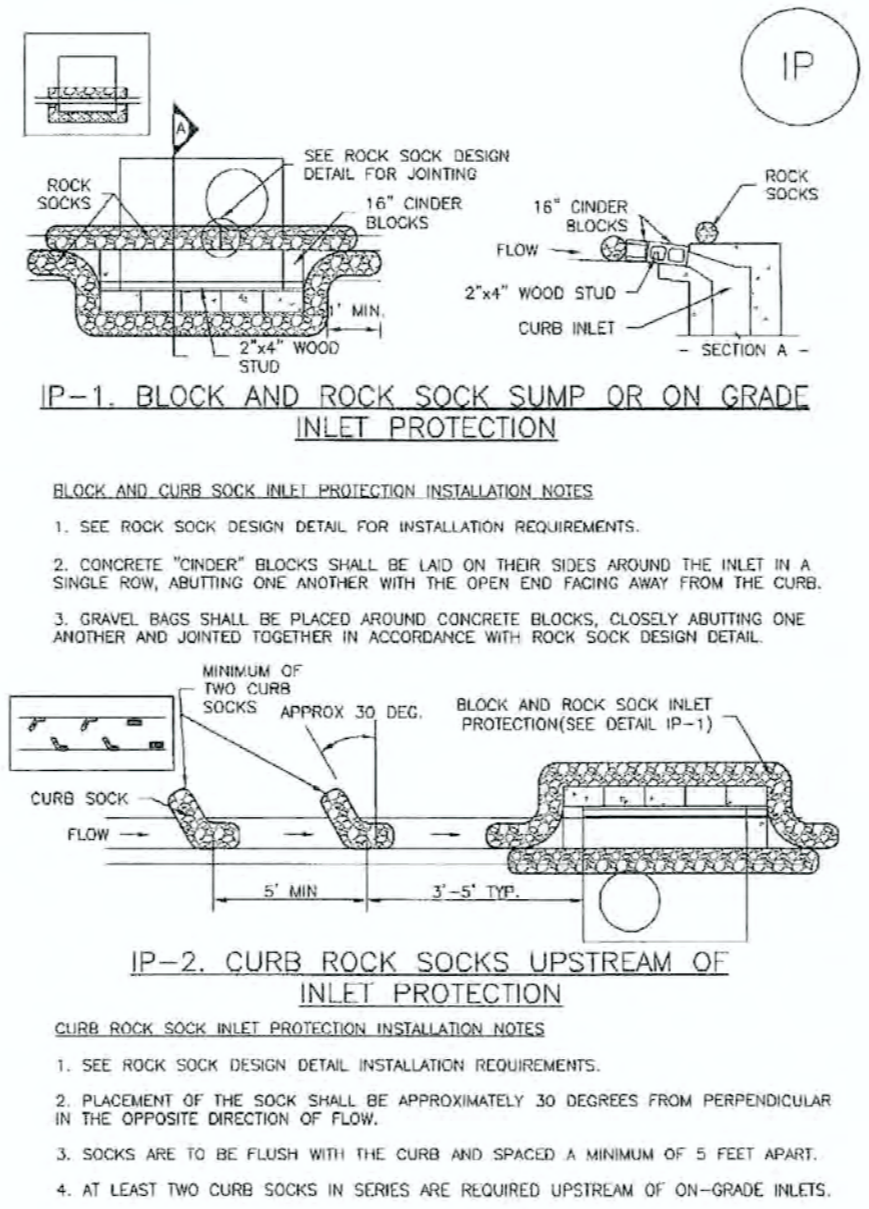
November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SF-3

Vehicle Tracking Control (VTC) SM-4



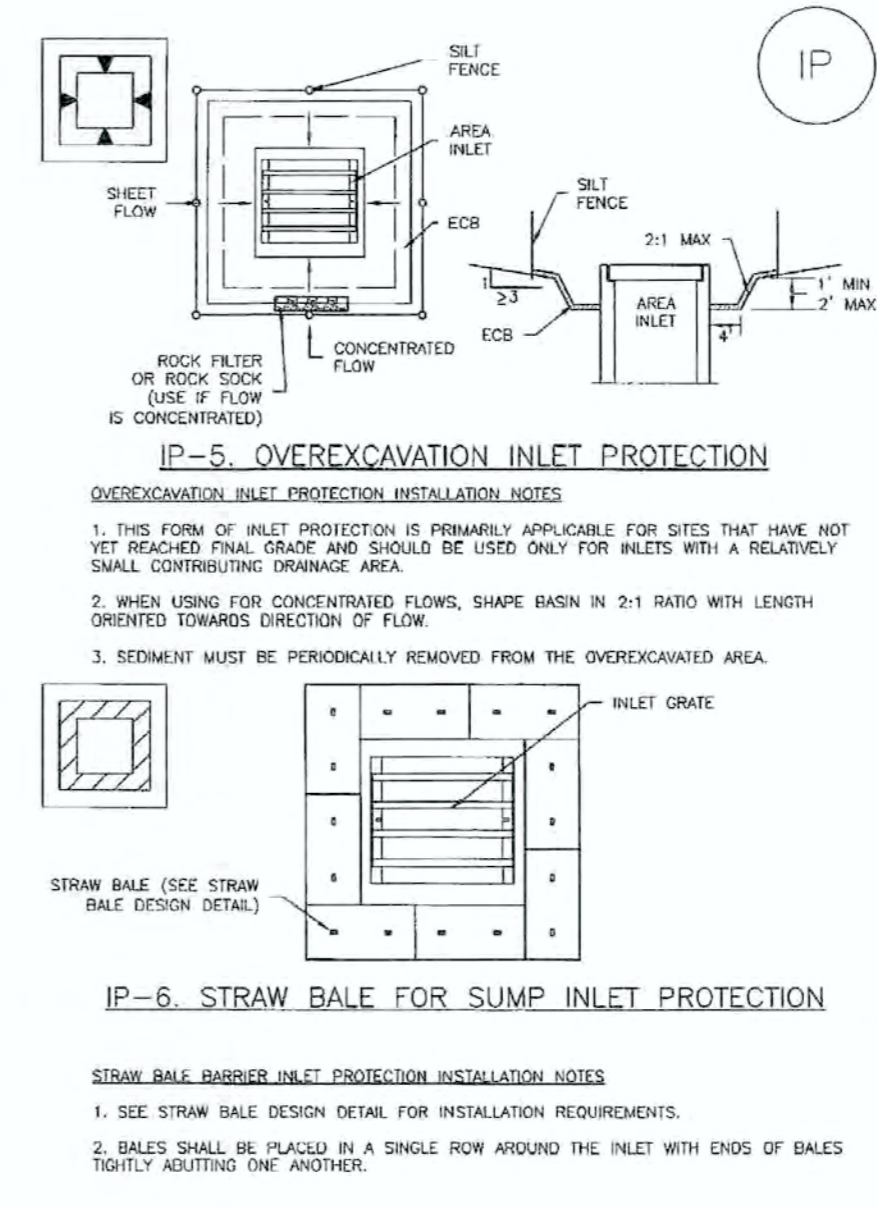
November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 VTC-3

SC-6 Inlet Protection (IP)



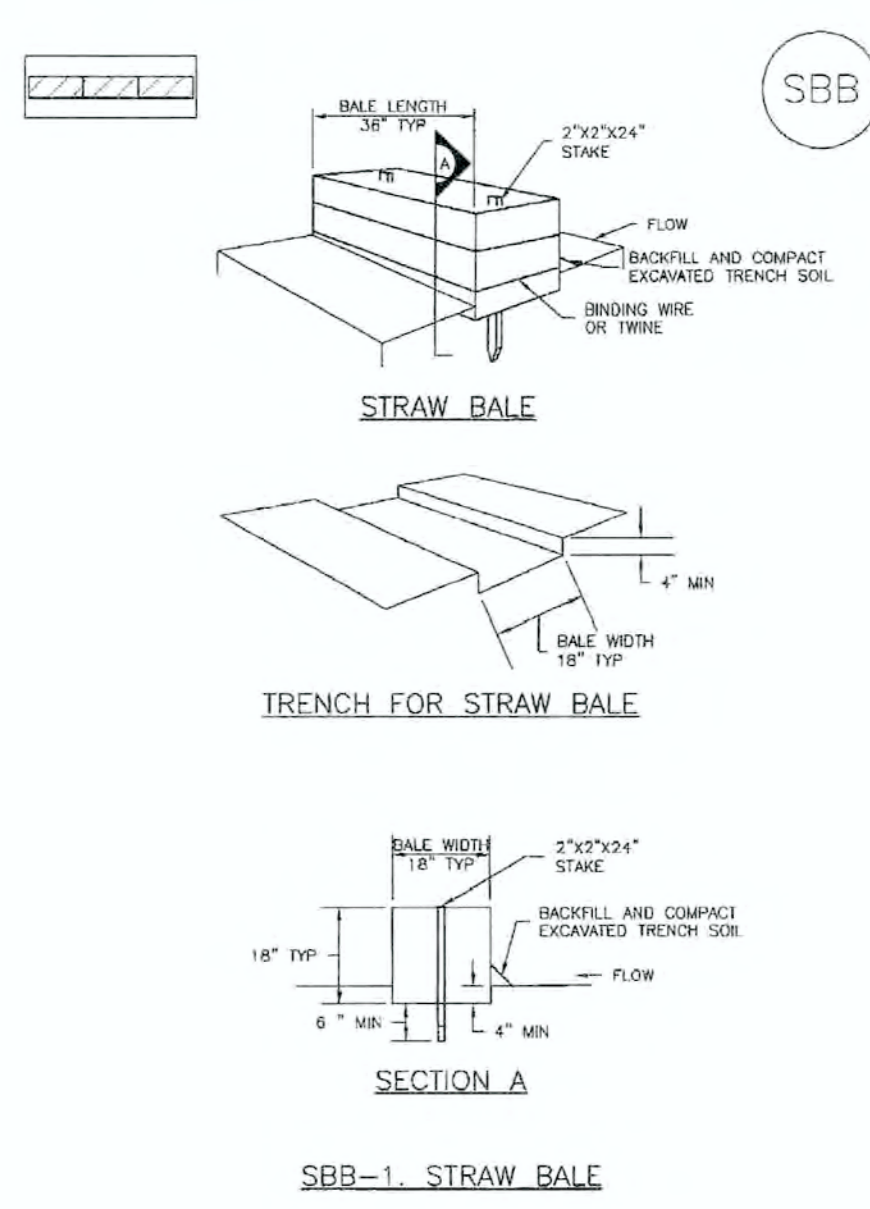
IP-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 August 2013

SC-6 Inlet Protection (IP)



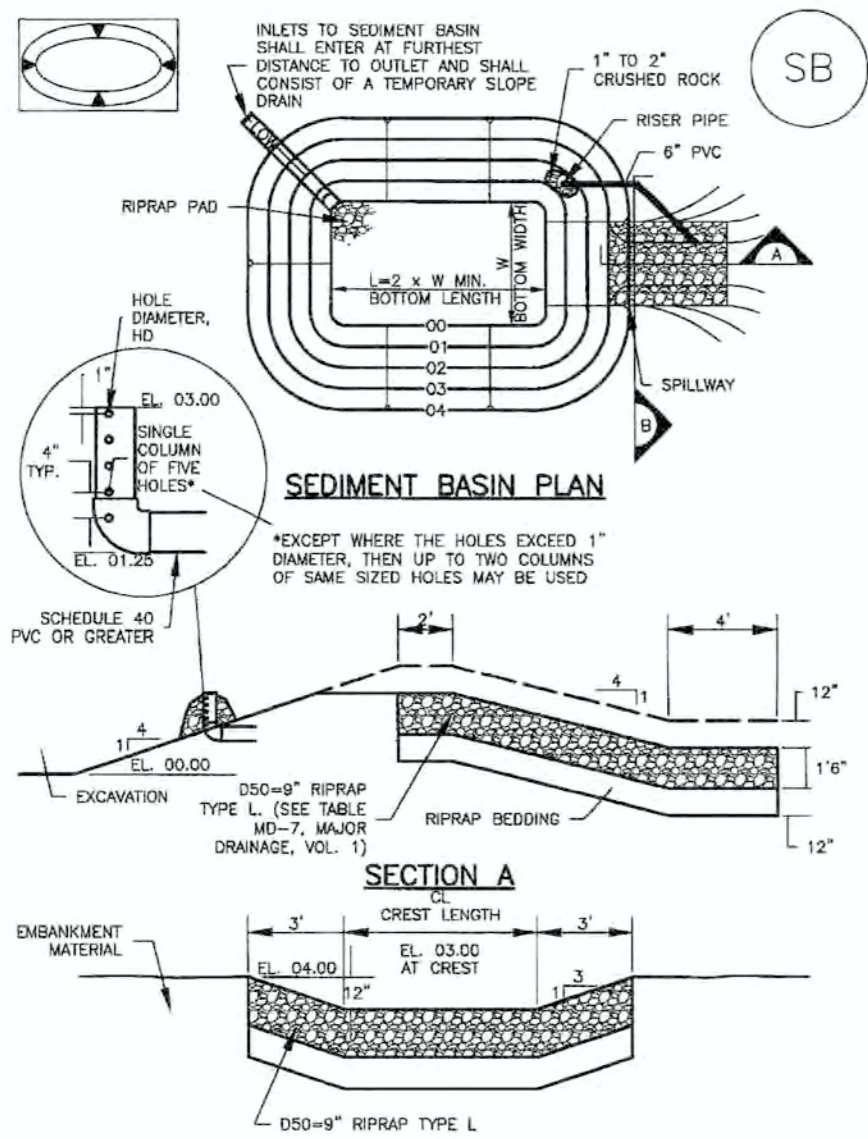
IP-6 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 August 2013

SC-3 Straw Bale Barrier (SBB)



SBB-2 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Sediment Basin (SB) SC-7



August 2013 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SB-5

SC-7 Sediment Basin (SB)

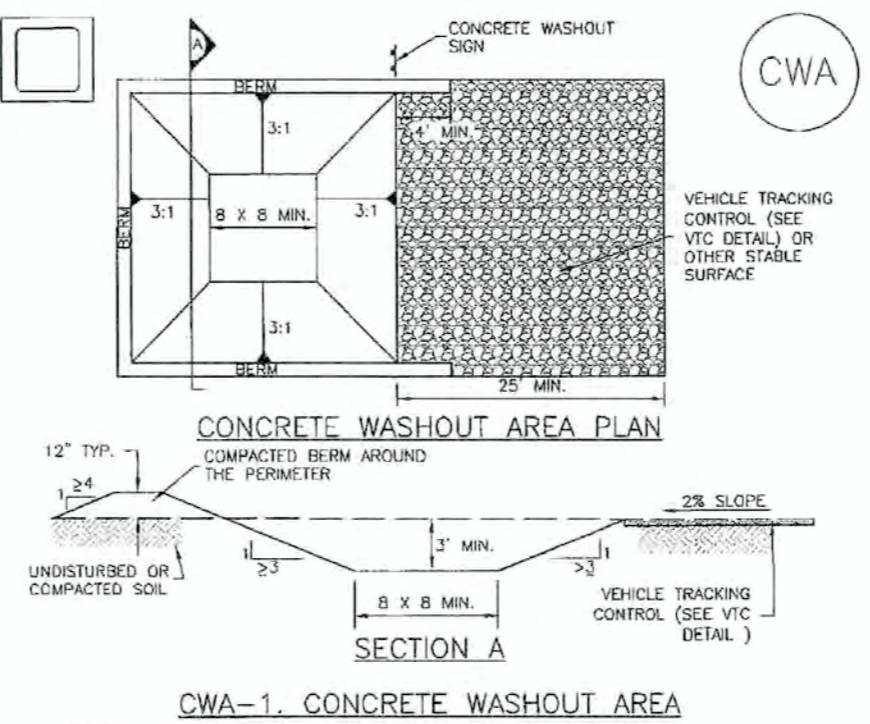
| Upstream Drainage Area (rounded to nearest acre), (A) | Basin Bottom Width (W), (ft) | Spillway Crest Length (CL), (ft) | Hole Diameter (D), (in) |
|---|------------------------------|----------------------------------|-------------------------|
| 1 | 12.5 | 2 | 3/4 |
| 2 | 13.5 | 3 | 1 1/4 |
| 3 | 14.5 | 4 | 1 3/4 |
| 4 | 15.5 | 5 | 1 7/8 |
| 5 | 16.5 | 6 | 2 |
| 6 | 17.5 | 7 | 2 1/8 |
| 7 | 18.5 | 8 | 2 1/4 |
| 8 | 19.5 | 9 | 2 3/8 |
| 9 | 20.5 | 10 | 2 1/2 |
| 10 | 21.5 | 11 | 2 5/8 |
| 11 | 22.5 | 12 | 2 3/4 |
| 12 | 23.5 | 13 | 2 7/8 |
| 13 | 24.5 | 14 | 3 |
| 14 | 25.5 | 15 | 3 1/8 |
| 15 | 26.5 | 16 | 3 1/4 |
| 16 | 27.5 | 17 | 3 3/8 |
| 17 | 28.5 | 18 | 3 1/2 |
| 18 | 29.5 | 19 | 3 5/8 |
| 19 | 30.5 | 20 | 3 3/4 |
| 20 | 31.5 | 21 | 3 7/8 |
| 21 | 32.5 | 22 | 4 |

SEDIMENT BASIN INSTALLATION NOTES

- SEE PLAN VIEW FOR:
 - LOCATION OF SEDIMENT BASIN.
 - TYPE OF BASIN (STANDARD BASIN OR NONSTANDARD BASIN).
 - FOR STANDARD BASIN, BOTTOM WIDTH W, CREST LENGTH CL, AND HOLE DIAMETER, HD.
 - FOR NONSTANDARD BASIN, SEE CONSTRUCTION DRAWINGS FOR DESIGN OF BASIN INCLUDING RISER HEIGHT H, NUMBER OF COLUMNS N, HOLE DIAMETER HD AND PIPE DIAMETER D.
- FOR STANDARD BASIN, BOTTOM DIMENSION MAY BE MODIFIED AS LONG AS BOTTOM AREA IS NOT REDUCED.
- SEDIMENT BASINS SHALL BE INSTALLED PRIOR TO ANY OTHER LAND-DISTURBING ACTIVITY THAT RELIES ON SOIL AS A STORMWATER CONTROL.
- EMBANKMENT MATERIAL SHALL CONSIST OF SOIL FREE OF DEBRIS, ORGANIC MATERIAL, AND ROCKS OR CONCRETE GREATER THAN 3 INCHES AND SHALL HAVE A MINIMUM OF 15 PERCENT BY WEIGHT PASSING THE NO. 200 SIEVE.
- EMBANKMENT MATERIAL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698.
- PIPE SCH 40 OR GREATER SHALL BE USED.
- THE DETAILS SHOWN ON THESE SHEETS PERTAIN TO STANDARD SEDIMENT BASIN(S) FOR DRAINAGE AREAS LESS THAN 15 ACRES. SEE CONSTRUCTION DRAWINGS FOR EMBANKMENT STORAGE VOLUME, SPILLWAY, OUTLET, AND GULLET PROTECTION DETAILS FOR ANY SEDIMENT BASIN(S) THAT HAVE BEEN INDIVIDUALLY DESIGNED FOR DRAINAGE AREAS LARGER THAN 15 ACRES.

SB-6 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 August 2013

Concrete Washout Area (CWA) MM-1



CWA-1. CONCRETE WASHOUT AREA

CWA INSTALLATION NOTES

- SEE PLAN VIEW FOR:
 - CWA INSTALLATION LOCATION.
- DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 100' OF ANY WELLS OR DRINKING WATER SOURCES. IF SITE CONSTRAINTS MAKE THIS INEVITABLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (1/2 IN. MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE ARE SHOULD BE USED.
- THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
- CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8' SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER THE PIT SHALL BE AT LEAST 3' DEEP.
- BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE MINIMUM HEIGHT OF 1'.
- VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.
- STAKES SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP TRUCKS.
- USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 CWA-3

MM-1 Concrete Washout Area (CWA)

CWA MAINTENANCE NOTES

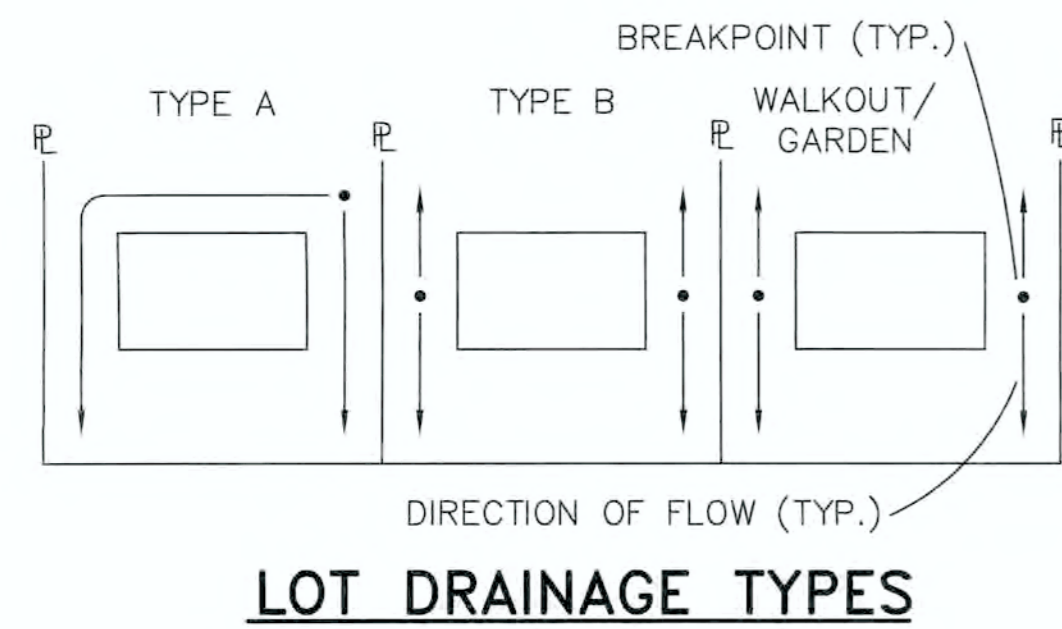
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- THE CWA SHALL BE REPAIRED, CLEANED OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE, CONCRETE MATERIALS, ACCUMULATED IN PIT, SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2".
- CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.
- THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FROM THE PROJECT IS PLACED.
- WHEN THE CWA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED AND MULCH OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

(DETAIL ADAPTED FROM BOULDER COUNTY, COLORADO AND THE CITY OF PUEBLO, COLORADO, NOT AVAILABLE IN ARCHIVED NOTE. MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM USFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.)

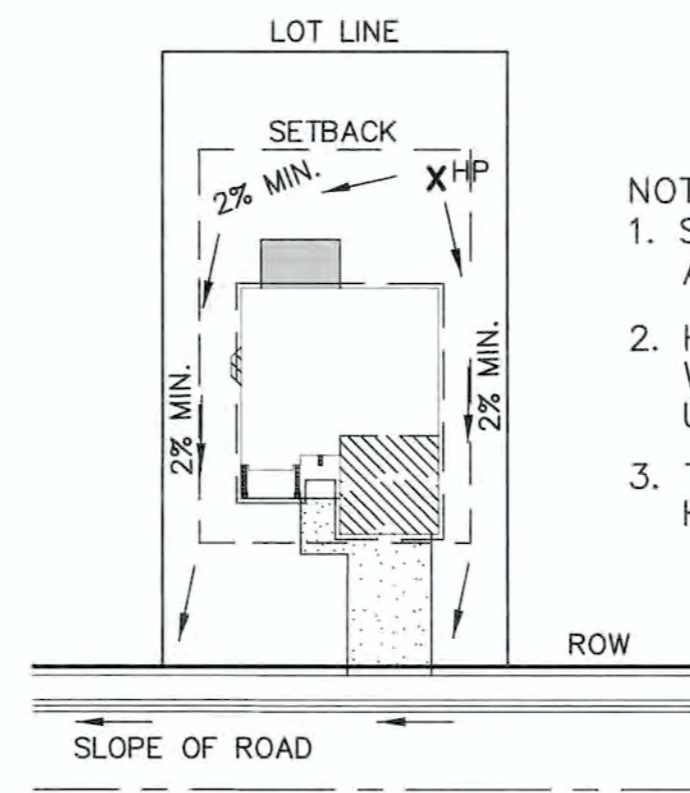
CWA-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

| | | | |
|---|---|---|--|
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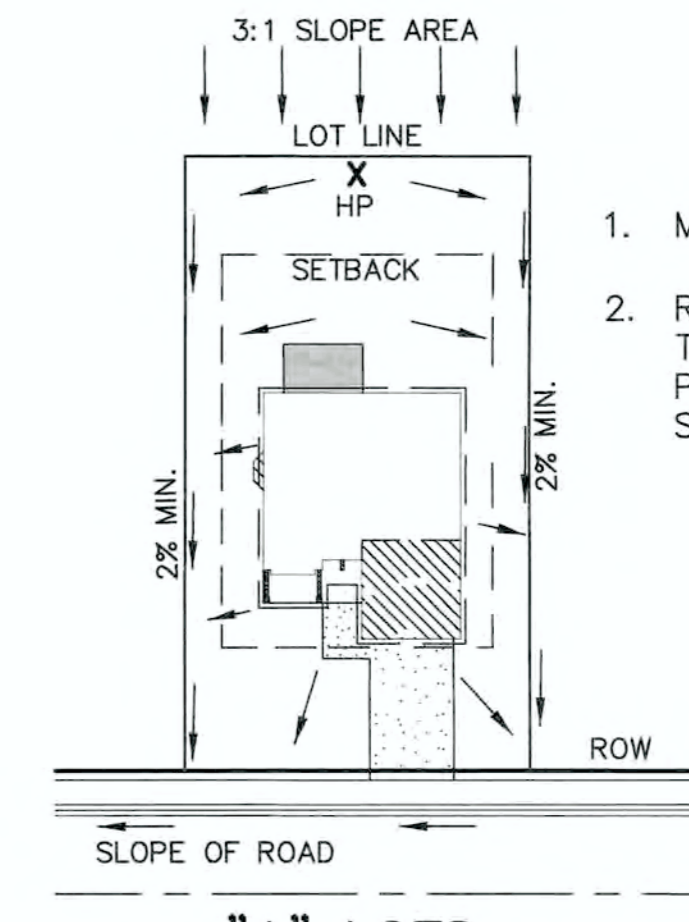
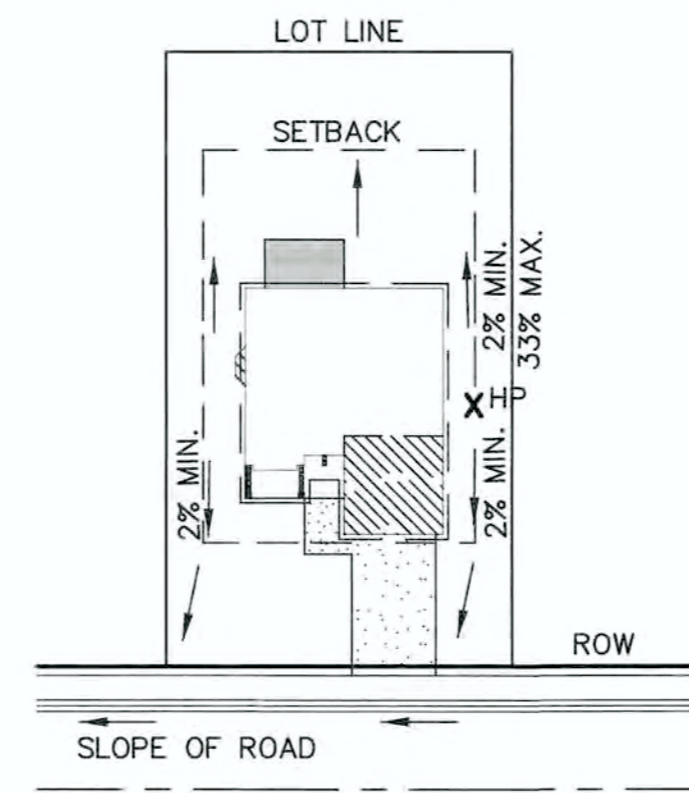
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NOTE:
SIDE LOT LINE SWALES ARE REQUIRED FOR ALL LOTS.



- NOTES:**
1. SIDEYARD SWALES TO BE CONST. AT 2% MIN. SLOPE.
 2. HP LOCATION ON INDIVIDUAL LOTS WILL VARY DEPENDING UPON EXACT UNIT SIZE AND LOCATION.
 3. TOF ELEV. MUST BE MIN. 18" HIGHER THAN ESTABLISHED HP.



1. MINIMUM LOT WIDTH ALONG SLOPE IS 70'.
2. RIPRAP OR CONCRETE 'V' NOTCH SWALES TO BE INSTALLED ALONG SHARED PROPERTY & WITHIN SIDE LOT EASEMENTS. SWALES TO DISCHARGE ONTO ROADWAY.

NOTES:

AT LEAST TEN DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB 1 ACRE OR MORE, THE OWNER OR OPERATOR OF THE CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
WATER QUALITY CONTROL DIVISION
WQCD - PERMITS
4300 CHERRY CREEK DRIVE SOUTH
DENVER, CO 80246-1530
ATTN: PERMITS UNIT

NO PORTION OF THIS SITE IS LOCATED WITHIN A FLOODPLAIN AS DETERMINED BY THE FLOOD INSURANCE RATE MAPS (F.I.R.M.) MAP NUMBER 08041C0539F AND EFFECTIVE DATE, MARCH 17, 1997.

THE AVERAGE SOIL CONDITION REFLECTS HYDROLOGIC SOIL GROUP B, MOSTLY JARRE-TECOLOTE COMPLEX AND PAYTON-PRING COMPLEX AS DETERMINED BY THE "SOIL SURVEY OF EL PASO COUNTY AREA" PREPARED BY THE U.S. SOIL CONSERVATION SERVICE.

EXISTING VEGETATION CONSISTS OF TALL NATIVE GRASSES AND WEEDS WITH SPORADIC CACTI AND YUCCAS THROUGH-OUT THE SITE.

EMERGENCY OVERFLOW SWALES FOR INLETS IN THE INTERIM UNTIL CURB AND ASPHALT IS INSTALLED WILL BE THE LOTS, FINAL WILL BE TO OVERTOP THE HIGH POINT IN ROADWAY TO THE NEXT AVAILABLE INLET OR TO PROPOSED POND.

STOCKPILE LOCATIONS FOR HOMEBUILDING TO BE ON EACH INDIVIDUAL LOT THAT IS BEING BUILT UPON.

LIMITS OF DISTURBANCE FOR THIS PLAN INCLUDE UTILITY INSTALLATION AND ROADWAY CONSTRUCTION WITHIN THE R.O.W. AND OVERLOT GRADING FOR DEVELOPMENT THEN INDIVIDUAL LOTS FOR HOMEBUILDING ONCE CONSTRUCTION OF THE HOME BEGINS.

GRADING WITHIN THIS PHASE WILL BE FULLY DEVELOPED WITH HOME BUILDING OPERATIONS.

LOCATION OF STORAGE FOR MAINTENANCE EQUIPMENT AND TEMPORARY DISPOSAL AREAS WILL BE ADDED TO THIS PLAN BY SWMP ADMINISTRATOR UPON COORDINATION WITH SELECTED CONTRACTOR.

ALL AREAS ARE TO BE RESEEDED OUTSIDE OF THE FILING NO. 2A AREA. RESEED ALL AREAS AS NEEDED TO PREVENT EROSION AND SEDIMENT RUNOFF ONTO CONSTRUCTION ACTIVITIES.

SCHEDULE OF ANTICIPATED CONSTRUCTION ACTIVITY:

1. INSTALL INITIAL BMP'S BY COUNTY STAFF
2. INSPECTION OF INITIAL BMP'S BY COUNTY STAFF
3. PRECONSTRUCTION MEETING WITH COUNTY STAFF

| BEGIN CONSTRUCTION UPON APPROVAL | ACTIVITY ALL SITE ROADWAY GRADING AND UTILITY INSTALLATION | COMPLETION 6 MONTHS | EROSION CONTROL ALL SHOWN ON GRADING PLAN |
|----------------------------------|--|---------------------|---|
|----------------------------------|--|---------------------|---|

SEEDING GUIDELINES

1. **SEEDBED PREPARATION:**
THE SEEDBED SHOULD BE WELL-SETTLED AND FIRM, BUT FRIABLE ENOUGH THAT THE SEED CAN BE PLACED AT THE SPECIFIED DEPTHS. COMPETITIVE STANDS OF WEEDS THAT ARE PRESENT BEFORE SEEDING MUST BE CONTROLLED BY SHALLOW TILLAGE OR BY APPLICATION OF HERBICIDES. SOILS THAT HAVE BEEN OVER-COMPACTED BY TRAFFIC OR EQUIPMENT, ESPECIALLY WHEN WET, SHOULD BE TILLED TO BREAK UP ROOTING-RESTRICTIVE LAYERS, THAN HARROWED, ROLLED, OR PACKED TO PREPARE THE REQUIRED FIRM SEEDBED.
2. **FERTILIZER:**
FERTILIZER SHOULD BE APPLIED AT A RATE OF 50 POUNDS OF AVAIL-ABLE NITROGEN PER ACRE AND 40 POUNDS OF AVAILABLE PHOSPHATE PER ACRE. THE TIME OF APPLICATION SHOULD BE IMMEDIATELY PRIOR TO SEEDING, AT THE TIME OF SEEDING, OR IMMEDIATELY FOLLOWING SEEDING, DEPENDING ON THE KIND OF FERTILIZER AND TYPE OF EQUIPMENT USED.
3. **SEEDING:**
SEED SHOULD BE PLANTED WITH A GRASS DRILL ON ALL SLOPES OF 3:3% (3:1) OR FLATTER. SEED MAY BE BROADCAST BY HAND, BY MECHANICAL SPREADER, OR BY HYDRAULIC EQUIPMENT ON AREAS THAT ARE SMALL, TOO STEEP, OR NOT ACCESSIBLE FOR SEED DRILL OPERATIONS. SEED PLANTED WITH A DRILL SHOULD BE COVERED WITH SOIL TO A DEPTH OF 1/4 TO 3/4 INCH. SEED PLANTED BY THE BROADCAST METHOD SHALL BE INCORPORATED INTO THE SOIL SURFACE, NOT TO EXCEED A DEPTH OF 3/4 INCH, BY RAKING, HARROWING, OR OTHER PROVEN METHOD. THE TIME OF SEEDING IS FROM OCTOBER 15TH - MAY 31ST. SEED PLANTED IN THE LATE FALL WILL REMAIN DORMANT UNTIL SPRING, WHEN IT WILL GERMINATE.
4. **MULCHING:**
SEEDBED AREAS SHOULD BE MULCHED TO CONSERVE MOISTURE, PREVENT SURFACE COMPACTION OR CRUSTING, REDUCE RUNOFF AND EROSION, CONTROL INSECTS; AND HELP ESTABLISH PLANT COVER.
NATIVE HAY OR STRAW SHOULD BE APPLIED AT A RATE OF 4,000 POUNDS PER ACRE AND CRIMPED INTO THE GROUND. ON SLOPES GREATER THAN 3:1, AN AGRONOMY BLANKET SHOULD BE USED.
5. **SUPPLEMENTAL WATER:**
IN LOW RAINFALL AREAS, WHERE WATER IS AVAILABLE AND WHERE RAPID ESTABLISHMENT IS NEEDED, IRRIGATION OF NEW SEEDING SHOULD BE PERFORMED DURING THE FIRST GROWING SEASON. WATER SHOULD BE APPLIED AT APPROXIMATELY ONE WEEK INTERVALS, AT A RATE OF 3/4 TO 1 INCH PER APPLICATION, WHEN RAINFALL IS DEFICIENT FOR PLANT DEVELOPMENT.

EROSION CONTROL CRITERIA:

EROSION CONTROL MEASURES SHALL BE IMPLEMENTED IN A MANNER THAT WILL PROTECT PROPERTIES AND PUBLIC FACILITIES FROM THE ADVERSE EFFECTS OF EROSION AND SEDIMENTATION AS A RESULT OF CONSTRUCTION AND EARTHWORK ACTIVITIES WITHIN THE PROJECT SITE.

- 1.) THE OMISSION FROM OR THE INCLUSION OF UTILITY LOCATIONS ON THE PLANS IS NOT TO BE CONSIDERED AS THE NON-EXISTENCE OF OR A DEFINITE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- 2.) DURING GRADING OPERATIONS, LOCATE AND SET THE STRAW BALE CHECK DAMS AND SILT FENCES AS SHOWN ON THE EROSION CONTROL PLAN. AT THIS TIME RESEED ALL DISTURBED AREAS WITH AN EL PASO COUNTY APPROVED SEED MIX.
- 3.) SEEDING APPLICATION: DRILLED TO A DEPTH OF .25" TO .50" INTO SOIL WHERE POSSIBLE, BROADCAST AND RAKED TO COVER ON STEEPER THAN 3:1 SLOPES WHERE ACCESS IS LIMITED OR UNSAFE FOR EQUIPMENT.
- 4.) MULCHING REQUIREMENT AND APPLICATION: 1.5 TONS PER ACRE NATIVE HAY MECHANICALLY CRIMPED INTO SOIL.
- 5.) THE STRAW BALE CHECK DAMS AND SILT FENCES SHALL BE KEPT IN PLACE AND MAINTAINED UNTIL EROSION AND SEDIMENTATION POTENTIAL IS MITIGATED. REMOVAL OF SILT AND SEDIMENT COLLECTED BY THE STRAW BALES IS REQUIRED ONCE IT REACHES HALF THE HEIGHT OF THE STRAW BALES OR SILT FENCE.
- 6.) DISTURBED SOIL SHALL BE VEGETATED WITHIN 60 DAYS AFTER SUBSTANTIAL FINAL GRADING IS COMPLETE. PROVIDE TEMPORARY VEGETATION TO DISTURBED AREAS THAT WILL HAVE A PERIOD OF EXPOSURE OF 6 MONTHS OR LONGER PRIOR TO FINAL STABILIZATION.
- 7.) ALL FACILITIES, VEGETATION AND OTHER ITEMS REQUIRED BY THE APPROVED FINAL GRADING, EROSION CONTROL, AND RECLAMATION PLAN SHALL BE PROPERLY MAINTAINED BY THE OWNERS OF THE PROPERTY. SUCH MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO KEEPING ALL EROSION CONTROL FACILITIES IN GOOD ORDER AND FUNCTIONAL, REPAIRING ANY EROSION DAMAGE THAT OCCURS, KEEPING ALL VEGETATION HEALTHY AND IN GROWING CONDITION AND REPLACING ANY DEAD VEGETATION AS SOON AS PRACTICABLE.
- 8.) ALL SILT FENCES ARE TO BE REGULARLY INSPECTED AND REPAIRED AS NEEDED.
- 9.) THE CONTRACTOR SHALL PROVIDE VEHICLE TRACKING CONTROL FACILITIES FOR EACH ENTRANCE/EXIT TO THE SITE. THE CONTRACTOR SHALL SUBMIT A PLAN WHICH WILL ASSURE USAGE OF THIS FACILITY BY ALL VEHICLES LEAVING THE SITE.
- 10.) EROSION CONTROL MEASURES SHALL BE CHECKED AFTER EACH STORM EVENT AND REPAIRED WHEN NECESSARY.
- 11.) CONTRACTOR SHALL MAINTAIN ALL TEMPORARY EROSION CONTROL FACILITIES IN GOOD WORKING ORDER UNTIL SUCH TIME AS PERMANENT FACILITIES ARE IN PLACE AND THE CONSTRUCTION MANAGER HAS APPROVED THEIR REMOVAL.
- 12.) ADDITIONAL EROSION CONTROL STRUCTURES MAY BE REQUIRED AT THE TIME OF CONSTRUCTION.
- 13.) THE EROSION CONTROL MEASURES OUTLINED ON THE PLAN ARE THE RESPONSIBILITY OF THE DEVELOPER TO MONITOR AND REPLACE, REGRADE AND REBUILD AS NECESSARY UNTIL VEGETATION IS ESTABLISHED.
- 14.) MAXIMUM ACREAGE OPEN AT ANY GIVEN TIME IS TO BE 30 ACRES.

8/11/2019 2:32:39 PM L1

48 HOURS BEFORE YOU DIG,
CALL UTILITY LOCATORS
811
UTILITY NOTIFICATION CENTER OF COLORADO
IT'S THE LAW

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

| NO. | REVISION | DATE |
|-----|--------------------------|---------|
| 1 | REVISED PER EPC COMMENTS | 8-21-19 |
| | | |
| | | |
| | | |
| | | |
| | | |

REVIEW:

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

Kyle R. Campbell
KYLE R. CAMPBELL, COLORADO P.E. #29794

[Signature]
DATE

CLASSIC CONSULTING

619 N. Cascade Avenue, Suite 200
Colorado Springs, Colorado 80903

(719)785-0790
(719)785-0793(Fax)

FOREST LAKES FILING NO. 5, 6 & 7

PRE-DEVELOPMENT GRADING AND EROSION CONTROL PLAN

| | | | | |
|-------------|-------------|-------------|---------|----------|
| DESIGNED BY | MAL | SCALE | DATE | 05/21/19 |
| DRAWN BY | BB | (H) 1"= 50' | SHEET | 13 OF 13 |
| CHECKED BY | (V) 1"= N/A | JOB NO. | 1175.50 | |

CLASSIC CONSULTING

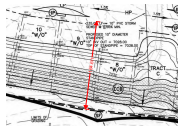
Markup Summary

dsdlaforce (8)



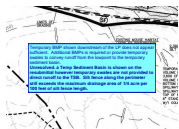
Subject: Callout
Page Index: 5
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Author: dsdlaforce
Date: 9/16/2019 2:05:45 PM
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Remove inlet protections for proposed inlets and replace with temporary swales to direct flows into the temporary sediment basins.



Subject: Length Measurement
Page Index: 5
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Author: dsdlaforce
Date: 9/16/2019 2:09:05 PM
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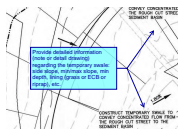
164.6 ft



Subject: Text Box
Page Index: 5
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Author: dsdlaforce
Date: 9/16/2019 2:13:31 PM
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Temporary BMP shown downstream of the LP does not appear sufficient. Additional BMPs is required or provide temporary swales to convey runoff from the lowpoint to the temporary sediment basin.

Unresolved. a Temp Sediment Basin is shown on the resubmittal however temporary swales are not provided to direct runoff to the TSB. Silt fence along the perimeter still exceeds the maximum drainage area of 1/4 acre per 100 feet of silt fence length.



Subject: Callout
Page Index: 7
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Author: dsdlaforce
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Provide detailed information (note or detail drawing) regarding the temporary swale: side slope, min/max slope, min depth, lining (grass or ECB or riprap), etc.



Subject: Callout
Page Index: 9
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Author: dsdlaforce
Date: 9/16/2019 2:21:09 PM
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Provide detailed information (note or detail drawing) regarding the temporary swale: side slope, min/max slope, min depth, lining (grass or ECB or riprap), etc.



Subject: Image
Page Index: 3
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Author: dsdlaforce
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Subject: Text Box
Page Index: 3
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Author: dsdlaforce
Date: 9/16/2019 3:23:02 PM
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Contours shown appears to be finished grade elevation, not subgrade for early grading. Either modify to show subgrade contours or provide a typical cross section detail noting the subgrade grading associated with this plan relative to the finished grade shown on the plans. Example of what another application provided. Unresolved.



Subject: Cloud
Page Index: 3
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Author: dsdlaforce
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