

GENERAL NOTES:

- 1. ALL CONSTRUCTION SHALL COMPLY WITH THE STONEGATE VILLAGE METROPOLITAN DISTRICT SPECIFICATIONS...
2. THE CONTRACTOR SHALL CONTACT ALL APPROPRIATE UTILITY COMPANIES...
3. THE DISTRICT ENGINEER AND OTHER APPROVING AGENCIES ARE TO BE NOTIFIED AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR SHALL OBTAIN, AT HIS EXPENSE, ALL PERMITS WHICH ARE NECESSARY TO PERFORM THE PROPOSED WORK...
5. ALL CONCRETE SHALL BE A MINIMUM OF CLASS B, 6-SACK, TYPE II, 3000 POUND COMPRESSION STRENGTH...
6. THE DESIGN ENGINEER SHALL SUBMIT ONE (1) SET OF ROLLED "AS-BUILT" BLUELINE PRINTS TO THE DESIGNATED TOWN AUTHORITY...
7. ALL BACKFILL MATERIAL SHALL BE COMPACTED TO ALL APPLICABLE TOWN AND DISTRICT STANDARDS...
8. ALL CURBS SHALL BE CAREFULLY AND FIRMLY BACKFILLED BY THE CONTRACTOR...
9. REFER TO OVERLOT GRADING AND EROSION CONTROL PLAN FOR GRADING NOTES.
10. EXPANSION JOINTS WILL BE PLACED IN ALL SIDEWALKS AND CURB AND GUTTER AT PCs, PTs, AND AT ANY FIXED OBJECT...
11. THE APPLICANT IS 470 COMPARK, LLC.
12. THE UTILITY CONTRACTOR THAT INSTALLS SANITARY SEWER, STORM SEWER, AND WATER SHALL AFTER PROPERLY COMPLETING THE WORK...
13. ALL TESTING AND INSPECTION FOR COMPLIANCE WITH TOWN OF PARKER STANDARDS SHALL BE COMPLETED PRIOR TO PROBATIONARY ACCEPTANCE.
14. THE DESIGN ENGINEER SHALL SUBMIT ONE (1) SET OF ROLLED "AS-BUILT" BLUELINE PRINTS AND ELECTRONIC FILES TO THE DISTRICT ENGINEER...
15. TRENCHES SHALL BE EXCAVATED AND THE PIPE EXPOSED FOR THE INSPECTION AT ANY LOCATION ON THE PROJECT IF SO ORDERED BY THE INSPECTOR.
16. CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE PROPER FUNCTIONING OF LINES (WATER AND SEWER) FOR UP TO TWO (2) YEARS FROM THE DATE OF PROBATIONARY ACCEPTANCE...
17. SURFACE GRADES ARE TO BE WITHIN PLUS OR MINUS ONE FOOT OF FINISHED GRADE AND VERIFICATION OF COMPACTION RESULTS OBTAINED PRIOR TO THE INSTALLATION OF WATER AND SEWER LINES...
18. NO WORK SHALL BE BACKFILLED UNTIL THE CONSTRUCTION HAS BEEN INSPECTED AND APPROVED FOR BACKFILLING BY THE DISTRICT ENGINEER OR REPRESENTATIVE OF THE DISTRICT ENGINEER.
19. ALL SERVICES WILL BE PERMANENTLY MARKED ON CURB FACE AS FOLLOWS:
"x" FOR SANITARY SERVICE SEWERS
"v" FOR WATER SERVICES
20. NO TREES SHALL BE ALLOWED IN EASEMENTS OR WITHIN 8' OF ANY WATER OR SANITARY SEWER MAINS IN RIGHT-OF-WAY...
21. SOURCE BENCHMARKS: DOUGLAS COUNTY BM 1.115010
A DOUGLAS COUNTY GIS MONUMENT SET IN CONCRETE LOCATED APPROXIMATELY 130 FEET SOUTHWESTERLY OF THE CENTERLINE OF CHAMBERS ROAD AND 95 FEET NORTHWESTERLY OF THE CENTERLINE OF COMPARK BOULEVARD. ELEVATION = 5752.84 (NAVD 88)
SITE BENCHMARKS:
1. A NO. 5 REBAR WITH 2" ALUMINUM CAP STAMPED "LS 28286, 2001" FOUND AT THE SOUTHWEST CORNER OF SECTION 6, T6S, R66W LOCATED ON THE WEST LINE OF FIRST STREET APPROXIMATELY 1000 FEET NORTH OF ELM AVENUE. ELEVATION = 5845.51
2. A 2.5" IRON PIPE WITH 3.25" ALUMINUM CAP STAMPED "PLS 12405, 1997" FOUND AT THE SOUTHEAST CORNER OF SECTION 6, T6S, R66W LOCATED APPROXIMATELY 960 FEET NORTH OF THE CENTERLINE OF AVENTERA PARKWAY AND APPROXIMATELY 1050 FEET WEST OF THE CENTERLINE OF CHAMBERS ROAD. ELEVATION = 5808.06
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION, PROTECTION AND REPAIR OF ALL UTILITIES ENCOUNTERED DURING CONSTRUCTION...
23. T.C. INDICATES TOP BACK OF WALK GRADE FOR COMBINATION CURB, GUTTER, AND SIDEWALK, OR TOP BACK OF CURB FOR OTHER CURB AND GUTTER TYPES.
24. ALL DIMENSIONS AND RADII ARE TO FLOWLINE UNLESS OTHERWISE NOTED.
25. THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH A SET OF "AS-BUILT" PLANS MARKED WITH ALL DEVIATIONS FROM THE CONSTRUCTION PLANS PRIOR TO INITIAL ACCEPTANCE.
26. ALL STATIONING IS ON CENTERLINE OF RIGHT OF WAY UNLESS OTHERWISE NOTED.

CONSTRUCTION NOTES:

- 1. ALL MATERIALS AND CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE COLORADO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION...
2. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE TOWN OF PARKER PUBLIC WORKS DEPARTMENT...
3. A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO THE START OF CONSTRUCTION...
4. A DEVELOPMENT REVIEW ENGINEER SHALL BE CONTACTED A MINIMUM OF 24 HOURS PRIOR TO A NECESSARY INSPECTION...
5. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ACTUAL CONSTRUCTION...
6. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE PLANS, APPROVED BY THE TOWN OF PARKER PUBLIC WORKS DIRECTOR...
7. ALL PROPOSED STREET CUTS TO EXISTING PAVEMENTS FOR UTILITIES, STORM SEWER, OR FOR OTHER PURPOSES ARE LISTED AND REFERENCED BELOW:
WATER TIE-IN SEE OFFSITE SANITARY SEWER AND WATER CONSTRUCTION PLANS
SANITARY SEWER CONNECTION SEE OFFSITE SANITARY SEWER AND WATER CONSTRUCTION PLANS
STORM SEWER CONNECTION SEE ROADWAY AND STORM DRAINAGE CONSTRUCTION PLANS
8. A PLAN FOR TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE SUBMITTED TO THE TOWN OF PARKER FOR ACCEPTANCE...
9. ALL TRENCHES SHALL BE ADEQUATELY SUPPORTED AND THE SAFETY OF WORKERS PROVIDED FOR AS REQUIRED...
10. COMPACTION OF ALL TRENCHES MUST BE ATTAINED AND COMPACTION TEST RESULTS SUBMITTED TO THE DEVELOPMENT REVIEW ENGINEER...
11. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING EROSION AND SEDIMENT CONTROL MEASURES AT ALL TIMES DURING CONSTRUCTION...
12. THE CONTRACTOR SHALL PROVIDE, ERECT, AND MAINTAIN PROPER TRAFFIC CONTROL DEVICES UNTIL THE SITE IS OPEN TO TRAFFIC...
13. PLANS ARE APPROVED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE SHOWN ON THE TOWN OF PARKER SIGNATURE BLOCK...
14. REPAIR OF ANY DAMAGE TO EXISTING IMPROVEMENTS OR LANDSCAPING IS THE RESPONSIBILITY OF THE CONTRACTOR.
15. ALL DAMAGED EXISTING CURB, GUTTER, AND SIDEWALK SHALL BE REPAIRED PRIOR TO ACCEPTANCE OF COMPLETED IMPROVEMENTS.
16. ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH THE STATE OF COLORADO PERMITTING PROCESS FOR "STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY"...
17. IF DEWATERING IS REQUIRED, A STATE CONSTRUCTION DEWATERING DISCHARGE PERMIT IS REQUIRED FOR DISCHARGES TO A STORM SEWER, CHANNEL, IRRIGATION DITCH, ANY STREET THAT IS TRIBUTARY TO THE AFOREMENTIONED FACILITIES...
18. ALL REFERENCES TO BOOKS, PAGES, MAPS, AND RECEPTION NUMBER ARE PUBLIC DOCUMENTS ON FILE WITH THE COUNTY CLERK AND RECORDER'S OFFICE.

PARKER STANDARD STORM DRAINAGE INFRASTRUCTURE NOTES

- 1. ALL STORM DRAINAGE IMPROVEMENTS ARE SUBJECT TO COMPLIANCE WITH THE COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION...
2. THE CONTRACTOR SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8 CRS)...
3. INSPECTIONS: CONSTRUCTION SHALL NOT BEGIN UNTIL A GRADING PERMIT HAS BEEN ISSUED FOR THE PROJECT...
4. THE CONTRACTOR SHALL NOTIFY THE TOWN OF PARKER ENGINEERING DEPARTMENT (PUBLIC WORKS) TO SCHEDULE INSPECTIONS A MINIMUM OF 48 HOURS PRIOR TO THE CONSTRUCTION OF ALL DRAINAGE INFRASTRUCTURE...
5. THE CONTRACTOR SHALL NOTIFY THE TOWN OF PARKER ENGINEERING DEPARTMENT (PUBLIC WORKS) TO SCHEDULE INSPECTIONS A MINIMUM OF 48 HOURS PRIOR TO THE CONSTRUCTION OF ALL DRAINAGE INFRASTRUCTURE...

- 4. STRUCTURAL BACKFILL (CDOT CLASS 1) SHALL BE COMPACTED TO CDOT STANDARD SPECIFICATIONS 203.03. STRUCTURAL BACKFILL (CDOT CLASS 2) SHALL CONFORM TO CDOT STANDARD SPECIFICATION 203.07...
5. ALL EXCAVATIONS SHALL MEET OSHA REQUIREMENTS.
6. TESTING: PROBATIONARY ACCEPTANCE OF STORM DRAINAGE IMPROVEMENTS WILL BE CONTINGENT UPON SATISFACTORY TESTING RESULTS...
7. ALLOWABLE STORM SEWER CONDUIT MATERIAL WITHIN THE TOWN OF PARKER SHALL BE LIMITED TO REINFORCED CONCRETE PIPE (RCP) CONFORMING TO CDOT STANDARD SPECIFICATION 706.02.
8. ALL RCP JOINTS SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C443. RUBBER GASKETS SHALL BE USED ON ALL PIPE JOINTS CONFORMING TO ASTM C443...
9. JOINT RESTRAINTS AND TOE-WALLS CONFORMING TO CDOT M&S STANDARD PLAN NO. M-601-11 SHALL BE USED ON ALL RCP FLARED END SECTION OUTFALLS.
10. EPOXY COATED REBAR SHALL BE USED AS REINFORCING STEEL ON ALL STORM INLETS...
11. CDOT CLASS D CONCRETE SHALL BE USED FOR ALL CONCRETE DRAINAGE STRUCTURES.
12. PRE-CAST INLETS AND MANHOLE BASES SHALL NOT BE USED WITHIN THE TOWN OF PARKER RIGHT-OF-WAY...
13. TWO (2) MANHOLE ACCESS JOINTS ARE REQUIRED ON ALL TYPE "R" CURB INLETS GREATER THAN OR EQUAL TO TEN (10) FEET IN LENGTH...
14. ALL GROUTING (BOULDERS, RIPRAP) SHALL BE IN ACCORDANCE WITH THE REVISION OF SECTION 506 OF THE CDOT STANDARD SPECIFICATIONS...
15. ALL BOULDERS AND RIPRAP SHALL BE SELECTED AND PLACED IN ACCORDANCE WITH THE REVISION OF SECTION 506 OF THE CDOT STANDARD SPECIFICATIONS...
16. CONTRACTOR SHALL REFER TO THE TOWN OF PARKER'S CONSTRUCTION BEST MANAGEMENT PRACTICES DETAILS AND NOTES FOR ALL REQUIREMENTS RELATING TO RE-VEGETATION, SEDIMENT AND EROSION CONTROL REQUIREMENTS FOR CONSTRUCTION ACTIVITIES.

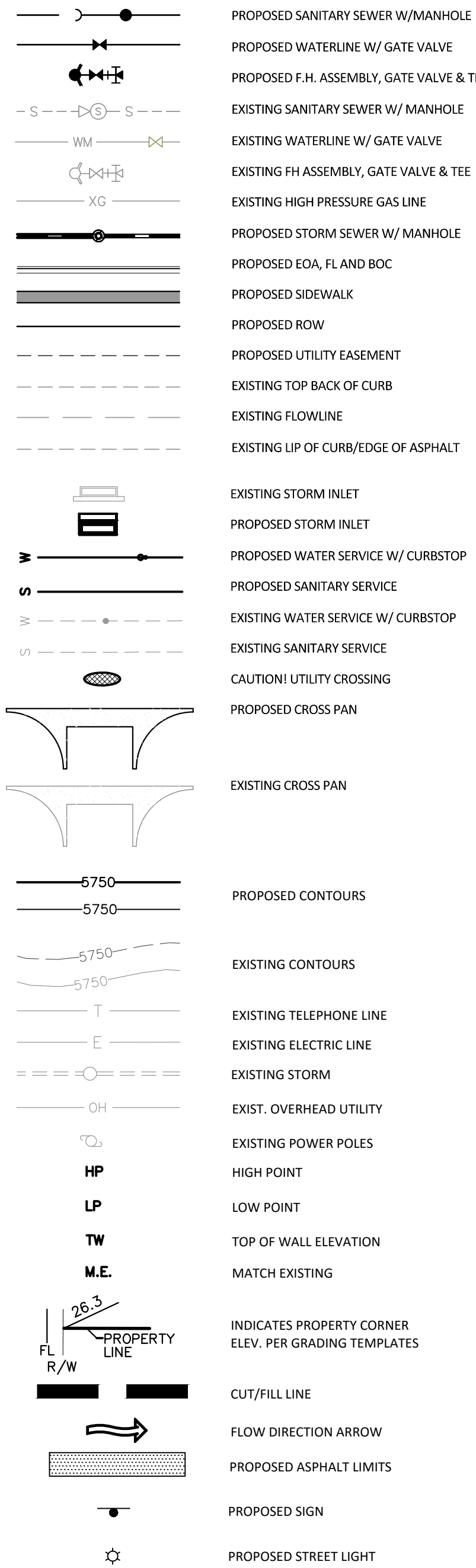
SIGNAGE & STRIPING NOTES

- 1. SEE SIGNAGE & STRIPING PLAN FOR NOTES.

ROADWAY NOTES:

- 1. PAVING SHALL NOT COMMENCE UNTIL A SOILS REPORT AND PAVEMENT DESIGN IS APPROVED BY THE ENGINEERING DIVISION AND SUB-GRADE COMPACTION TESTS ARE SUBMITTED TO AND APPROVED BY THE DEVELOPMENT REVIEW ENGINEER.
2. STANDARD TOWN OF PARKER HANDICAP RAMPS ARE TO BE CONSTRUCTED AT ALL CURB RETURNS AND AT ALL "T" INTERSECTIONS.
3. ALL STATIONING IS BASED ON CENTERLINE OF ROADWAYS UNLESS OTHERWISE NOTED.
4. ALL ELEVATIONS ARE ON USGS DATUM WITH DATE. RANGE POINT OR MONUMENT SHALL BE SHOWN ON THE CONSTRUCTION PLANS.
5. EXCEPT WHERE OTHERWISE PROVIDED FOR IN THESE PLANS AND SPECIFICATIONS, THE COLORADO DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE COLORADO DEPARTMENT OF HIGHWAYS M-STANDARDS, AND THE TOWN OF PARKER ROADWAY DESIGN AND CONSTRUCTION CRITERIA MANUAL, LATEST EDITION, SHALL APPLY.

MASTER LEGEND



Know what's below. Call before you dig.

TOWN OF PARKER APPROVALS

THE TOWN OF PARKER REVIEW CONSTITUTES GENERAL COMPLIANCE WITH THE TOWN'S STANDARDS AND APPROVED VARIANCES, SUBJECT TO THESE PLANS BEING STAMPED, SIGNED, AND DATED BY THE PROFESSIONAL ENGINEER OF RECORD...

THIS REVIEW DOES NOT CONSTITUTE APPROVAL OF ANY PRIVATE ON-SITE IMPROVEMENTS WHICH MAY BE SHOWN. CONSTRUCTION CANNOT COMMENCE UNTIL ALL REQUIRED DRAINAGE/TRAFFIC REPORT(S), FINAL DEVELOPMENT PLAN(S), SPECIAL REVIEW(S), GRADING PERMIT, AND/OR OTHER PERMITS ARE COMPLETE, APPROVED AND ON FILE WITH THE TOWN OF PARKER.

Table with columns for DATE, REVISIONS, and DRAWN BY, containing revision details for the project.

Manhard CONSULTING LTD logo and contact information, including address and phone number.

COMPARK VILLAGE SOUTH GREEN ACRES TRIBUTARY TOWN OF PARKER, COLORADO GENERAL NOTES

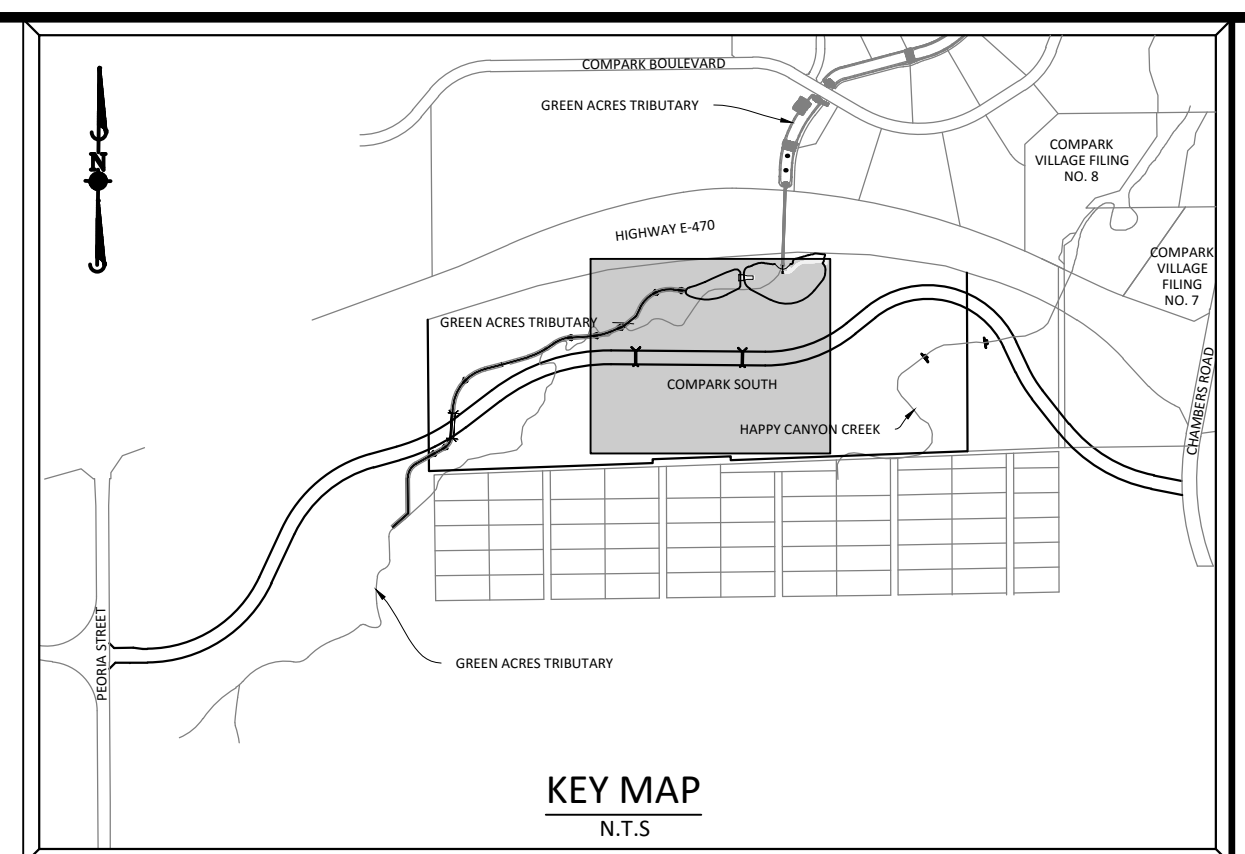
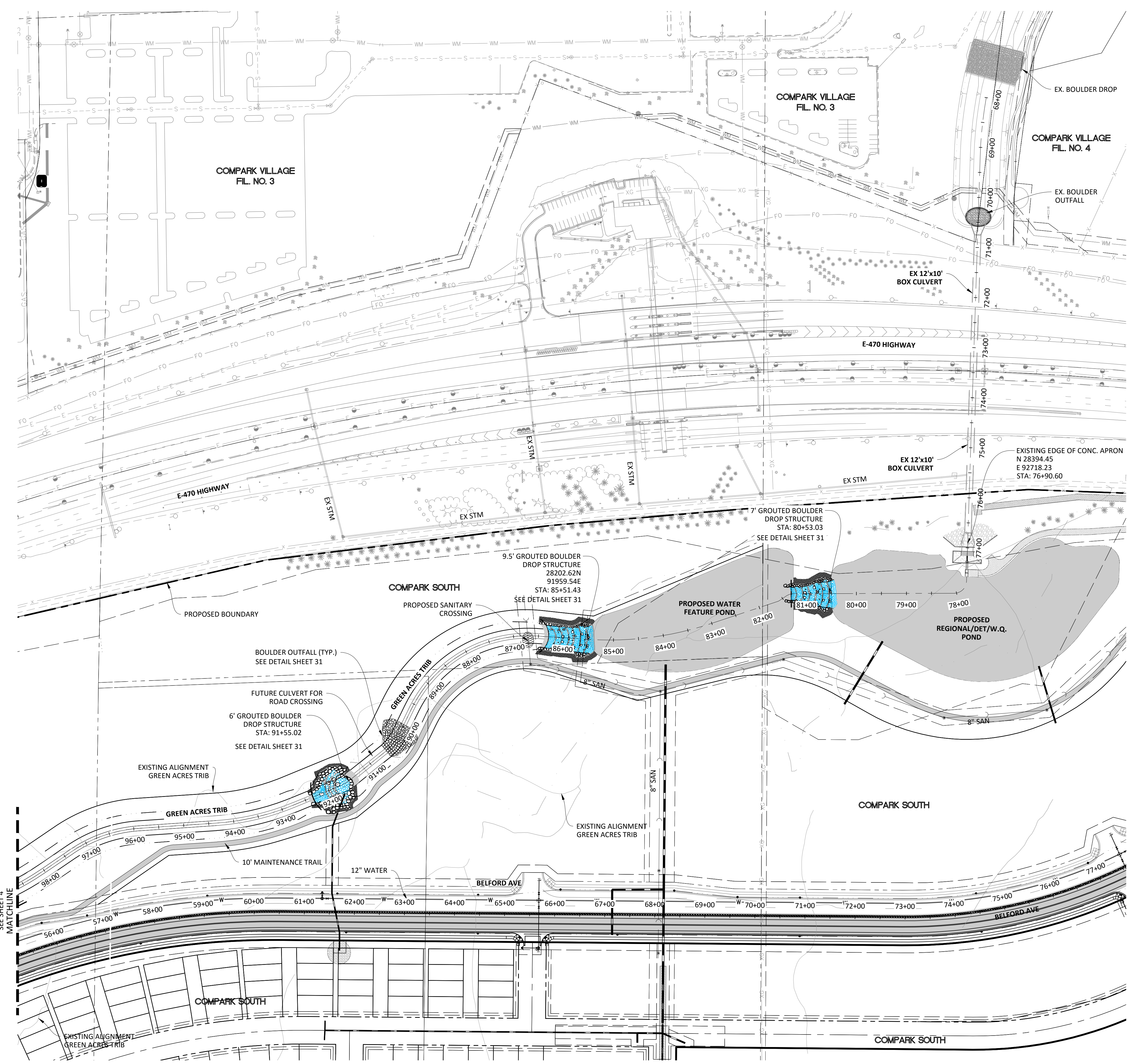
Approval stamps for PROJ. MGR., PROJ. ASSOC., DRAWN BY, and DATE, along with SHEET 2 OF 33 and CLCPKC3.

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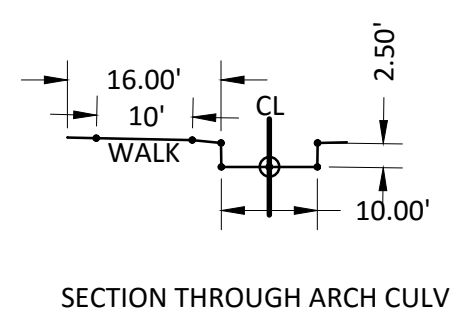
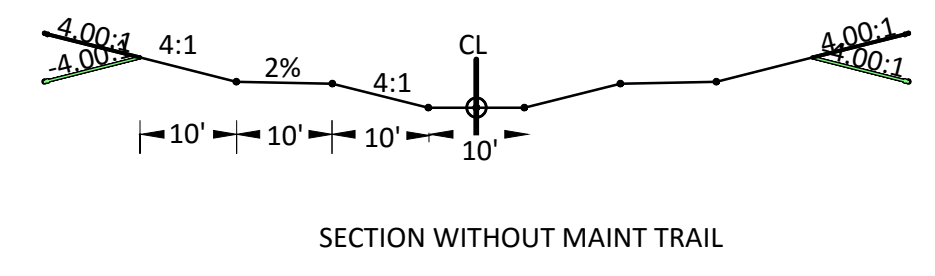
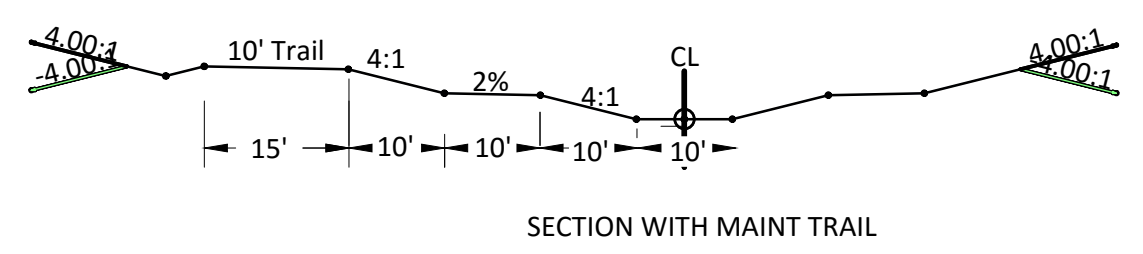
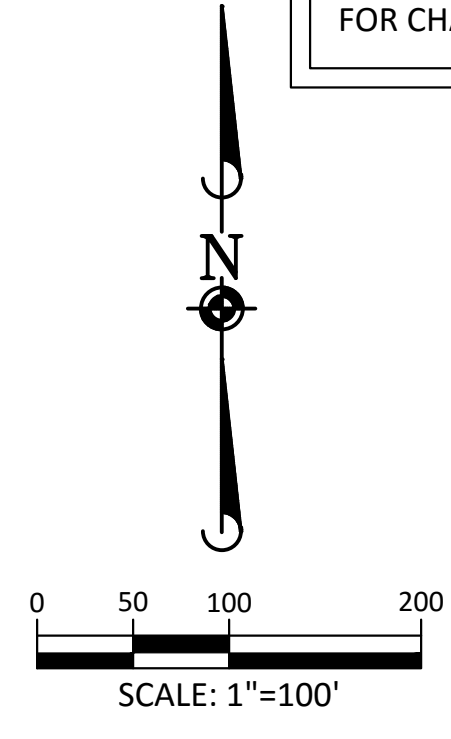
PENDING APPROVAL

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SOURCE BENCHMARKS:
 DOUGLAS COUNTY BM 1.115010
 A DOUGLAS COUNTY GIS MONUMENT SET IN CONCRETE LOCATED APPROXIMATELY 130 FEET SOUTHWESTERLY OF THE CENTERLINE OF CHAMBERS ROAD AND 95 FEET NORTHWESTERLY OF THE CENTERLINE OF COMPARK BOULEVARD. ELEVATION = 5752.84 (NAVD 88)

NOTE:
 SEE DRAINAGE PLAN/PROFILE SHEETS 6-10 FOR CHANNEL HORIZONTAL CONTROL



GAT TYPICAL CHANNEL SECTIONS

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DATE	REVISIONS
10/20/15	3RD SUBMITTAL
08/20/15	2ND SUBMITTAL
11/20/15	1ST SUBMITTAL

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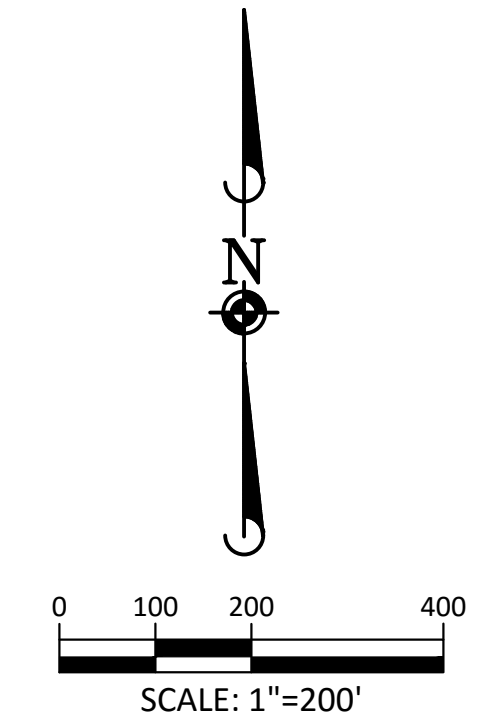
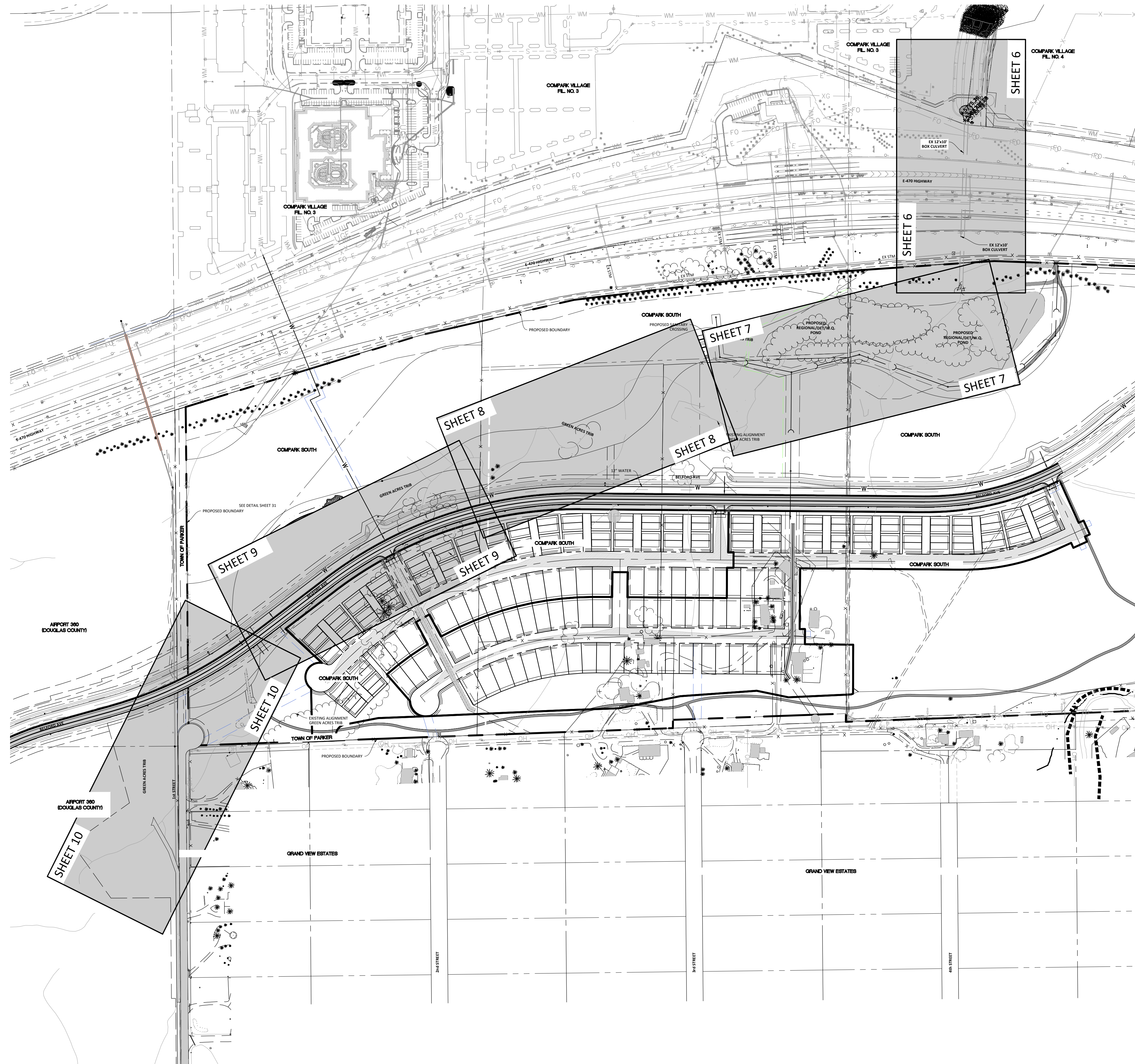
COMPARK VILLAGE SOUTH GREEN ACRES TRIBUTARY
TOWN OF PARKER, COLORADO
CHANNEL ALIGNMENT PLAN

PROJ. MGR.: RIM
 PROJ. ASSOC.: ASD
 DRAWN BY: ETG
 DATE: 11/2015

SHEET
3 OF 33
 CLPKC3

PENDING APPROVAL

Plotted: 11/17/2015 3:46 PM. Draw Name: P:\C\pkc3\CompSouth02_GreenAcres\Trib\Drawings\Plan Set\Town\CLCPKC3_Drainage_Index.dwg. Updated By: dbatz



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TOWN OF PARKER, DIRECTOR OF ENGINEERING _____ DATE _____

DATE	REVISIONS
10/2015	1ST SUBMITTAL
11/2015	2ND SUBMITTAL
12/2015	3RD SUBMITTAL

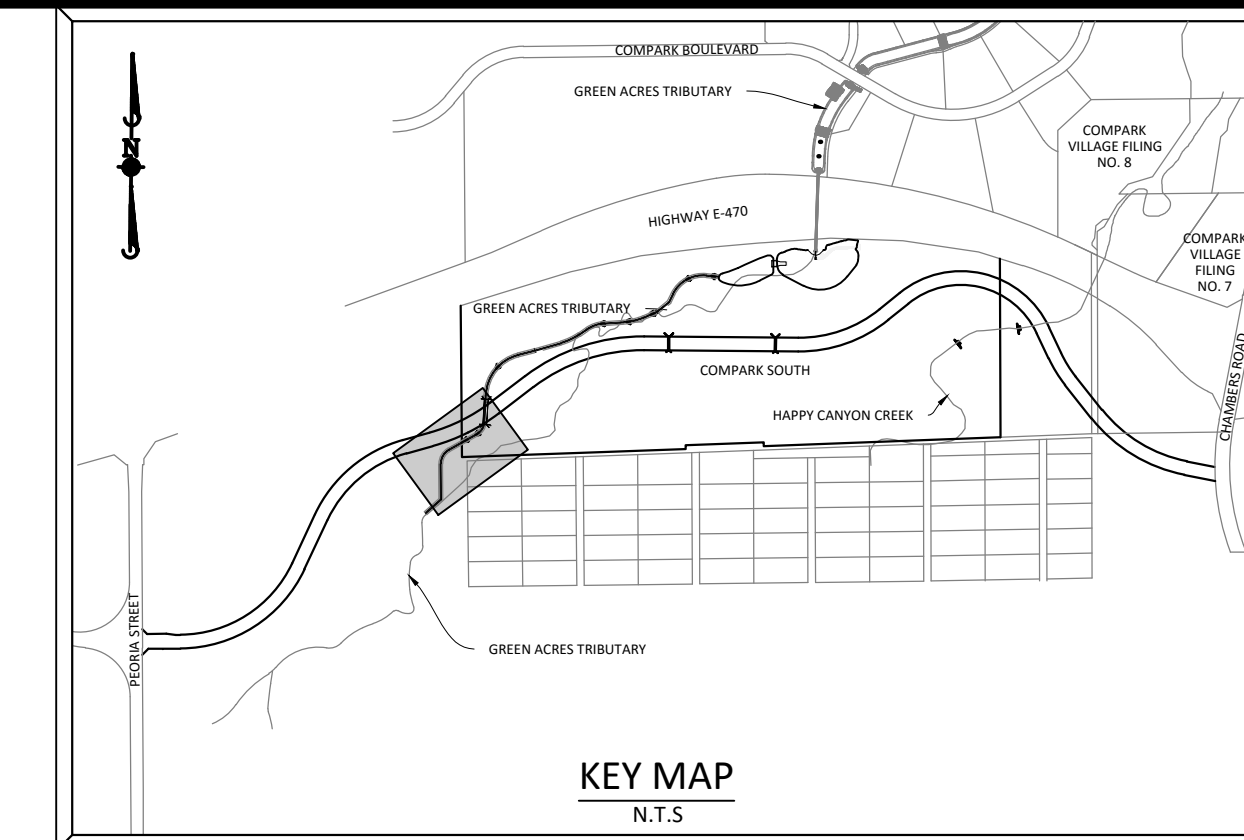
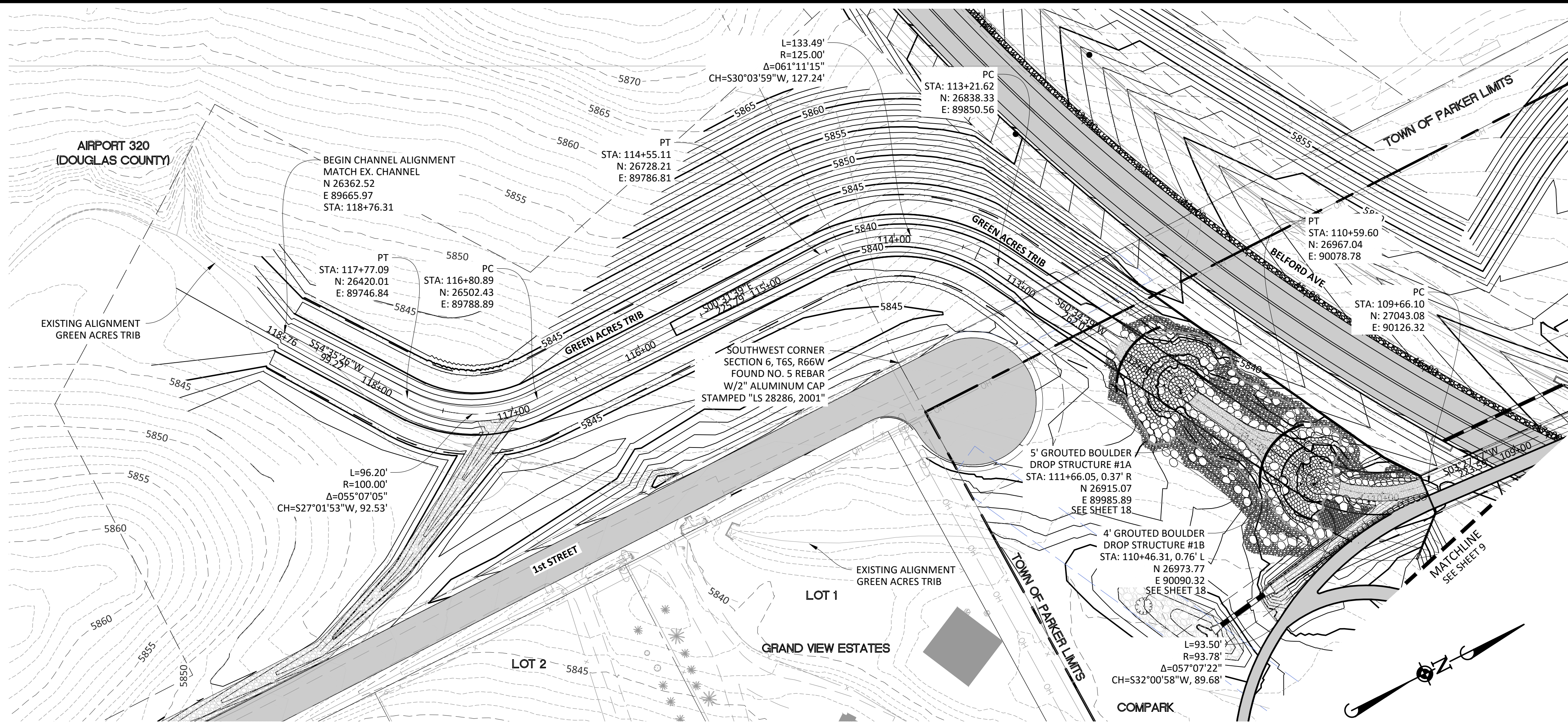
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COMPARK VILLAGE SOUTH GREEN ACRES TRIBUTARY
TOWN OF PARKER, COLORADO
SHEET INDEX

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PROJ. ASSOC.:	ASD
DRAWN BY:	ETG
DATE:	11/2015
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CLCPKC3	

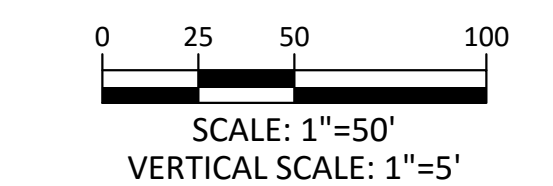
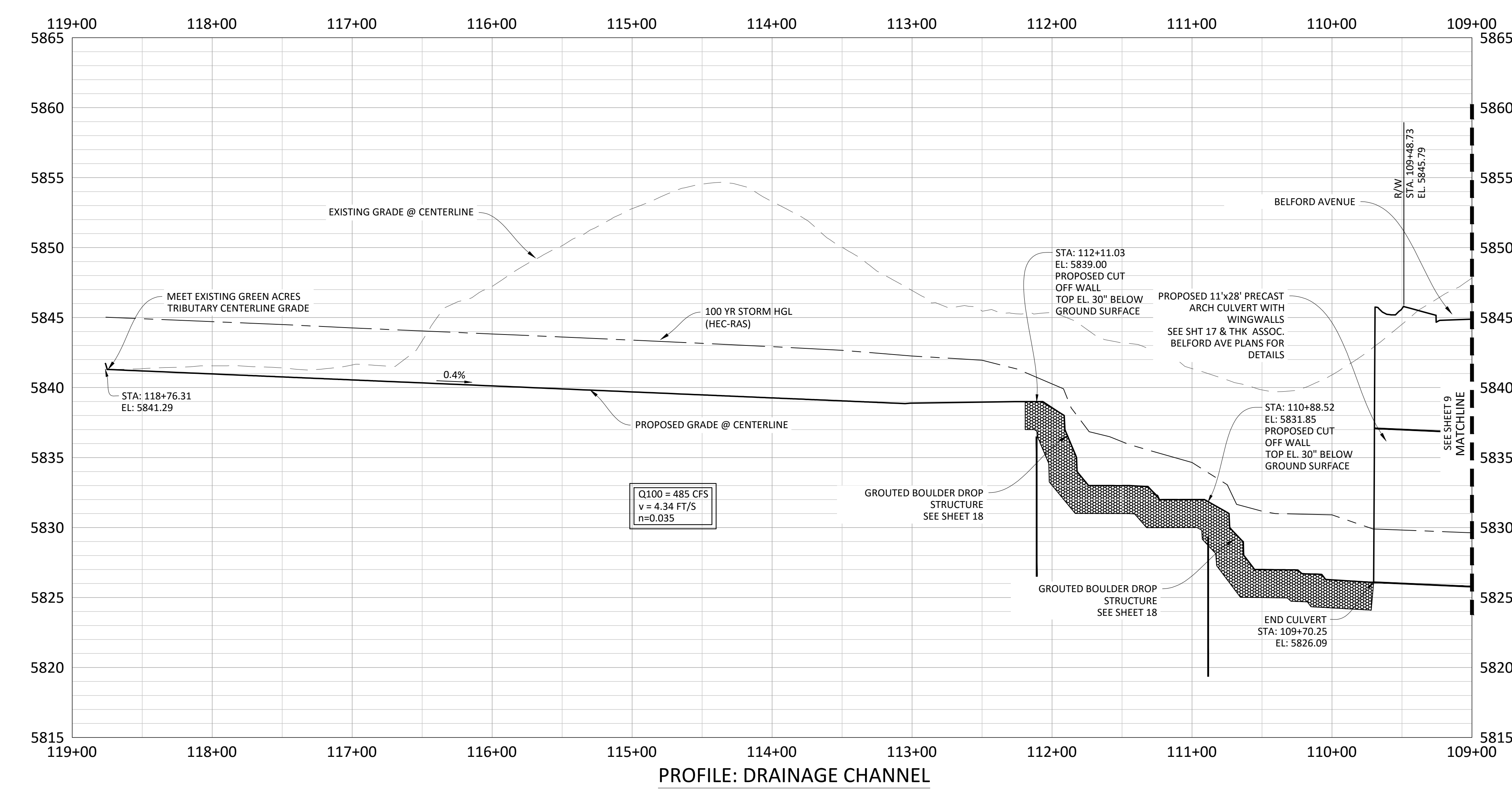
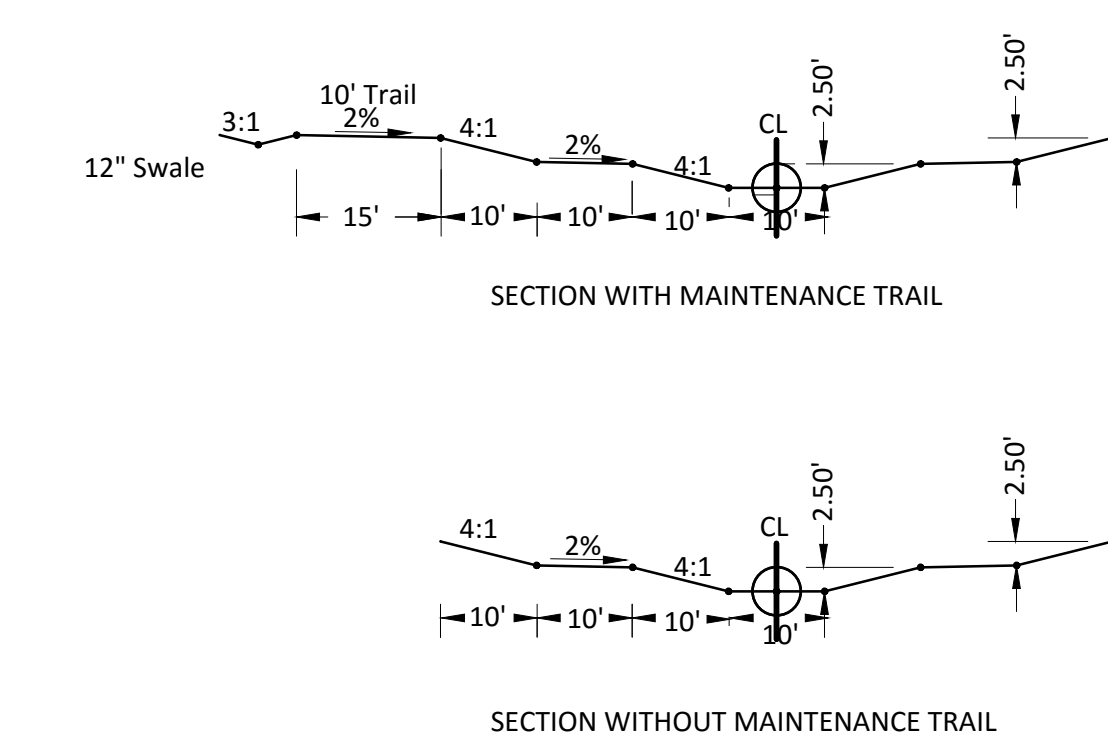
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PENDING APPROVAL



SOURCE BENCHMARKS:

DOUGLAS COUNTY BM 1.115010
A DOUGLAS COUNTY GIS MONUMENT SET IN CONCRETE LOCATED APPROXIMATELY 130 FEET SOUTHWESTERLY OF THE CENTERLINE OF CHAMBERS ROAD AND 95 FEET NORTHWESTERLY OF THE CENTERLINE OF COMPARK BOULEVARD. ELEVATION = 5752.84 (NAVD 88)



TOWN OF PARKER APPROVALS

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DATE	REVISIONS

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COMPARK VILLAGE SOUTH GREEN ACRES TRIBUTARY
TOWN OF PARKER, COLORADO
DRAINAGE PLAN & PROFILE

PROJ. MGR.: RIM
PROJ. ASSOC.: ASD
DRAWN BY: ETG
DATE: 11/2015

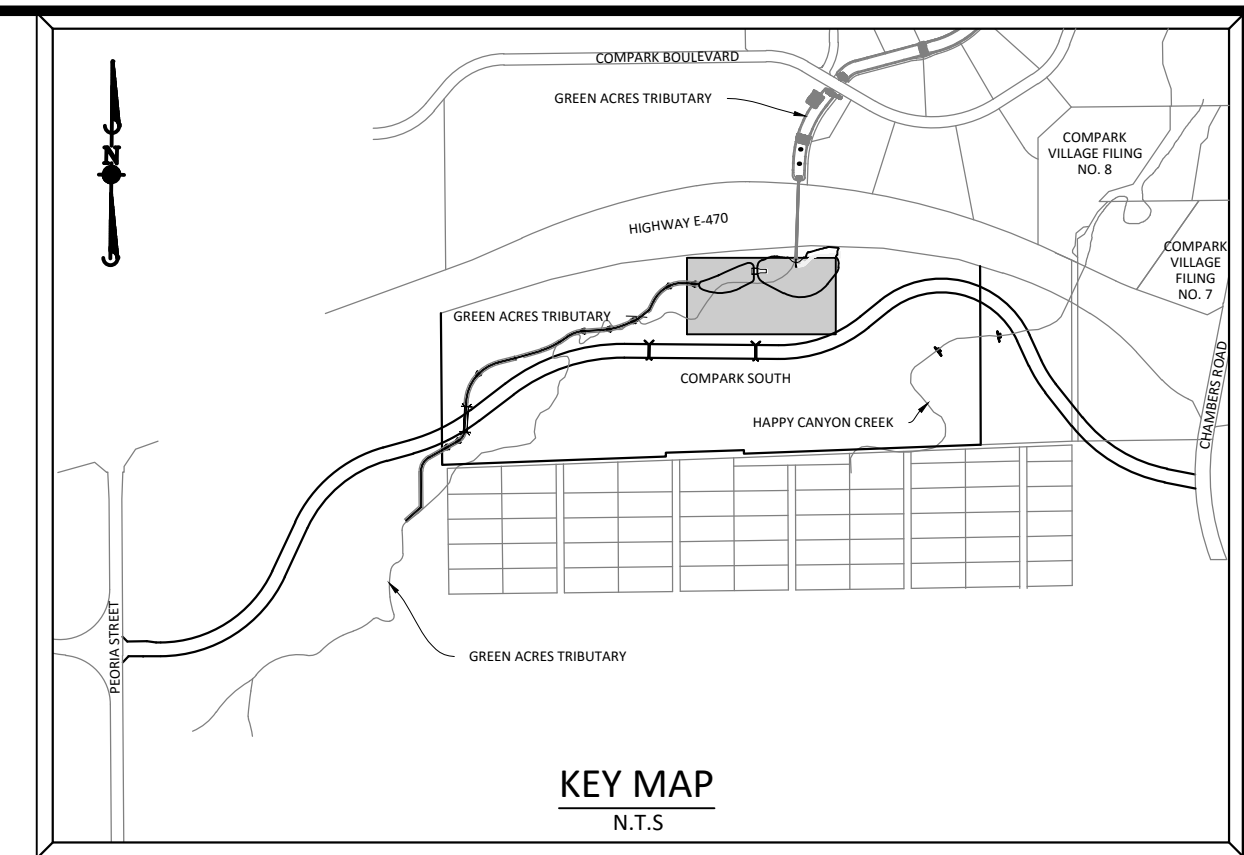
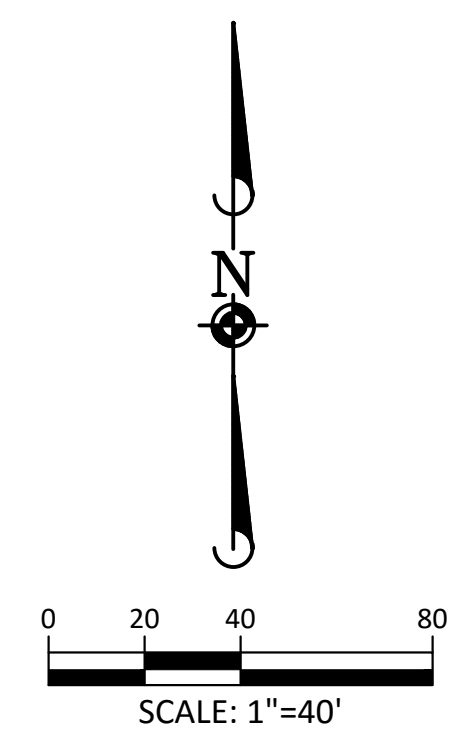
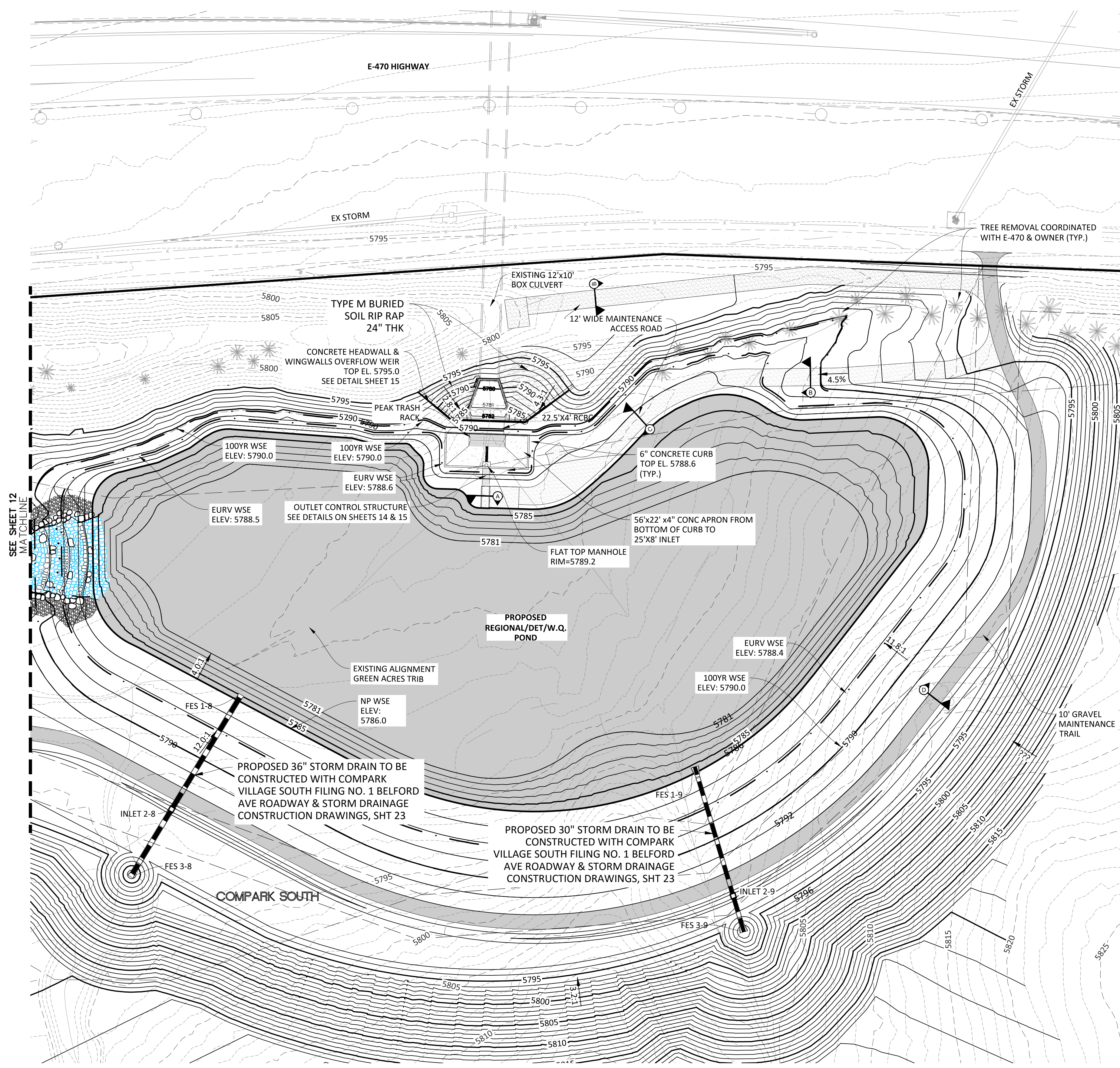
SHEET 10 OF 33

TOWN OF PARKER, DIRECTOR OF ENGINEERING DATE

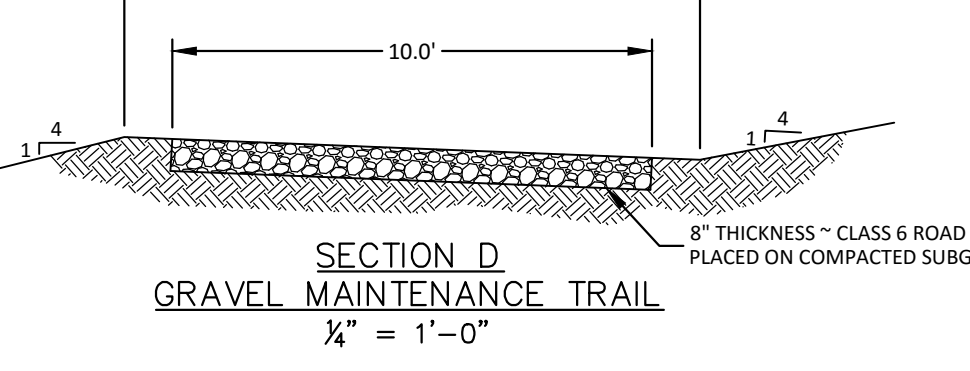
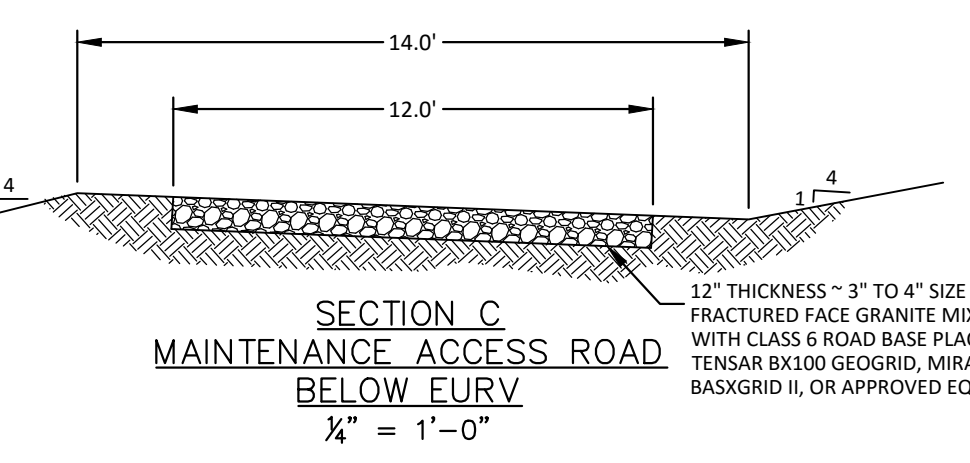
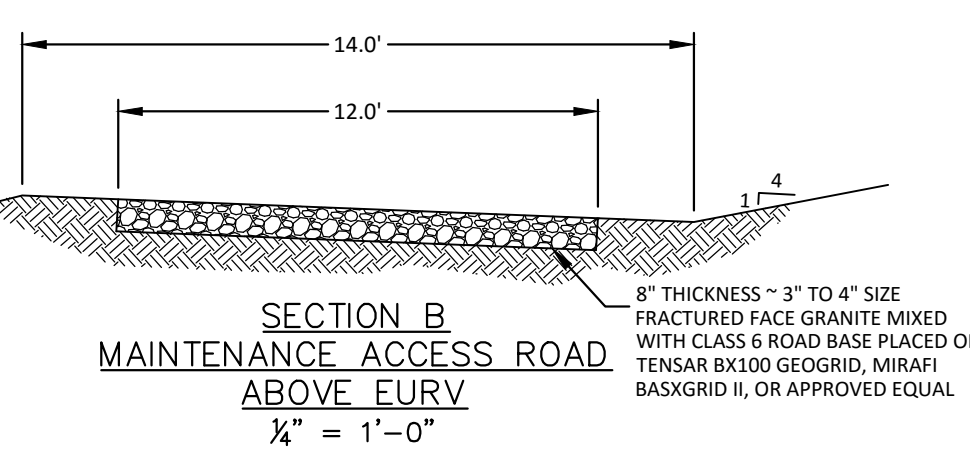
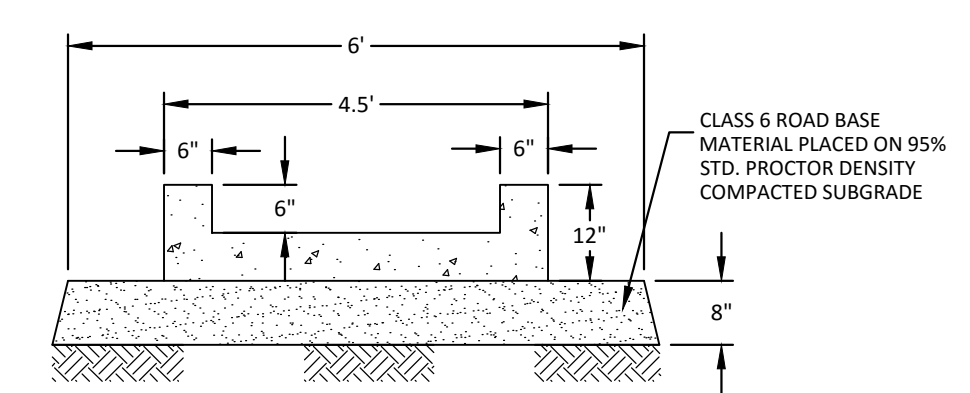
CLCPKC3

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PENDING APPROVAL

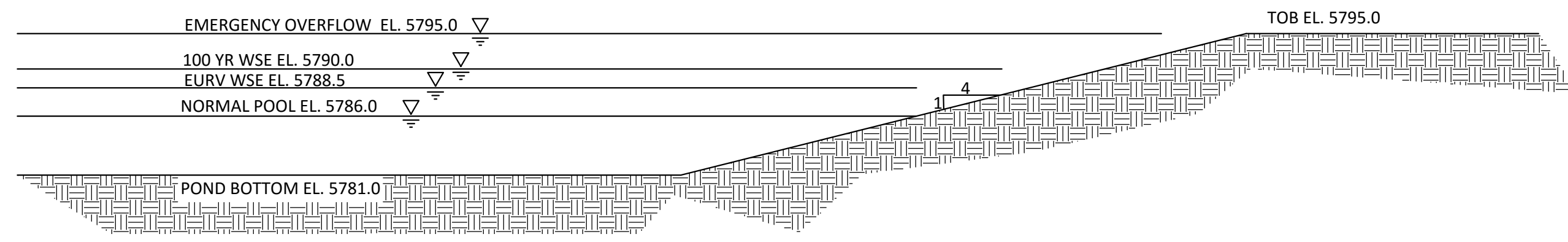


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	VOLUME	WSE	DISCHARGE
100 YR EURV	13.1 AC-FT 7.7 AC-FT	5790.0 5788.6	555.2 CFS 3.26 CFS

NOTE: A FLOODPLAIN DEVELOPMENT PERMIT IS REQUIRED FOR CONSTRUCTION WITHIN THE ZONE A OF THE GREEN ACRES TRIBUTARY
A POND LINER MAY BE REQUIRED. GEOTECH TO PROVIDE ANALYSIS/DESIGN ONCE ROUGH GRADING IS COMPLETE



TOWN OF PARKER APPROVALS

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TOWN OF PARKER, DIRECTOR OF ENGINEERING DATE

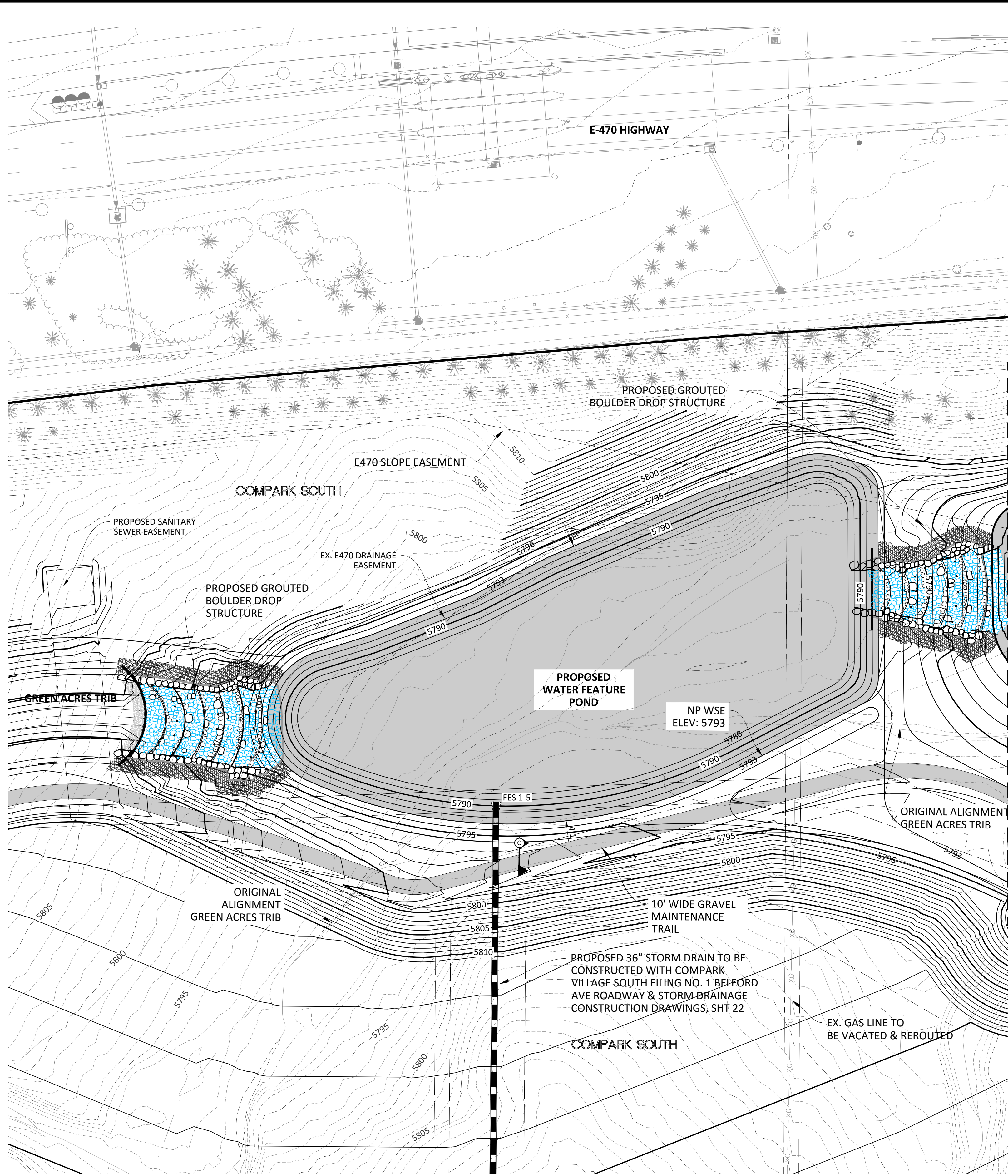
DATE	REVISIONS
10/2016	3RD SUBMITTAL
06/2016	2ND SUBMITTAL
11/2015	1ST SUBMITTAL

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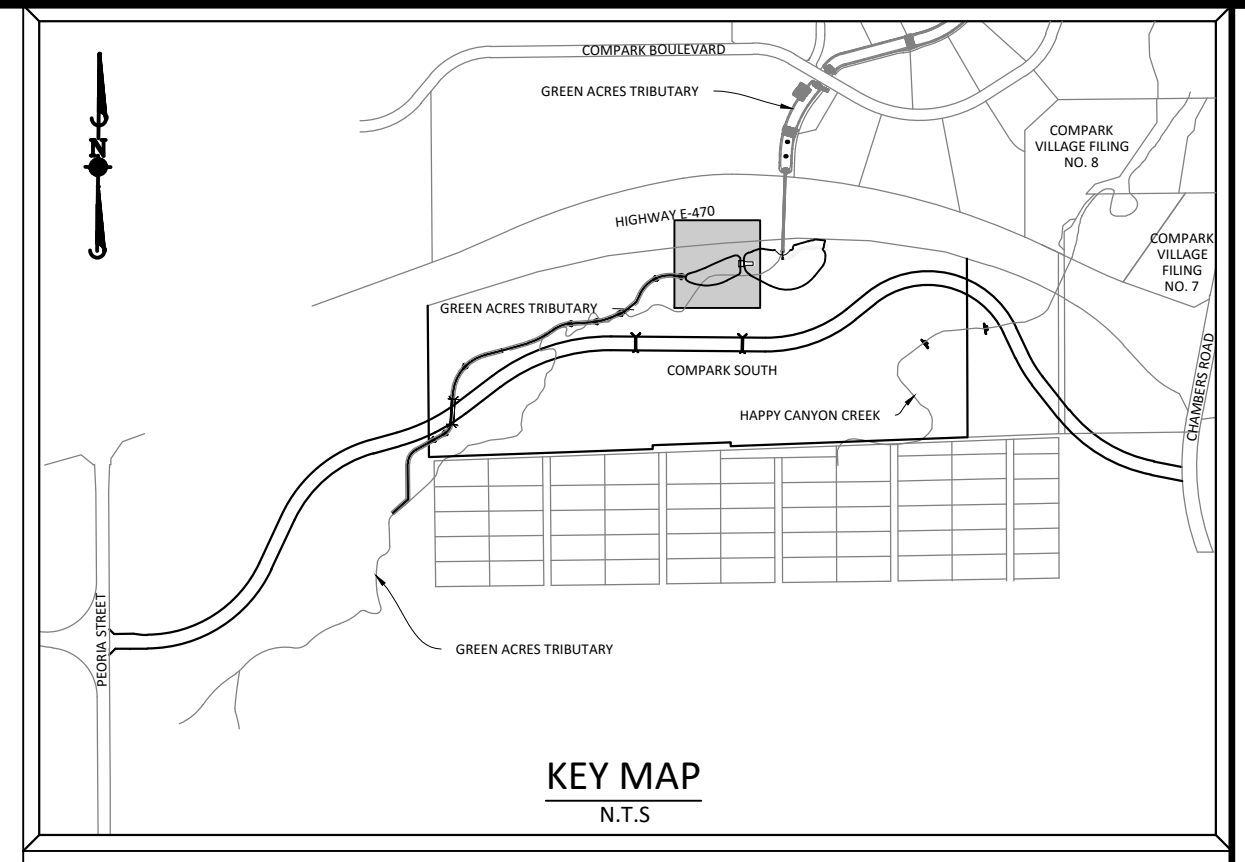
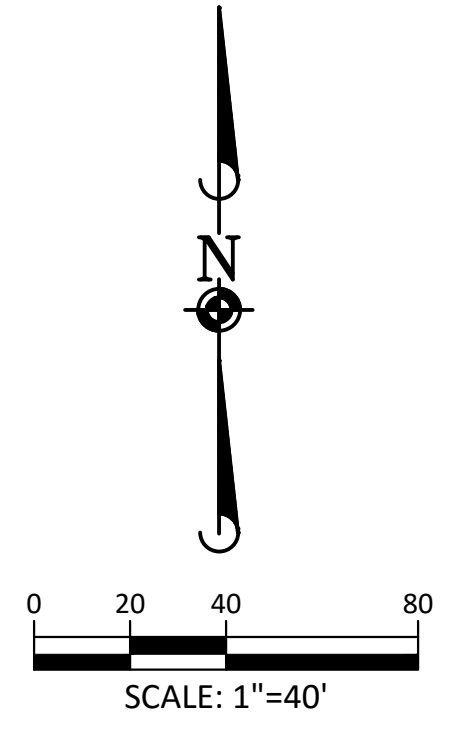
COMPARK VILLAGE SOUTH GREEN ACRES TRIBUTARY
 TOWN OF PARKER, COLORADO
 DETENTION POND PLAN

PROJ. MGR.: RJM
 PROJ. ASSOC.: ASD
 DRAWN BY: ETG
 DATE: 11/2015
 SHEET
11 OF 33
 CLCPKC3

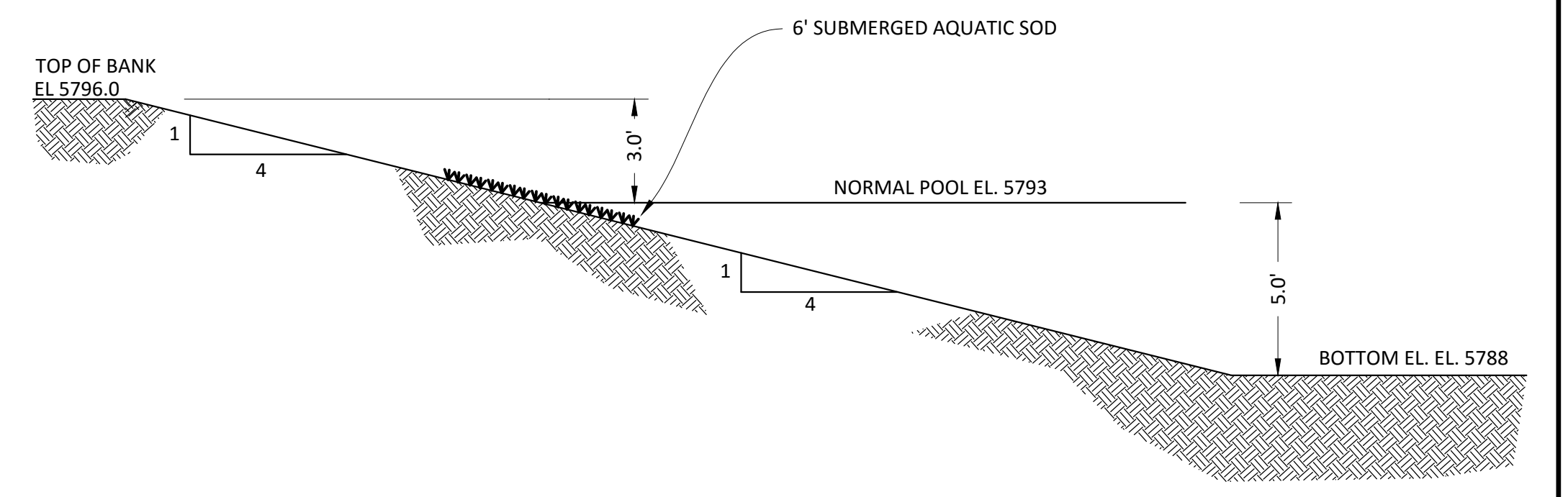
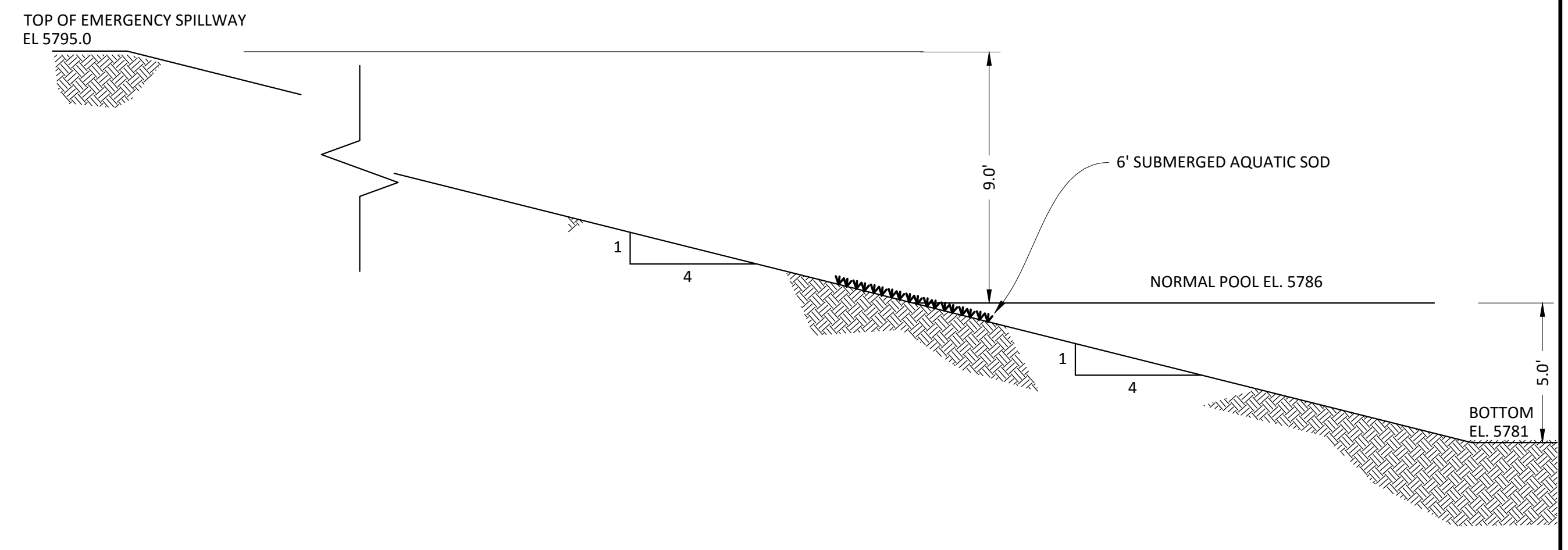
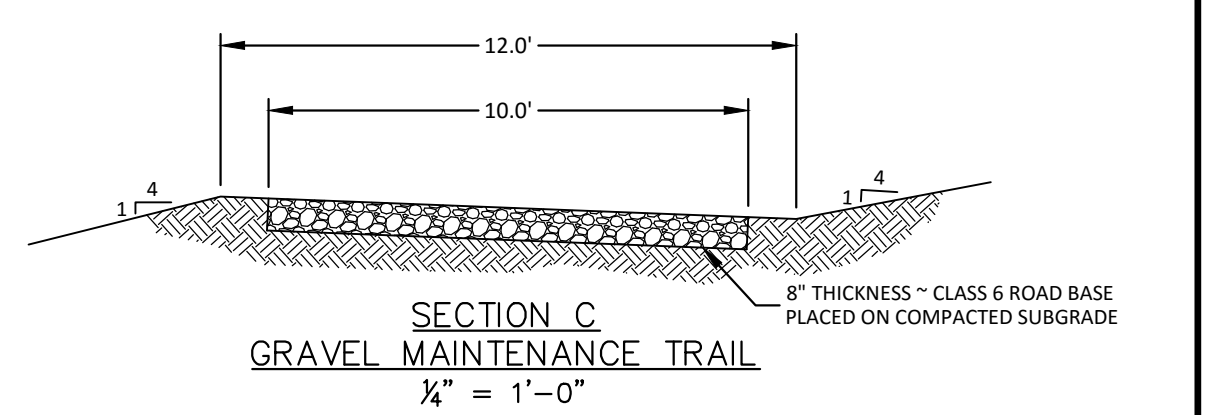
PENDING APPROVAL



NOTE: A FLOODPLAIN DEVELOPMENT PERMIT IS REQUIRED FOR CONSTRUCTION WITHIN THE ZONE A OF THE GREEN ACRES TRIBUTARY
 A POND LINER MAY BE REQUIRED. GEOTECH TO PROVIDE ANALYSIS/DESIGN ONCE ROUGH GRADING IS COMPLETE



SOURCE BENCHMARKS:
 DOUGLAS COUNTY BM 1.115010
 A DOUGLAS COUNTY GIS MONUMENT SET IN CONCRETE LOCATED APPROXIMATELY 130 FEET SOUTHWESTERLY OF THE CENTERLINE OF CHAMBERS ROAD AND 95 FEET NORTHWESTERLY OF THE CENTERLINE OF COMPAK BOULEVARD. ELEVATION = 5752.84 (NAVD 88)



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TOWN OF PARKER, DIRECTOR OF ENGINEERING _____ DATE _____

DATE	REVISIONS
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10/2016	3RD SUBMITTAL

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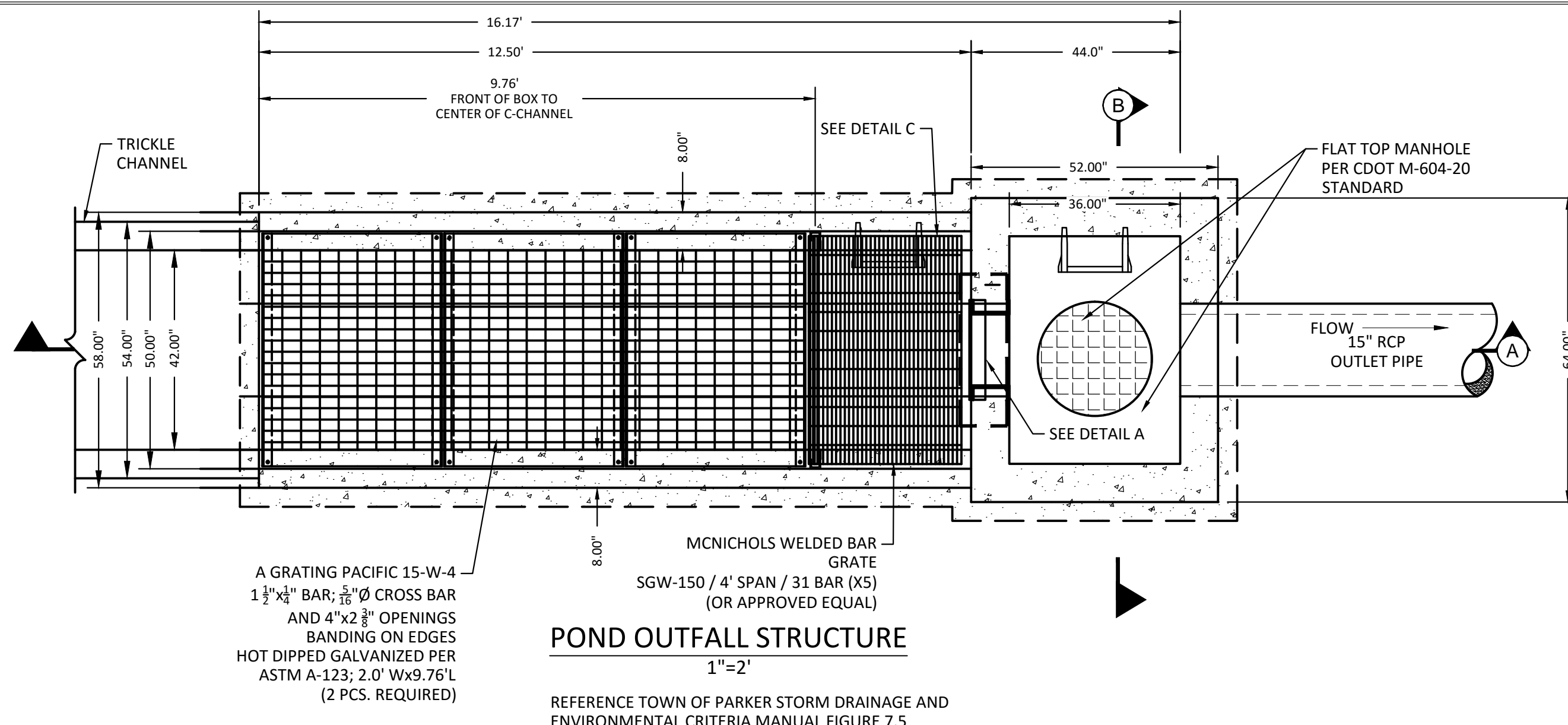
COMPARK VILLAGE SOUTH GREEN ACRES TRIBUTARY
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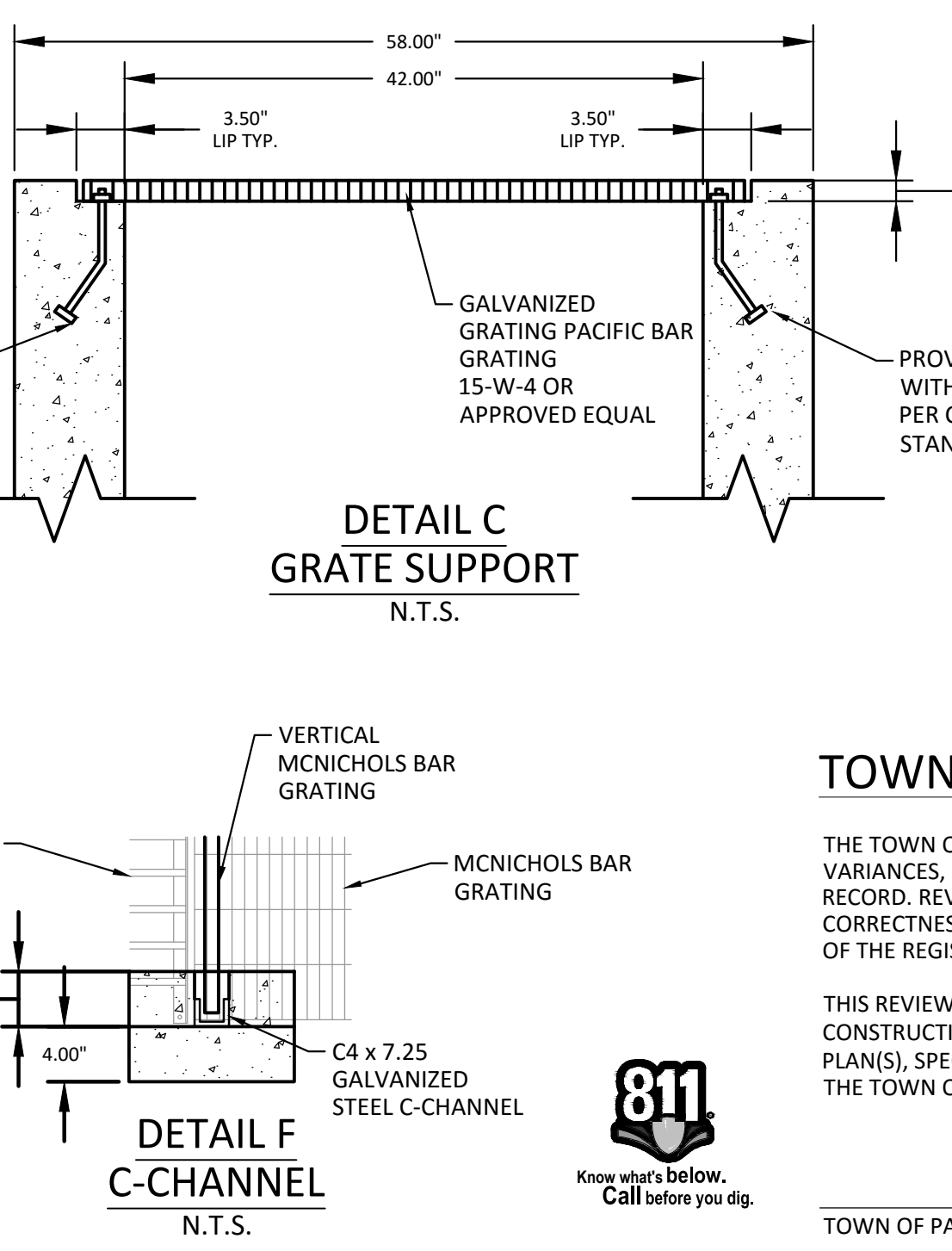
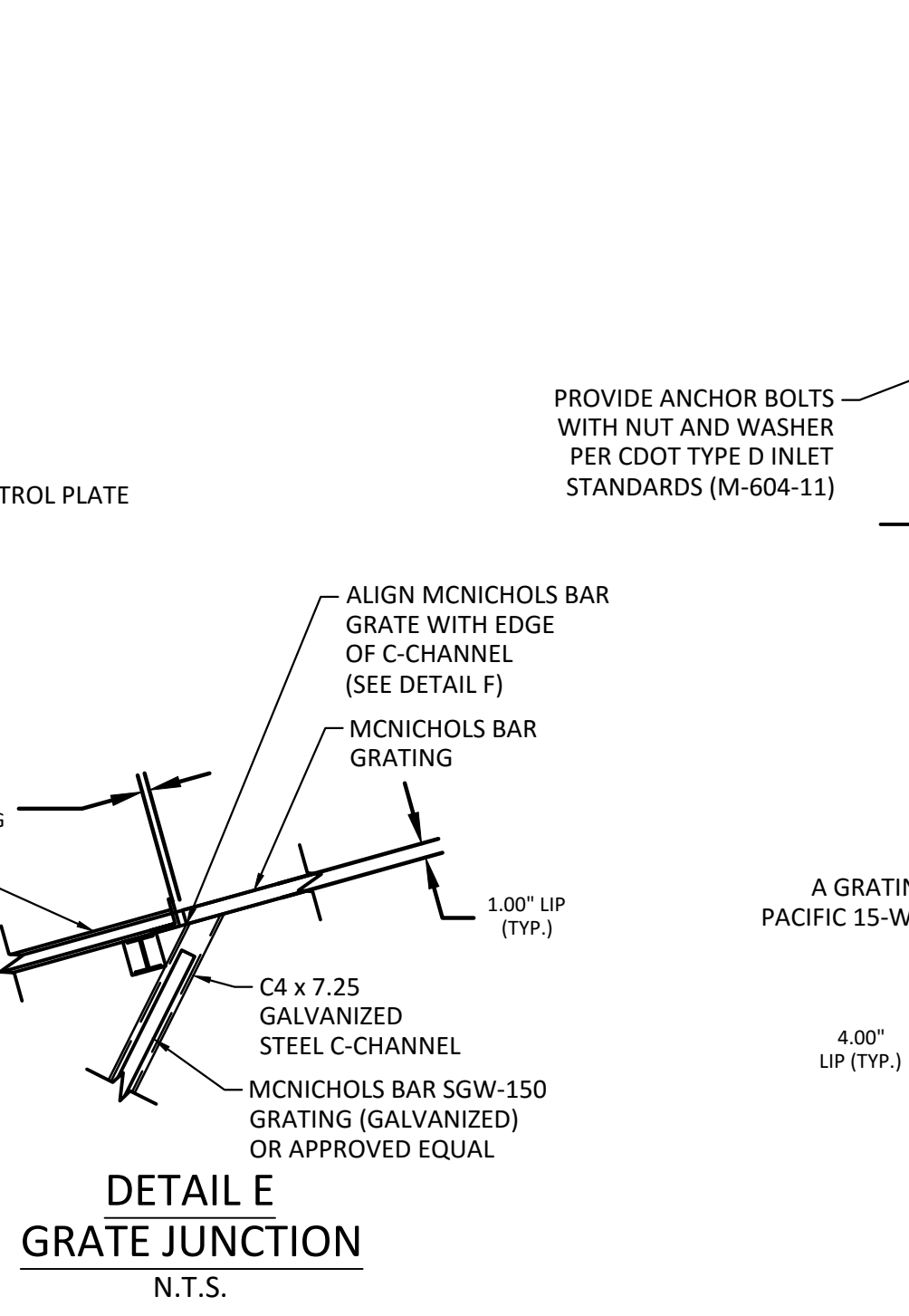
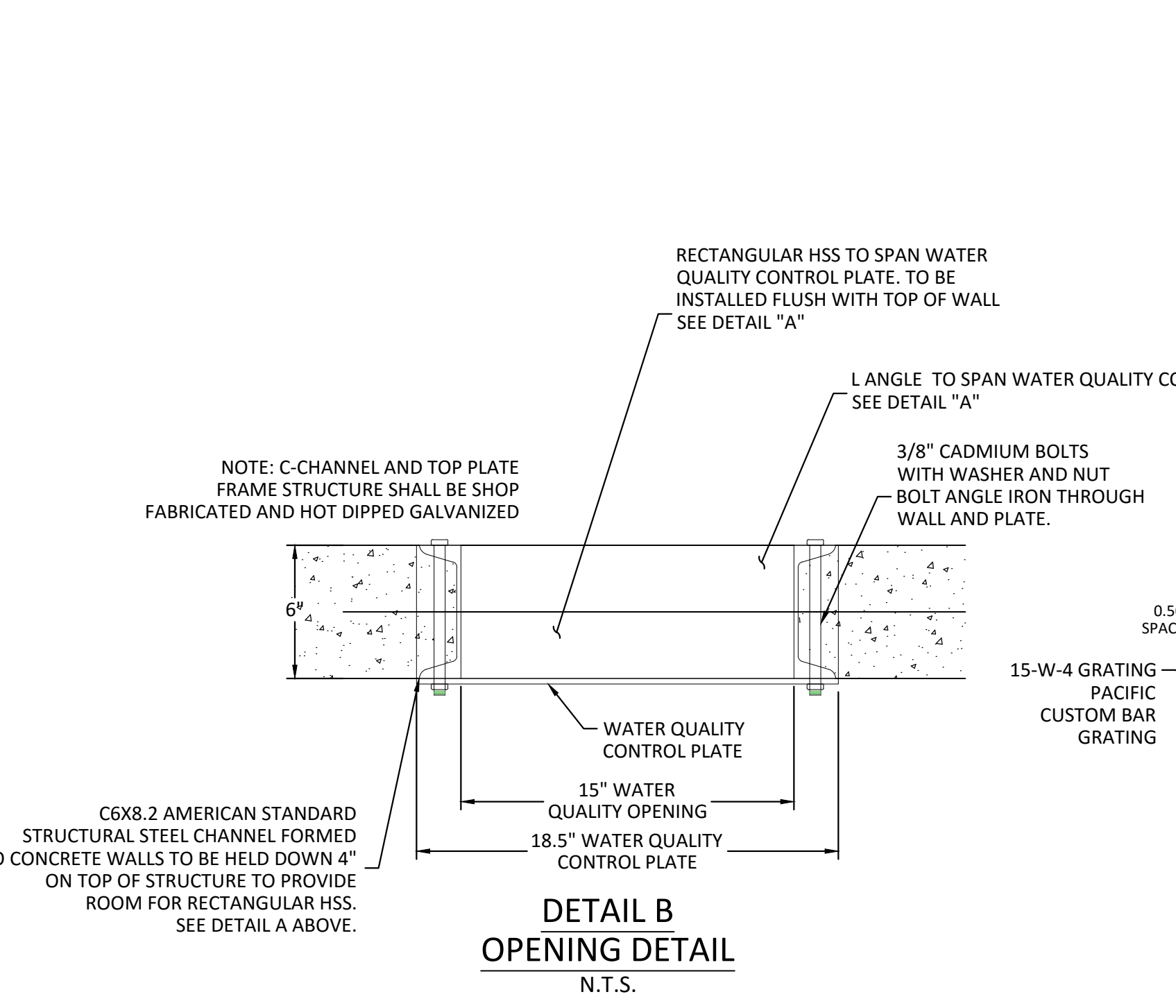
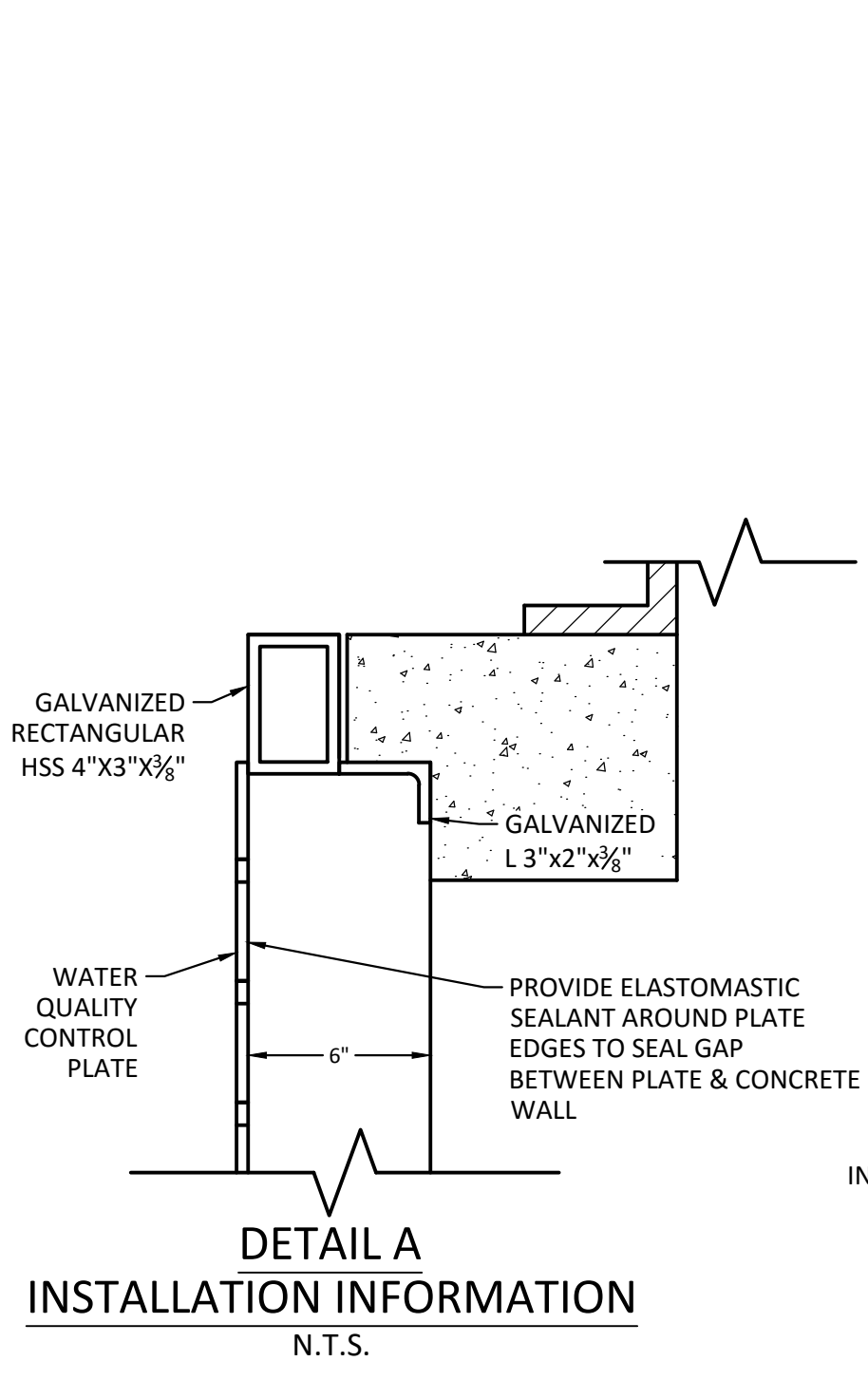
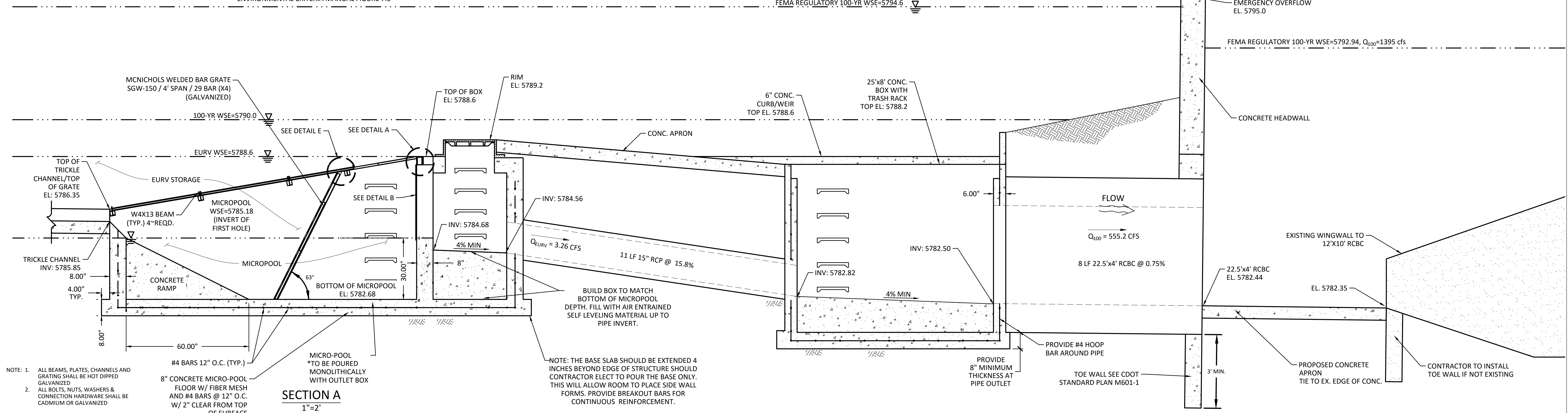
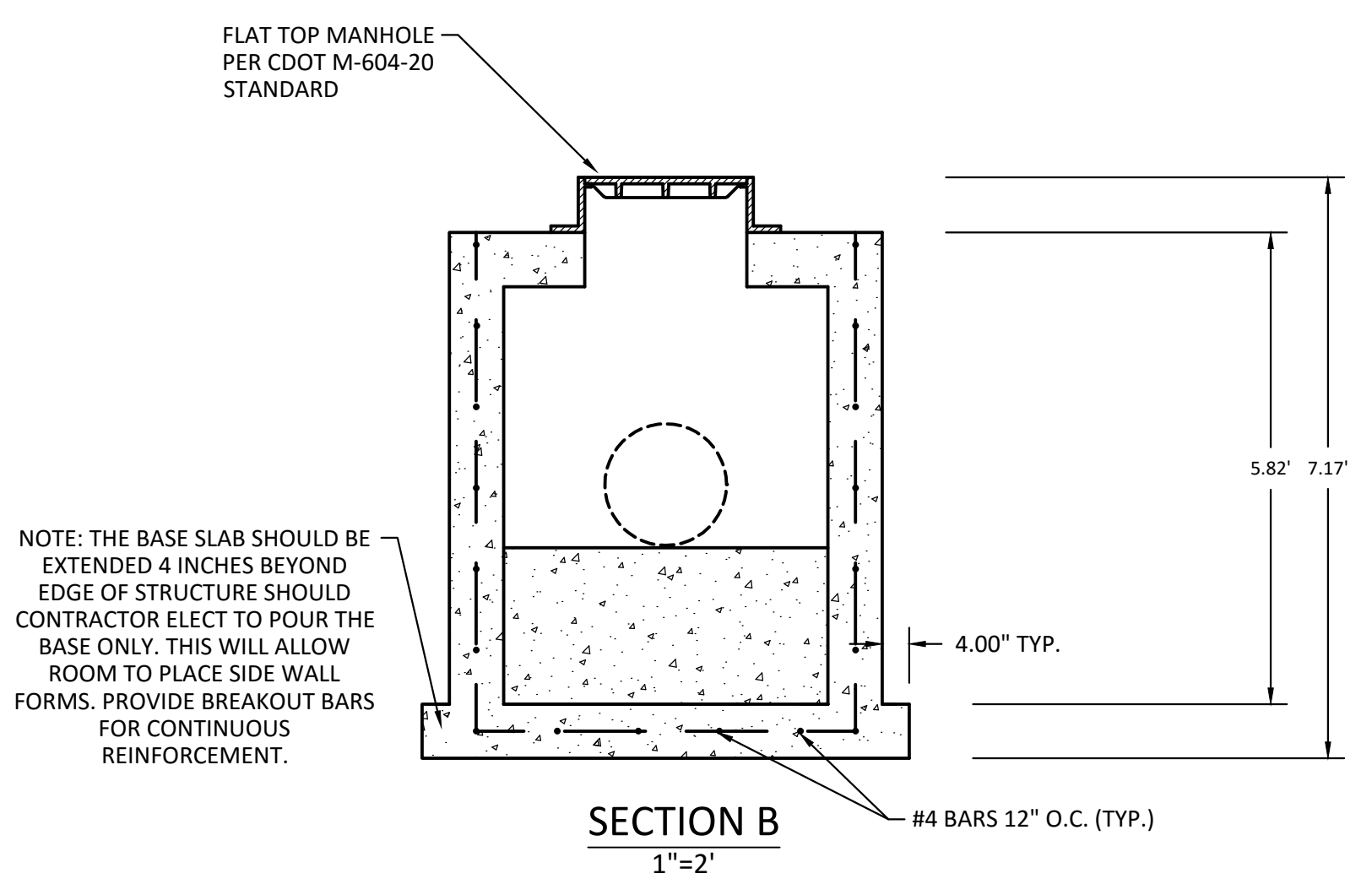
SHEET
12 OF 33
 CLCPKC3

PENDING APPROVAL

Plotted: 11/17/2016 4:14 PM. Draw Name: P:\Projects\3\CompSouth02_GreenAcresTrib\Drawings\Plan Set\Town\CLCPKC3_Drainage-Pond Plan (2).dwg. Updated By: adruicker



- NOTES:
1. REFER TO CDOT M-604-20 STANDARD, FLAT TOP MANHOLE FOR CONCRETE, MH COVER AND STEP REQUIREMENTS. REINFORCING BARS SHALL BE PLACED IN ALL INTERIOR, EXTERIOR AND BASE WALLS.
 2. STEPS SHALL BE PROVIDED, AS SHOWN ON DETAIL AND SHALL BE IN ACCORDANCE WITH AASHTO M 199.
 3. GRATES SHALL BE STANDARD GRATE TYPE.
 4. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.
 5. CONTRACTOR TO HAVE PROFESSIONAL ENGINEER DESIGN AND CERTIFY THE OUTLET STRUCTURE.



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PROJ. ASSOC.: ASD
DRAWN BY: ETG
DATE: 11/2015

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14 OF 33
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DATE

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COMPARK VILLAGE SOUTH GREEN ACRES TRIBUTARY
TOWN OF PARKER, COLORADO
POND OUTLET STRUCTURE DETAILS

DATE: 11/2/2016 4:17 PM
Dwg Name: P:\CLCPKC3\Combsouth02 - GreenAcres\15\150101\Eng\Final Drawings\Plan Set\Town\CLCPKC3-DRAINAGE-Pond Outlet Structure.dwg
Updated By: A.Druker

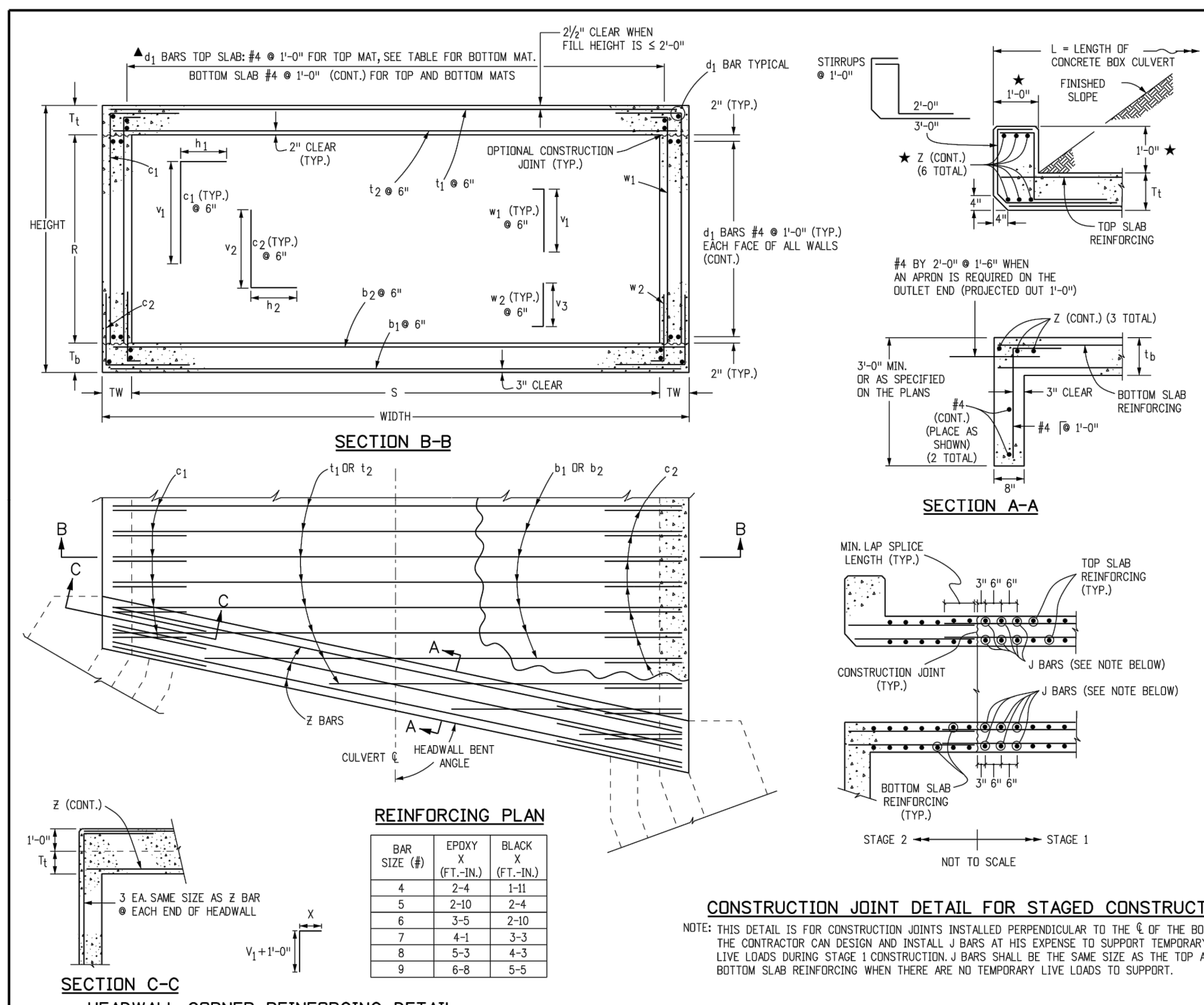
REVISIONS

NO.	DATE	DESCRIPTION
1	11/2/2015	1ST SUBMITTAL
2	06/20/2015	2ND SUBMITTAL
3	11/2/2015	3RD SUBMITTAL

DATE: 11/2/2016 4:17 PM
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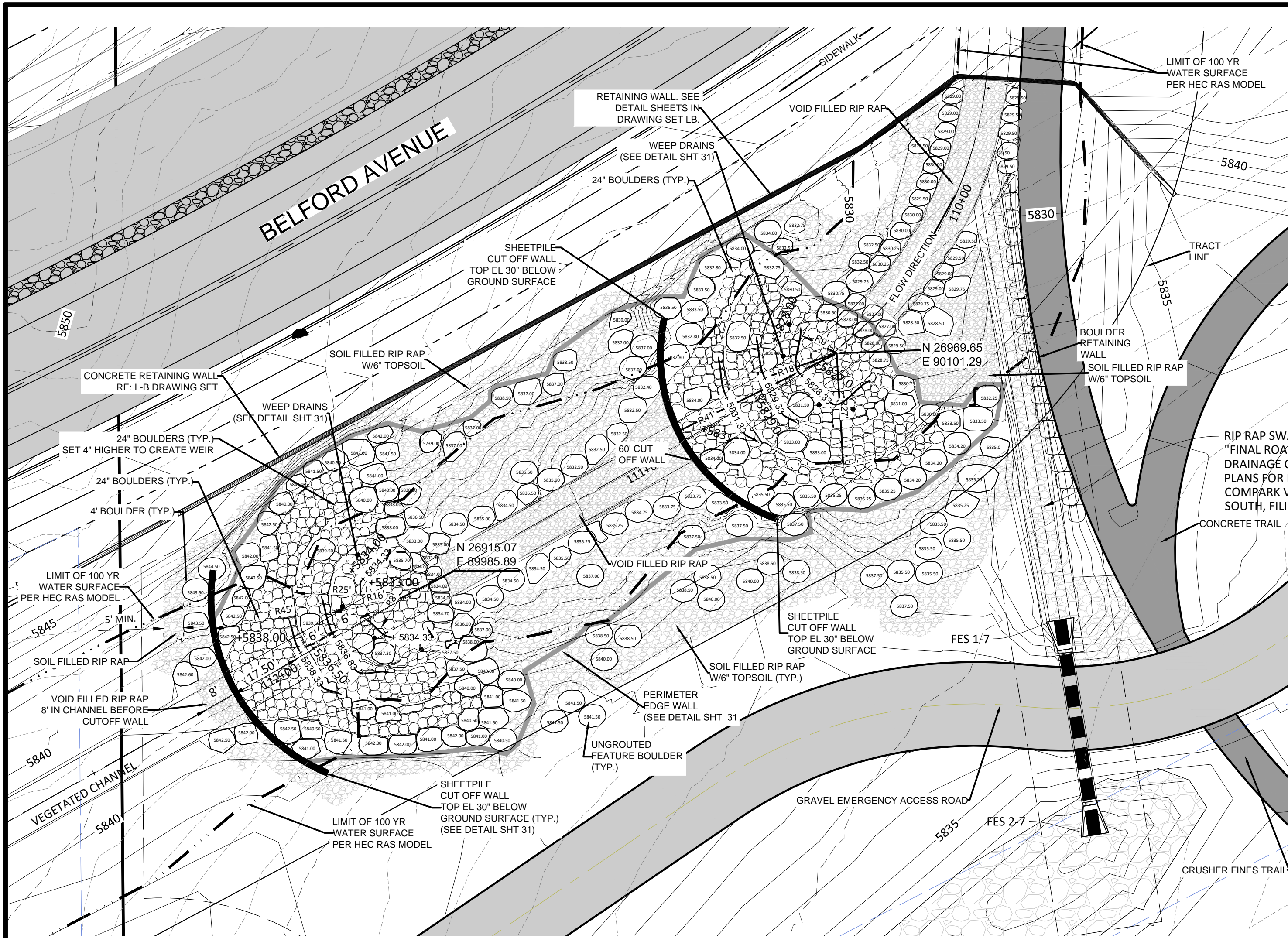
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GENERAL NOTES

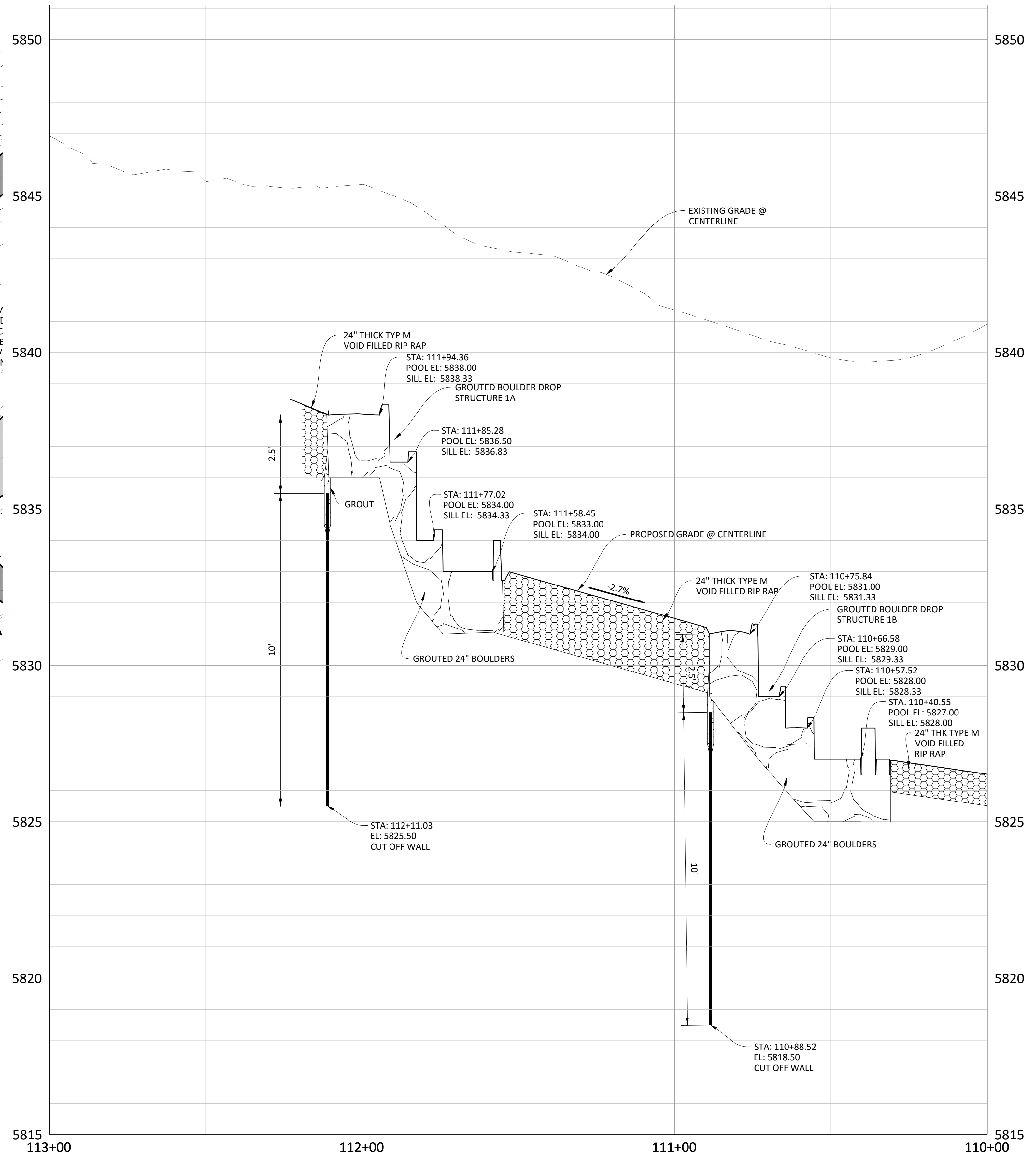
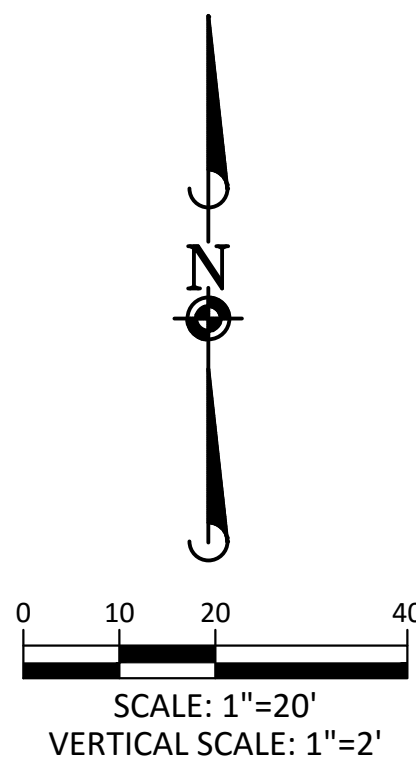
1. ALL CONCRETE SHALL BE CLASS II (BOX CULVERTS).
2. ALL CONSTRUCTION JOINTS SHALL BE THOROUGHLY CLEANED BEFORE FRESH CONCRETE IS PLACED.
3. ALL CONSTRUCTION JOINTS NOT SHOWN ON THE PLANS SHALL BE CONSTRUCTED ONLY IF APPROVED BY THE ENGINEER.
4. THE CONTRACTOR SHALL MAINTAIN THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION.
5. STRUCTURE EXCAVATION AND BACKFILL SHALL BE IN ACCORDANCE WITH STANDARD PLAN M-209-1.
6. BACKFILL SHALL NOT BEGIN UNTIL TOP SLAB HAS REACHED DESIGN STRENGTH, F_c.
7. SPLICE QUANTITIES FOR LONGITUDINAL AND TRANSVERSE BARS ARE NOT INCLUDED.
8. REINFORCING STEEL SHALL BE GRADE 60.
9. THE MINIMUM LAP SPlice LENGTH FOR EPOXY COATED REINFORCING BARS SHALL BE: (BAR SIZE) #4 #5 #6 #7 #8 #9 #10 #11 #12 #14 #16 #18 #20 #22 #24 #28 #30 #36 #42 #48 #54 #60 #66 #72 #78 #84 #90 #96 #102 #108 #114 #120 #126 #132 #138 #144 #150 #156 #162 #168 #174 #180 #186 #192 #198 #204 #210 #216 #222 #228 #234 #240 #246 #252 #258 #264 #270 #276 #282 #288 #294 #300 #306 #312 #318 #324 #330 #336 #342 #348 #354 #360 #366 #372 #378 #384 #390 #396 #402 #408 #414 #420 #426 #432 #438 #444 #450 #456 #462 #468 #474 #480 #486 #492 #498 #504 #510 #516 #522 #528 #534 #540 #546 #552 #558 #564 #570 #576 #582 #588 #594 #600 #606 #612 #618 #624 #630 #636 #642 #648 #654 #660 #666 #672 #678 #684 #690 #696 #702 #708 #714 #720 #726 #732 #738 #744 #750 #756 #762 #768 #774 #780 #786 #792 #798 #804 #810 #816 #822 #828 #834 #840 #846 #852 #858 #864 #870 #876 #882 #888 #894 #900 #906 #912 #918 #924 #930 #936 #942 #948 #954 #960 #966 #972 #978 #984 #990 #996 #1002 #1008 #1014 #1020 #1026 #1032 #1038 #1044 #1050 #1056 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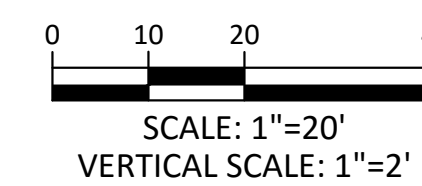
PLAN: DROP STRUCTURES 1A & 1B

NOTES:

1. ENTIRE STRUCTURE TO BE GROUTED FROM EDGE WALL TO EDGE WALL
2. GEOTECH TO PROVIDE SEEPAGE ANALYSIS FOR THE DROP STRUCTURES ONCE SITE IS ROUGH GRADED



PROFILE: DROP STRUCTURES 1A & 1B



DATE	REVISIONS
A. 11/2015	1ST SUBMITTAL
B. 06/2016	2ND SUBMITTAL
C. 06/2016	3RD SUBMITTAL
D. 06/2016	4TH SUBMITTAL
E. 06/2016	5TH SUBMITTAL
F. 06/2016	6TH SUBMITTAL
G. 06/2016	7TH SUBMITTAL
H. 06/2016	8TH SUBMITTAL
I. 06/2016	9TH SUBMITTAL
J. 06/2016	10TH SUBMITTAL
K. 06/2016	11TH SUBMITTAL
L. 06/2016	12TH SUBMITTAL
M. 06/2016	13TH SUBMITTAL
N. 06/2016	14TH SUBMITTAL
O. 06/2016	15TH SUBMITTAL
P. 06/2016	16TH SUBMITTAL
Q. 06/2016	17TH SUBMITTAL
R. 06/2016	18TH SUBMITTAL
S. 06/2016	19TH SUBMITTAL
T. 06/2016	20TH SUBMITTAL
U. 06/2016	21ST SUBMITTAL
V. 06/2016	22ND SUBMITTAL
W. 06/2016	23RD SUBMITTAL
X. 06/2016	24TH SUBMITTAL
Y. 06/2016	25TH SUBMITTAL
Z. 06/2016	26TH SUBMITTAL
AA. 06/2016	27TH SUBMITTAL
AB. 06/2016	28TH SUBMITTAL
AC. 06/2016	29TH SUBMITTAL
AD. 06/2016	30TH SUBMITTAL
AE. 06/2016	31ST SUBMITTAL
AF. 06/2016	32ND SUBMITTAL
AG. 06/2016	33RD SUBMITTAL
AH. 06/2016	34TH SUBMITTAL
AI. 06/2016	35TH SUBMITTAL
AJ. 06/2016	36TH SUBMITTAL
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AL. 06/2016	38TH SUBMITTAL
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BK. 06/2016	63RD SUBMITTAL
BL. 06/2016	64TH SUBMITTAL
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BN. 06/2016	66TH SUBMITTAL
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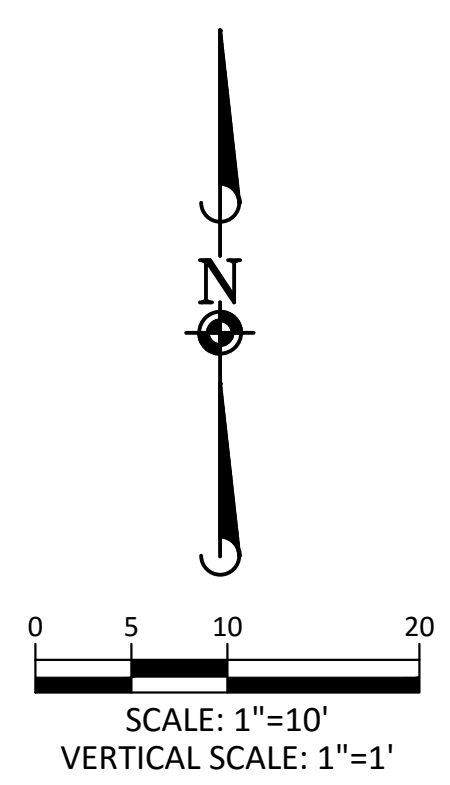
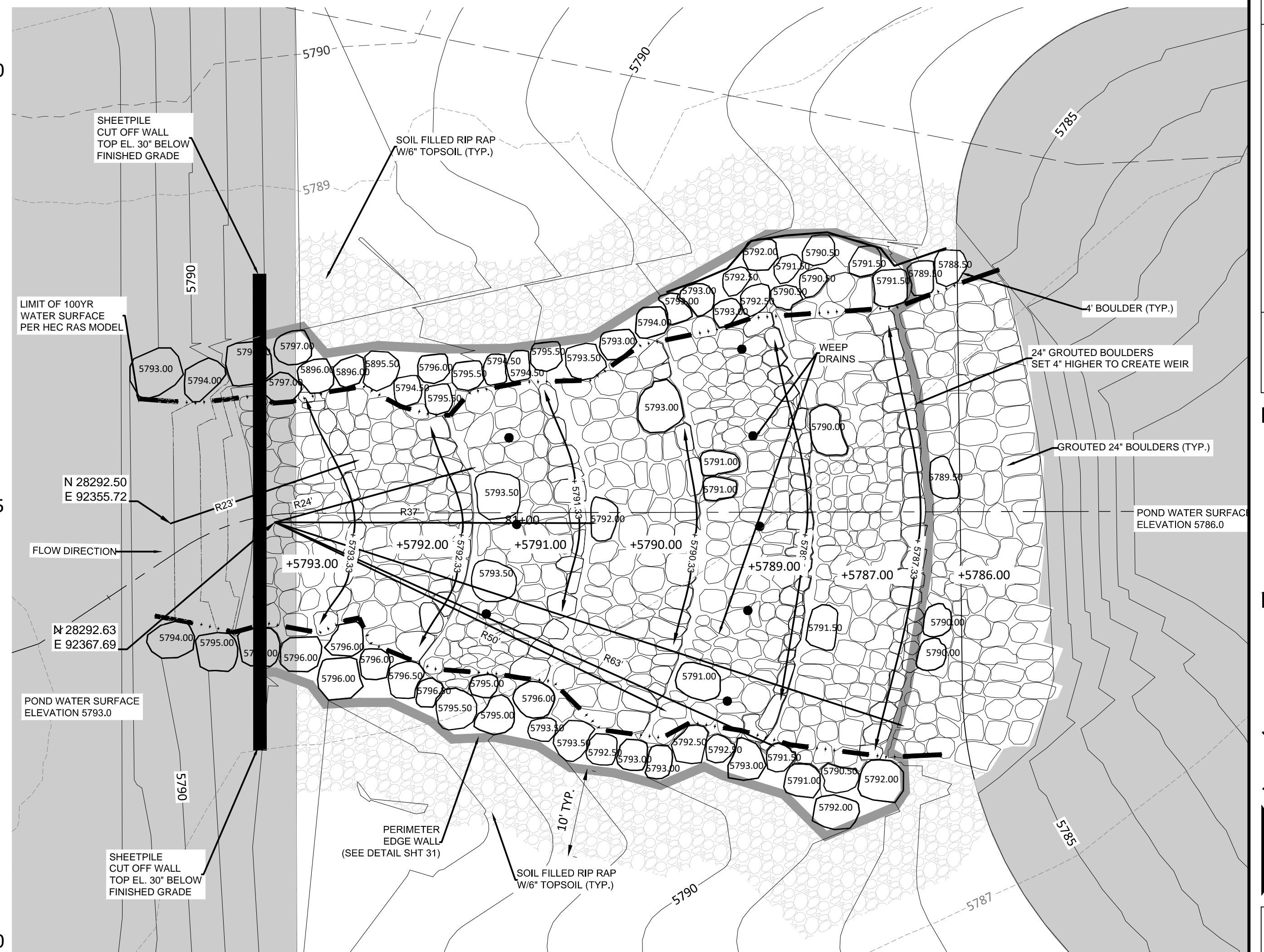
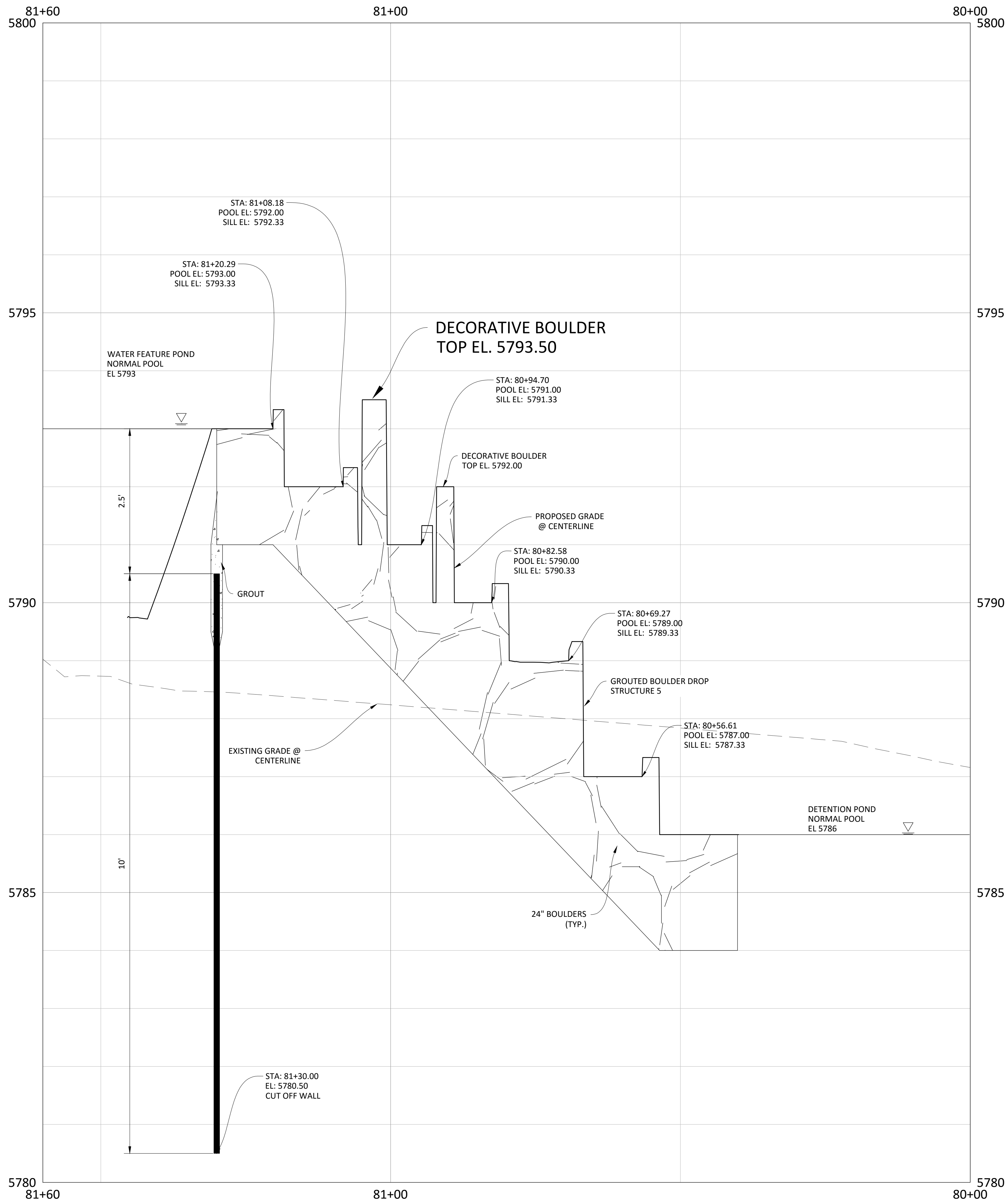
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 303.733.1100
 Construction Management • Environmental Science • Landscape Architecture • Planning

COMPARK VILLAGE SOUTH GREEN ACRES TRIBUTARY
 TOWN OF PARKER, COLORADO
 DROP STRUCTURE 1A & 1B PLAN & PROFILE

PROJ. MGR.: RIM
 PROJ. ASSOC.: ASD
 DRAWN BY: ETG
 DATE: 11/2015
 SHEET
18 OF 33
 CLCPKC3

PENDING APPROVAL

Plotted: 11/17/2016 4:25 PM. Dwg Name: P:\CLCPKC3\ComparkVillageSouthGreenAcres\Trib.dwg (Final Drawings)\Plan Set\Town\CLCPKC3 - Drop Structures P&P.dwg. Updated By: adruker



- NOTES:**
- ENTIRE STRUCTURE TO BE GROUTED FROM EDGE WALL TO EDGE WALL
 - GEOTECH TO PROVIDE SEEPAGE ANALYSIS FOR THE DROP STRUCTURES ONCE SITE IS ROUGH GRADED

Plotted: 11/17/2016 4:29 PM, Day Name: P:\C\proj33\Comp\South02_GreenAcres\Trib\Drawn\Final\Drawings\Plan Set\Town\CLCPKC3 - Drop Boulders B&E.dwg, Updated By: A.Brucker

DATE	REVISIONS
11/2015	1ST SUBMITTAL
06/2016	2ND SUBMITTAL
	EG

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COMPARK VILLAGE SOUTH GREEN ACRES TRIBUTARY
TOWN OF PARKER, COLORADO
DROP STRUCTURE 5 PLAN & PROFILE

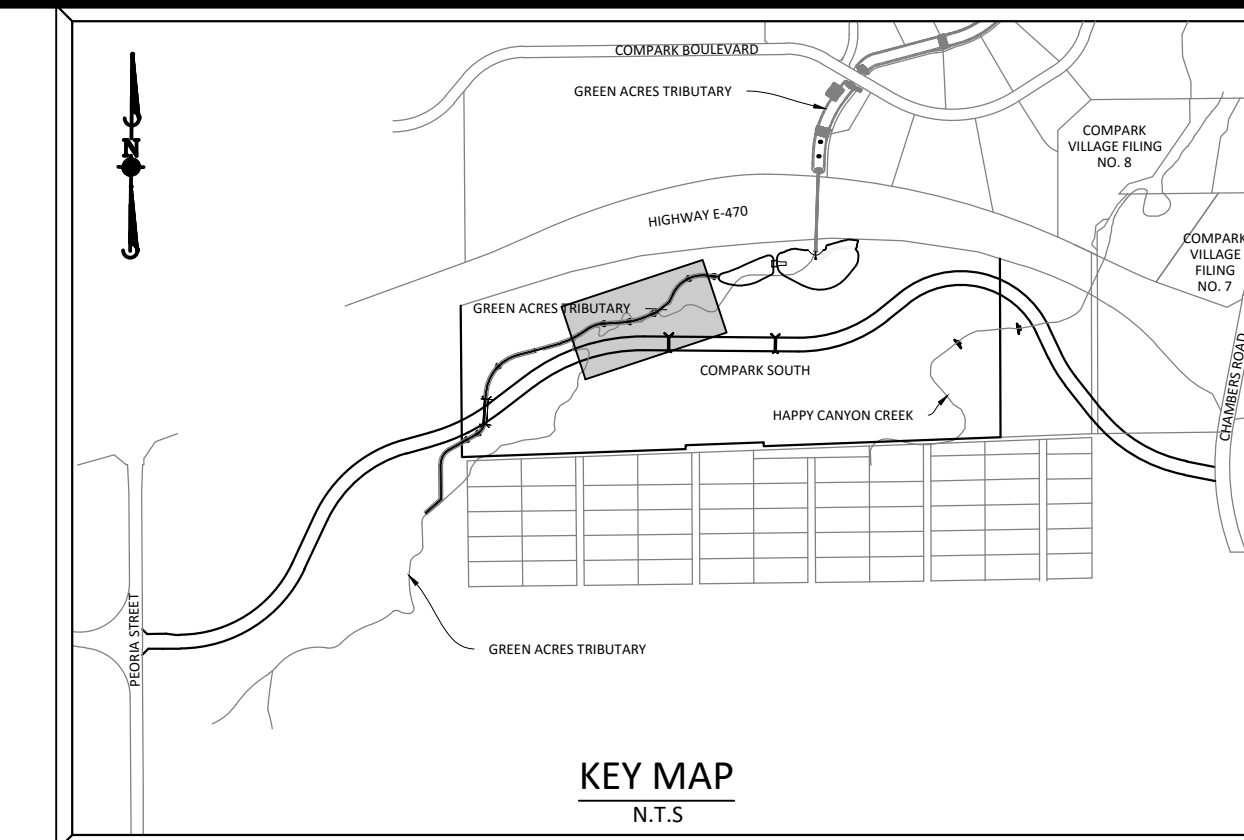
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 DRAWN BY: ETG
 DATE: 11/2015

SHEET
22 OF 33
 CLCPKC3

PENDING APPROVAL



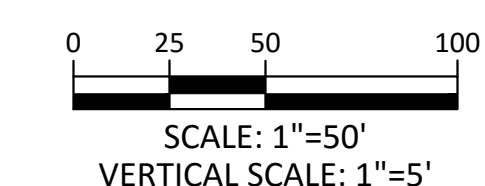
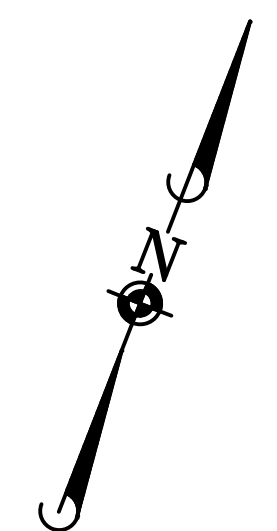
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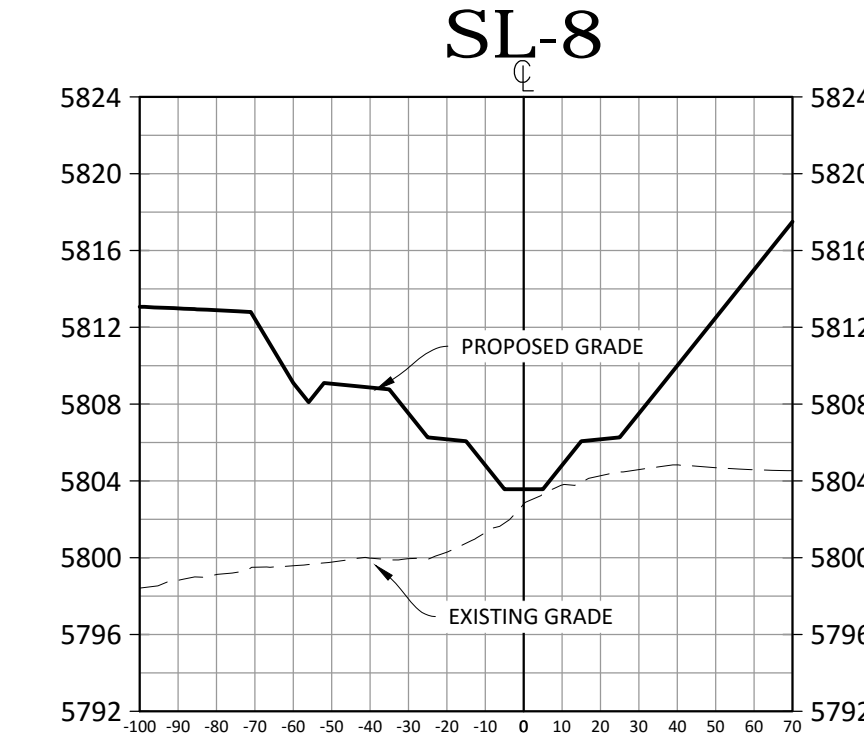
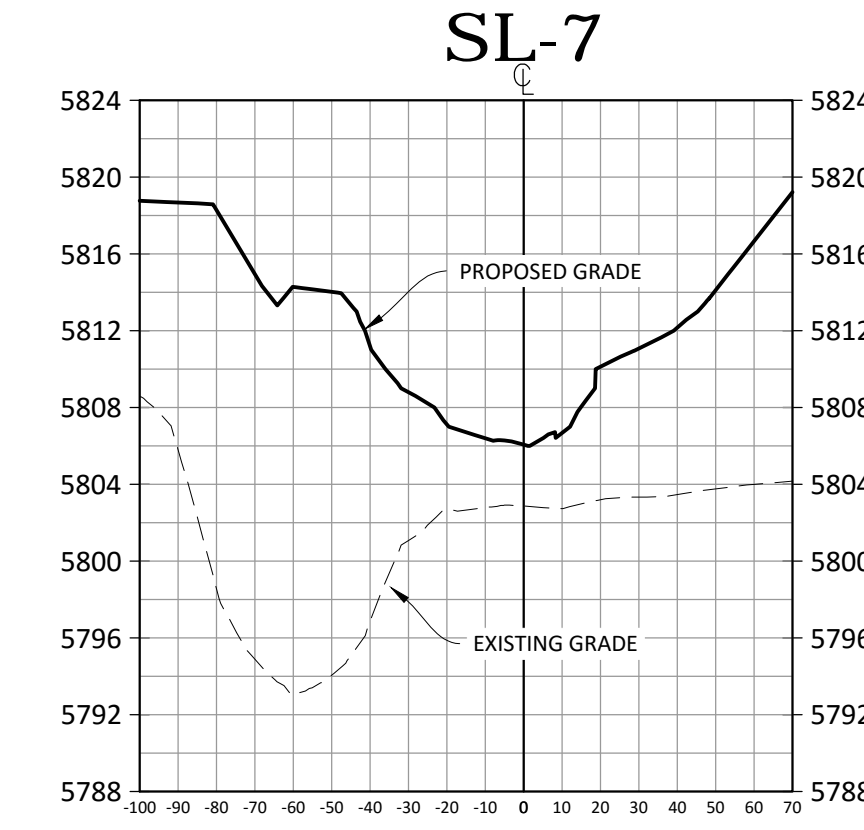
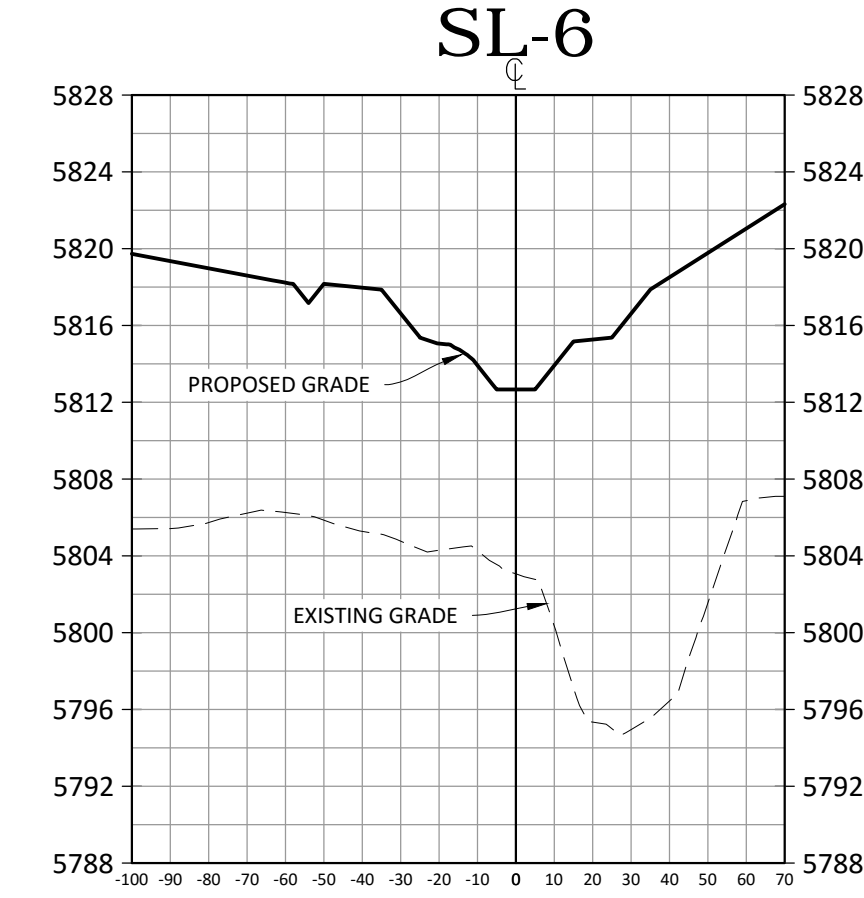
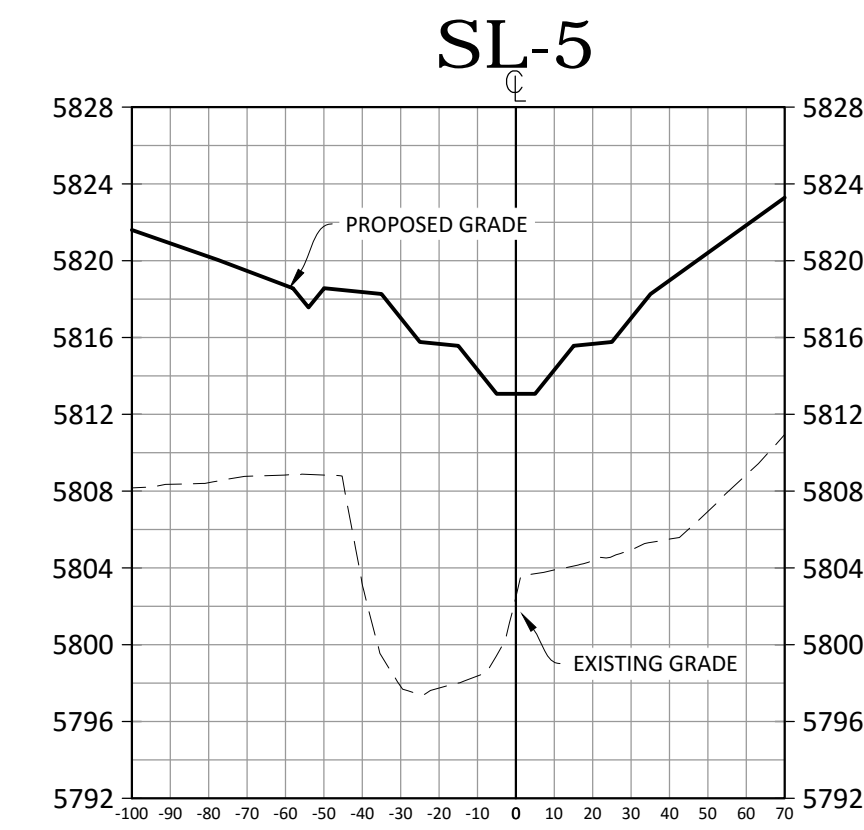
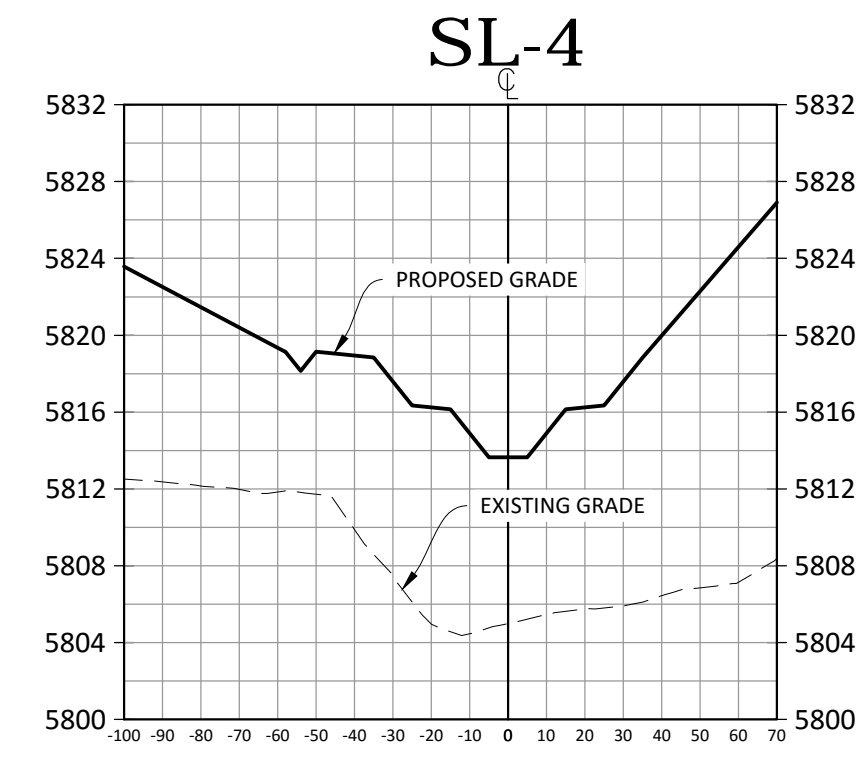
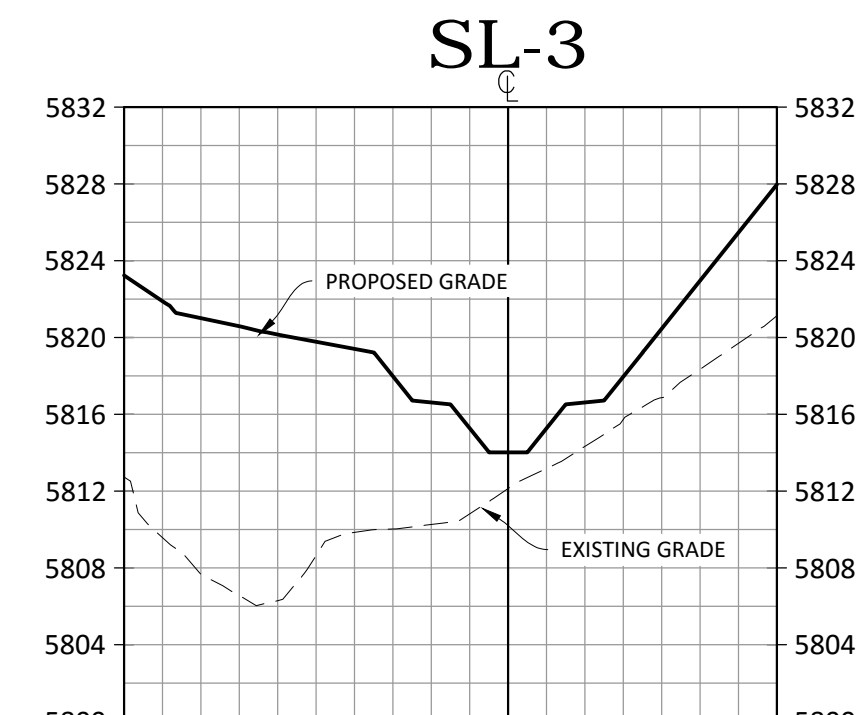
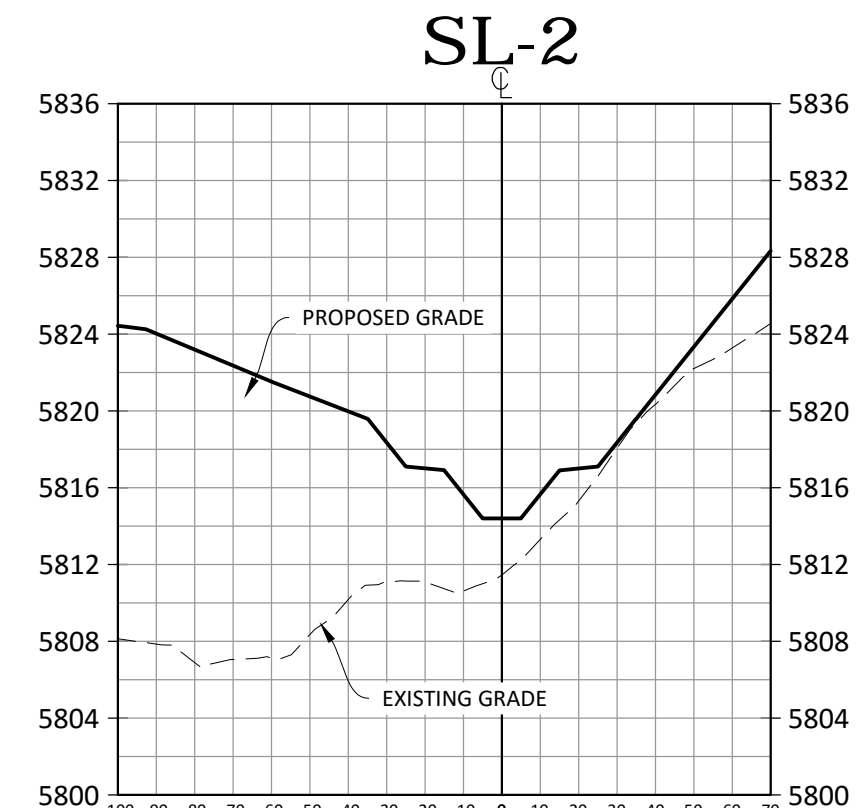
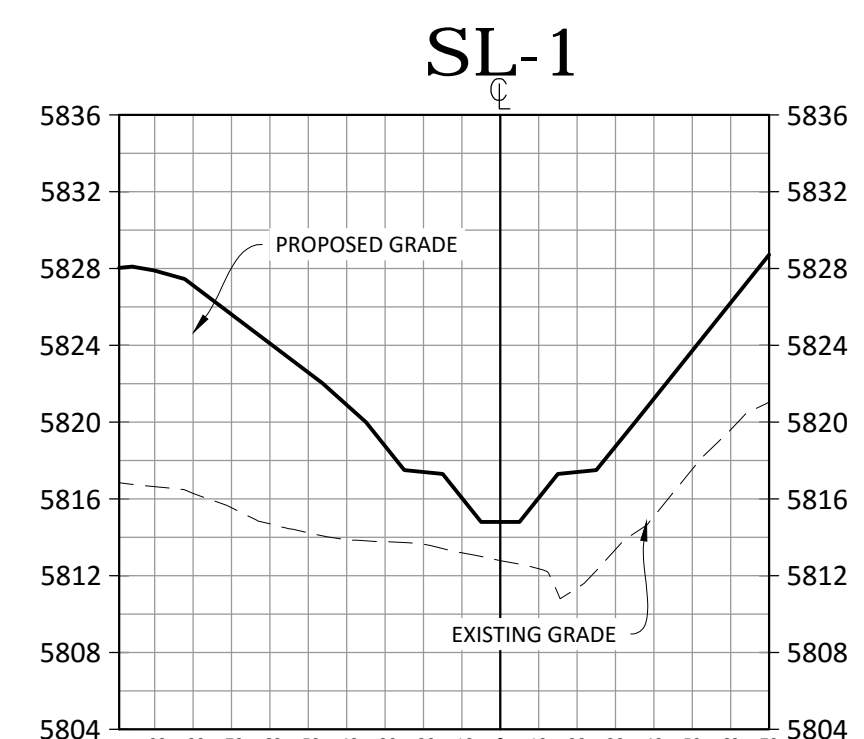
SOURCE BENCHMARKS:
 DOUGLAS COUNTY BM 1.115010
 A DOUGLAS COUNTY GIS MONUMENT SET IN CONCRETE LOCATED APPROXIMATELY 130 FEET SOUTHWESTERLY OF THE CENTERLINE OF CHAMBERS ROAD AND 95 FEET NORTHWESTERLY OF THE CENTERLINE OF COMPARK BOULEVARD. ELEVATION = 5752.84 (NAVD 88)

DATE	REVISIONS
10/2016	3RD SUBMITTAL
06/2016	2ND SUBMITTAL
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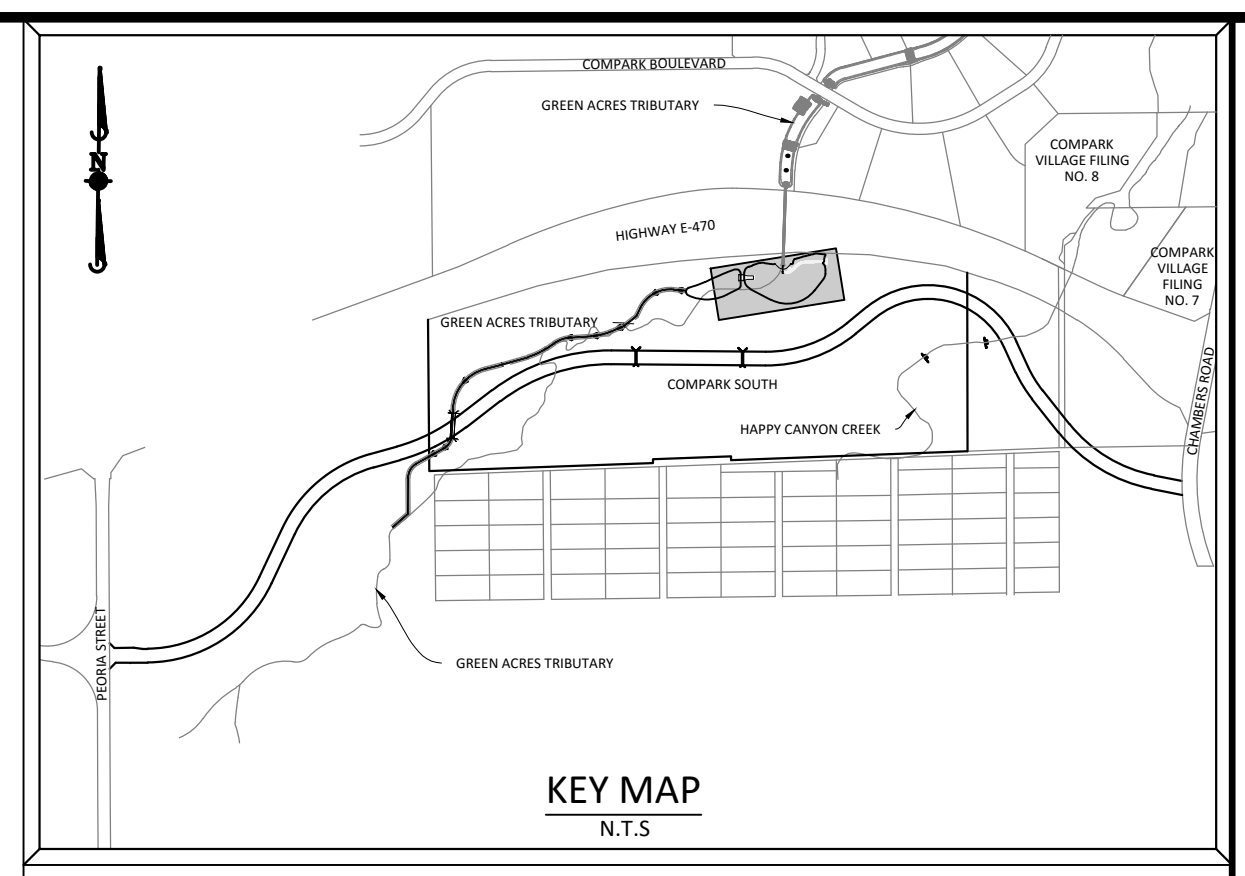
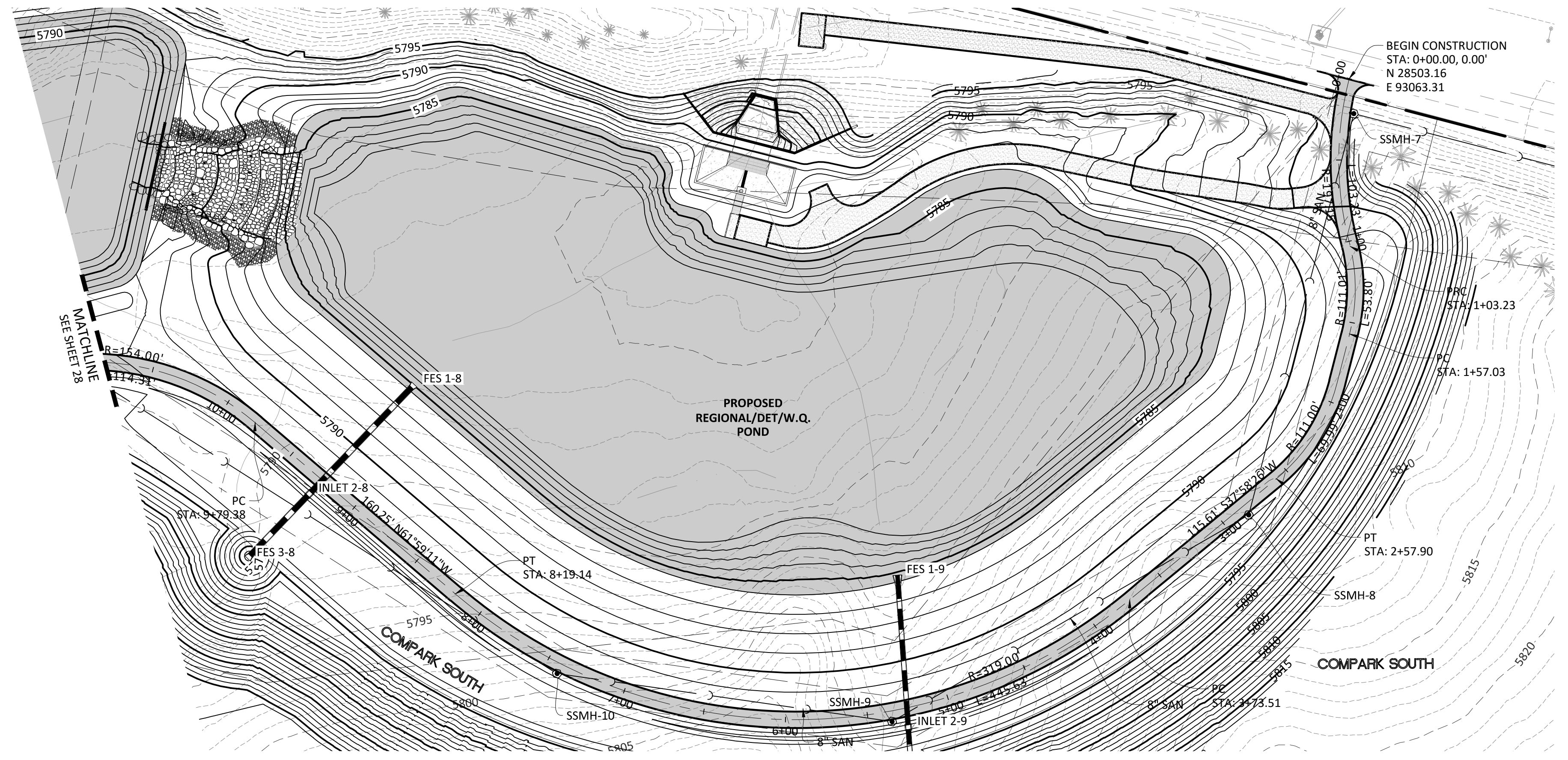
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PROJ. MGR.:	RJM
PROJ. ASSOC.:	ASD
DRAWN BY:	ETG
DATE:	11/2015

SHEET
24 OF **33**
 CLCPKC3

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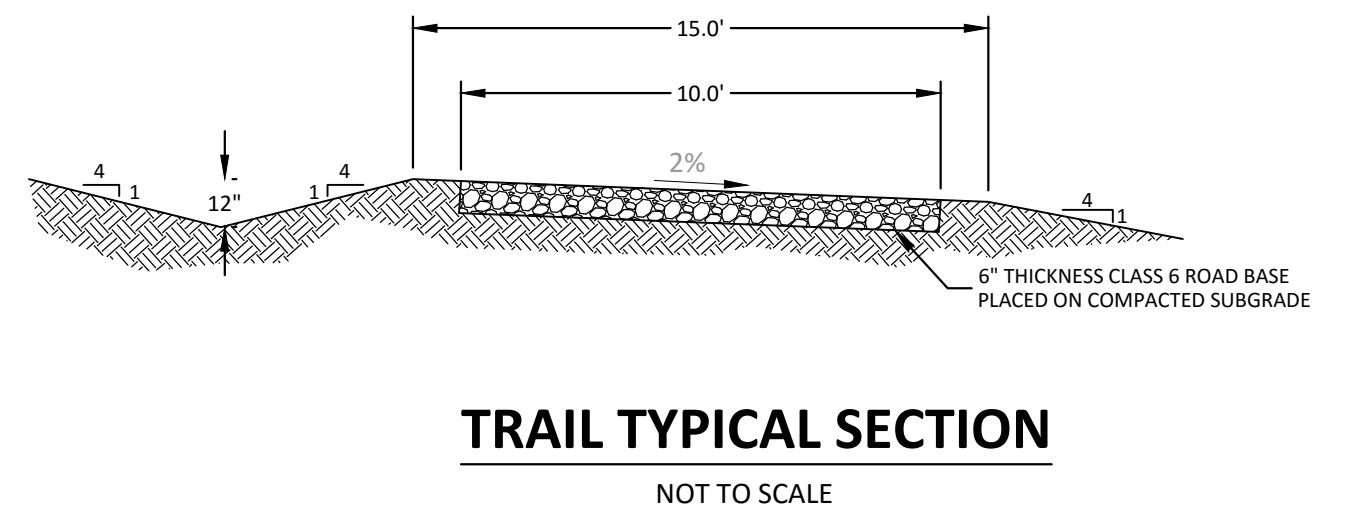
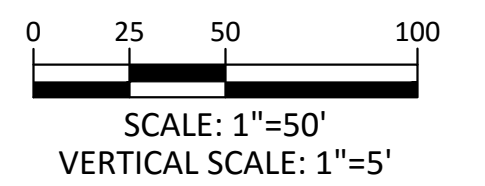
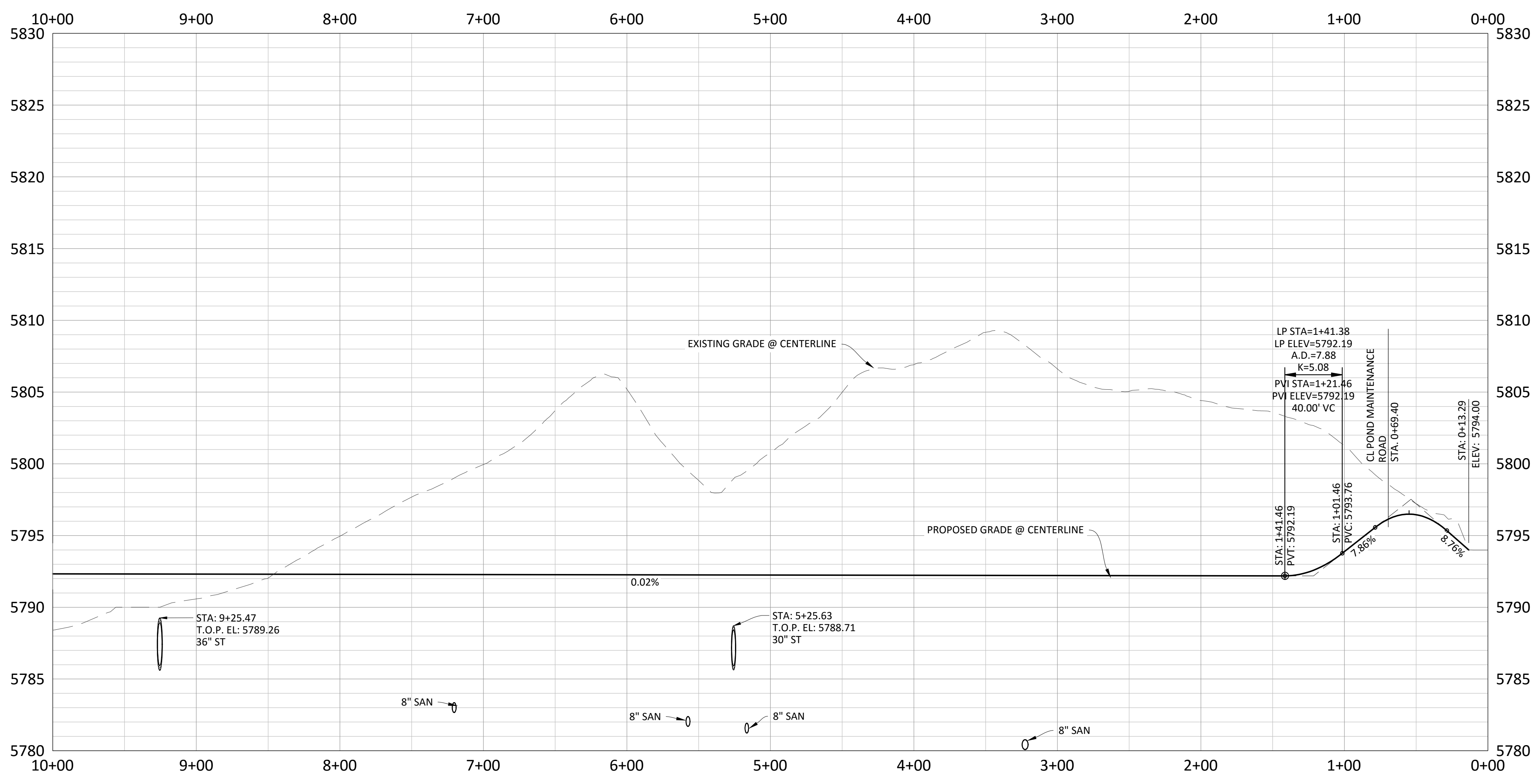
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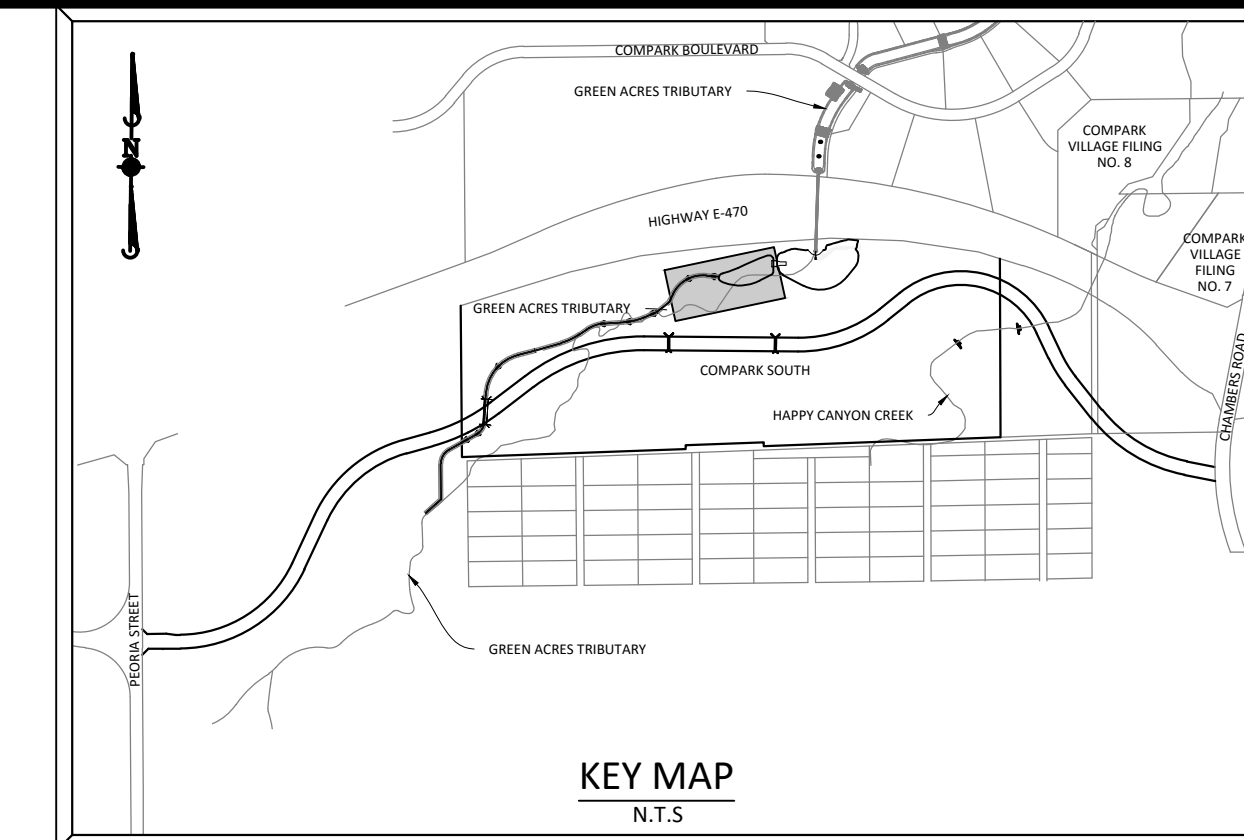
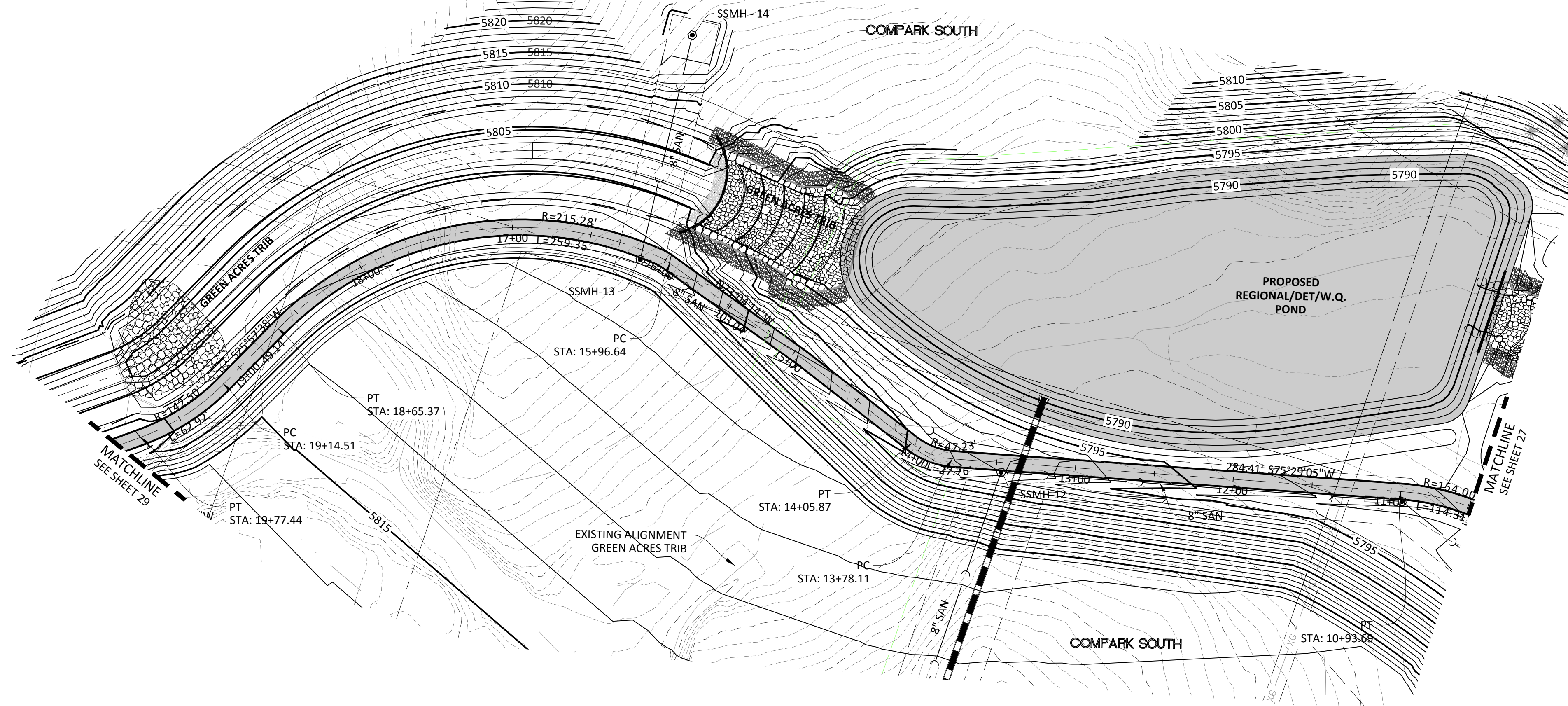
COMPARK VILLAGE SOUTH GREEN ACRES TRIBUTARY
 TOWN OF PARKER, COLORADO
 MAINTENANCE TRAIL PLAN & PROFILE

PROJ. MGR.: RIM
 PROJ. ASSOC.: ASD
 DRAWN BY: ETG
 DATE: 11/2015

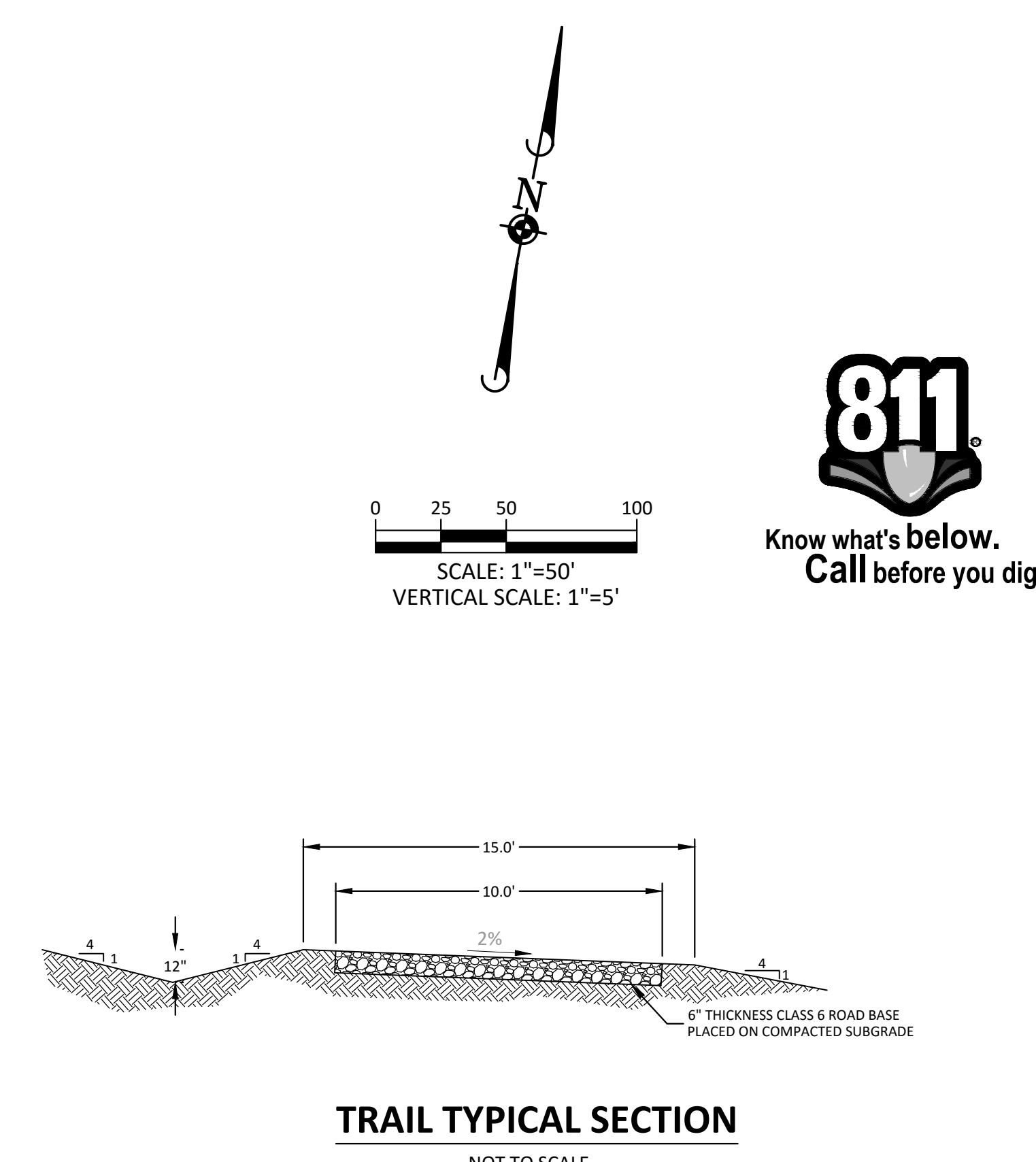
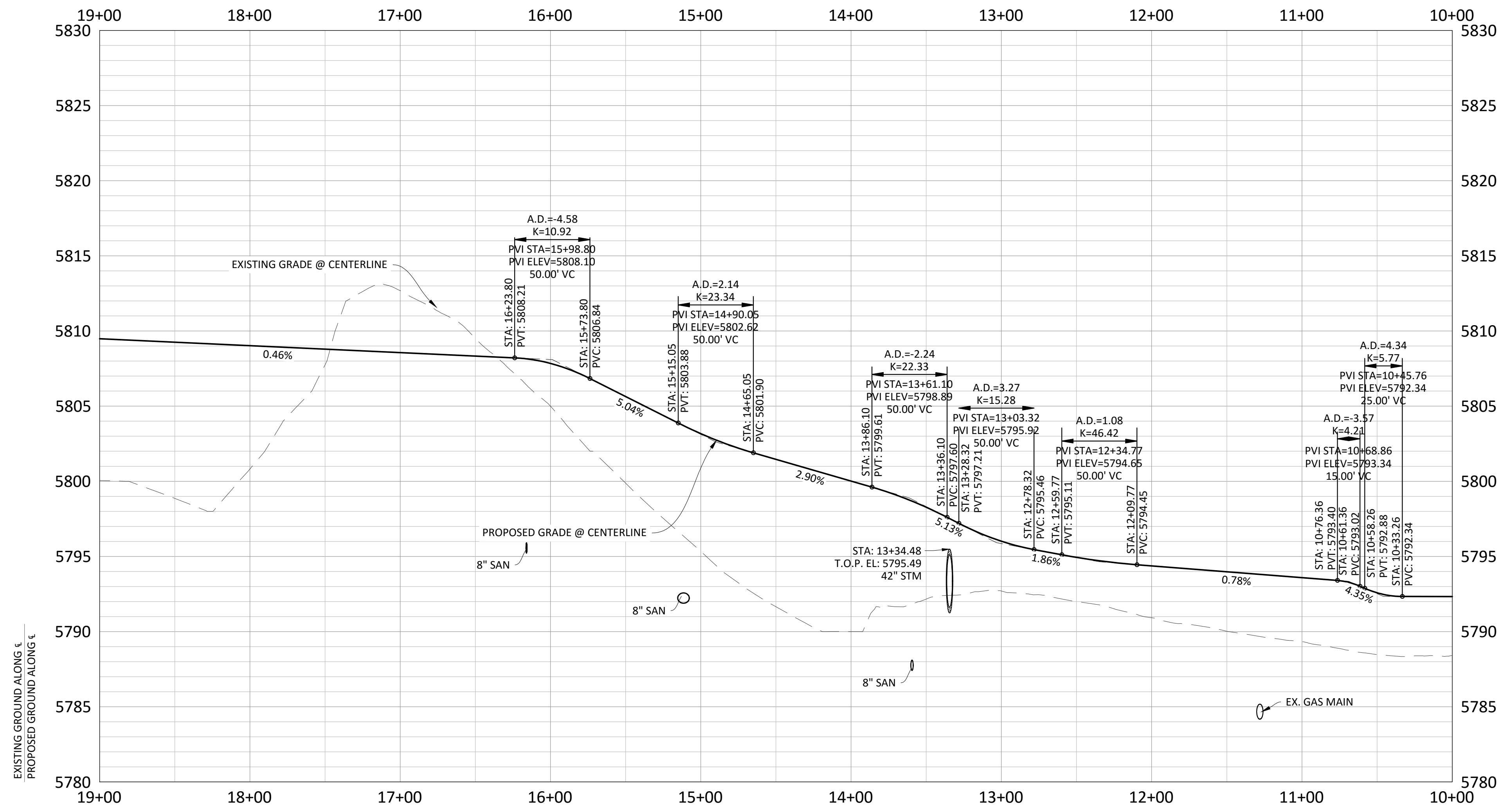
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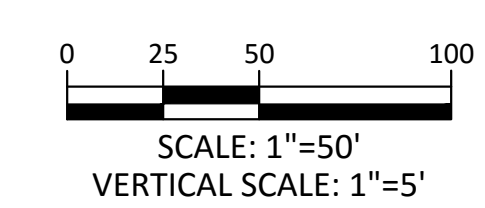
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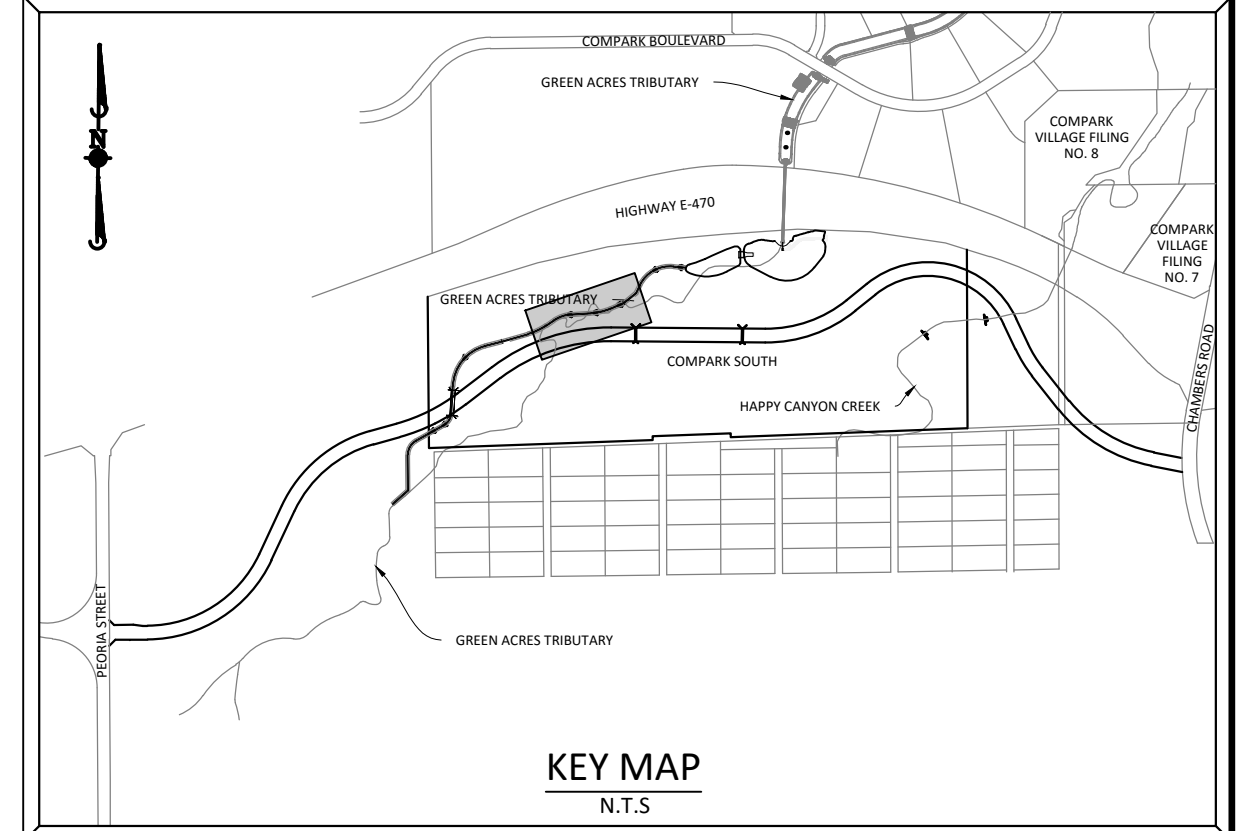
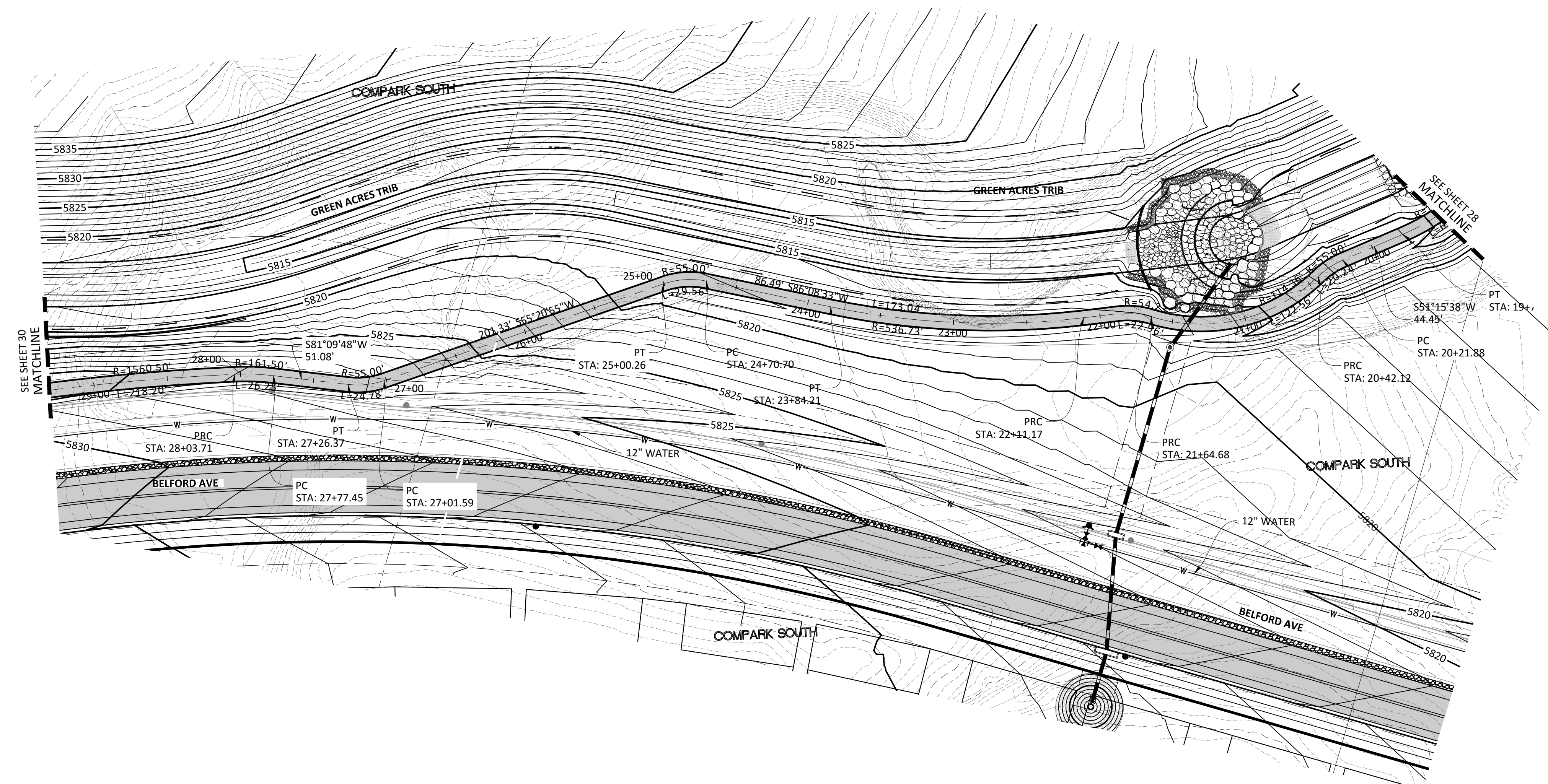
COMPARK VILLAGE SOUTH GREEN ACRES TRIBUTARY
TOWN OF PARKER, COLORADO
MAINTENANCE TRAIL PLAN & PROFILE

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 DATE: 11/2015

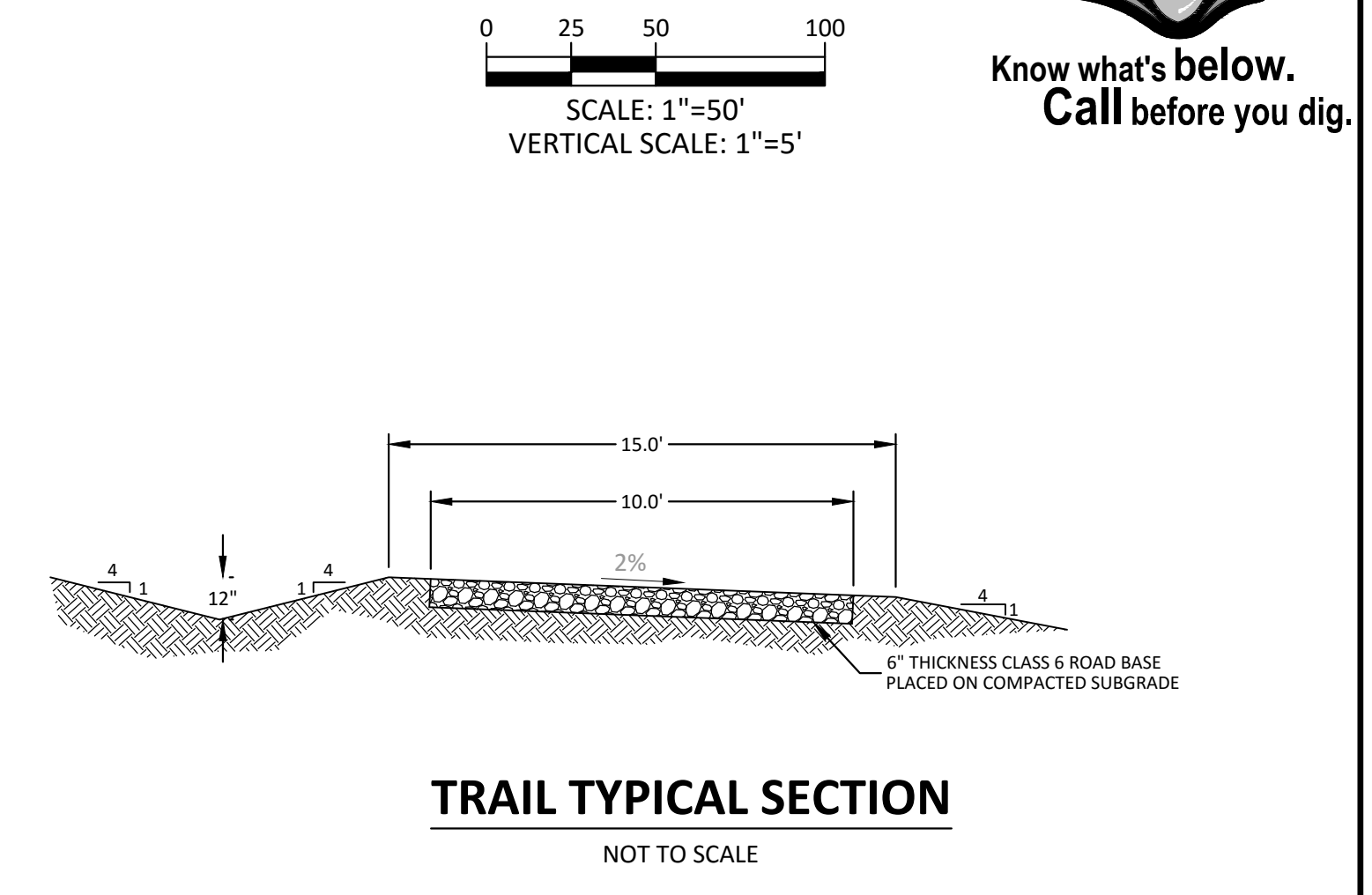
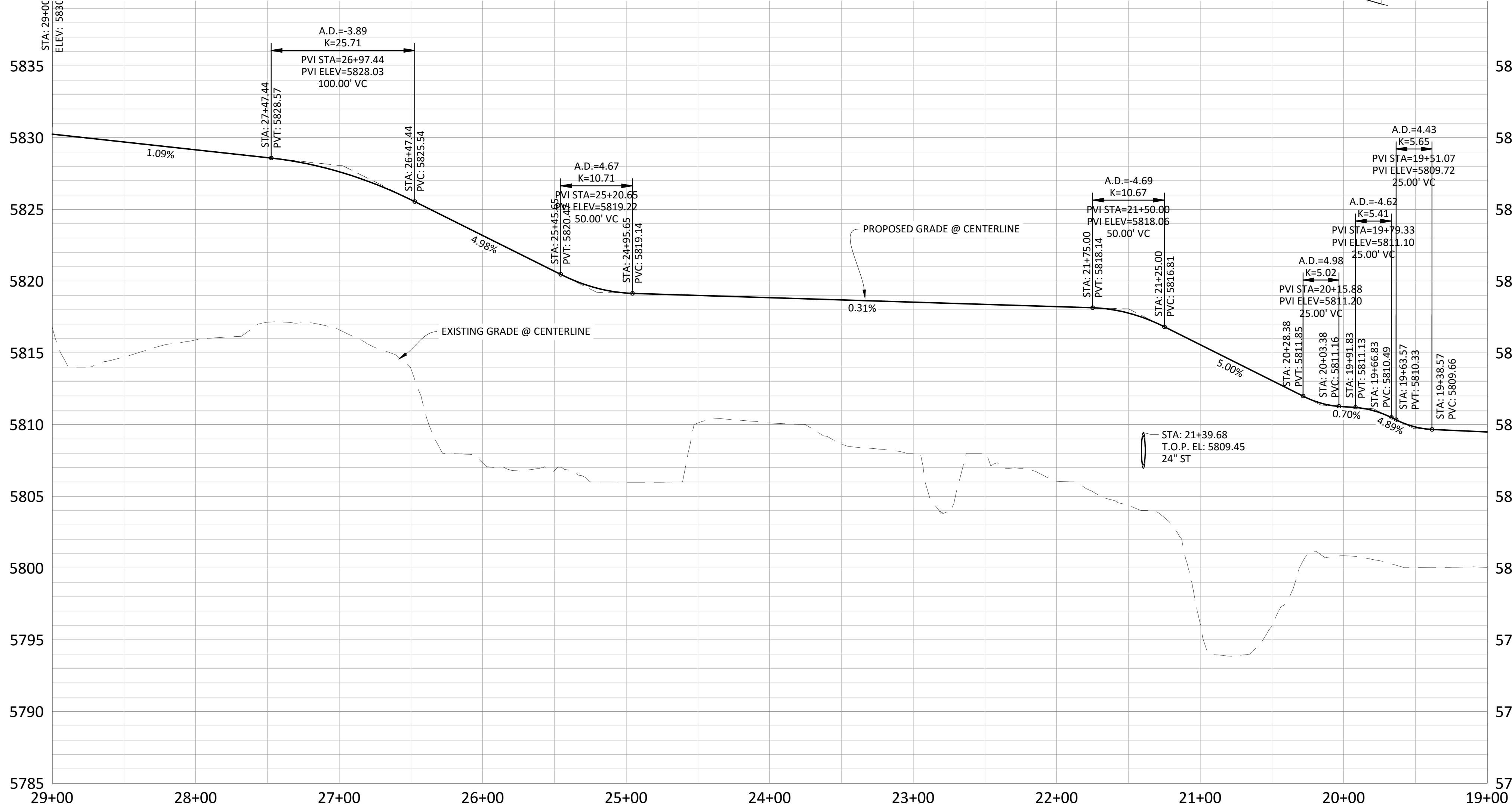
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TOWN OF PARKER, DIRECTOR OF ENGINEERING DATE

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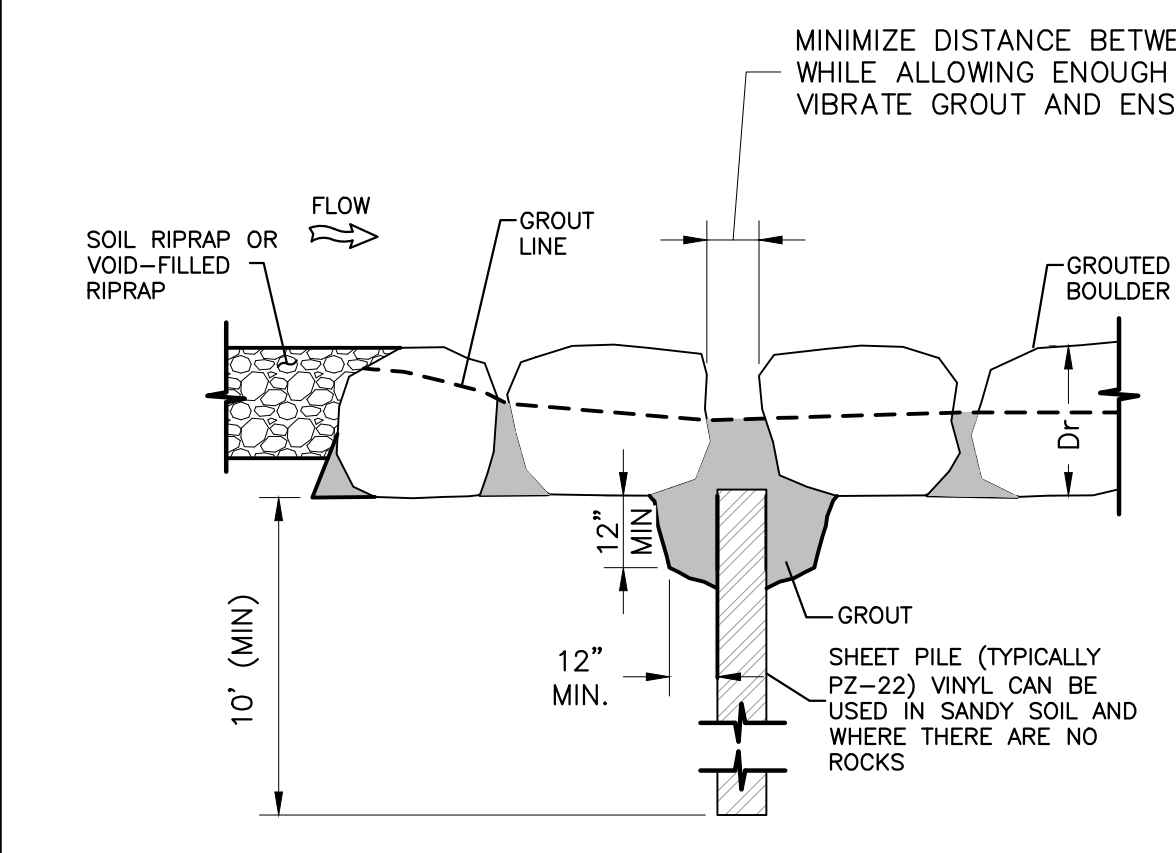
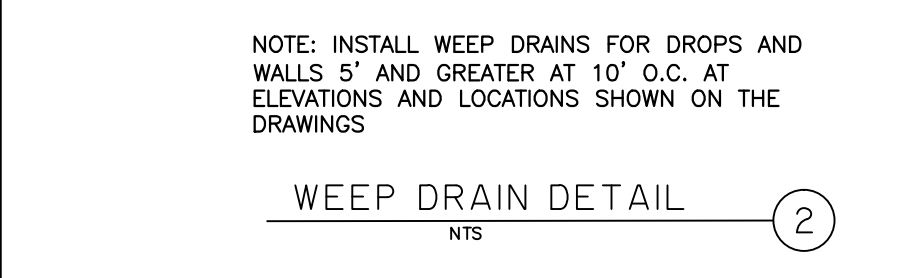
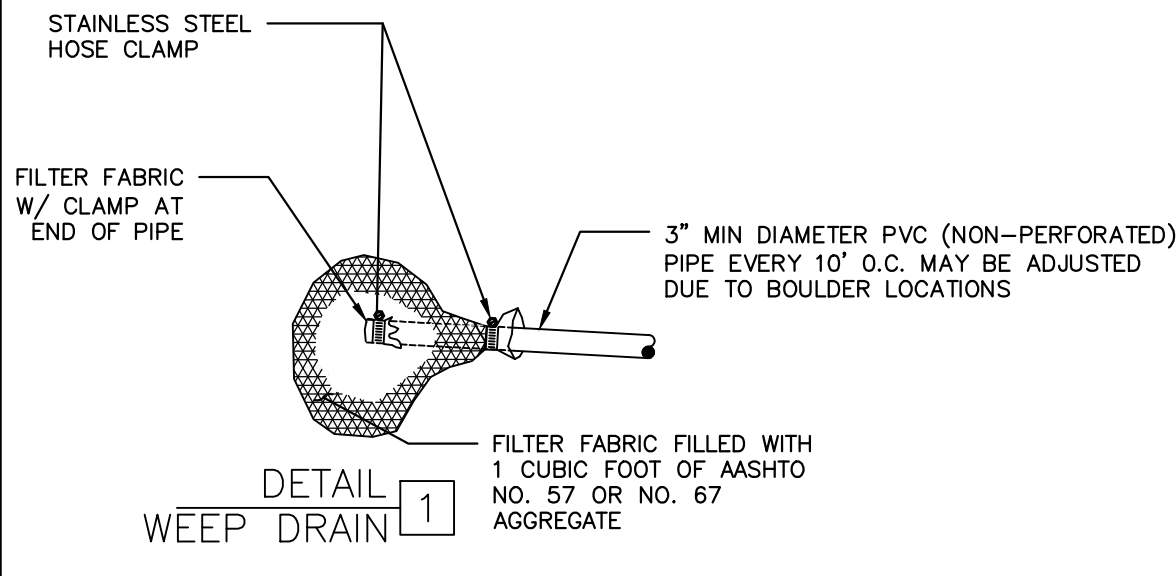
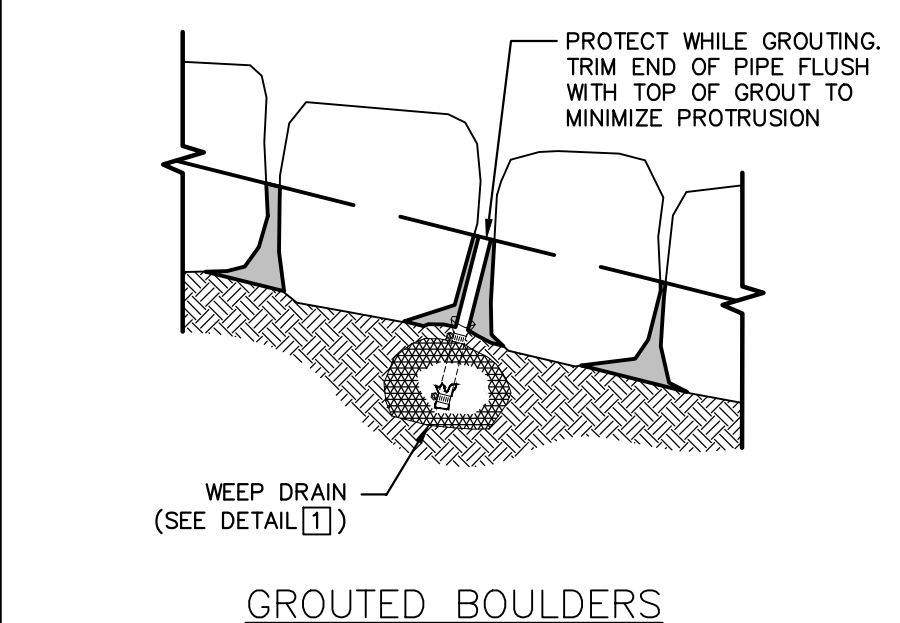
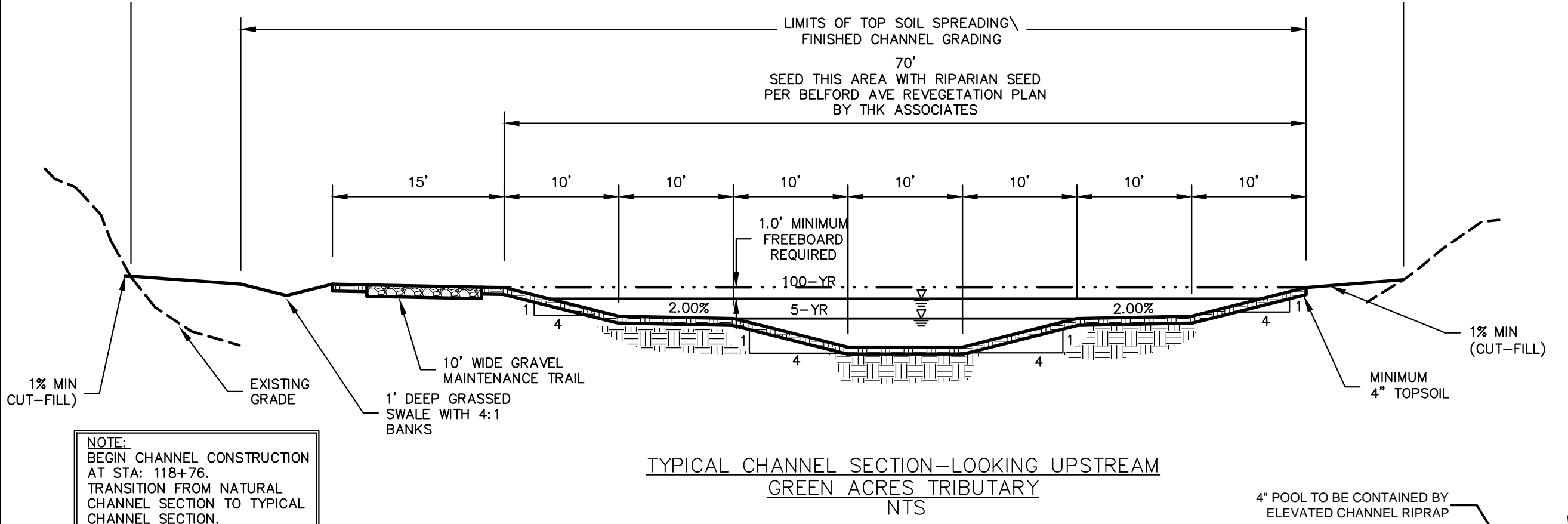


COMPARK VILLAGE SOUTH GREEN ACRES TRIBUTARY
TOWN OF PARKER, COLORADO
MAINTENANCE TRAIL PLAN & PROFILE

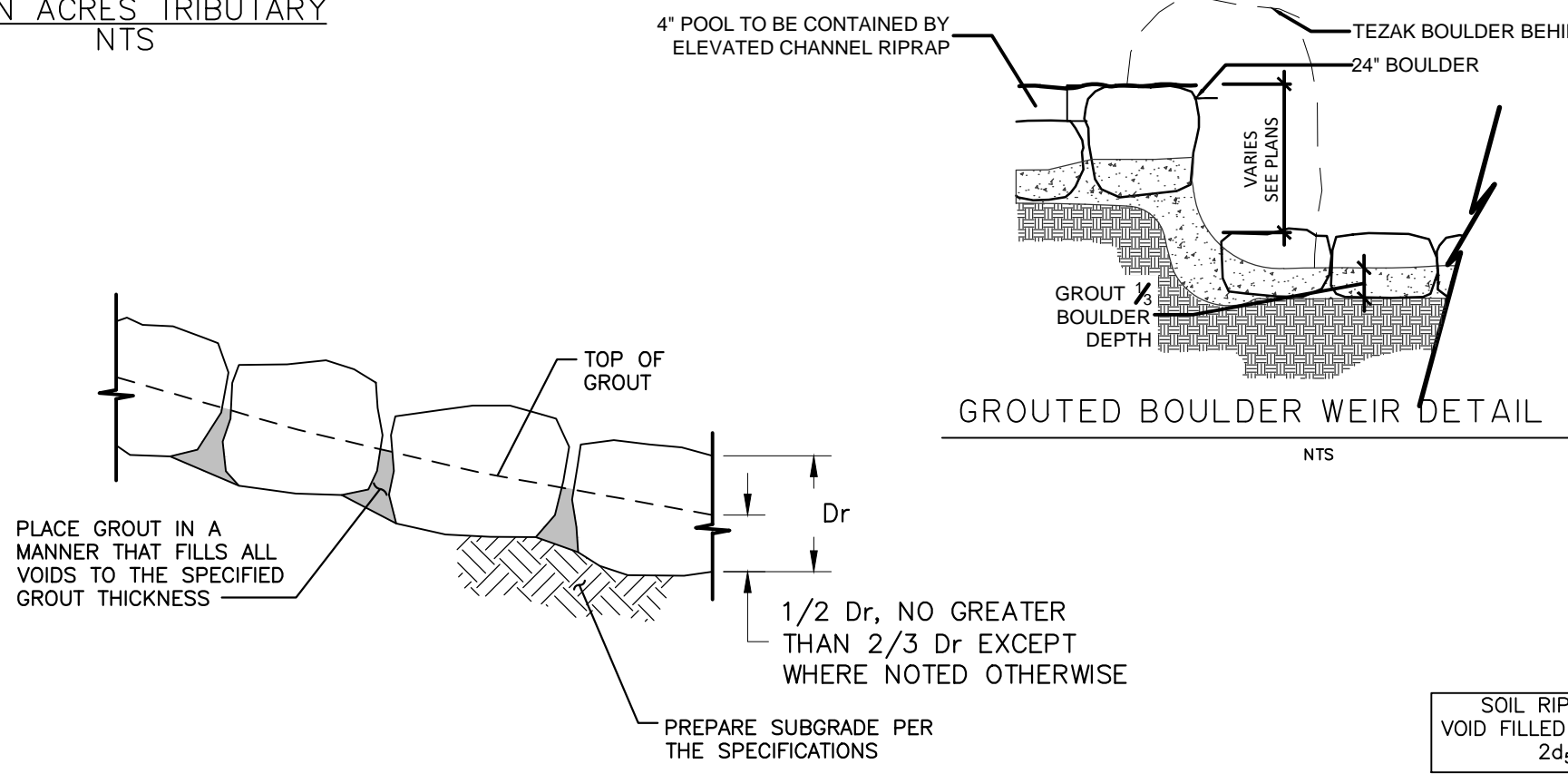
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PROJ. ASSOC.: ASD
DRAWN BY: ETG
DATE: 11/2015
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CLCPKC3

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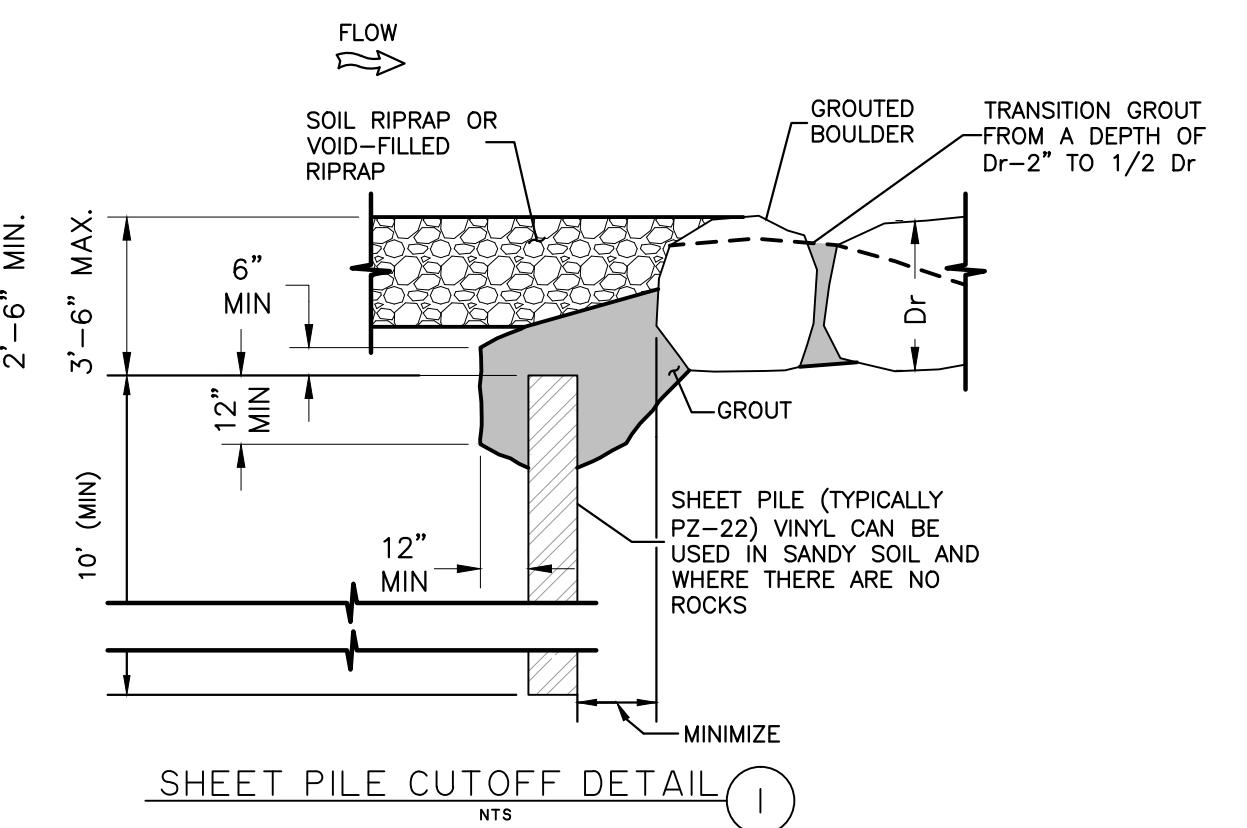
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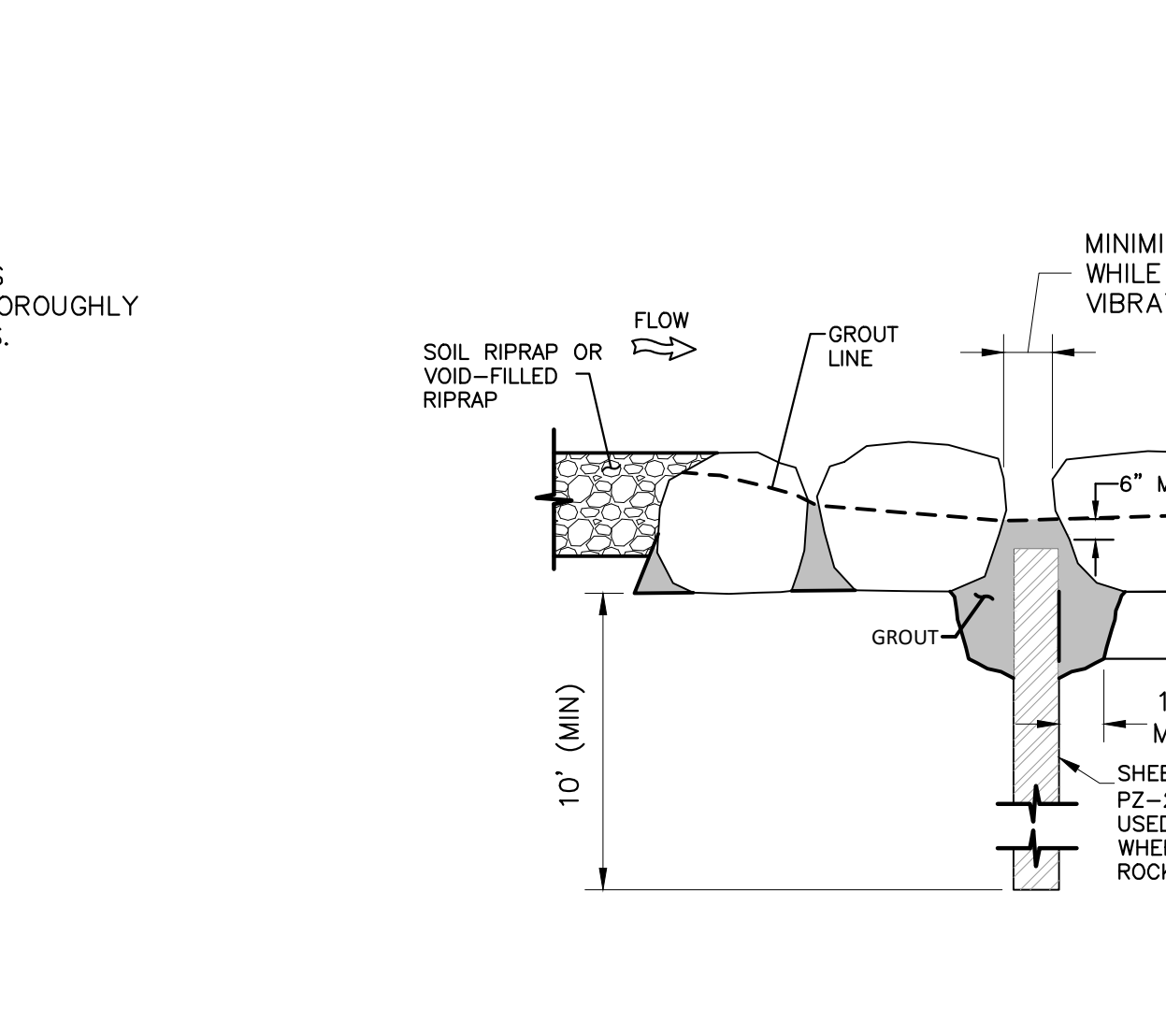
SHEET PILE CONNECTION BETWEEN BOULDERS (SMALLER THAN 24")
SHEET PILE CONNECTION BETWEEN BOULDERS



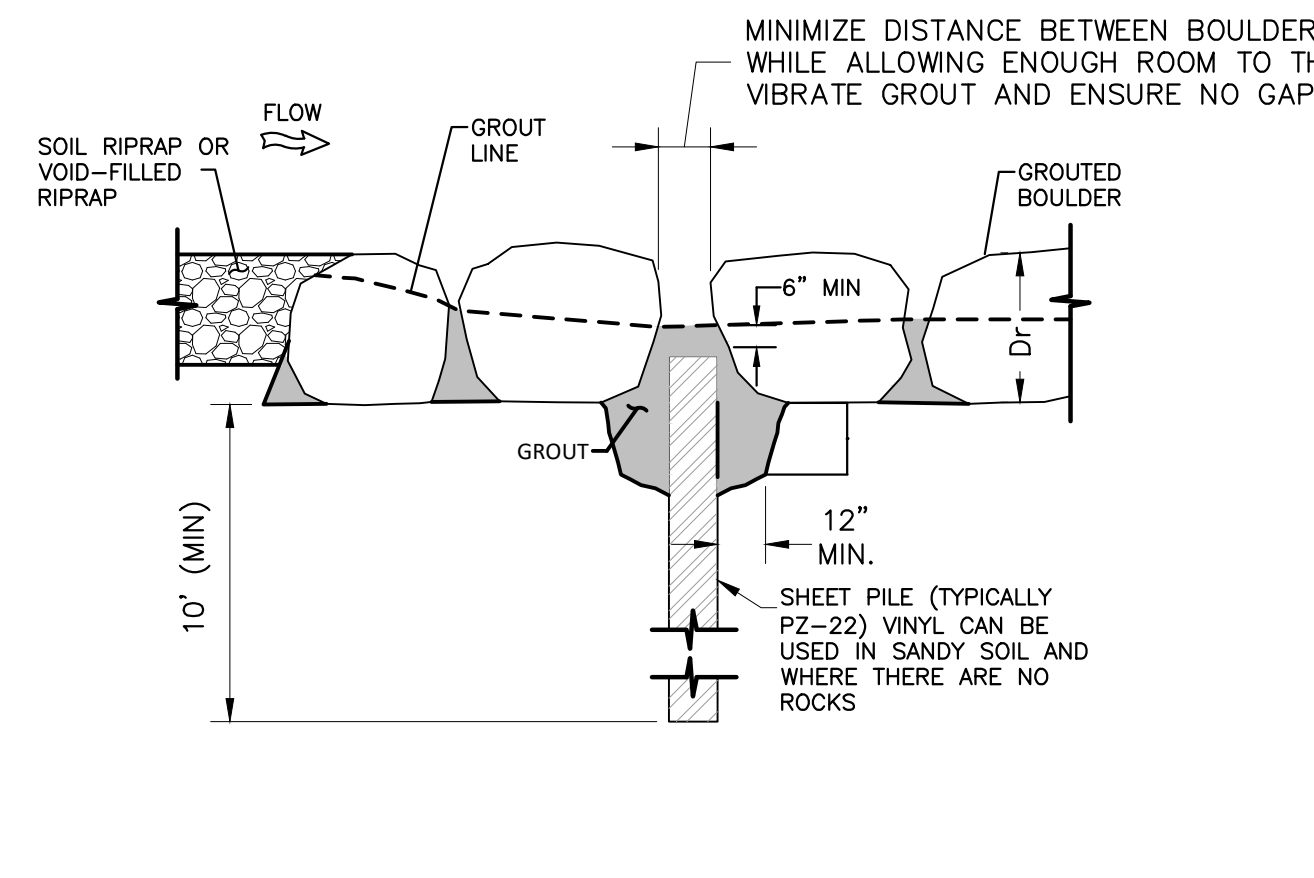
GROUTED BOULDER WEIR DETAIL NTS



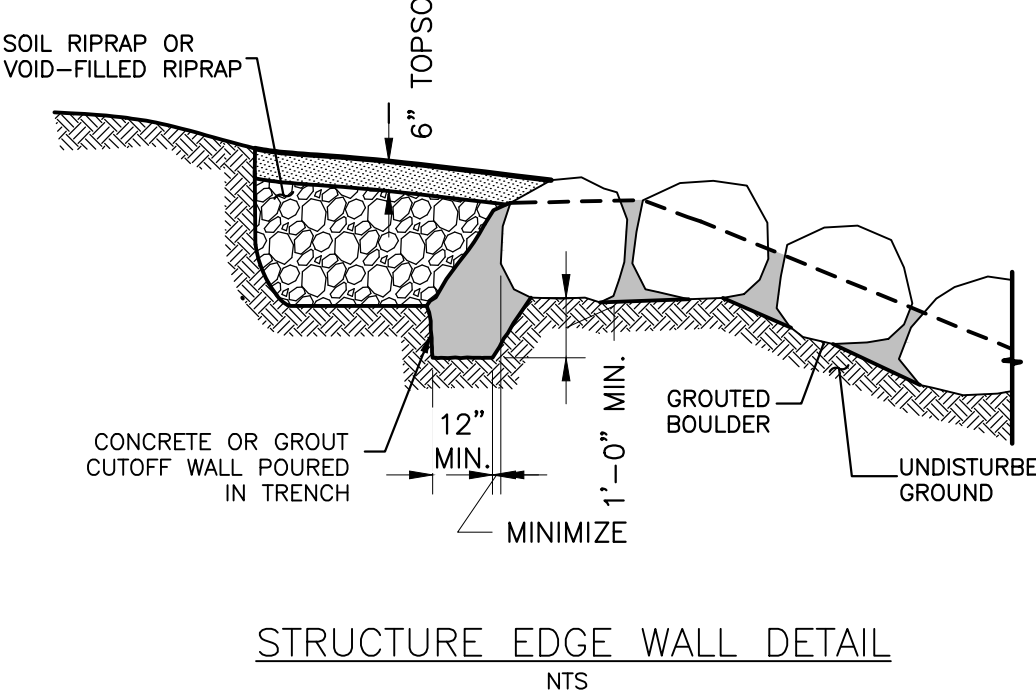
GROUTED BOULDER PLACEMENT DETAIL 3



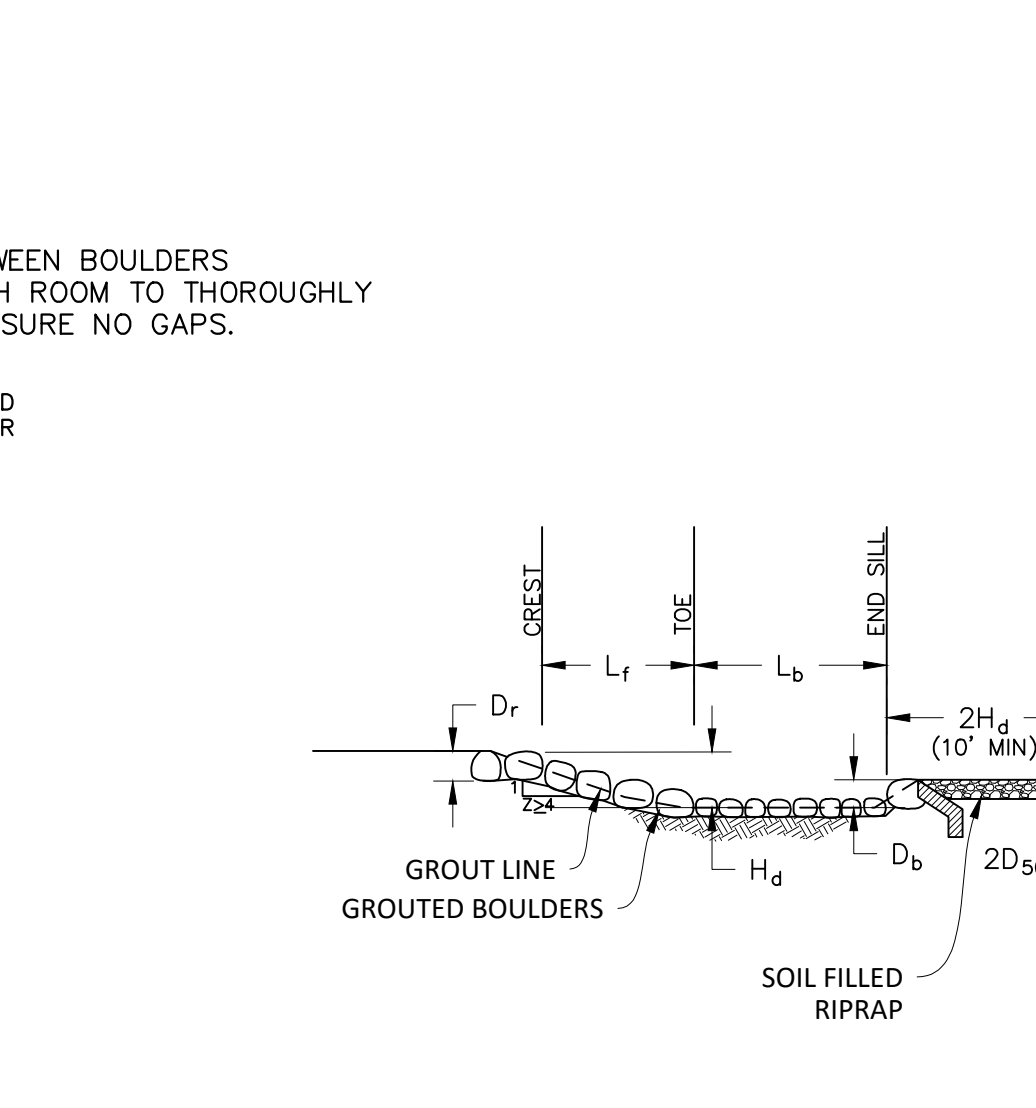
SHEET PILE CUTOFF DETAIL 1



SHEET PILE CONNECTION BETWEEN BOULDERS (GREATER THAN 24")
SHEET PILE CONNECTION BETWEEN BOULDERS



STRUCTURE EDGE WALL DETAIL NTS



PROFILE A1
GROUTED BOULDER DROP WITH DEPRESSED STILLING BASIN

GROUT & BOULDER NOTES

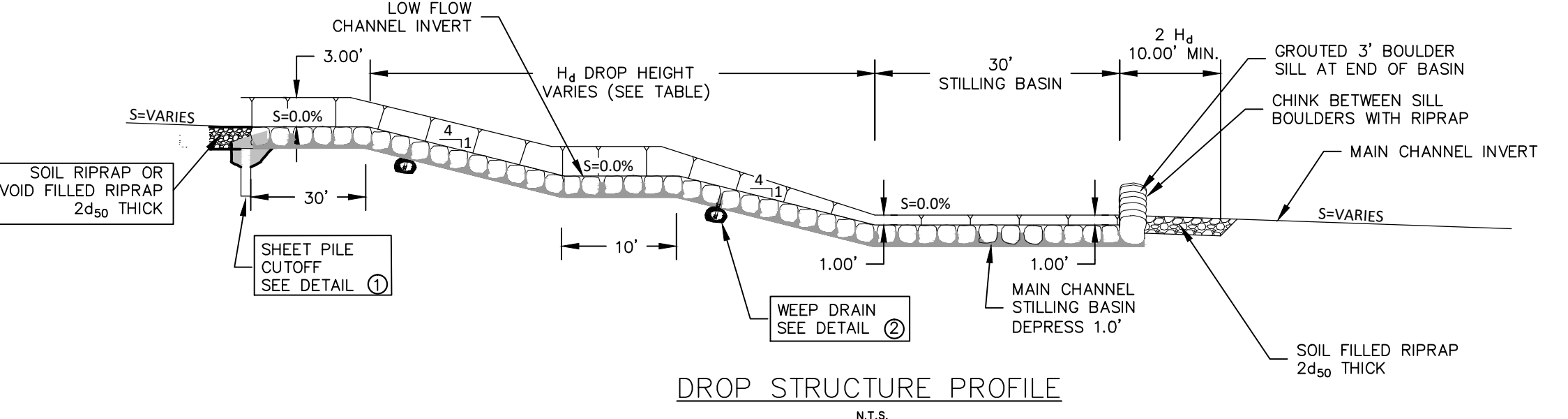
MATERIAL SPECIFICATIONS

1. ALL GROUT SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH EQUAL TO 3200 PSI.
2. ONE CUBIC YARD OF GROUT SHALL HAVE A MINIMUM OF SIX (6) SACKS OF TYPE II PORTLAND CEMENT.
3. A MAXIMUM OF 25% TYPE F FLY ASH MAY BE SUBSTITUTED FOR THE PORTLAND CEMENT.
4. THE AGGREGATE SHALL BE COMPRISED OF 70% NATURAL SAND (FINES) AND 30% 3/4-INCH ROCK (COARSE).
5. THE GROUT SLUMP SHALL BE BETWEEN 4-INCHES TO 6-INCHES.
6. AIR ENTRAINMENT SHALL BE BETWEEN 5.5% AND 7.5%.
7. TO CONTROL SHRINKAGE AND CRACKING, 1.5 POUNDS OF FIBERMESH, OR EQUIVALENT, SHALL BE USED PER CUBIC YARD OF GROUT.
8. COLOR ADDITIVE IN REQUIRED AMOUNTS SHALL BE USED WHEN SO SPECIFIED BY CONTRACT.

PLACEMENT SPECIFICATIONS

1. PLACE BOULDERS WITH THE REQUIRED BOULDER HEIGHT VERTICAL. SEE PLANS BY THK ASSOCIATES FOR BOULDER SIZES AND HEIGHTS. PLACE BOULDERS AS TIGHTLY TOGETHER AS POSSIBLE (WITHOUT TOUCHING) WHILE PROVIDING ENOUGH ROOM BETWEEN THEM TO THOROUGHLY VIBRATE THE GROUT AND TO ENSURE NO GAPS IN THE GROUT. THE SMALL DIMENSION OF A 2x4 MAY BE USED AS A GUIDE TO CHECK MINIMUM SPACING.
2. BOULDERS ARE TO BE PLACED ONE BOULDER DEEP WITH TOPS OF BOULDERS DESCENDING AT IRREGULAR INTERVALS.
3. ROCKS SHALL BE SELECTED AND PLACED SUCH THAT A RELATIVELY FLAT HORIZONTAL SURFACE IS EXPOSED.
4. DURING ROCK PLACEMENT, CONTRACTOR SHALL COORDINATE LOCATION AND ORIENTATION WITH OWNER, ENGINEER AND LANDSCAPE ARCHITECT.
5. PRIOR TO GROUTING ROCK IN PLACE, CONTRACTOR SHALL NOTIFY OWNER, ENGINEER AND LANDSCAPE ARCHITECT FOR FINAL APPROVAL.
6. AFTER INSPECTION AND APPROVAL, GROUT SHALL BE ADDED TO A LEVEL APPROXIMATELY 1/2 THE BOULDER HEIGHT.
7. BEFORE GROUTING, CLEAN ALL DIRT AND MATERIAL FROM ROCK THAT COULD PREVENT THE GROUT FROM BINDING TO THE ROCK. KEEP BOULDERS FROM TOUCHING, AVOID SLIDING BOULDERS AGAINST SUBGRADE TO PROPERLY POSITION.

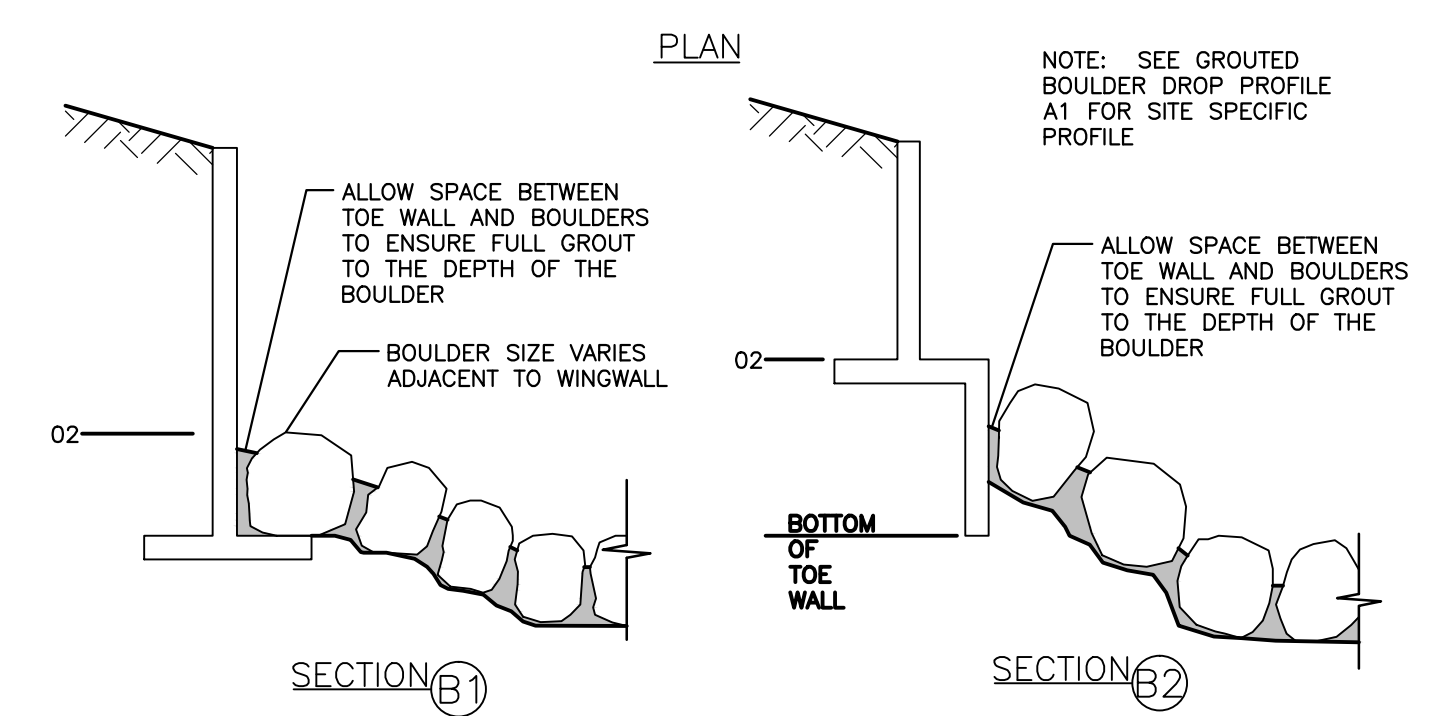
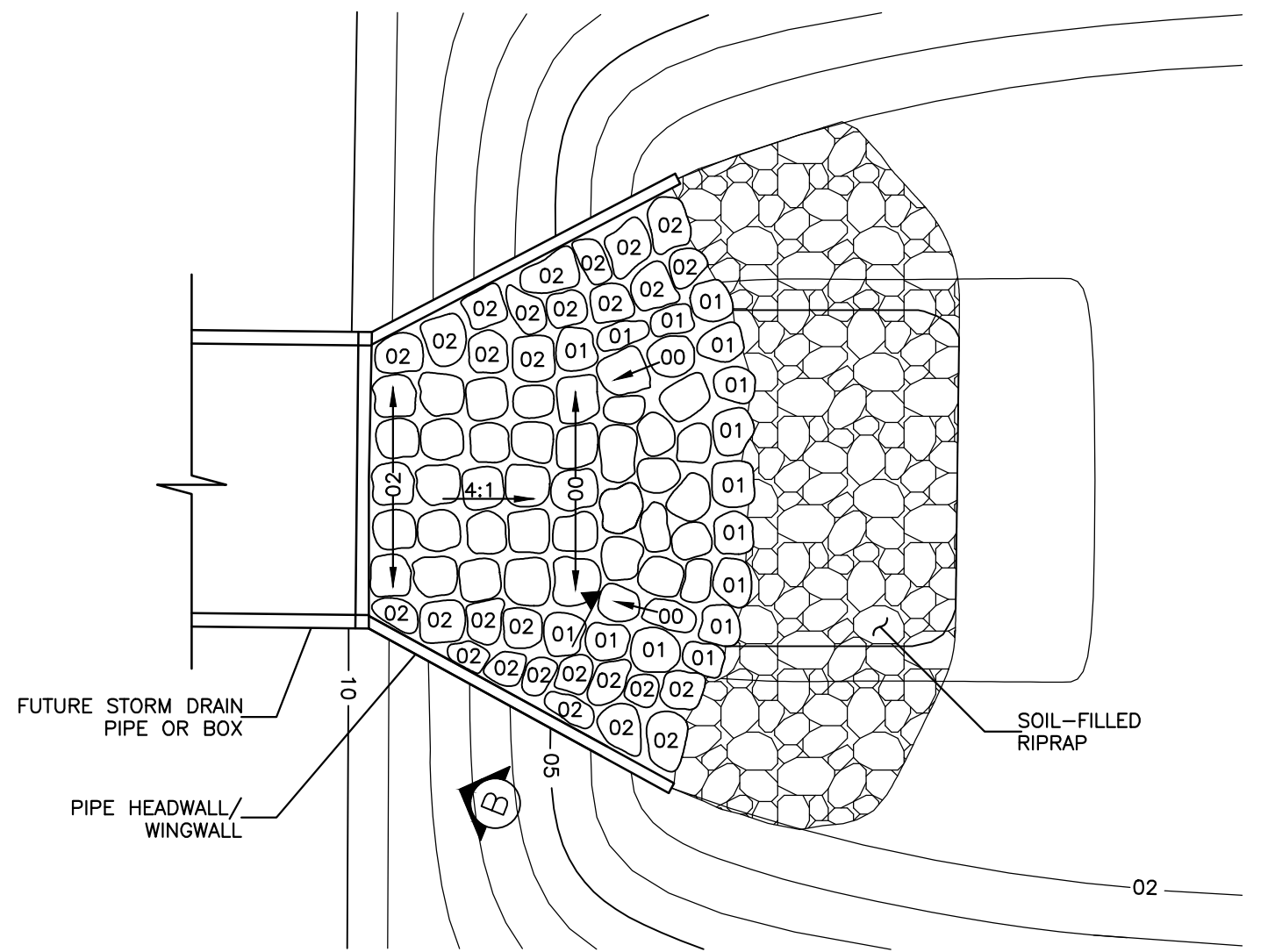
8. SPECIAL PROCEDURES WILL BE REQUIRED FOR GROUT PLACEMENT WHEN THE AIR TEMPERATURES ARE LESS THAN 40°F OR GREATER THAN 90°F. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FROM THE DESIGN ENGINEER OF THE PROCEDURES TO BE USED FOR PROTECTING THE GROUT.
9. GROUT SHALL BE DELIVERED BY MEANS OF A LOW PRESSURE (LESS THAN 10 PSI) GROUT PUMP USING A 2-INCH DIAMETER (MAXIMUM) NOZZLE.
10. FULL DEPTH PENETRATION OF THE GROUT INTO THE BOULDER VOIDS SHALL BE ACHIEVED BY INJECTING GROUT STARTING WITH THE NOZZLE NEAR THE BOTTOM AND RAISING IT AS THE GROUT FILLS, WHILE VIBRATING GROUT INTO PLACE USING A PENCIL VIBRATOR.
11. ALL GROUT BETWEEN BOULDERS SHALL BE TREATED WITH A BROOM FINISH.
12. AFTER GROUT PLACEMENT, EXPOSED BOULDER FACES SHALL BE CLEANED AND FREE OF GROUT.
13. ALL FINISHED GROUT SURFACES SHALL BE SPRAYED WITH A CLEAR LIQUID MEMBRANE CURING COMPOUND AS SPECIFIED IN ASTM C309.
14. GROUTED BASIN WILL NOT BE DRAINED AND WILL BE PERMITTED TO COLLECT SEDIMENT.



DROP STRUCTURE PROFILE NTS

STA	H _d
81+19	7.0'
86+30	9.5'
92+05	6.0'
102+65	5.5'
110+74	4.0'
111+91	5.0'

DROP HEIGHT TABLE



SECTION B1 SECTION B2
BOULDER OUTFALL DETAIL — INLINE CULVERT

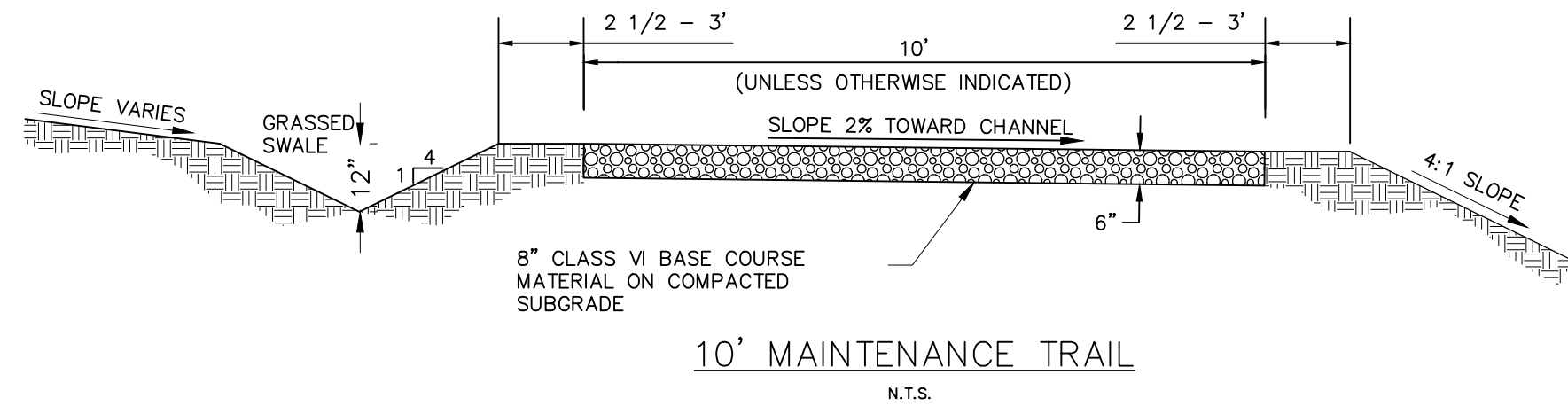
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COMPARK VILLAGE SOUTH GREEN ACRES TRIBUTARY
TOWN OF PARKER, COLORADO
GENERAL DETAILS

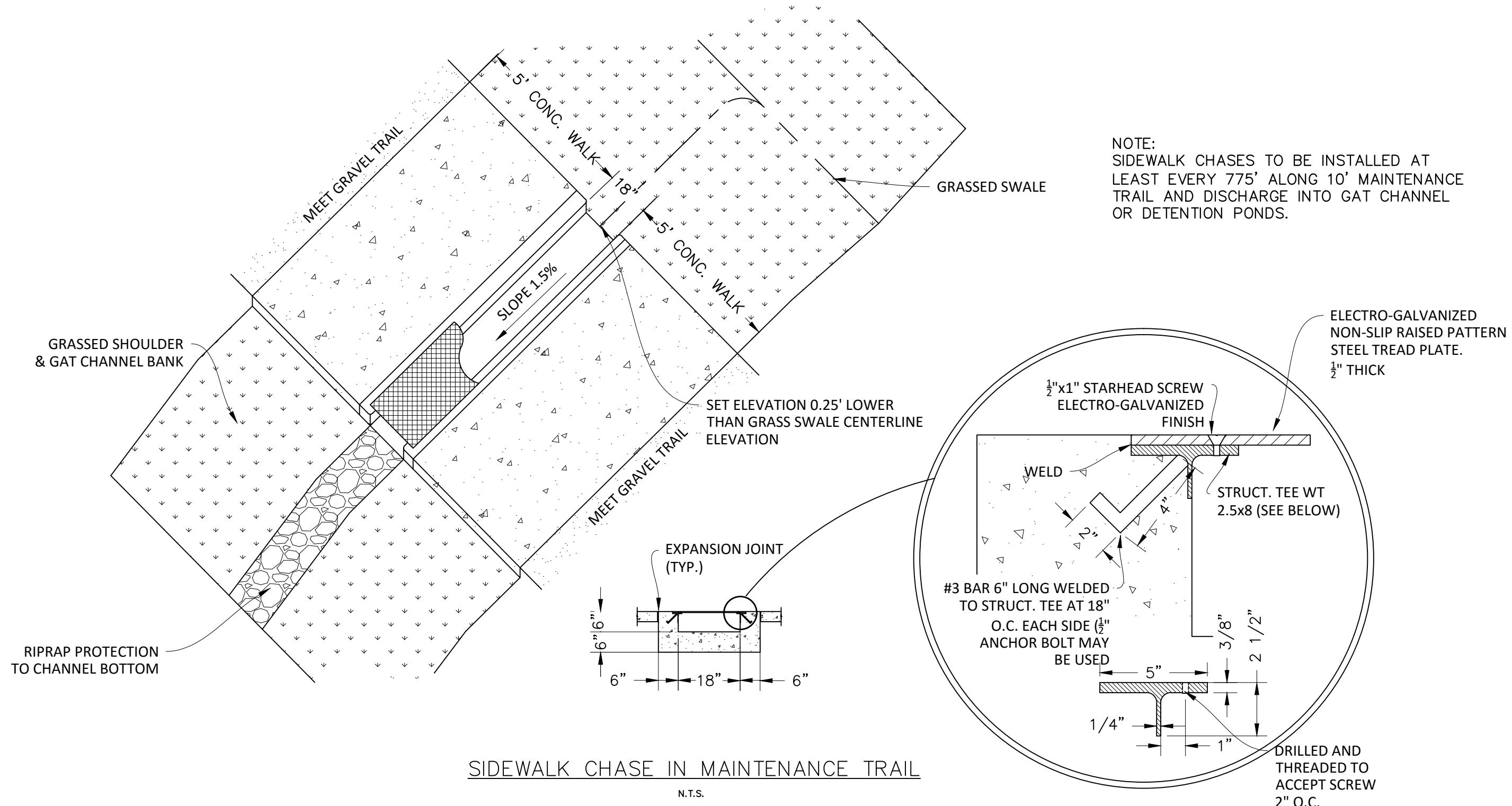
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SHEET
31 OF 33
 CLOPKC3

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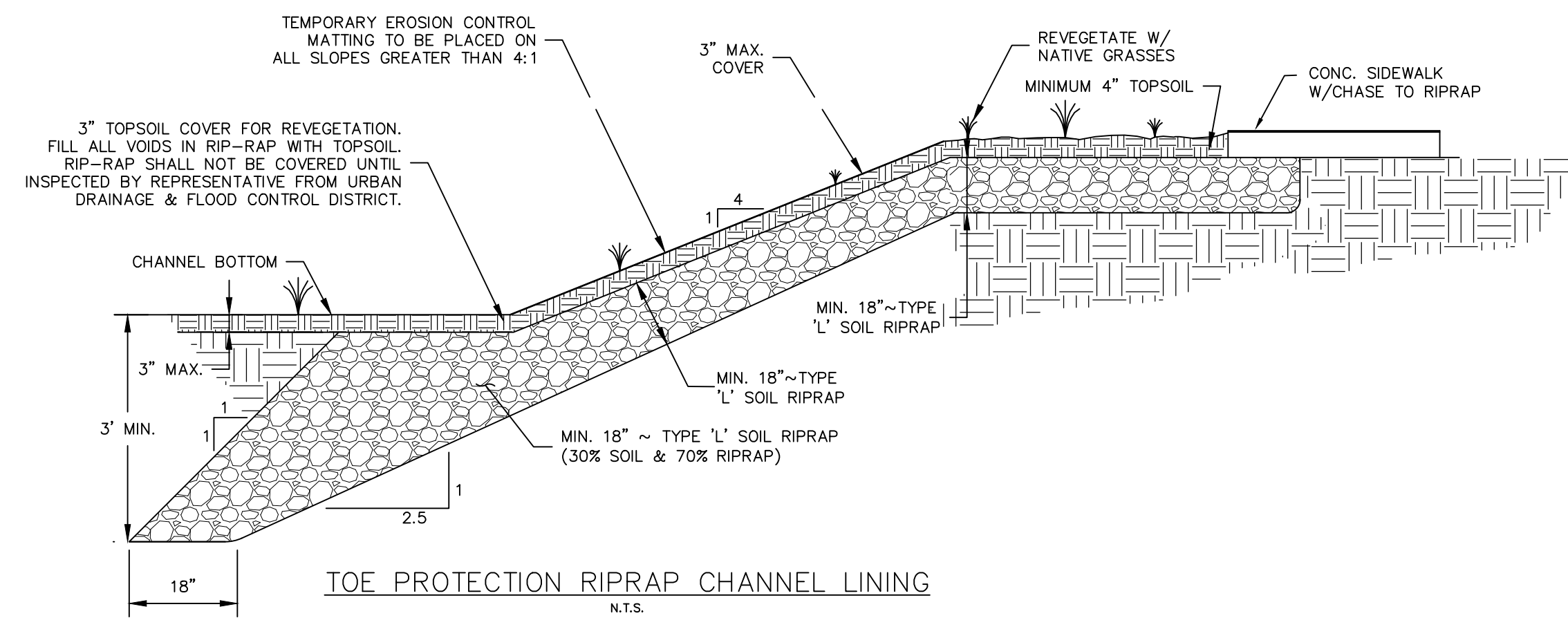
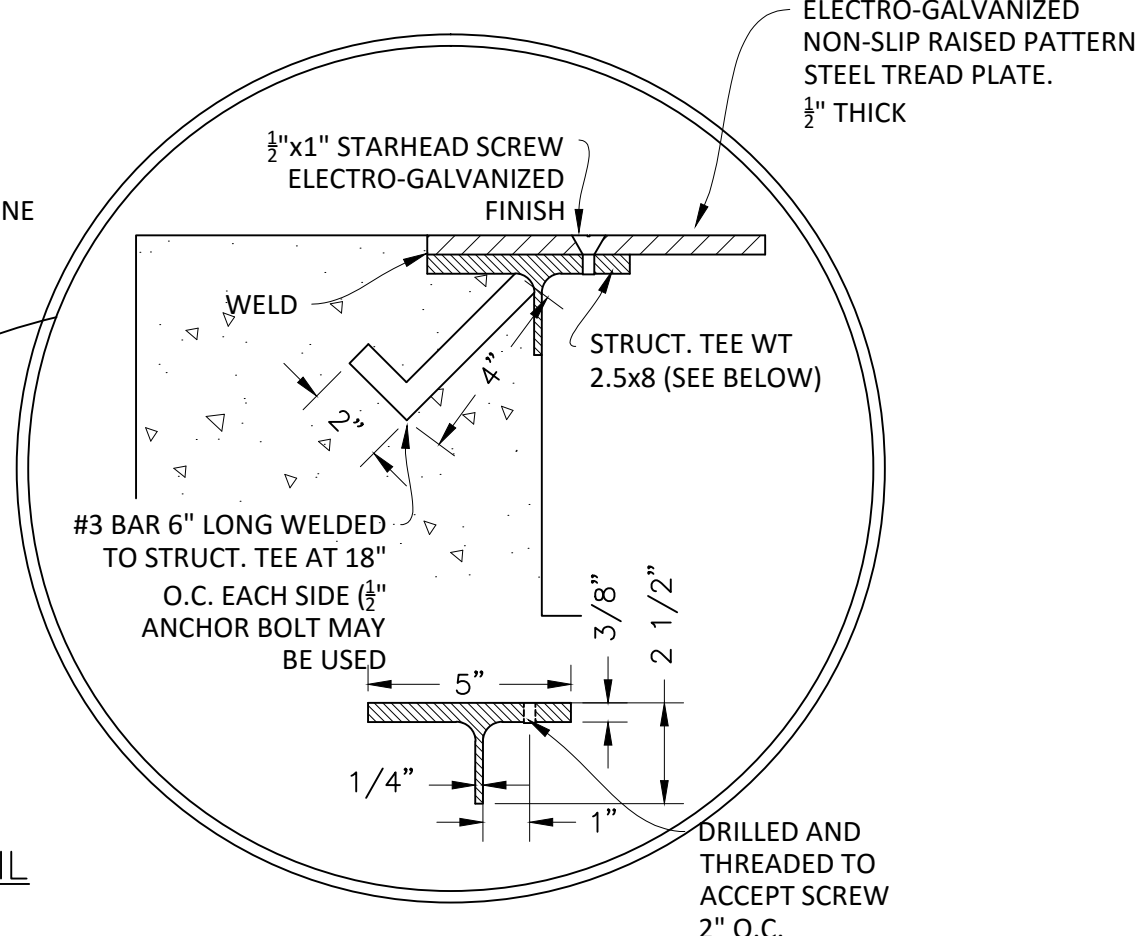


10' MAINTENANCE TRAIL
N.T.S.



SIDEWALK CHASE IN MAINTENANCE TRAIL
N.T.S.

NOTE:
SIDEWALK CHASES TO BE INSTALLED AT
LEAST EVERY 775' ALONG 10' MAINTENANCE
TRAIL AND DISCHARGE INTO GAT CHANNEL
OR DETENTION PONDS.



TOE PROTECTION RIPRAP CHANNEL LINING
N.T.S.

Plotted: 11/17/2015 4:49 PM Draw Name: E:\Projects\CompSouth02-GreenAcres\Drawings\Final\Drawings\Comp\CLCPKC3-Propose-Gen\Detail-1.dwg Updated By: ADP/cker

NO.	REVISIONS	DATE
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2	2ND SUBMITTAL	06/20/16
3	1ST SUBMITTAL	11/17/2015

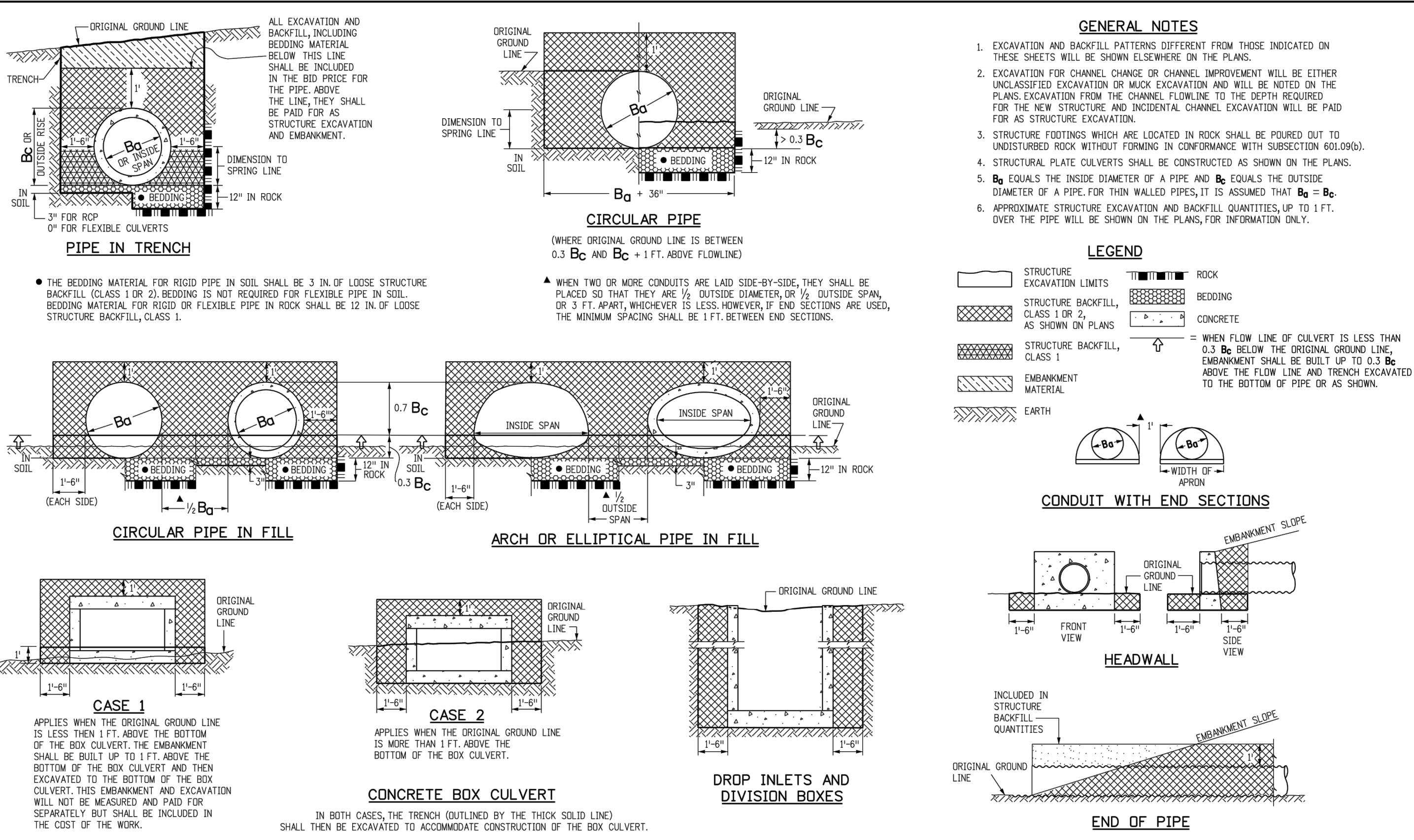
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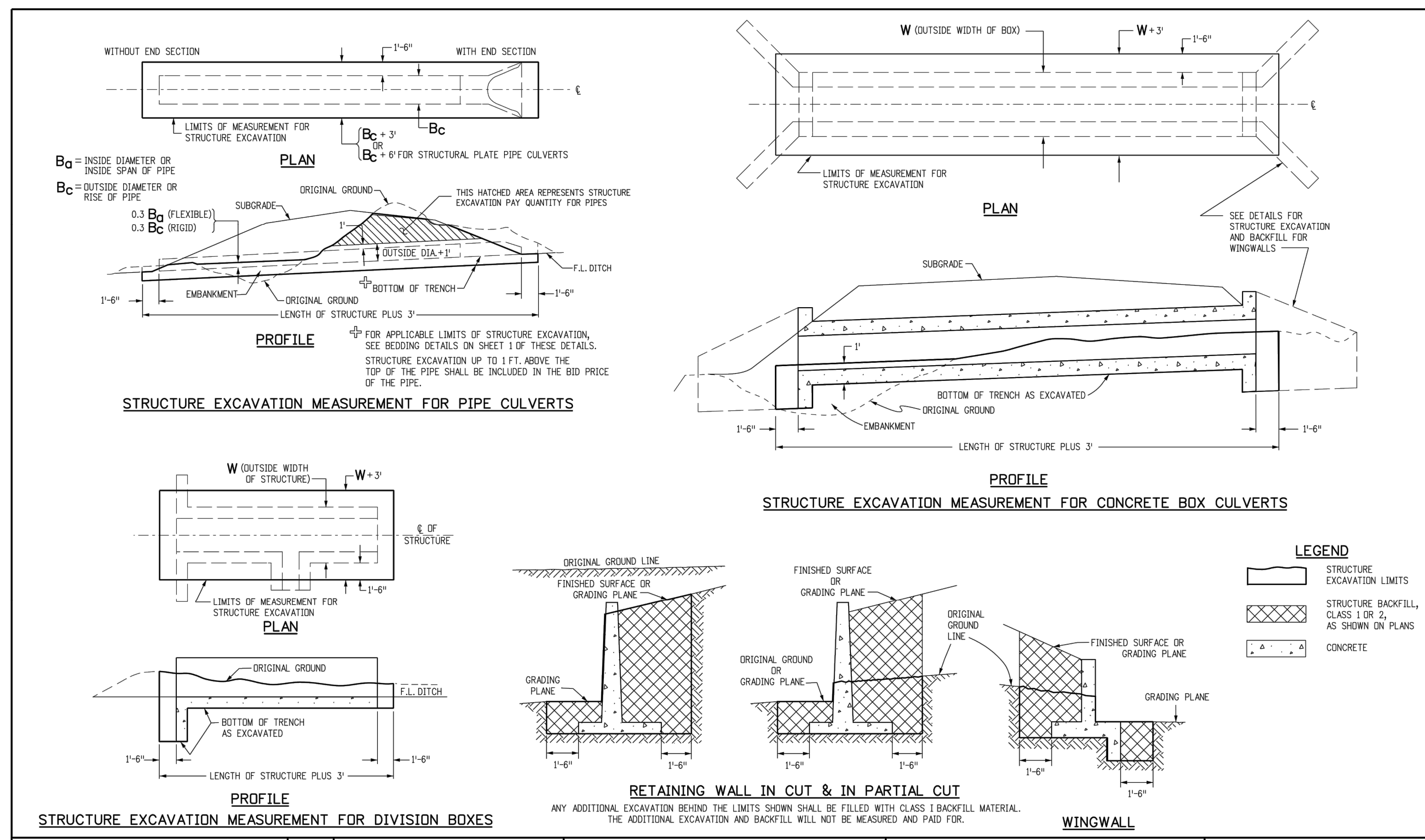
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 DRAWN BY: ETG
 DATE: 11/2015
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Computer File Information		Sheet Revisions		Colorado Department of Transportation		EXCAVATION AND BACKFILL FOR STRUCTURES		STANDARD PLAN NO.	
Creation Date: 07/04/12	Initials: DD	Date:	Comments:		4201 East Arkansas Avenue	M-206-1		Sheet No. 1 of 2	
Last Modification Date: 07/04/12	Initials: LTA				Denver, Colorado 80222	Issued By: Project Development Branch July 4, 2012			
Full Path: www.coloradodot.info/business/designsupport1					Phone: (303) 757-9083				
Drawing File Name: Z06010102.dgn					Fax: (303) 757-9820				
CAD Ver: MicroStation V8	Scale: Not to Scale	Units: English			Project Development Branch DD/LTA				



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DATE	REVISIONS	DRAWN BY

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11/2015
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EG

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CDOT DETAILS

PROJ. MGR.: RJM
 PROJ. ASSOC.: ASD
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