- 1. ALL CONSTRUCTION TESTING AND INSPECTIONS SHALL CONFORM TO THE 2018 IBC AND 2019 OREGON STRUCTURAL SPECIALTY CODE (2019 OSSC).
- 2. ALL DETAILS ARE TYPICAL. FOR CONDITIONS NOT SPECIFICALLY SHOWN, PROVIDE DETAILS SIMILAR TO THOSE SHOWN, SUBJECT TO REVIEW.
- 3. VERIFY ALL EXISTING FEATURES AND CONDITIONS (DIMENSIONS, ELEVATIONS, ETC.) UPON WHICH THESE DRAWINGS RELY.
- 4. OMISSIONS OR DISCREPANCIES BETWEEN THE VARIOUS ELEMENTS OF THE CONTRACT DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM BEFORE PROCEEDING WITH THE WORK.
- 5. SEE OTHER DRAWINGS FOR ITEMS AND/OR DETAILS NOT SHOWN ON CIVIL DRAWING. COORDINATE CIVIL WORK WITH THE STRUCTURAL WORK.
- 6. DURING THE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING, BRACING, AND GUYS IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL SAFETY ORDINANCES.
- 7. WHERE A CONFLICT OCCURS BETWEEN SPECIFICATIONS, NOTES ON THE DRAWINGS, GENERAL NOTES, AND SPECIFIC DETAILS, THE MORE RESTRICTIVE SHALL GOVERN.
- 3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREIN OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT IN CONJUNCTION WITH THE PERFORMANCE OF THIS WORK.
- 9. ITEMS IDENTIFIED BY TRADE NAME ARE INDICATIVE OF A LEVEL OF PERFORMANCE OR A GRADE OF MATERIAL. IN ALL SUCH CASES THE PHRASE "OR APPROVED EQUAL" SHALL APPLY. SUBSTITUTES SHALL BE SUBMITTED TO THE DESIGN TEAM AND THE CITY FOR APPROVAL PRIOR TO USE.
- 10. CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN ON ALL DRAWINGS. NOTIFY DESIGN TEAM OF ANY CONFLICTING INFORMATION PRIOR TO BEGINNING CONSTRUCTION.
- 11. ALL CONSTRUCTION AND POUR JOINTS TO BE APPROVED BY THE ENGINEER OF RECORD.
- 12. THE BRACING AND SHORING SYSTEMS REQUIRED TO PROVIDE TEMPORARY SUPPORT DURING CONSTRUCTION SHALL BE DESIGNED TO SUPPORT THE DEAD, LIVE, SOIL, EARTHQUAKE, AND WIND LOADS THAT MAY BE IMPOSED DURING CONSTRUCTION, IN ACCORDANCE WITH INDUSTRY STANDARDS AND GENERALLY ACCEPTED ENGINEERING PRINCIPLES.
- 13. THE STABILITY AND INTEGRITY OF THE EXISTING STRUCTURES DURING CONSTRUCTION SHALL BE MAINTAINED AT LEVELS GENERALLY ACCEPTABLE WITHIN THE CONSTRUCTION INDUSTRY BY THE USE OF BRACING, SHORING AND UNDERPINNING. IN NO CASE SHALL THE EXISTING STRUCTURES BE ALLOWED TO BECOME UNSAFE DURING CONSTRUCTION.
- 14. NO CONSTRUCTION OR ORDERING MATERIALS SHALL TAKE PLACE UNTIL THE CONTRACTOR HAS RECEIVED APPROVED SUBMITTALS FROM THE ENGINEER OF RECORD.
- 15. CONSTRUCTION LIABILITY: CONSTRUCTION CONTRACTOR AND HIS/HER SUBCONTRACTORS AGREE THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR AND HIS/HER SUBCONTRACTORS WILL BE REQUIRED TO ASSUMED SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR AND HIS/HER SUBCONTRACTORS FURTHER AGREE TO DEFEND, INDEMNIFY, AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THE PROJECT EXCEPT LIABILITY FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.
- 16. THE SUBMITTALS SHALL SHOW LAYOUT, SIZE OF MEMBERS, CONNECTION DETAILS AND CONSTRUCTION SEQUENCE FOR ALL BRACING AND SHORING SYSTEMS. THE SUBMITTALS SHALL BE ACCOMPANIED BY STRUCTURAL CALCULATIONS SIGNED BY A REGISTERED ENGINEER. THE ENGINEER SHALL ALSO PROVIDE A LETTER STATING THAT HE/SHE HAS REVIEWED THE SUBMITTALS FOR COMPLETENESS AND SHALL PERFORM FIELD VISITS AS REQUIRED IN ORDER TO CHECK GENERAL CONFORMANCE OF THE CONSTRUCTION TO THE CALCULATIONS.
- 17. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AS REQUIRED BY THESE DOCUMENTS AFTER THE CONTRACTOR HAS REVIEWED THE SUBMITTALS. ENGINEERING REVIEW OF ANY SUBMITTALS IS ONLY FOR COMPLIANCE WITH GENERAL STRUCTURAL REQUIREMENTS AND IS SPECIFICALLY NOT FOR DIMENSIONAL OR QUANTITATIVE INFORMATION.

WHEN WORKING IN ODOT RIGHT OF WAY, ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE OREGON DEPARTMENT OF TRANSPORTATION 2021 OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION (INCLUDING TRENCH BACKFILL, PERMITTING, ETC.), UNLESS OTHERWISE NOTED.

- 2. WHEN WORKING OUTSIDE OF RIGHT OF WAY ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE 2021 OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION AS MODIFIED BY THE CITY OF FLORENCE STANDARDS AND SPECIFICATIONS.
- 3. CONTRACTOR SHALL NOTIFY CITY OF FLORENCE AND JOHNSON BRODERICK ENGINEERING TWO WORKING DAYS IN ADVANCE OF STARTING CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY, AND SHALL COORDINATE NECESSARY INSPECTIONS AND GEOTECHNICAL TESTING THROUGHOUT FINAL APPROVAL WITH CITY OF FLORENCE. COORDINATE WITH THE CITY OF FLORENCE AND HECETA WATER PUBLIC UTILITY DIRSTICT FOR NECESSARY INSPECTIONS.
- 4. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND IMPROVEMENTS.
- . ANY DAMAGE TO EXISTING FACILITIES OR IMPROVEMENTS, INCLUDING SURVEY MONUMENTS, OR PROPERTY CORNERS, RESULTING FROM THE CONTRACTOR'S OPERATION, SHALL BE REPAIRED OR REPLACED AT CONTRACTOR'S EXPENSE.
- 6. CONTRACTOR SHALL EXPOSE, VERIFY, CONNECT AND/OR MATCH EXISTING UTILITIES AND IMPROVEMENTS, IN CONFORMANCE WITH THE INTENT OF THESE PLANS AND SPECIFICATIONS. TO PROVIDE COMPLETE AND/OR OPERATIONAL SYSTEMS.
- DURING THE COURSE OF THE WORK, CONTRACTOR SHALL COORDINATE AND ACCOMMODATE OTHER CONTRACTORS OR OPERATIONS OF OWNER.
- 8. CONTRACTOR SHALL RESTRICT ALL OPERATIONS TO STREET, PARKING AND BUILDING AREAS WITHIN THE PROJECT BOUNDARIES. ANY DISRUPTION TO NATIVE LANDSCAPES, OUTSIDE OF STREET AND DRIVEWAY AREAS SHALL BE RESTORED AT NO COST TO THE OWNER.
- 9. ALL WORK WITHIN THE PUBLIC RIGHT OF WAYS OR DEDICATED EASEMENTS TO BE PERFORMED BY A CITY APPROVED CONTRACTOR.
- 10. DUST, EROSION, AND SEDIMENTATION CONTROL IS TO BE PROVIDED BY CONTRACTOR PURSUANT TO DEQ REQUIREMENTS AND AS SPECIFIED BY CITY STANDARDS (DUST CONTROL).
- 11. ALL CONSTRUCTION SHALL CONFORM TO STATE AND FEDERAL STANDARDS REGARDING ACCESSIBILITY TO PEOPLE WITH DISABILITIES.
- 12. TEMPORARY ACCESS FOR ALL USERS. INCLUDING THOSE WITH DISABILITIES, SHALL BE MAINTAINED WITHIN THE EXISTING RIGHT-OF-WAY.
- 13. PROTECT EXISTING FIRE HYDRANTS, VALVE BOXES, MANHOLES, AND CLEANOUTS DURING CONSTRUCTION.
- 14. ALL WATER, STORMWATER, AND WASTE WATER CONVEYANCE LINES ARE TO BE TESTED PER THE CITY OF FLORENCE AND HECETA WATER PUBLIC UTILITY DISTRICT STANDARDS AND SPECIFICATIONS.



OWNER
STONEFIELD INVESTMENTS
1535 9th STREET
FLORENCE, OR 97439
PROJECT CONTACT: ROBBIE WRIGHT
PHONE: 541-902-5490
EMAIL: Robbie@Hyak.co

GENERAL CONTRACTOR
RAY WELLS, INC
1770 LAUREL PL
FLORENCE, OREGON 91052
PROJECT CONTACT: NORM WELLS
PHONE: 541-997-2054
EMAIL: norm@raywellsinc.com

CIVIL & STRUCTURAL ENGINEERING
JOHNSON BRODERICK ENGINEERING, LLC
325 WEST 13TH AVENUE
EUGENE, OREGON 97401
ENGINEER OF RECORD: AARON BRODERICK, PE
PROJECT CONTACT: MIKE SHEILDS, PE
PHONE: 541-338-9488
EMAIL: aaron@jbe.us.com
EMAIL: mike@jbe.us.com

GEOTECHNICAL ENGINEERING
EARTH ENGINEERS, INC.
4460 MAIN ST., SUITE 100-1A
SPRINGFIELD, OR 97478
ENGINEER OF RECORD: GREG THIBEAUX, PE
PROJECT CONTACT: GREG THIBEAUX, PE
PHONE: 541-393-6340
EMAIL: greg@earth-engineers.com

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PS. BUILTS ISSUED FOR ASTRONOMY.

EXHIBIT A

7 PROJECT TEAM

C0.0 COVER SHEET C1.0 EXISTING CONDITIONS C2.0 PROPERTY BOUNDARY AND PROPOSED SITE PLAN X X X # -- -- # X C2.1 PLAN VIEW | X | X | X | X | -- | X | # | X | C2.2 ADA RAMPS - X # X -- X # # C3.0 PROPOSED GRADING & CUT FILL PLANS C4.0 PROFILES X X X X X -- # X C5.0 UTILITY PLAN X X # X - - # # -- X # # - - # # -- - - X - - # # -- - - X - - - # # C6.0 DETAILS C6.1 WATER DETAILS C6.2 CITY OF FLORENCE STANDARD DRAWINGS C6.3 PUMP STATION DETAILS C6.4 DETAILS C6.5 DETAILS ISSUED NOT ISSUED REMOVED FROM SET ISSUED, NO REVISION

STONEFIELD INVESTMENTS
MAP LOT 1812044403800
FLORENCE, OR 97439

Date: 2022.07.18

Project No: 21038.01

Drawn By: BMD

Checked By: AMB

COVER SHEET

GENERAL NOTES

17 CIVIL NOTES

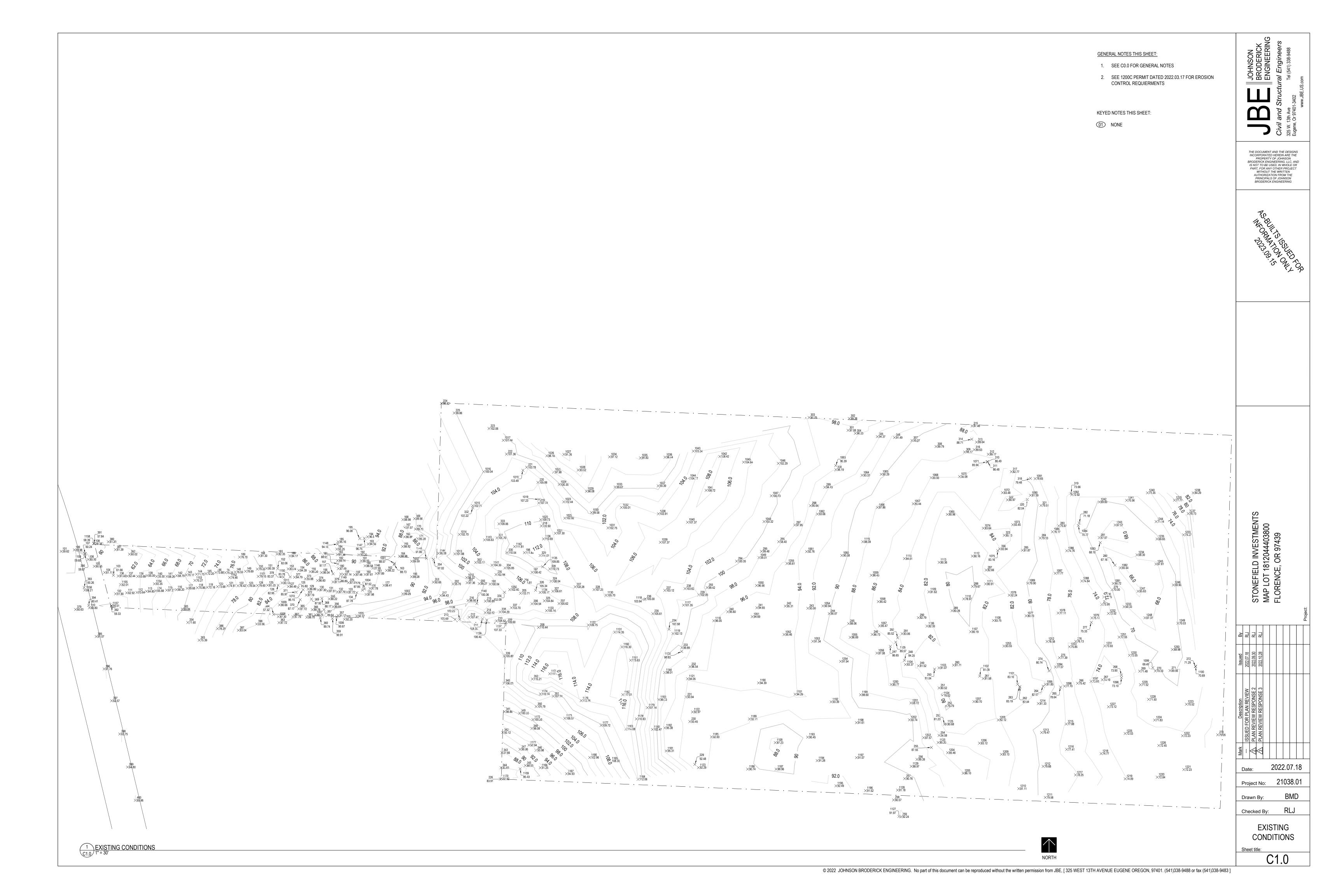
10

NOT USED

VICINITY MAP

5 SHEET INDEX

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STONEFIELD INVESTMENTS MAP LOT 1812044403800 FLORENCE, OR 97439

2022.07.18

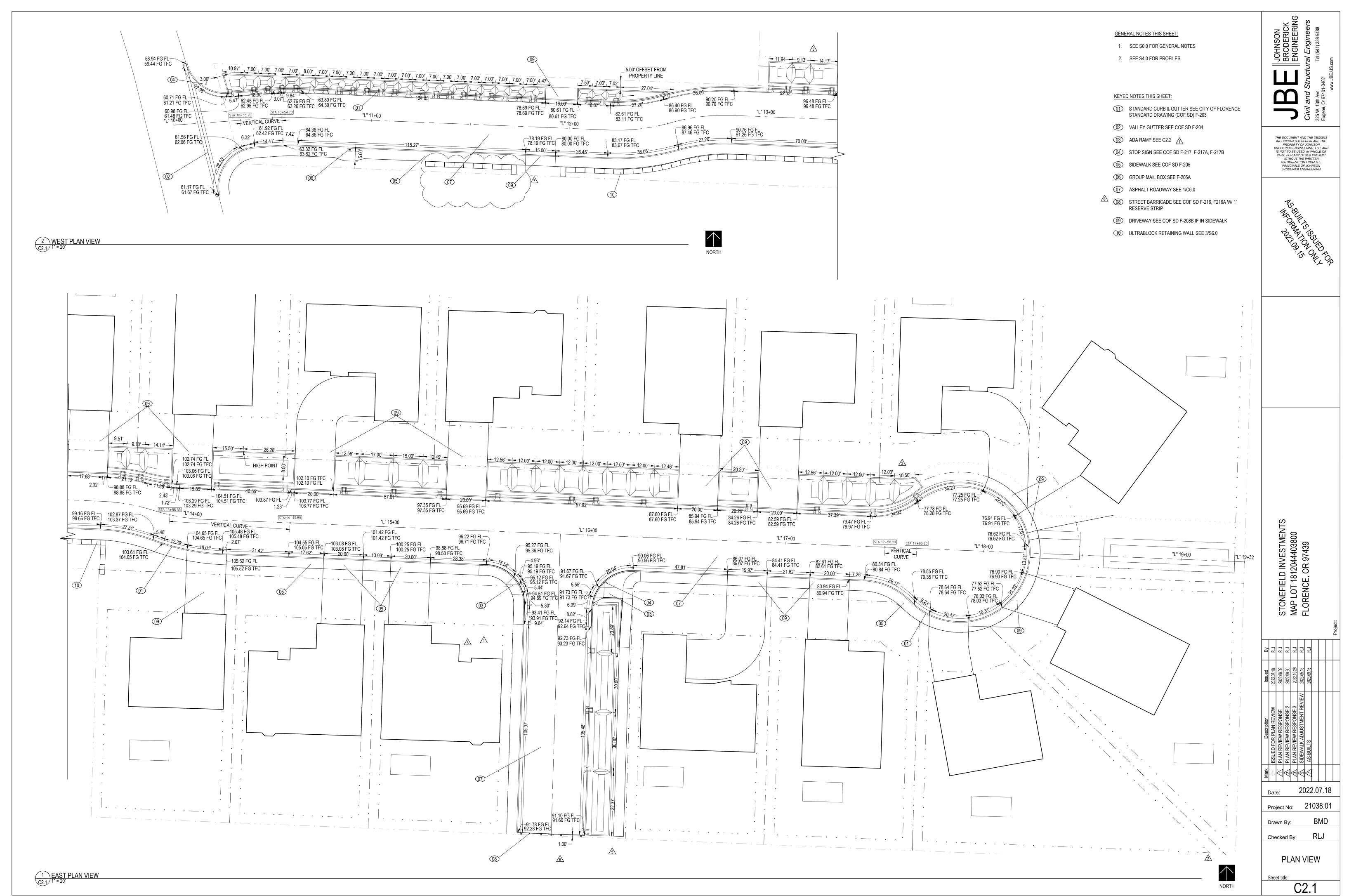
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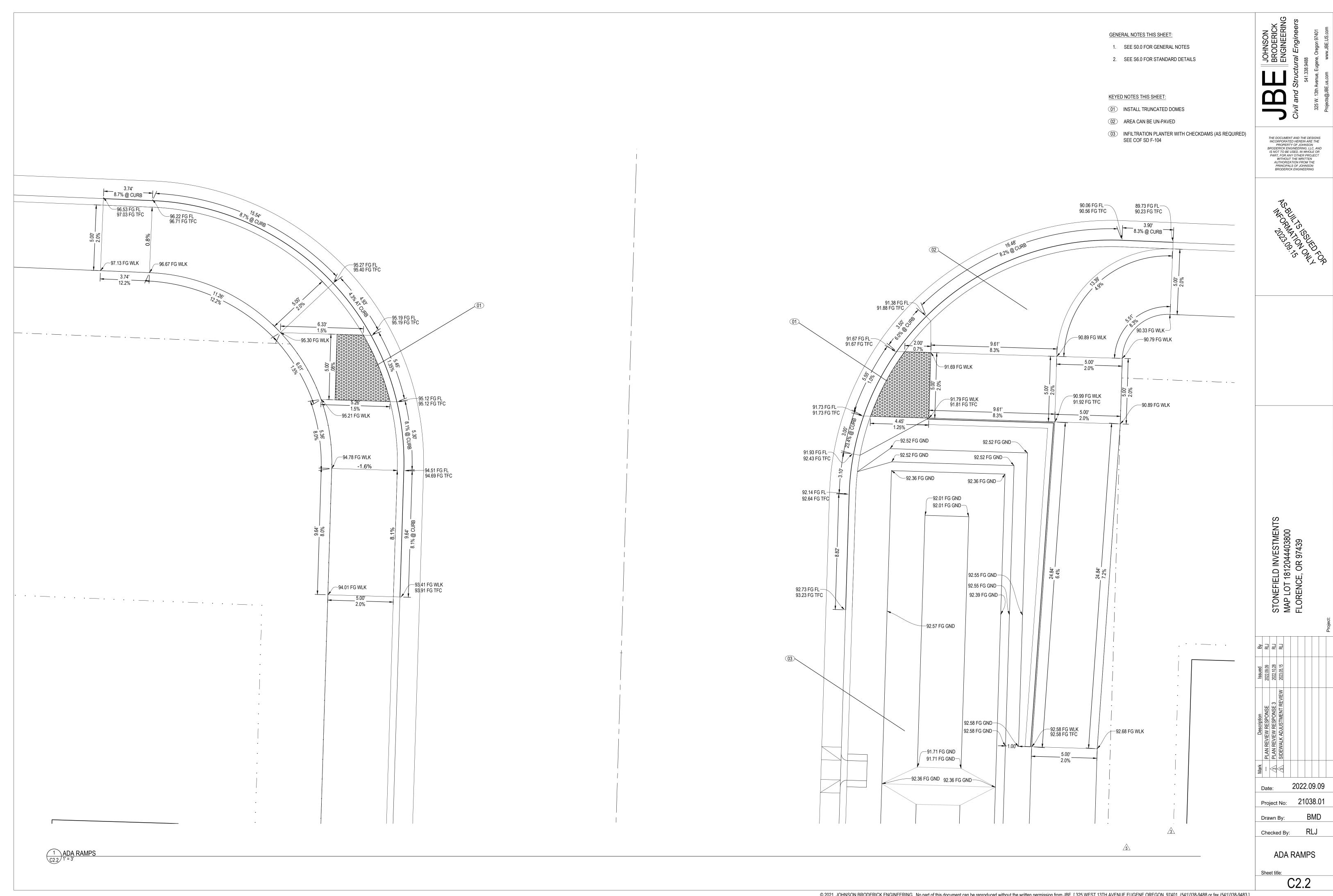
Checked By: RLJ

PROPERTY **BOUNDARY AND** PROPOSED SITE PLAN

Drawn By:

Sheet title:





+0.00 C/F+0.11 C/F

PROPOSED CUT FILL ELEVATIONS

(C3.0) 1" = 40'

1 PROPOSED GRADING SURFACE C3.0 1" = 40'

+0.00 C/F+1.76 C/F+0.66 C/F+-0.15 C/F+2.73 C/F+8.68 C/F+9.78 C/F

+4.73 C/F+-0.96 C/F+-3.12 C/F+-0.73 C/F+-0.25 C/F+-1.01 C/F+-2.73 C/F+-4.38 C/F+-1.79 C/F+0.15 C/F+-0.49 C/F+-0.66 C/F+0.19 C/F

+1.59 C/F +2.49 C/F +-3,20 C/F +-3,20 C/F +-3,20 C/F +-6.38 C/F +-6.27 C/F +2.03 C/F +2.51 C/F +2.12 C/F +0.01 C/F +1.72 C/F +-0.77 C/F +2.83 C/F +3.18 C/F +-3.18 C/F +2.12 C/F +3.94 C/F +2.31 C/F +0.34 C/F +2.31 C/F +0.34 C/F +2.30 C/F +2.30 C/F +2.61 C/F +2.07 C/F +7.20 C/F +7.20 C/F +6.37 C/F +4.06 C/F +1.78 C/F +2.72 C/F

\*0.05 C/F \*0.02 C/F \*-1.92 C/F \*-3.90 C/F \*-3.39 C/F \*-3.43 C/F \*-6.97 C/F \*-3.43 C/F \*-0.45 C/F \*2.38 C/F \*2.50 C/F \*1.63 C/F \*-0.73 C/F \*-0.24 C/F \*1.76 C/F \*2.22 C/F \*3.37 C/F \*2.66 C/F \*2.07 C/F \*0.31 C/F \*-3.91 C/F \*-2.48 C/F \*-0.27 C/F \*1.05 C/F \*2.61 C/F \*4.15 C/F \*6.68 C/F \*5.05 C/F

40.00 C/F + -2.08 C/F + -4.58 C/F + -2.34 C/F + -6.90 C/F + -10.51 C/F -1.65 C/F + 2.45 C/F + 1.42 C/F + 1.66 C/F + 1.15 C/F + -1.39 C/F + -1.39 C/F + 0.14 C/F + 0.52 C/F + 2.18 C/F + 2.18 C/F + 2.33 C/F + 3.04 C/F + 1.05 C/F + 1.12 C/F + -2.49 C/F -2.72 C/F -0.80 C/F + 2.62 C/F + 2.57 C/F + 2.96 C/F + 3.85 C/F + 2.81 C/F

-0.03 C/F+ -4.03 C/F+ -5.76 C/F+ -3.30 C/F+ -10.43 C/F+ -10.43 C/F+ -10.29 C/F+ 0.78 C/F+ 3.11 C/F+ 2.74 C/F+ 2.66 C/F+ -1.46 C/F+ -0.74 C/F+ 0.71 C/F+ -0.02 C/F+ 2.73 C/F+ 3.49 C/F+ 4.52 C/F+ 1.45 C/F +1.28 C/F+ -0.49 C/F+ -2.22 C/F+ -1.12 C/F+ -0.18 C/F+ 1.11 C/F + 2.63 C/F+ 4.51 C/F+ 2.52 C/F

+0.00 C/F+0.09 C/F+0.11 C/F+0.16 C/F+-0.55 C/F+-1.33 C/F+2.12 C/F+2.33 C/F+1.20 C/F+1.36 C/F+1.21 C/F+3.81 C/F+1.32 C/F+0.18 C/F+0.29 C/F+-0.74 C/F+-0.74 C/F+-0.84 C/F+0.00 C/F+0.00 C/F+0.00 C/F+0.00 C/F+0.07 C/F+0.25 C/F+1.25 C/F+0.22 C/F+0.09 C/F

+5.05 C/F + 2.95 C/F + -2.28 C/F + -9.16 C/F + -9.46 C/F + 1.97 C/F + 5.89 C/F + 3.95 C/F + 4.05 C/F + 4.05 C/F + 4.22 C/F + -0.52 C/F + 0.52 C/F + 0.52 C/F + 0.83 C/F + 0.26 C/F + 1.09 C/F + 3.14 C/F + 2.26 C/F + 1.31 C/F + -0.33 C/F + -1.30 C/F + -1.30 C/F + -0.92 C/F + 1.55 C/F + 2.89 C/F + 2.89 C/F + 2.51 C/F + 0.70 C/F + 0.00 C/F

+-0.42 C/F+-0.00 C/F+0.00 C/F+

+0.16 C/F+2.29 C/F+1.79 C/F+0.17 C/F+-4.66 C/F+-7.05 C/F+3.59 C/F+3.59 C/F+5.82 C/F+4.73 C/F+5.20 C/F+6.06 C/F+3.20 C/F+0.60 C/F+1.11 C/F+0.60 C/F+-1.31 C/F+0.85 C/F+1.31 C/F+0.77 C/F+-0.07 C/F+0.07 C/F+0.21 C/F+0.42 C/F+-1.49 C/F+-1.26 C/F+1.19 C/F+2.57 C/F+1.29 C/F+0.31 C/F+0.00 C/F+0.00

+3.03 C/F+-1:98 C/F+-5.23 C/F+-6.38 C/F+-9.70 C/F+-9.68 C/F+-9.70 C/F+-9.68 C/F+-2.07 C/F+-2.07 C/F+-2.07 C/F+-0.62 C/F+-2.55 C/F+-2.66 C/F+-0.71 C/F+-1.08 C/F+1.23 C/F+1.61 C/F+0.79 C/F+2.60 C/F+2.60 C/F+2.60 C/F+3.13 C/F+1.78 C/F+3.99 C/F+0.91 C/F+-3.87 C/F+-1.94 C/F+2.65 C/F+5.61 C/F+6.34 C/F+6.05 C/F+6.05 C/F+4.20 C/F+0.59 C/F

+0.00 C/F + 4.00 C/F + 0.11 C/F + -2.76 C/F + -3.48 C/F + 2.31 C/F + 7.67 C/F + 5.19 C/F + 5.46 C/F + 5.46 C/F + 5.91 C/F + 1.69 C/F + -2.84 C/F + -4.20 C/F + -4.20 C/F + -1.18 C/F + 0.93 C/F + 2.86 C/F + 0.01 C/F + -3.27 C/F + -0.29 C/F + 1.08 C/F + -1.46 C/F + -0.83 C/F + -0.48 C/F + -3.13 C/F + -0.82 C/F

1.07 C/F -0.84 C/F -1.88 C/F -2.24 C/F -5.24 C/F -6.15 C/F -1.85 C/F -1.85 C/F -1.85 C/F -1.85 C/F -1.85 C/F -1.85 C/F -2.28 C/F -0.75 C/F -1.95 C

+0.23 C/F+ -0.38 C/F+ -0.38 C/F+ -0.38 C/F+ -0.64 C/F+ -1.89 C/F+ -2.38 C/F+

+0.17 C/F +2.17 C/F +1.25 C/F +-0.08 C/F +0.08 C/F +0.08 C/F +0.36 C/F +0.

KEYED NOTES THIS SHEET: ①1 NOT USED

**GENERAL NOTES THIS SHEET:** 

SEE C0.0 FOR GENERAL NOTES

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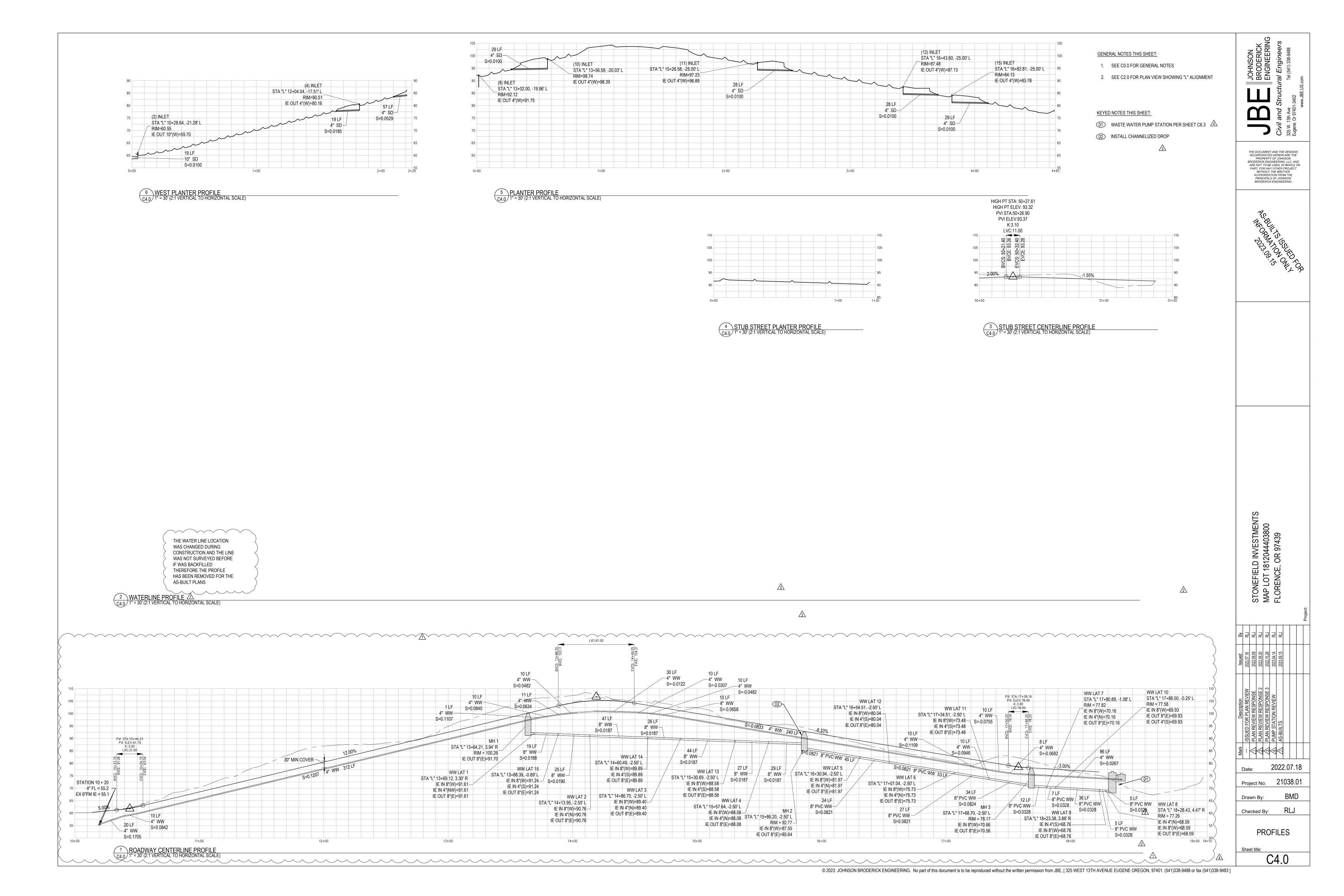
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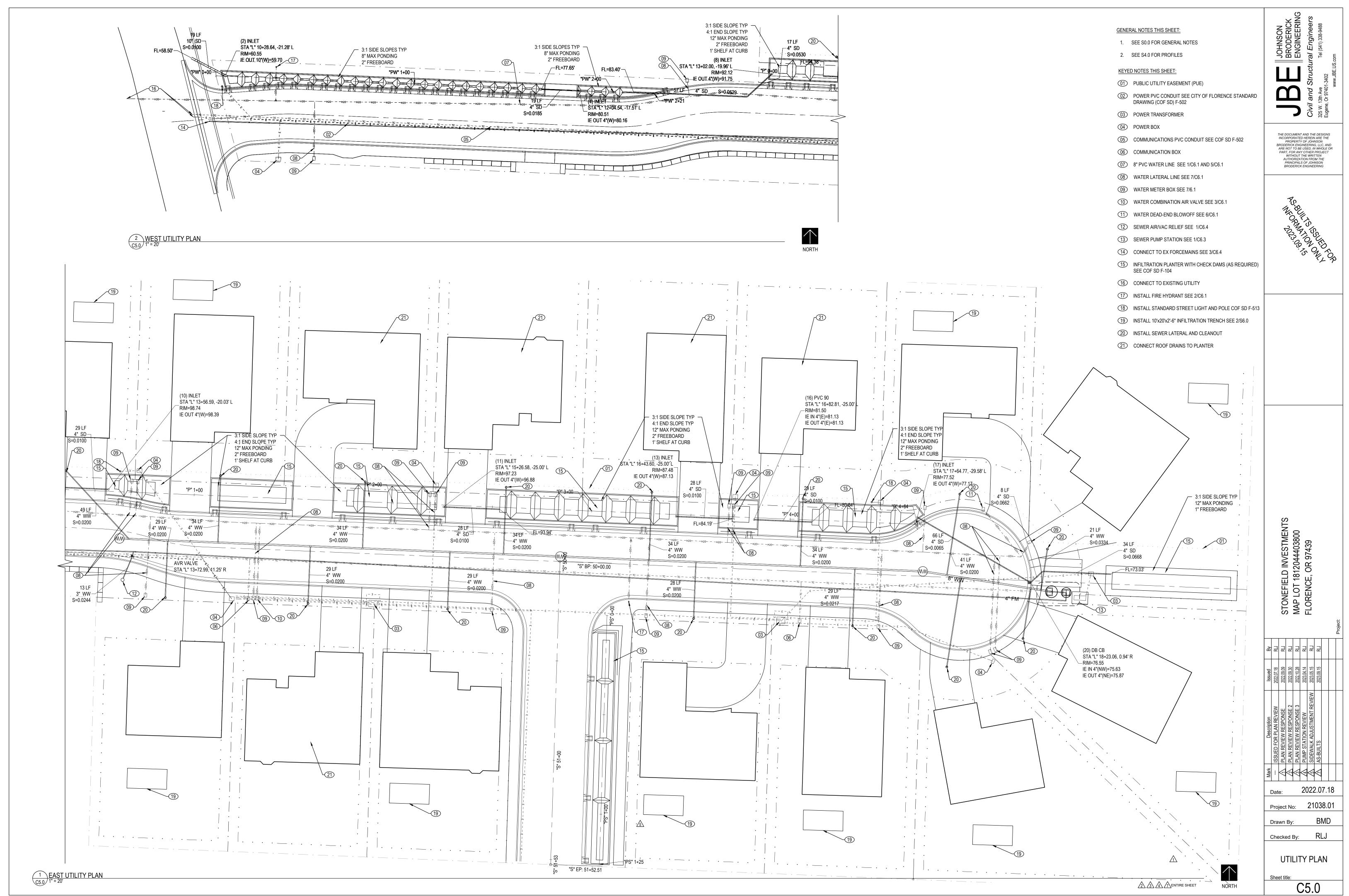
PROPOSED GRADING & CUT FILL PLANS

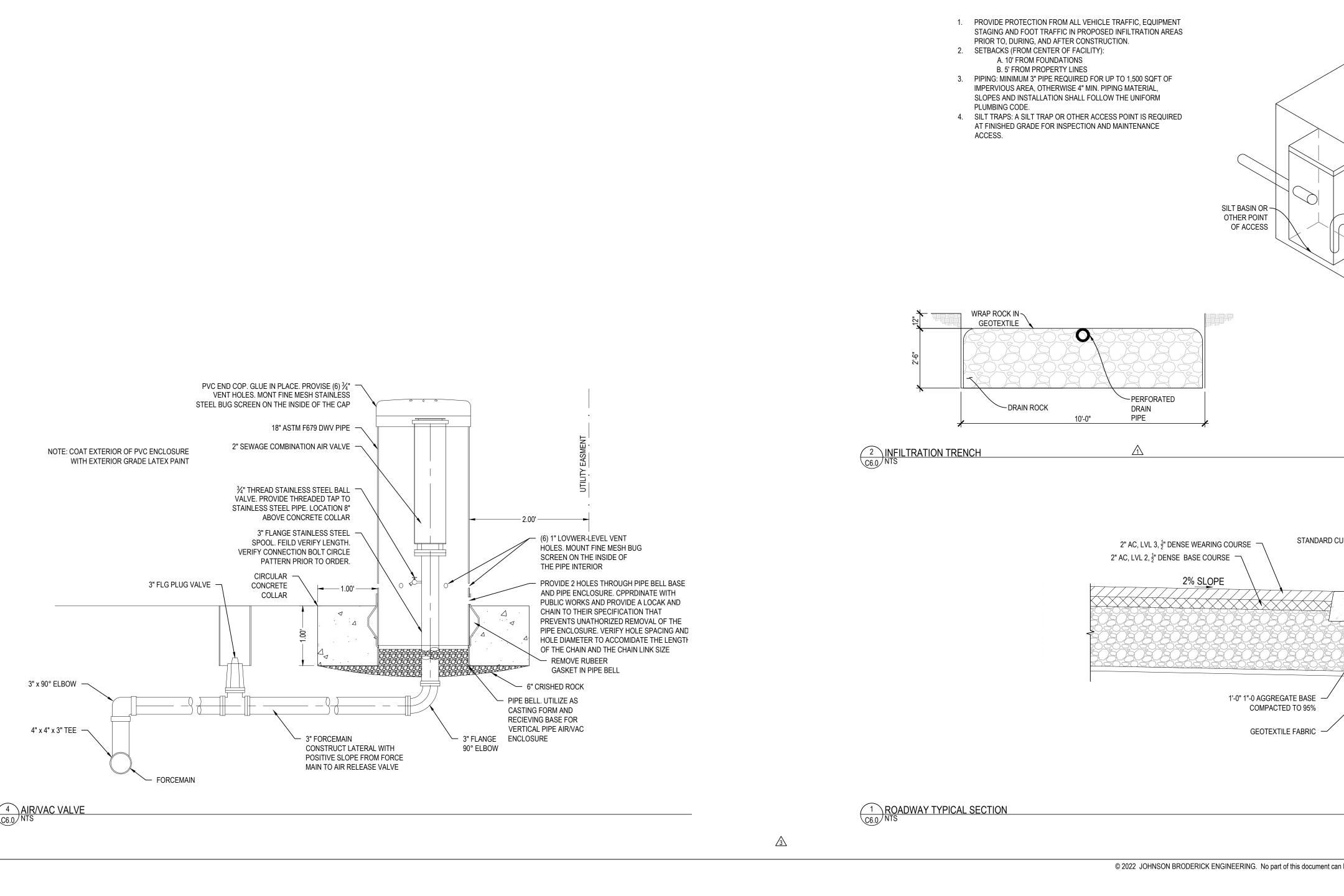
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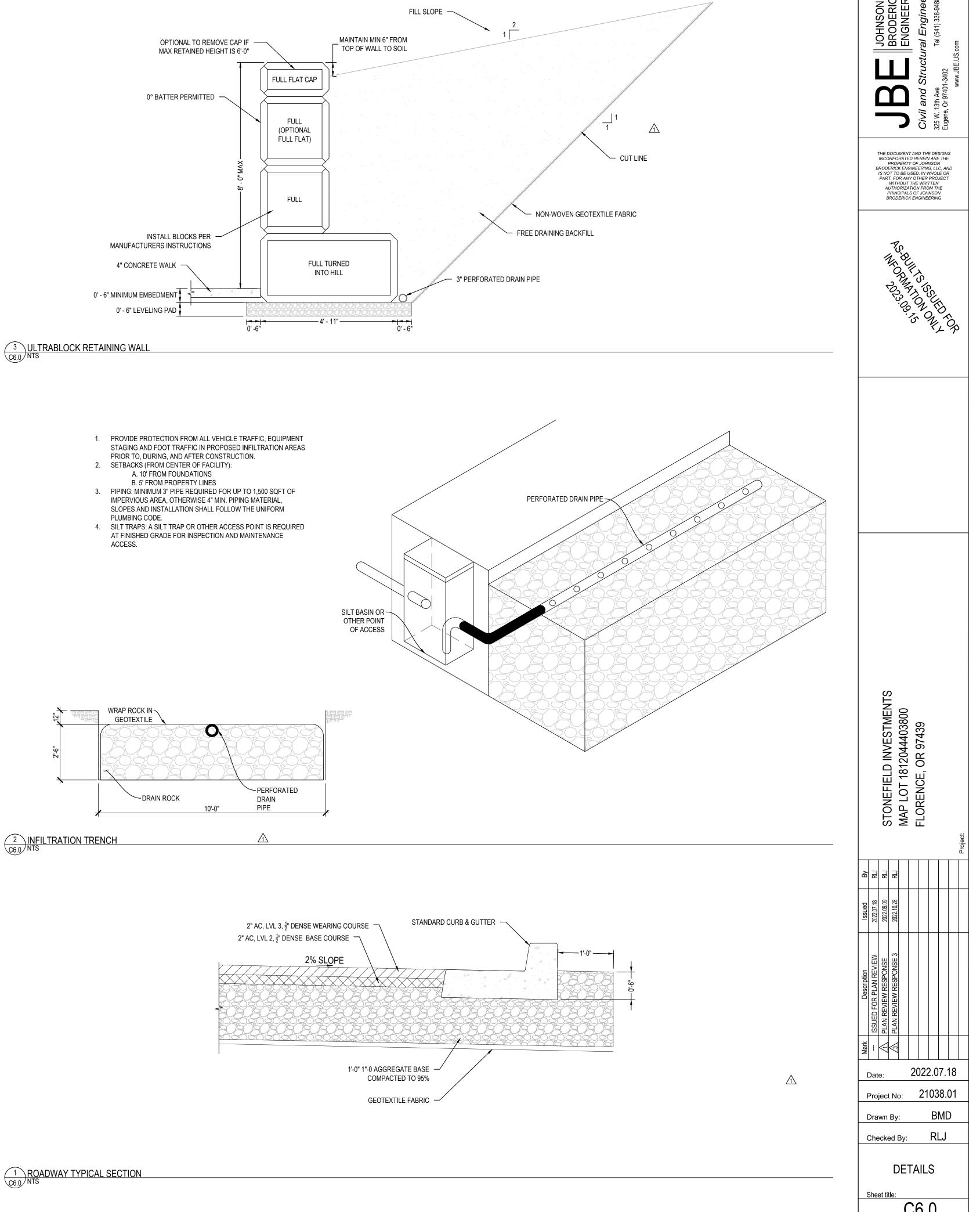
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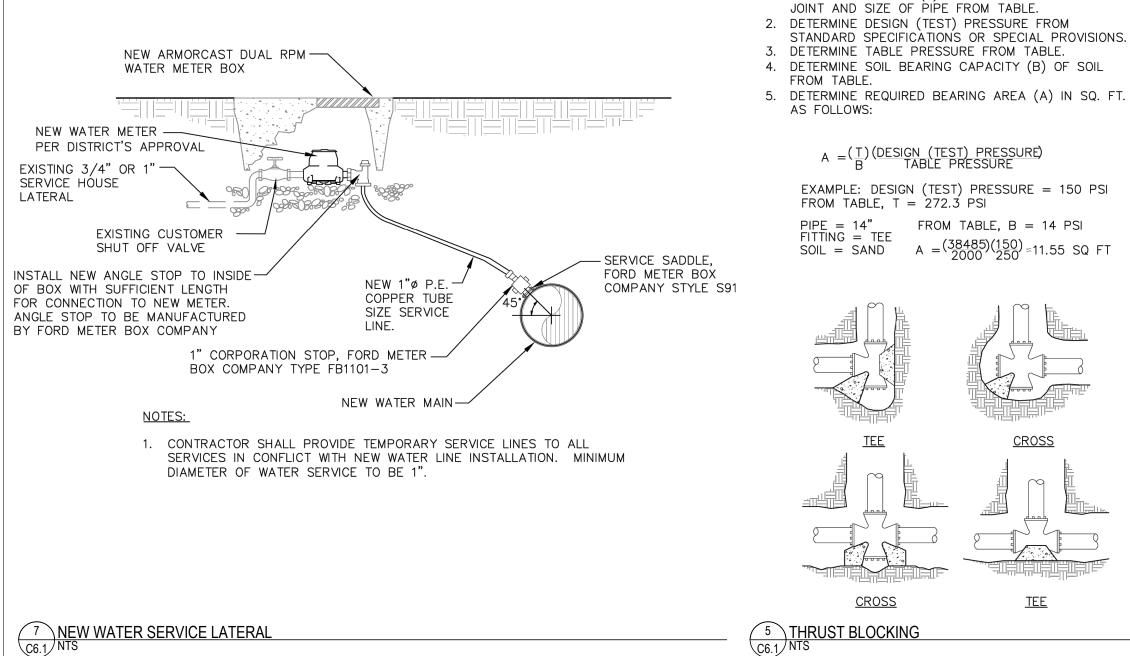
Checked By:











STRADDLE BLOCK <u>BEND</u> STIRUP <u>TEE</u> <u>WYE</u>

VERTICAL BEND

GRADE 420. COAT WITH COAL TAR EPOXY AFTER INSTALLATION.

6. WRAP PIPE AND/OR FITTINGS WITH 2 LAYERS OF POLYETHYLENE FILM WHERE IN CONTACT WITH CONCRETE 7. KEEP CONCRETE CLEAR OF ALL JOINTS AND ACCESSORIES. 8. STIRRUPS SHALL BE DEFORMED GALVANIZED COLD ROLLED STEEL AASHTO M31 (ASTM A615),

BLUE REFLECTIVE TAPE, -

TREATED 4X4X8'-

WOOD POST

2"ø S.S. BALL VALVE —

THRUST BLOCK-

-G-5 BOXES WITH LIDS

-1" TO 2" AC PAVEMENT

ON TOP OF CONCRETE

-2' SQ. X 8" - 3000 PSI

CONCRETE COLLAR

FINISH GRADE

PER FIGURE NO. 7

NEW WATER SERVICE LATERAL

COLLAR

MARKED "WATER"

SECURE TO POST

2' SQ. X 8" - 3,000 PSI 7

CONCRETE COLLAR

6 DEAD-END BLOWOFF

22.5

45

11.25

11.25

11.25

22.5

45

11.25

22.5

11.25

22.5

45

11.25

22.5

45

22.5

6" 250

CONCRETE BLOCKING FOR CONVEX VERTICAL BENDS

DIMENSION TABLE

PIPE<br/>DIA.<br/>in.Table<br/>Pressure<br/>PSIBend<br/>Angle<br/>(deg)Concrete<br/>Volume<br/>(cy)Cube<br/>Size<br/>(ft)Stirrup<br/>Dia.<br/>(in)Embmt.<br/>(in)

0.43

0.77

0.48

0.95

1.79

0.86

3.22 1.39

2.62

4.97

1.94

3.91

2.62

5.26 9.70

3.44

12.63

2. DIVIDE THRUST BY SAFE BEARING LOAD TO

3. ADJUST BEARING AREAS (A) FOR OTHER

5. ALL CONCRETE TO BE 2900 PSI MINIMUM.

THRUST BLOCK BEARING AREA" EQUATION.

4. POUR CONCRETE BLOCKING AGAINST

UNDISTURBED EARTH.

6.89

TO WITHSTAND FULL TEST PRESSURE.

OF CONCRETE TO DISTRIBUTE LOAD.

6.89

2.3 5/8

3.0 3.6 5/8

3.3 4.1 5/8

5.2 3/4 6.4 1

4.5 5.7

2.8

4.4

CONCRETE THRUST

BLOCKING (HORIZONTAL)

Soil Type

Sand and gravel cemented w/ clay

Muck, peat, etc.

Sand and gravel

THE PLANS OR

Soft Clay

Hard shale

Sand

Table Tee & 90 deg 45 deg Bend Bend Bend Bend Bend

Thrust (T) at fittings in Pounds
A B C D E

 3140
 4440
 2405
 1225
 615

 7070
 9995
 5410
 2760
 1385

12565 17770 9620 4905 2465

19635 27770 15030 7660 3850

28275 39985 21640 11030 5545

38485 54425 29455 15015 7545

50265 71085 38470 19615 9855

DETERMINATION OF THRUST BLOCK BEARING AREA

WHEN THRUST BLOCK BEARING AREA IS NOT SPECIFIED ON

ENGINEER, USE THE FOLLOWING PROCEDURE TO

1. DETERMINE THRUST (T) FOR TYPE OF FITTING OR

 $A = \begin{pmatrix} T \end{pmatrix} \begin{pmatrix} DESIGN & (TEST) & PRESSURE \end{pmatrix}$ TABLE PRESSURE

DETERMINE REQUIRED BEARING AREA.

Soil Bearing

Capacity (B) in PSI

1000

2000

3000

4000

10,000

DETERMINED BY THE

FROM TABLE, B = 14 PSI

CONCRETE COLLAR 5/8 17 5.7 7/8 24 PVC STAND PIPE /--WARNING TAPE CONTRACTOR TO PROVIDE BLOCKING ADEQUATE 1" SEPARATION IN-LINE GATE VALVE DETERMINE REQUIRED BEARING AREA (A IN SQ FT) 3/4" MINUS NATURAL— SCREENED GRAVEL AS MANUFACTURED BY KENNEDY VALVE PRESSURE CONDITIONS. (SEE "DETERMINATION OF TONING WIRE -VALVE SIZE AND ENDS-AS SPECIFIED AS SPECIFIED CONCRETE BLOCKING AS -SPEC'D (DO NOT ENCASE **ELEVATION** PIPE OR BOLTS) CONCRETE COLLAR, 8" THICK, 3,000 PSI CONCRETE -CONCRETE, COLLAR, WITH 8" THICK, REINFORCED 3,000 PSI STEEL, #4 @ CONCRETE 12" O.C., E.W. SINGLE VALVE MULTIPLE VALVE

NOTES:

4 BURIED GATE VALVE
C6.1 NTS

- CHRISTY G5 BOX, G5GR10 18" LENGTH OF-GRADE RING AND G5C SLACK TONING WIRE CAST IRON LID. — 8" THICK 3,000 PSI CONCRETE COLLAR — AC PAVEMENT 1" MIN., 2" MAX. OVER TOP OF -SIZE AND TYPE OF PIPE

ANGLE STOP -MJ PLUG/END CAP WITH MEGA LÚG ACCESSORIES 1) BLOW OFF ASSEMBLY AND END OF WATER MAIN MUST HAVE A KICKER/THRUST BLOCK 2) EXTEND PIPE 2' ABOVE GRADE AND INSTALL TO SIDE OF A 4X4 TREATED WOOD POST

FINISH GRADE — BRASS INSECT SCREEN OVER END 6" MIN. COMB. AIR VALVE APCO MODEL 143C -BACKFILL AS SPECIFIED BRASS NIPPLE W/ CAP CRANE NO. 426 BRASS GATE VALVE THE DOCUMENT AND THE DESIGNS
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IS NOT TO BE USED, IN WHOLE OR
PART, FOR ANY OTHER PROJECT
WITHOUT THE WRITTEN
AUTHORIZATION FROM THE
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BRODERICK ENGINEERING 12" MIN. DRAIN 1"ø BRASS PIPE SPOOL-ROCK LENGTH VARIES (SEE PLANS) TRANSITION COUPLING ' DIA. PE PIPE ---DEFLECT AS REQ'D —1" CORPORATION STOP FORD METER BOX COMPANY TYPE FB1101-3  $-2" \times 1"$  REDUCER 1. 1" DRAIN ROCK IS REQUIRED UNDER ALL COMPONENTS. SERVICE SADDLE & TAP SADDLE SHALL BE ROMAC 202S 2 PIPE AND VALVE SIZES SHALL CONFORM TO THE PLANS AND SPECIFICATIONS. MAINTAIN POSITIVE GRADE FROM WATER LINE TO COMBINATION AIR VALVE. DEFLECT PIPE AS REQUIRED. 1"-0" CRUSHED ROCK -BREAKAWAY FLANGE COMPACTED IN 8" LAYERS TO 95% R.O.W. -6" FLG X MJ GATE VALVE - NEW FIRE HYDRANT MUELLER SUPER CENTURION PER OWNER APPROVAL G5 VALVE BOX FINISHED GRADE --6" ABOVE FINISHED GRADE TONING WIRE, - VARIES-FIELD DETERMINE BARREL LENGTH AS SPECIFIED FOR EACH FIRE HYDRANT LOCATION 6" PIPE — 24" SQUARE POURED CONCRETE THRUST BLOCKS ---- "L" AS REQ'D -INSTALL 1" ROUND DRAIN ROCK TO 3" ABOVE THE BOTTOM OF TEE MJ x FLG. UNLESS HYDRANT VALVE. 1/2 C.Y. MIN. OTHERWISE NOTED - SOLID PRECAST BASE BLOCK — POURED CONCRETE MIN. 4"x8"x8" THRUST BLOCKS 1. RETAINER GLANDS ARE REQUIRED FOR ALL MECHANICAL JOINT FITTINGS, "MEGA LUG" OR "APPROVED EQUAL" 2. THERE SHALL BE A MINIMUM OF 18" HORIZONTAL CLEARANCE AROUND HYDRANT CONCRETE THRUST BLOCKS SHALL BE CONSTRUCTED AS PER THRUST BLOCK STANDARD DRAWING. DO NOT BLOCK DRAIN HOLES. EXTENSIONS REQUIRED FOR HYDRANT SYSTEMS SHALL BE INSTALLED TO THE MANUFACTURER'S SPECIFICATIONS. FIRE HYDRANTS SHALL BE PLACED TO PROVIDE A MINIMUM OF 5' CLEARANCE FROM DRIVEWAYS, POLES, AND OTHER OBSTRUCTIONS. HYDRANT PUMPER PORT SHALL FACE DIRECTION OF ACCESS. NEW FIRE HYDRANT SHALL BE LOCATED IN THE FIELD BY THE OWNER AND/OR THE FIRE DEPARTMENT. — SEE NOTE 2 - FINAL SAWCUT -(TYP. BOTH SIDES) STONEFIELD INVES MAP LOT 18120444( FLORENCE, OR 974 - INITIAL SAWCUT ----- EXISTING PAVEMENT, TYP. SEE NOTE TRENCH BACKFILL: TRENCH LIMITS CLASS AS SHOWN TRACING TAPE -ON THE PLANS OR SPECIFIED TONING WIRE PIPE ZONE NEW WATER MAIN 6" MIN. BEDDING BELOW OUTSIDE OF PIPE BELL DIMENSIONS IN INCHES (WATER LINE) FOUNDATION STABILIZATION,— AS REQUIRED BY ENGINEER. 2022.09.09 1. PROVIDE 4" AC PAVEMENT OR MATCH EXISTING THICKNESS OF ASPHALT. PLACE ASPHALT IN NO GREATER THAN 2" LIFTS. IF PAVING IS COMPLETED IN PUBLIC RIGHT OF WAY, CONFIRM AC PAVEMENT DEPTH WITH 21038.01 Project No: 2. ASPHALT EMULSION TACK COAT SHALL BE USED TO SEAL THE ASPHALT TO THE EDGES OF THE EXISTING ASPHALT. ALL CUT AREAS SHALL BE SEALED WITH AN ODOT APPROVED POLYMER ASPHALT SEALANT. Drawn By: 3. ALL TRENCHES WITHIN ROADWAYS SHALL BE PAVED WITH 2" AC OR COLD PATCH AND MAINTAINED AT THE END OF EACH DAY PRIOR TO ALLOWING TRAFFIC ON THE ROADWAY, AS REQUIRED BY THE ENGINEER. Checked By: COLD PATCHED AREAS SHALL BE HOT PATCHED WITHIN 10 DAYS. ALL COLD PATCH MATERIAL SHALL BE EXCAVATED PRIOR TO HOT PATCH RESTORATION. 4. THIS SECTION AND BACKFILL REQUIREMENTS WILL APPLY TO ALL EXCAVATED AREAS. 5. THE ROAD SHOULDER AND PAVEMENT EDGE SHALL BE RESTORED TO MATCH THE PREVIOUS CONDITIONS.

WATER DETAILS

Sheet title:

1. VALVE BOX NOT TO REST ON OPERATING ASSEMBLY.

2. OPERATOR EXTENSION REQUIRED WHEN VALVE NUT

IS DEEPER THAN 3 FEET FROM FINISHED GRADE.

MATCH EXISTING GROUND.

1 ROADWAY TYPICAL SECTION

6. IN AREAS OUTSIDE THE ROADWAY PROVIDE TOP SOIL (4") DEPTH WITH GRASS SEED AS SPECIFIED TO

