

# MASSDEVELOPMENT

## CONTRACT DRAWINGS FOR

# PATTON WATER TREATMENT PLANT

## DEVENS, MASSACHUSETTS

BID SET No. \_\_\_\_\_

### UNIFIED PERMIT

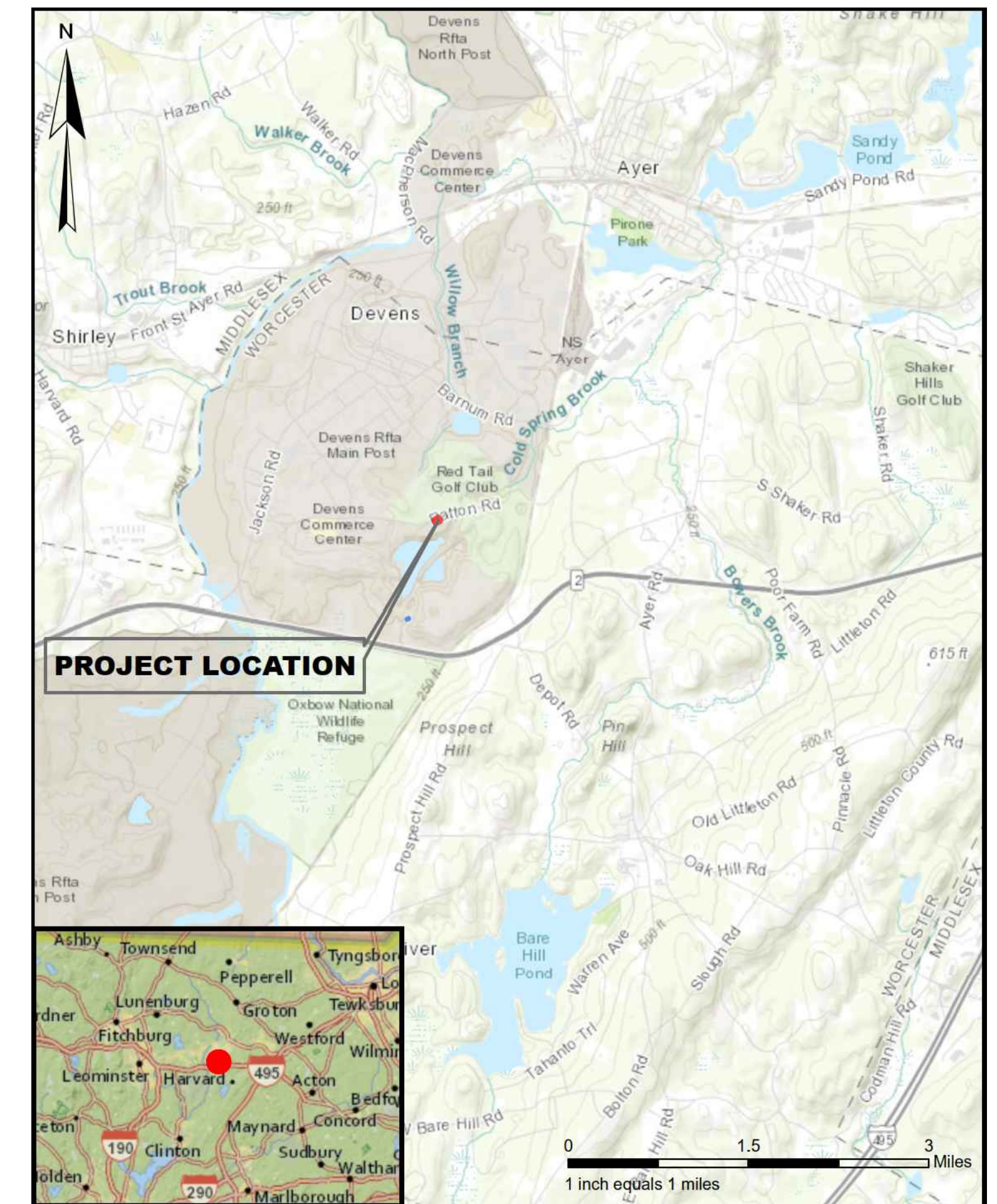
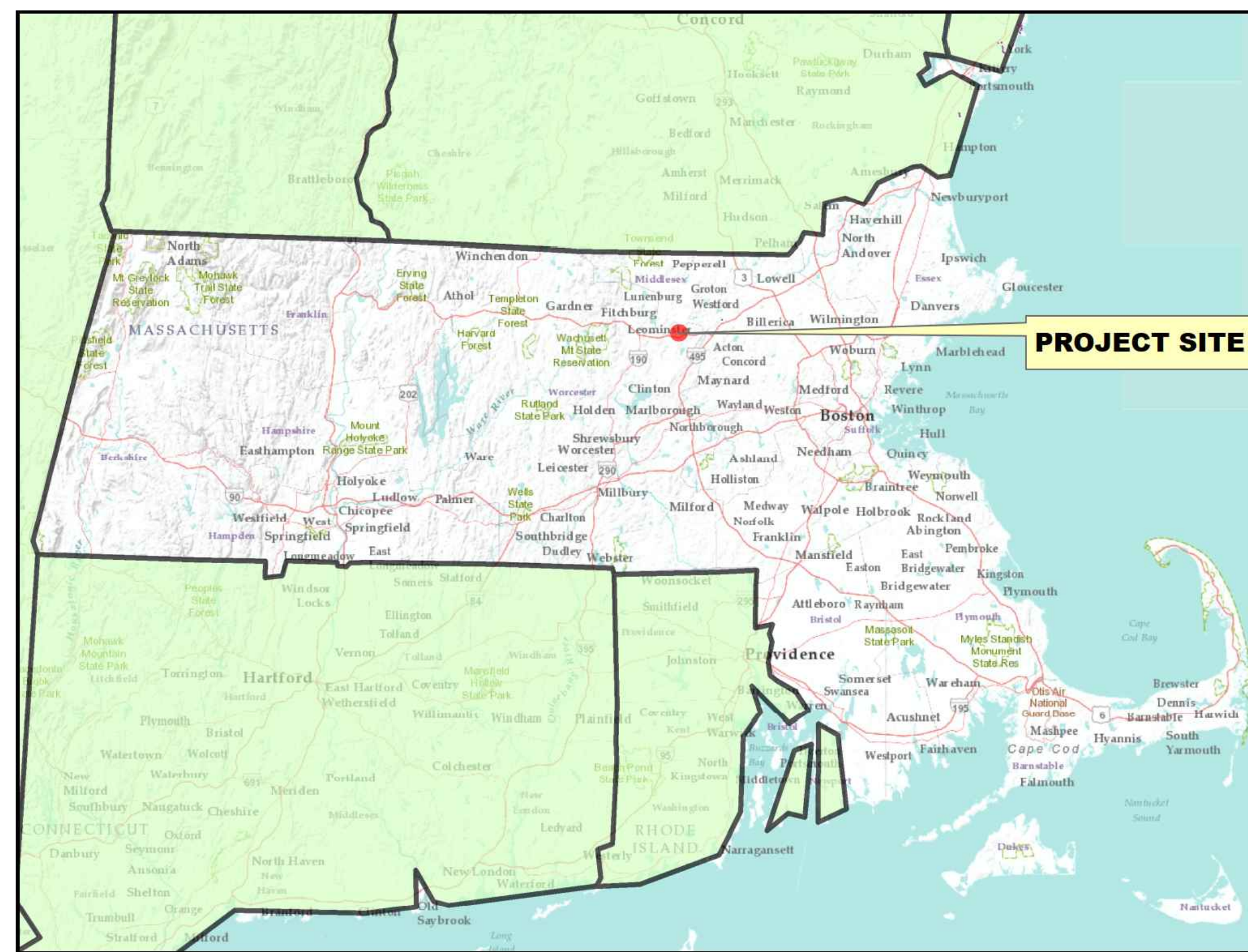
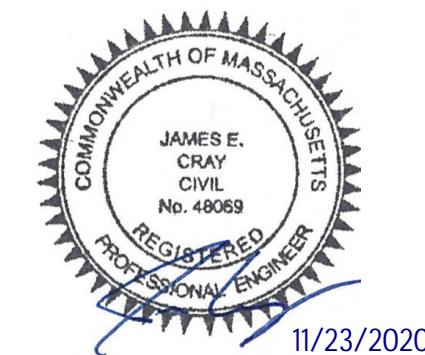
#### DRAWING INDEX

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- C-2 EXISTING CONDITIONS AND DEMOLITION
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##### ARCHITECTURAL

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APPROVED BY THE DEVENS ENTERPRISE COMMISSION: \_\_\_\_\_ DATE: \_\_\_\_\_

CHAIRMAN: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



888.621.8156 | www.wright-pierce.com

APPLICANT: MASSDEVELOPMENT  
 ADDRESS: 33 ANDREWS PARKWAY  
 DEVENS, MA, 01434

OWNER OF RECORD: MDFA/PATTON WELL  
 ADDRESS: 99 HIGH STREET, 11TH FLOOR  
 PARCEL# 010.0-0099-0200.0  
 BOSTON, MA 02110

DESIGNER OF RECORD:  
 WRIGHT-PIERCE  
 ATTN: JIM CRAY, PE  
 600 FEDERAL STREET  
 ANDOVER, MA 0180

FOR REVIEW \_\_\_\_\_  
 FOR BIDDING \_\_\_\_\_  
 WP PROJECT No. 14083H

I CERTIFY THAT THIS PLAN CONFORMS WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS.

SIGNATURE: \_\_\_\_\_



**ABUTTER MAP**

PARCEL ID 010.0-0099-0104.0  
ZONING: OPEN SPACE/RECREATION  
OWNER: MDFA / ASP BOG CONSERVATION AREA  
99 HIGH STREET  
11TH FLOOR  
BOSTON, MA 02110

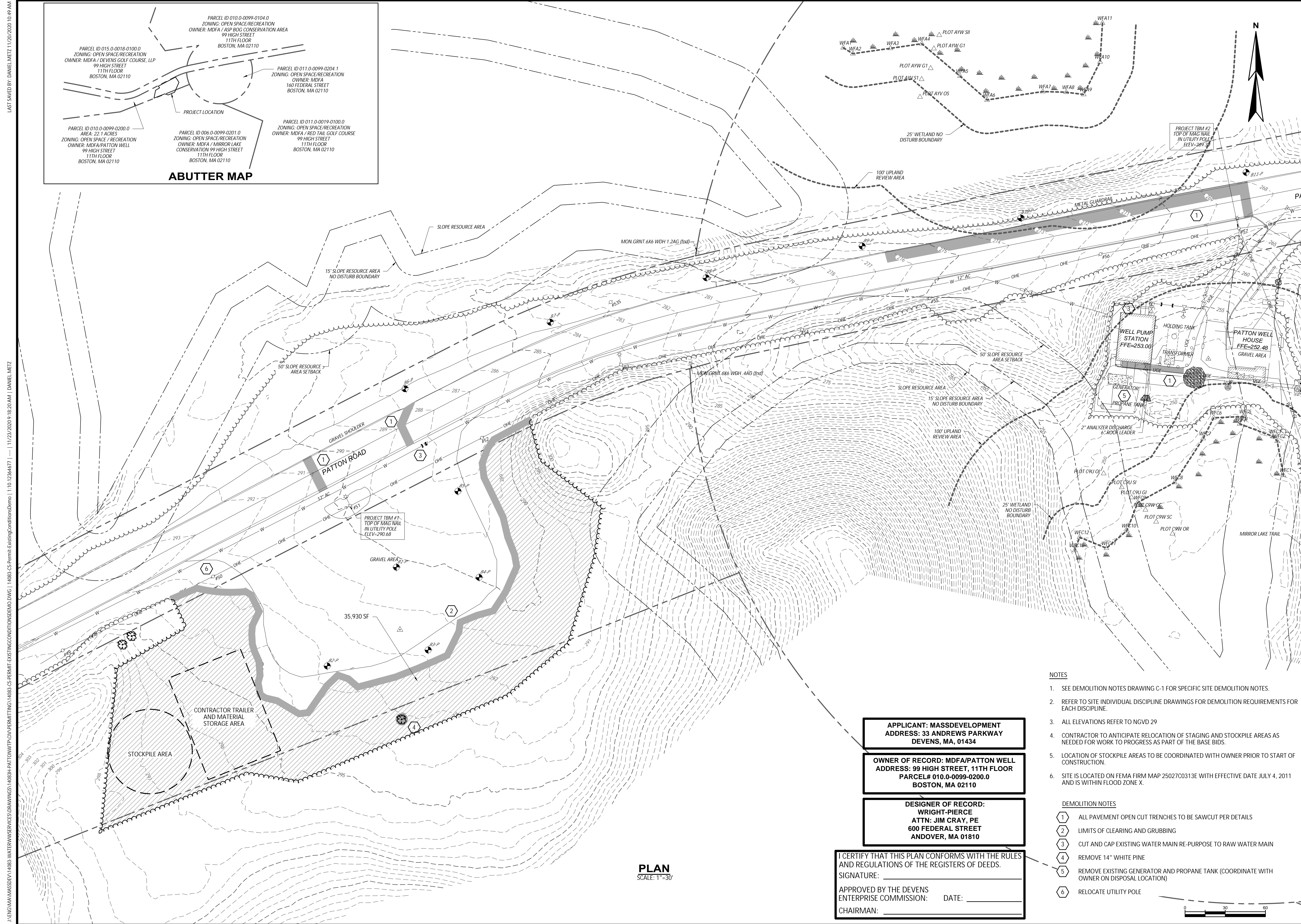
PARCEL ID 015.0-0019-0100.0  
ZONING: OPEN SPACE/RECREATION  
OWNER: MDFA / DEVENS GOLF COURSE, LLP  
99 HIGH STREET  
11TH FLOOR  
BOSTON, MA 02110

PARCEL ID 011.0-0099-0204.1  
ZONING: OPEN SPACE/RECREATION  
OWNER: MDFA  
160 FEDERAL STREET  
BOSTON, MA 02110

PARCEL ID 011.0-0019-0100.0  
ZONING: OPEN SPACE/RECREATION  
OWNER: MDFA / RED TAIL GOLF COURSE  
99 HIGH STREET  
11TH FLOOR  
BOSTON, MA 02110

PARCEL ID 010.0-0099-0200.0  
AREA: 22.1 ACRES  
ZONING: OPEN SPACE / RECREATION  
OWNER: MDFA/PATTON WELL  
99 HIGH STREET  
11TH FLOOR  
BOSTON, MA 02110

PARCEL ID 006.0-0099-0201.0  
ZONING: OPEN SPACE/RECREATION  
OWNER: MDFA / MIRROR LAKE CONSERVATION  
99 HIGH STREET  
11TH FLOOR  
BOSTON, MA 02110



**PLAN**  
SCALE: 1"=30'

**APPLICANT: MASSDEVELOPMENT**  
**ADDRESS: 33 ANDREWS PARKWAY**  
**DEVENS, MA, 01434**

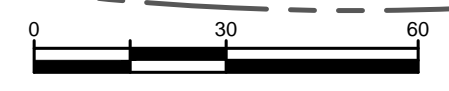
**OWNER OF RECORD: MDFA/PATTON WELL**  
**ADDRESS: 99 HIGH STREET, 11TH FLOOR**  
**PARCEL# 010.0-0099-0200.0**  
**BOSTON, MA 02110**

**DESIGNER OF RECORD:**  
**WRIGHT-PIERCE**  
**ATTN: JIM CRAY, PE**  
**600 FEDERAL STREET**  
**ANDOVER, MA 01810**

I CERTIFY THAT THIS PLAN CONFORMS WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS.  
SIGNATURE: \_\_\_\_\_  
APPROVED BY THE DEVENS ENTERPRISE COMMISSION: DATE: \_\_\_\_\_  
CHAIRMAN: \_\_\_\_\_

- NOTES**
- SEE DEMOLITION NOTES DRAWING C-1 FOR SPECIFIC SITE DEMOLITION NOTES.
  - REFER TO SITE INDIVIDUAL DISCIPLINE DRAWINGS FOR DEMOLITION REQUIREMENTS FOR EACH DISCIPLINE.
  - ALL ELEVATIONS REFER TO NGVD 29
  - CONTRACTOR TO ANTICIPATE RELOCATION OF STAGING AND STOCKPILE AREAS AS NEEDED FOR WORK TO PROGRESS AS PART OF THE BASE BIDS.
  - LOCATION OF STOCKPILE AREAS TO BE COORDINATED WITH OWNER PRIOR TO START OF CONSTRUCTION.
  - SITE IS LOCATED ON FEMA FIRM MAP 25027C0313E WITH EFFECTIVE DATE JULY 4, 2011 AND IS WITHIN FLOOD ZONE X.

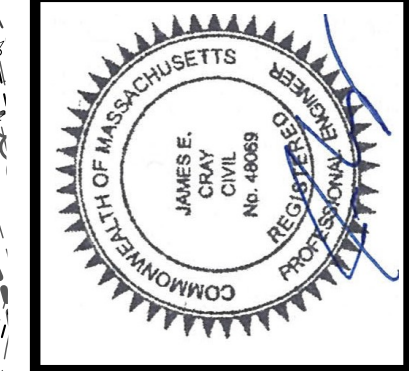
- DEMOLITION NOTES**
- ALL PAVEMENT OPEN CUT TRENCHES TO BE SAWCUT PER DETAILS
  - LIMITS OF CLEARING AND GRUBBING
  - CUT AND CAP EXISTING WATER MAIN RE-PURPOSE TO RAW WATER MAIN
  - REMOVE 14" WHITE PINE
  - REMOVE EXISTING GENERATOR AND PROPANE TANK (COORDINATE WITH OWNER ON DISPOSAL LOCATION)
  - RELOCATE UTILITY POLE



NO.	DATE	REVISIONS
1	J.CRA	10/20

UNIFIED PERMIT

DESIGNED BY: C.DAI	W.BAI
CAD CORP: C.CHIN	L.ANT
CHECKED BY: J.CRA	
APPROVED BY: J.CRA	
DATE: 11/08/21	
PROJECT NO: 14083H	



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**MASSDEVELOPMENT**  
DEVENS, MASSACHUSETTS  
PATTON WATER TREATMENT PLANT

EXISTING CONDITIONS AND DEMOLITION

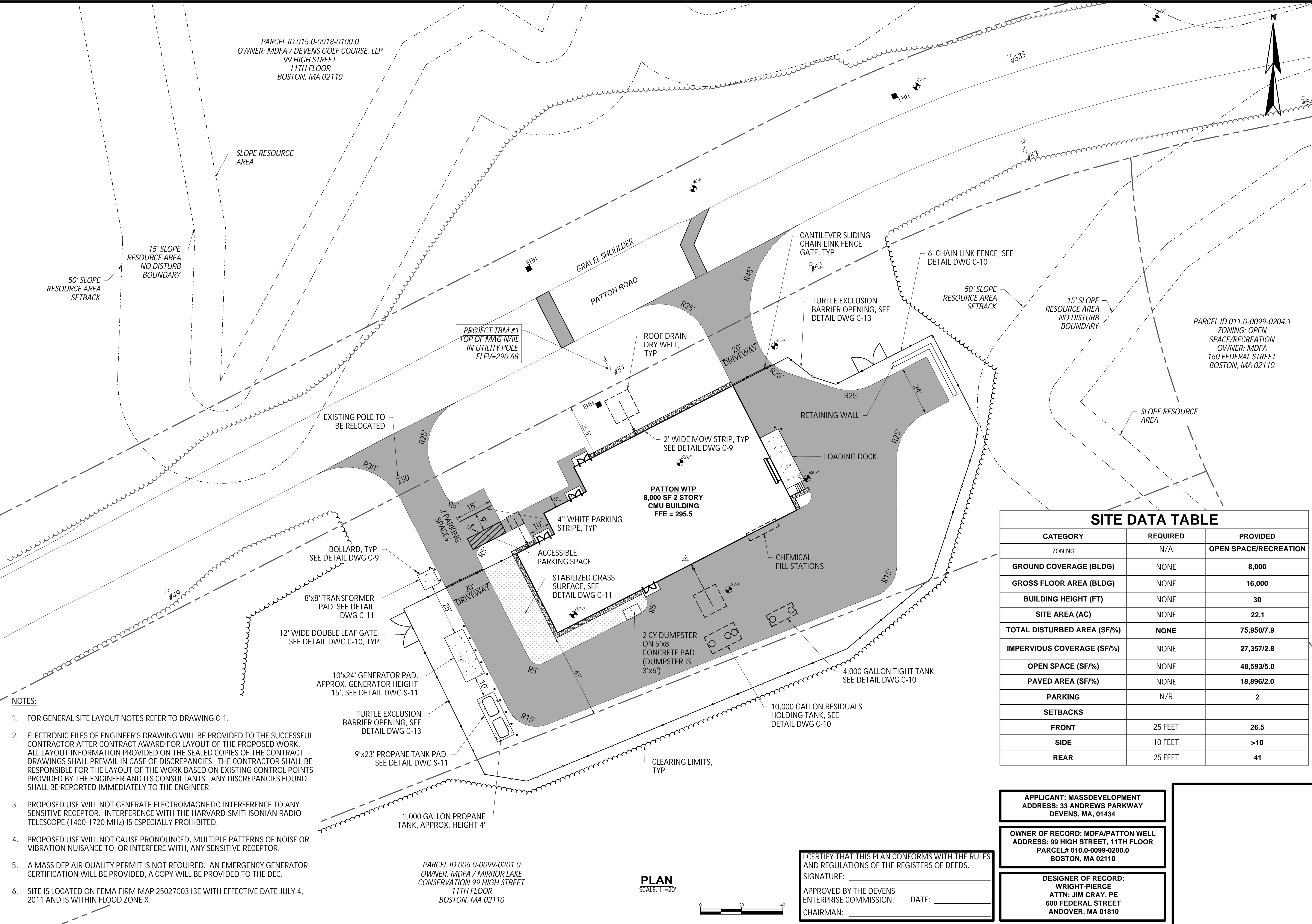
**DRAWING**  
C-2

LAST SAVED BY: DANIEL.METZ 11/20/2020 12:02 PM

J:\ENGIN\MASSDEV\14083-WATER\WORKSPACES\DRAWINGS\14083H-PATTONWTP\CON PERMITTING\14083-CS-PERMIT-SITEPLAN.DWG | 11/23/2020 9:18:32 AM | DANIEL.METZ

PARCEL ID 015.0-0018-0100.0  
OWNER: MDFA / DEVENS GOLF COURSE, LLP  
99 HIGH STREET  
11TH FLOOR  
BOSTON, MA 02110

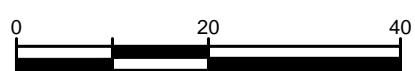
PARCEL ID 011.0-0099-0204.1  
ZONING: OPEN SPACE/RECREATION  
OWNER: MDFA  
160 FEDERAL STREET  
BOSTON, MA 02110



- NOTES:**
- FOR GENERAL SITE LAYOUT NOTES REFER TO DRAWING C-1.
  - ELECTRONIC FILES OF ENGINEER'S DRAWING WILL BE PROVIDED TO THE SUCCESSFUL CONTRACTOR AFTER CONTRACT AWARD FOR LAYOUT OF THE PROPOSED WORK. ALL LAYOUT INFORMATION PROVIDED ON THE SEALED COPIES OF THE CONTRACT DRAWINGS SHALL PREVAIL IN CASE OF DISCREPANCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT OF THE WORK BASED ON EXISTING CONTROL POINTS PROVIDED BY THE ENGINEER AND ITS CONSULTANTS. ANY DISCREPANCIES FOUND SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
  - PROPOSED USE WILL NOT GENERATE ELECTROMAGNETIC INTERFERENCE TO ANY SENSITIVE RECEPTOR. INTERFERENCE WITH THE HARVARD-SMITHSONIAN RADIO TELESCOPE (1400-1720 MHz) IS ESPECIALLY PROHIBITED.
  - PROPOSED USE WILL NOT CAUSE PRONOUNCED, MULTIPLE PATTERNS OF NOISE OR VIBRATION NUISANCE TO, OR INTERFERE WITH, ANY SENSITIVE RECEPTOR.
  - A MASS DEP AIR QUALITY PERMIT IS NOT REQUIRED. AN EMERGENCY GENERATOR CERTIFICATION WILL BE PROVIDED, A COPY WILL BE PROVIDED TO THE DEC.
  - SITE IS LOCATED ON FEMA FIRM MAP 25027C0313E WITH EFFECTIVE DATE JULY 4, 2011 AND IS WITHIN FLOOD ZONE X.

PARCEL ID 006.0-0099-0201.0  
OWNER: MDFA / MIRROR LAKE CONSERVATION  
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BOSTON, MA 02110

**PLAN**  
SCALE: 1"=20'



I CERTIFY THAT THIS PLAN CONFORMS WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS.  
SIGNATURE: \_\_\_\_\_  
APPROVED BY THE DEVENS ENTERPRISE COMMISSION: \_\_\_\_\_ DATE: \_\_\_\_\_  
CHAIRMAN: \_\_\_\_\_

SITE DATA TABLE		
CATEGORY	REQUIRED	PROVIDED
ZONING	N/A	OPEN SPACE/RECREATION
GROUND COVERAGE (BLDG)	NONE	8,000
GROSS FLOOR AREA (BLDG)	NONE	16,000
BUILDING HEIGHT (FT)	NONE	30
SITE AREA (AC)	NONE	22.1
TOTAL DISTURBED AREA (SF%)	NONE	75,950/7.9
IMPERVIOUS COVERAGE (SF%)	NONE	27,357/2.8
OPEN SPACE (SF%)	NONE	48,593/5.0
PAVED AREA (SF%)	NONE	18,896/2.0
PARKING	N/R	2
SETBACKS		
FRONT	25 FEET	26.5
SIDE	10 FEET	>10
REAR	25 FEET	41

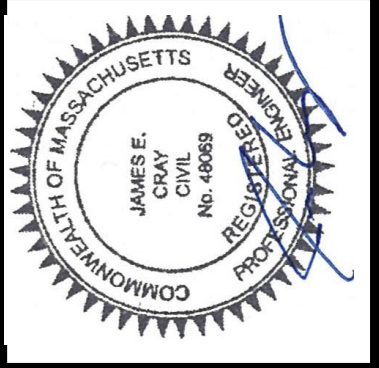
**APPLICANT: MASSDEVELOPMENT**  
ADDRESS: 33 ANDREWS PARKWAY  
DEVENS, MA, 01434

**OWNER OF RECORD: MDFA/PATTON WELL**  
ADDRESS: 99 HIGH STREET, 11TH FLOOR  
PARCEL# 010.0-0099-0200.0  
BOSTON, MA 02110

**DESIGNER OF RECORD:**  
WRIGHT-PIERCE  
ATTN: JIM CRAY, PE  
600 FEDERAL STREET  
ANDOVER, MA 01810

NO	DATE	DESCRIPTION

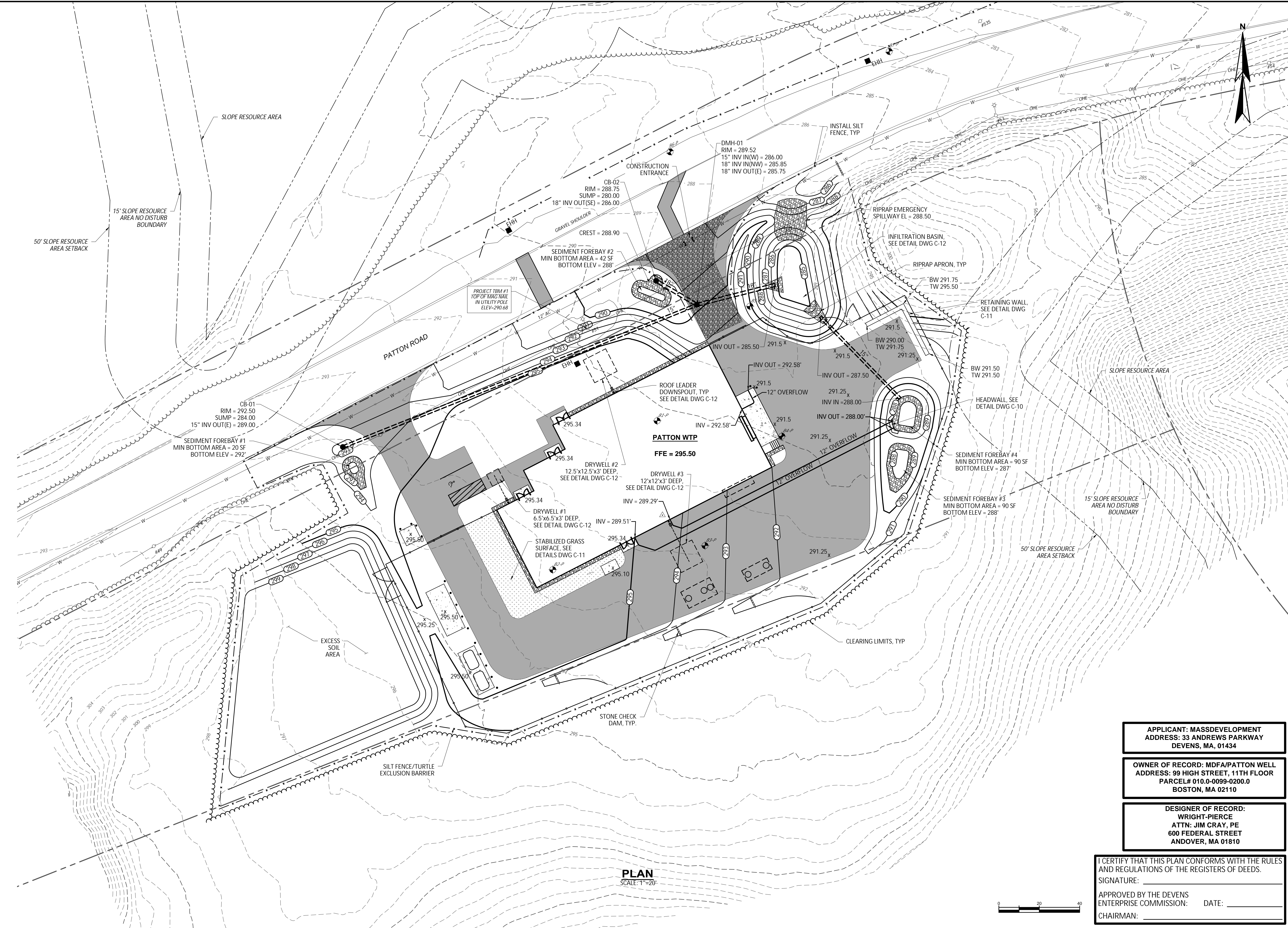
DESIGNED BY: C.DAI  
CAD COORD: W.BAI  
CHECKED BY: L.ANT  
DATE: \_\_\_\_\_  
APPROVED BY: J.CRA  
DATE: \_\_\_\_\_  
PROJECT NO.: 14083H



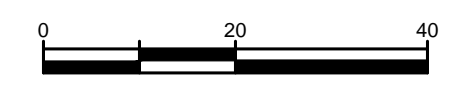
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MASSDEVELOPMENT  
DEVENS, MASSACHUSETTS  
PATTON WATER TREATMENT PLANT

DRAWING  
C-3



**PLAN**  
SCALE: 1"=20'



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600 FEDERAL STREET  
ANDOVER, MA 01810

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CHAIRMAN: \_\_\_\_\_

NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMIT	10/20
2	REVISIONS	
3		
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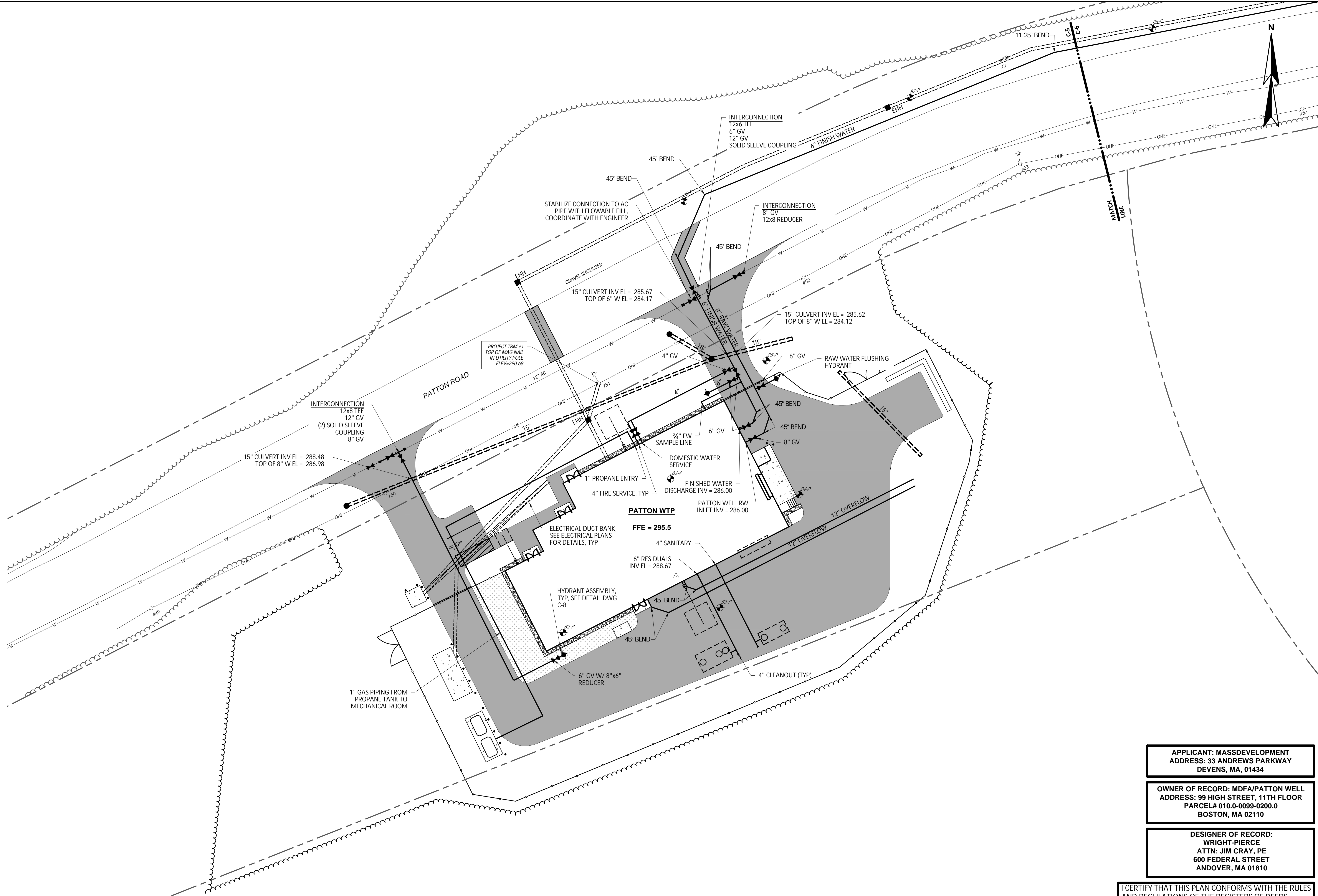
DESIGNED BY: C.DAI  
 CAD CORP.: W.BAI  
 C.D.: C.HIN  
 CHECKED BY: L.ANT  
 DATE: J.CRA  
 APPROVED BY: J.CRA  
 DATE: 11/08/20  
 PROJECT NO.: 14083H

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MASSDEVELOPMENT  
DEVENS, MASSACHUSETTS  
PATTON WATER TREATMENT PLANT

SITE GRADING PLAN

**DRAWING**  
C-4



PLAN  
SCALE: 1"=20'



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PARCEL# 010.0-0099-0200.0  
BOSTON, MA 02110

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WRIGHT-PIERCE  
ATTN: JIM CRAY, PE  
600 FEDERAL STREET  
ANDOVER, MA 01810

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CHAIRMAN: \_\_\_\_\_

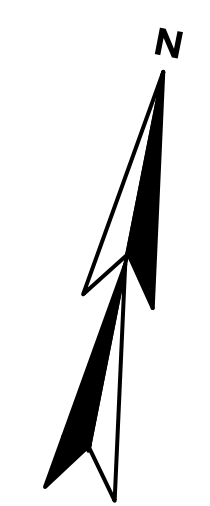
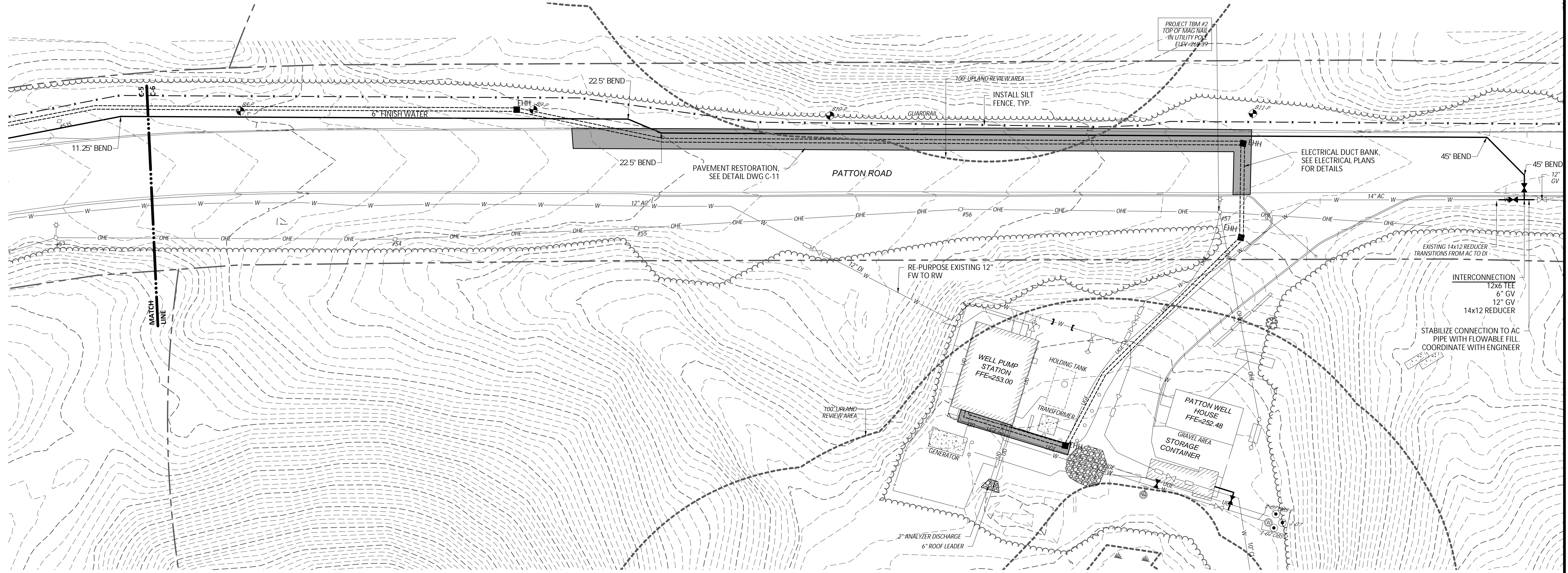
APPD DATE	J.CRA 10/20
NO	UNIFIED PERMIT
DESIGNED BY:	C.DAI
CAD CORP:	W.BAI
CHKD BY:	C.HIN
DATE:	L.ANT
APPROVED BY:	J.CRA
DATE:	11/08/20
PROJECT NO.:	14083H

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MASSDEVELOPMENT  
DEVENS, MASSACHUSETTS  
PATTON WATER TREATMENT PLANT

SITE PIPING PLAN

**DRAWING**  
C-5



**PLAN**  
SCALE: 1"=20'



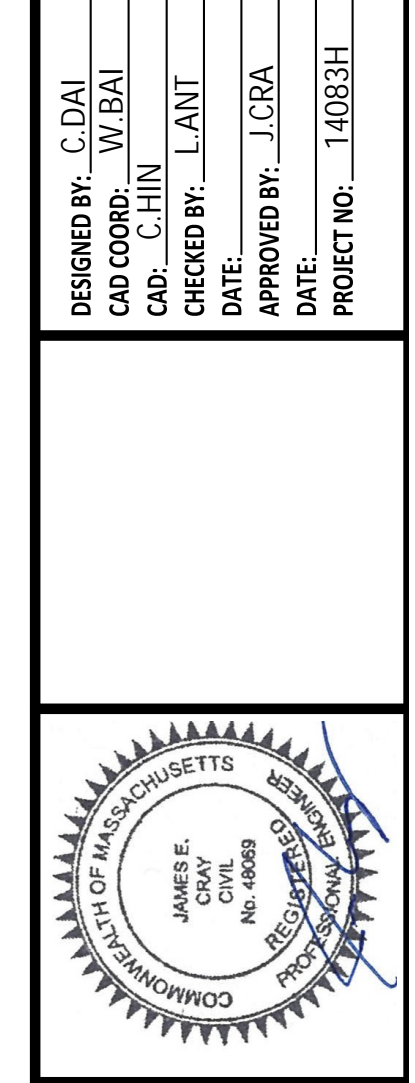
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DEVENS, MA, 01434

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ADDRESS: 99 HIGH STREET, 11TH FLOOR  
PARCEL# 010.0-0099-0200.0  
BOSTON, MA 02110

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CHAIRMAN: \_\_\_\_\_

NO	UNIFIED PERMIT	DESIGNED BY: C.DAI	APPD DATE: J.CRA 10/20
		W.BAI	
		C.HIN	
		CHECKED BY: L.ANT	
		DATE: J.CRA	
		APPROVED BY: J.CRA	
		DATE: 11/08/21	
		PROJECT NO: 14083H	



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MASSDEVELOPMENT  
DEVENS, MASSACHUSETTS  
PATTON WATER TREATMENT PLANT

WATER MAIN PLAN

**DRAWING**  
C-6

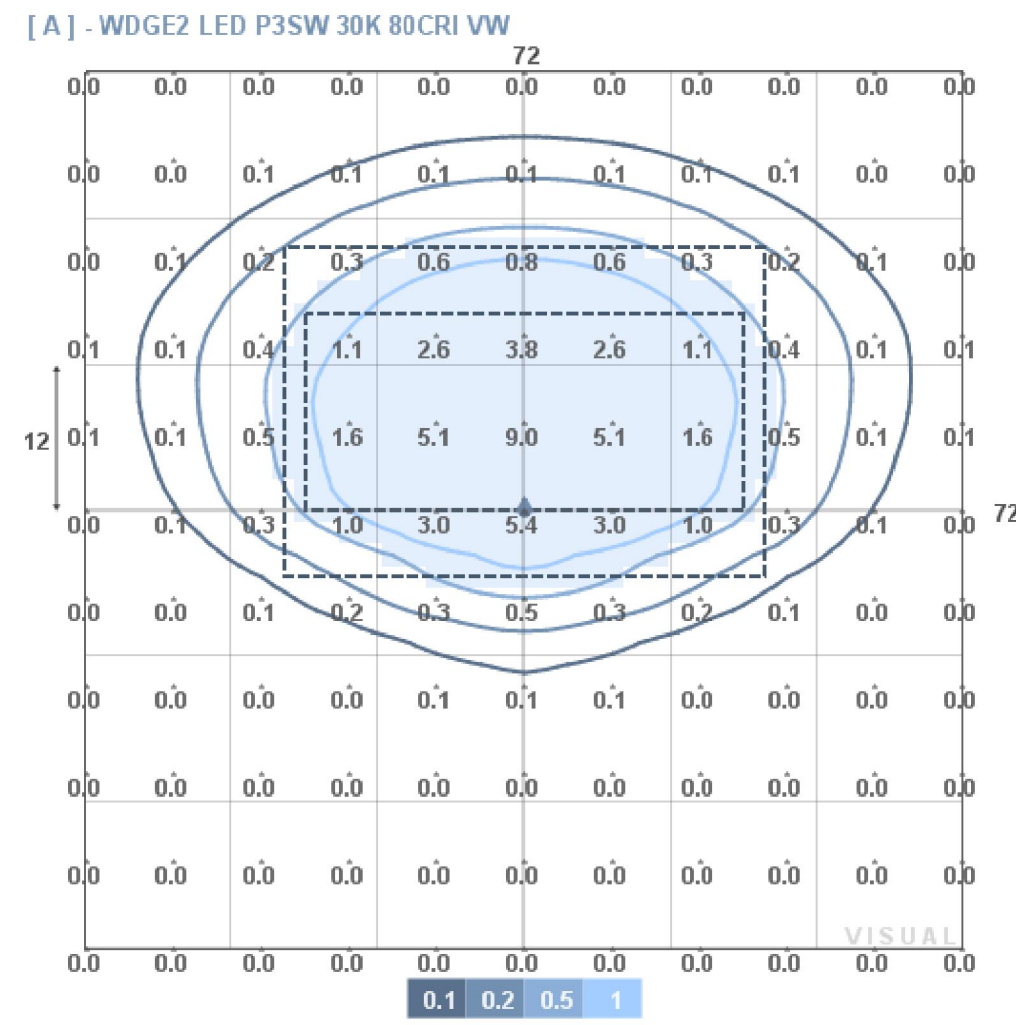
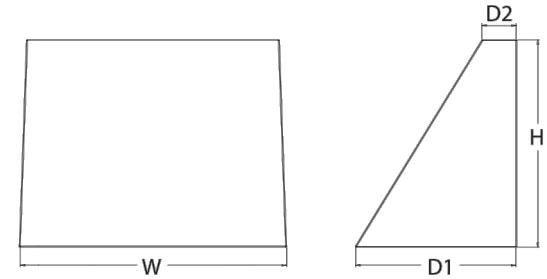


**WDG2 LED**  
Architectural Wall Sconce



**Specifications**

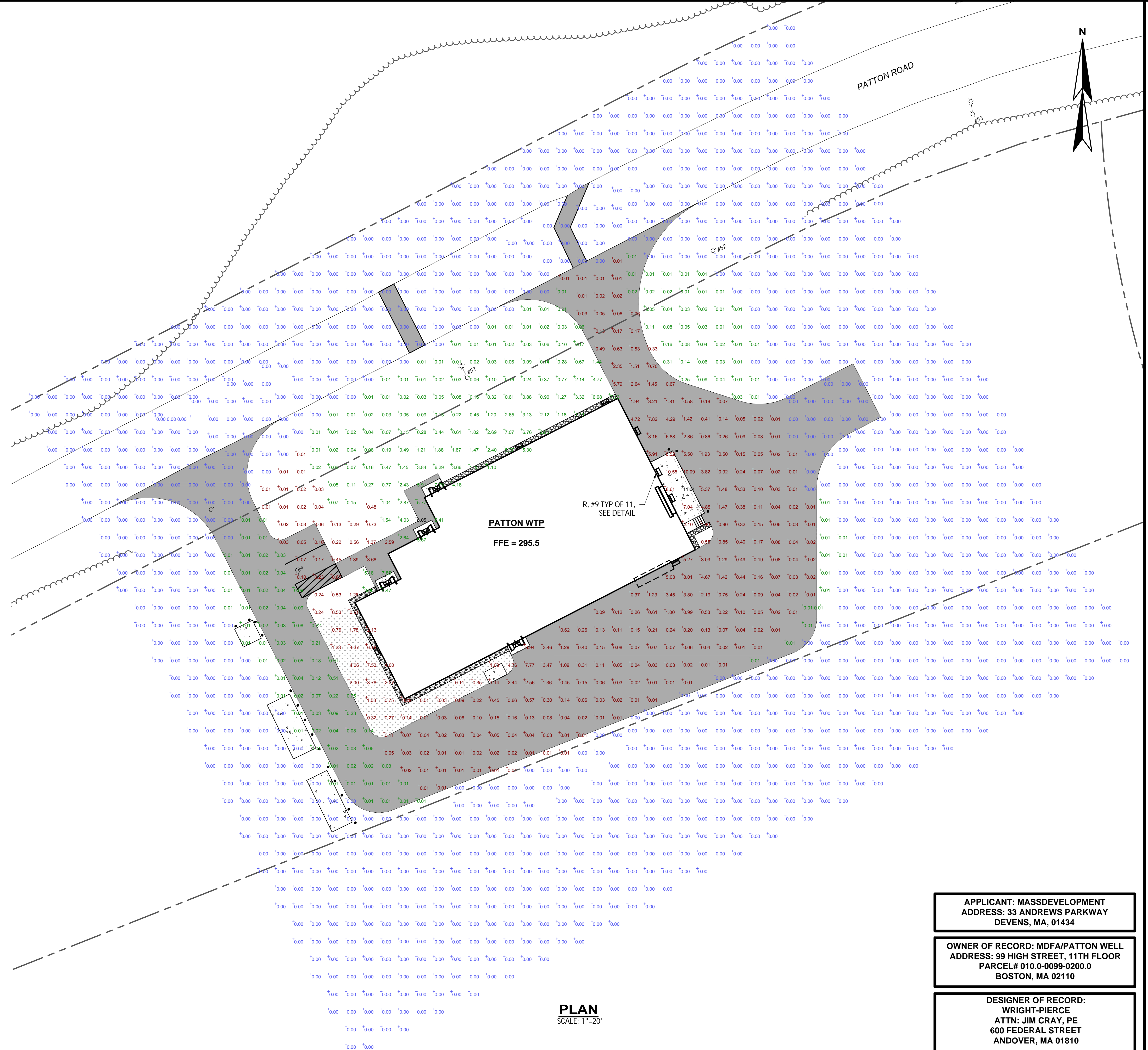
- Depth (D1): 7"
- Depth (D2): 1.5"
- Height: 9"
- Width: 11.5"
- Weight: 13.5 lbs (without options)



- NOTES:**
- REFLECTANCES ASSUMED: SURFACE:50
  - MOUNTING HEIGHTS: 12'-0" AFG
  - TASK HEIGHT: AT SURFACE
  - CALCULATION POINT SPACING 7' x 7' OC

DESCRIPTION	SYMBOL	AVG.	MAX	MIN.	MAX / MIN	AVG / MIN
OUTER PERIMETER	+	0.13 FC	8.05 FC	0.00 FC	N/A	N/A
PARKING LOT	+	0.79 FC	11.01 FC	0.00 FC	N/A	N/A

SYMBOL	LABEL	QUANTITY	MANUFACTURER	CATALOG NUMBER	DESCRIPTOIN	LAMP	# OF LAMPS	LUMENS PER LAMP	LLF	WATTAGE
OUTER PERIMETER	R	11	LITHONIA LIGHTING	WDG2 LED P3SW 30K 80CRI VW	WDG2 LED WITH P3SW - PERFORMANCE PACKAGE, 3000K, 80CRI, VISUAL COMFORT WIDE OPTIC	LED	1	3015	0.9	22.99



**PLAN**  
SCALE: 1"=20'



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CHAIRMAN: \_\_\_\_\_

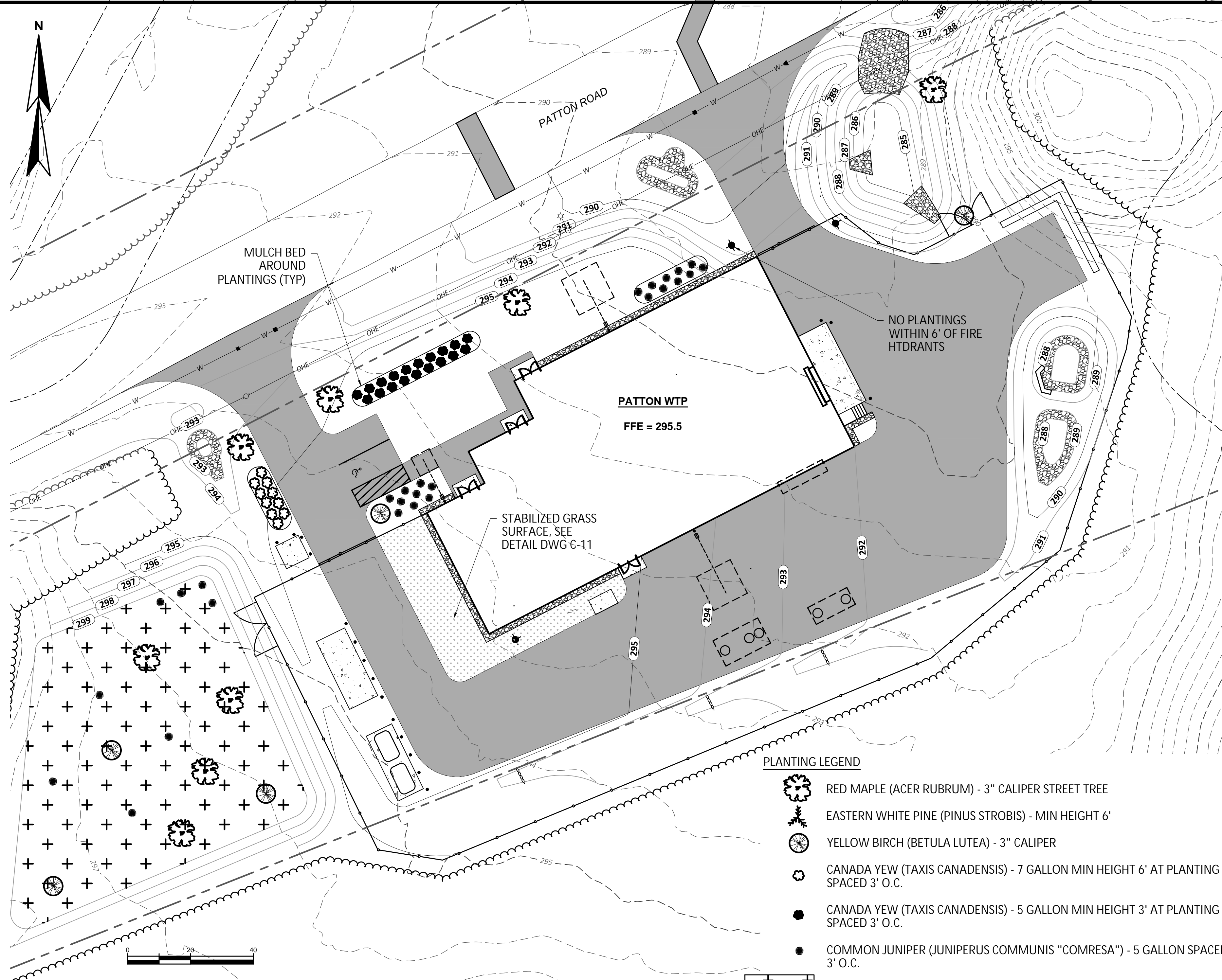
NO.	SUBMISSIONS/REVISIONS	APP'D	DATE
1	UNIFIED PERMIT	J.CRA	10/20
DESIGNED BY:	C.DAI	W.BAI	J.CRA
CAD CORP:	C.CHIN	L.LANT	J.CRA
CHECKED BY:	J.CRA	J.CRA	J.CRA
DATE:	11/20/20	11/20/20	11/20/20
APPROVED BY:	J.CRA	J.CRA	J.CRA
DATE:	11/20/20	11/20/20	11/20/20
PROJECT NO.:	14083H	14083H	14083H

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PATTON WATER TREATMENT PLANT

**DRAWING**  
C-7

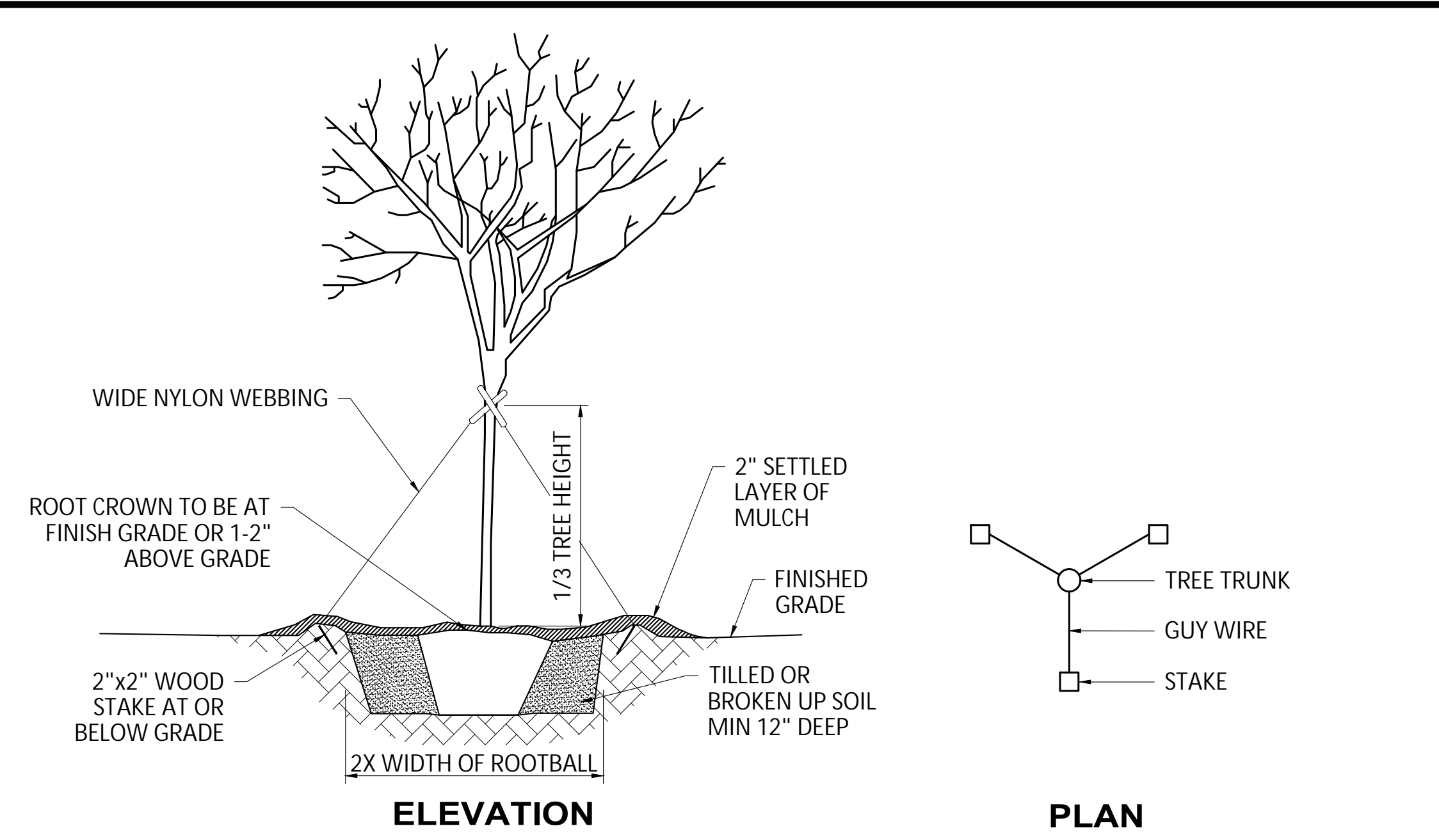




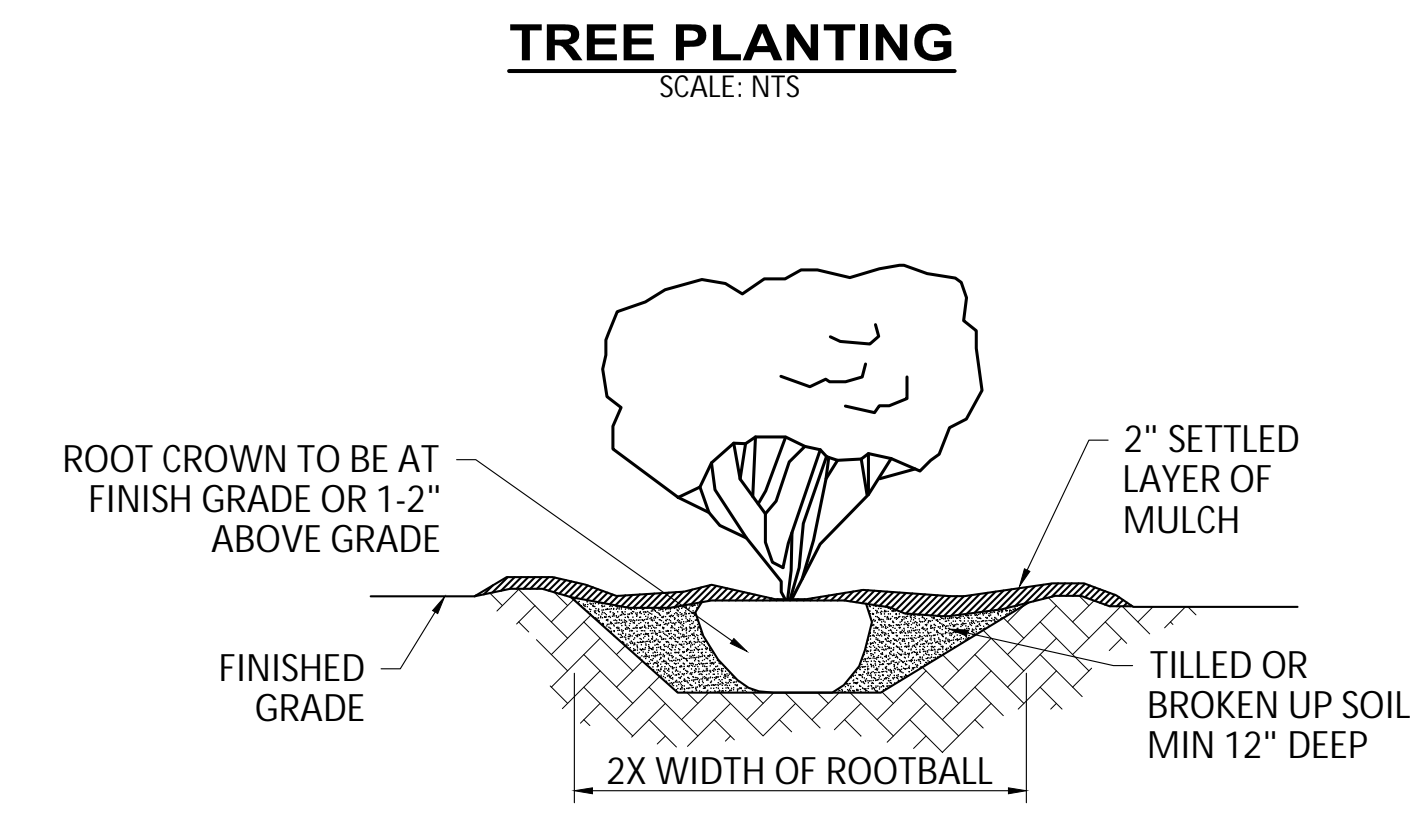
- PLANTING LEGEND**
- RED MAPLE (ACER RUBRUM) - 3" CALIPER STREET TREE
  - EASTERN WHITE PINE (PINUS STROBIS) - MIN HEIGHT 6'
  - YELLOW BIRCH (BETULA LUTEA) - 3" CALIPER
  - CANADA YEW (TAXIS CANADENSIS) - 7 GALLON MIN HEIGHT 6' AT PLANTING SPACED 3' O.C.
  - CANADA YEW (TAXIS CANADENSIS) - 5 GALLON MIN HEIGHT 3' AT PLANTING SPACED 3' O.C.
  - COMMON JUNIPER (JUNIPERUS COMMUNIS "COMRESA") - 5 GALLON SPACED 3' O.C.
  - WILDFLOWER MIX

**PLAN**  
SCALE: 1"=20'

- NOTES**
- THE LANDSCAPE CONTRACTOR IS ADVISED TO CALL DIG-SAFE (1-888-344-7233 OR 811) PRIOR TO BEGINNING WORK. THE LANDSCAPE CONTRACTOR IS ADVISED OF THE PRESENCE OF UNDERGROUND UTILITIES AND SHALL VERIFY THE EXISTENCE AND LOCATION OF SAME BEFORE COMMENCING AND DIGGING OPERATIONS. THE LANDSCAPE CONTRACTOR SHALL REPLACE OR REPAIR UTILITIES, PAVING, WALKS, CURBING, ETC. DAMAGED IN PERFORMANCE OF THIS JOB AT NO ADDITIONAL COST TO OWNER.
  - CONTRACTOR SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL SITE CONDITIONS PRIOR TO BIDDING.
  - DO NOT SCALE FROM DRAWINGS. ANY OMISSIONS IN DIMENSIONING SHALL BE REPORTED IMMEDIATELY TO THE OWNER AND ENGINEER. ANY DISCREPANCIES BETWEEN DRAWINGS, PLANT QUANTITIES, DETAILS, NOTES AND SPECIFICATIONS SHALL BE IMMEDIATELY REPORTED TO THE OWNER AND ENGINEER FOR FURTHER DIRECTION AND RESOLUTION BEFORE ANY ADDITIONAL WORK PROCEEDS.
  - PROVIDE SMOOTH TRANSITION WHERE NEW WORK MEETS EXISTING CONDITIONS.
  - ALL DISTURBED AREAS TO RECEIVE 4" LOAM, LIME, SEED, AND MULCH.
  - CONTRACTOR SHALL FURNISH AND PLACE 12 INCHES OF LOAM IN ALL SHRUB BEDS, 30 INCHES IN ALL TREE PITS, AND 6 INCHES UNDER ALL TURF AREAS. THE LANDSCAPE CONTRACTOR SHALL COORDINATE SUBGRADE PREPARATION WITH THE GENERAL CONTRACTOR PRIOR TO PLACING LOAM.
  - ALL PLANT MATERIAL INSTALLED SHALL MEET THE SPECIFICATIONS OF "AMERICAN STANDARDS FOR NURSERY STOCK BY THE AMERICAN ASSOCIATION OF NURSERYMEN".
  - ALL PLANT MATERIAL SHALL BE FREE FROM INSECTS AND DISEASE.
  - ALL PLANTING SHALL BE DONE IN ACCORDANCE WITH ACCEPTABLE HORTICULTURAL PRACTICES. THIS IS TO INCLUDE ALL PLANTING, PROPER PLANTING MIX, PLANT BED AND TREE PIT PREPARATION, PRUNING STAKING OR GUYING WRAPPING, SPRAYING, FERTILIZATION, PLANTING AND ADEQUATE MAINTENANCE UNTIL ACCEPTANCE FROM THE OWNER.
  - ALL GRASS, OTHER VEGETATION AND DEBRIS SHALL BE REMOVED FROM ALL PLANTING AREAS PRIOR TO PLANTING.
  - EXISTING TREES TO BE PRESERVED SHALL BE PROTECTED DURING CONSTRUCTION AND SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
  - ANY DEVIATION FROM THE LANDSCAPE PLAN, INCLUDING PLANT LOCATION, SELECTION, SIZE, QUANTITY, OR CONDITION SHALL BE REVIEWED AND APPROVED BY THE OWNER AND ENGINEER PRIOR TO INSTALLATION ON SITE.
  - DAMAGE TO EXISTING SITE IMPROVEMENTS DURING INSTALLATION OF LANDSCAPE MATERIAL SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.
  - MAINTENANCE REQUIREMENTS: PRUNE DEAD OR DAMAGED BRANCHES, MAINTAIN GUY POSTS AND WATER AS REQUIRED UNTIL PROJECT COMPLETION AND ACCEPTANCE BY OWNER.
  - WATERING: ALL PLANTINGS SHALL BE THOROUGHLY WATERED UPON INSTALLATION, AND THEN WEEKLY WHENEVER ANY DRY SPELLS OCCUR, UNTIL ACCEPTANCE BY OWNER.
  - LANDSCAPE CONTRACTOR OR PLANT SUPPLIER SHALL GUARANTEE PLANTS AND PROVIDE REPLACEMENTS FOR TWO YEARS FROM INSTALLATION.



- NOTES:**
- ALL PLANT MATERIALS SHALL BE IN ACCORDANCE WITH THE AMERICAN STANDARDS FOR NURSERY STOCK (ANSI 260.1-2004). PLANT ACCORDING TO ANSI A300 PART 6.
  - DIG THE PLANTING HOLE A MINIMUM OF 2X WIDTH OF ROOTBALL FOR AT LEAST THE FIRST 12 INCHES OF DEPTH. BELOW 12 INCHES, DIG HOLE WIDE ENOUGH TO PERMIT ADJUSTING. DO NOT DIG THE HOLE DEEPER THAN ROOT BALL DEPTH.
  - SCARIFY THE SUBGRADE AND SIDES OF THE PLANTING HOLE WHEN PLANTING IN CLAY SOILS (MORE THAN 15% CLAY).
  - LIFT AND SET THE TREE BY ROOT BALL ONLY. DO NOT LIFT USING THE TREE TRUNK AND DO NOT USE TREE TRUNK AS A LEVER.
  - SET THE TOP OF THE ROOT BALL LEVEL WITH THE SOIL SURFACE OR SLIGHTLY HIGHER IF THE SOIL IS PRONE TO SETTLING.
  - AFTER THE TREE IS SET IN PLACE, REMOVE BURLAP WIRE AND STRAPS FROM AT LEAST THE UPPER 1/3 OF THE ROOTBALL.
  - BACKFILL WITH 3 PARTS LOAM TO 1 PART PEAT, FREE OF UNDESIRABLE MATERIALS. WATER TO REMOVE AIR POCKETS.
  - USE THREE 2" X 2" WOOD STAKES DRIVEN INTO UNDISTURBED SOIL A MINIMUM OF 16 INCHES. SPACE STAKES EQUALLY AROUND THE TREE.
  - ATTACH 3/4" NYLON WEBBING TO CONNECT THE TREE TO STAKES. ATTACH WEBBING AT 1/3 THE TREE HEIGHT.
  - APPLY A 2-3" (SETTLED) DEPTH OF PINE STRAW OR BARK MULCH TO THE PLANTING SURFACE. LEAVE A 2" SPACE AROUND THE TRUNK FOR AIR CIRCULATION.
  - PRUNING SHALL BE LIMITED TO DEAD, DISEASED, OR BROKEN LIMBS ONLY AND SHALL BE IN ACCORDANCE WITH ANSI A300 SPECIFICATIONS.
  - REMOVE ANY TRUNK WRAP REMAINING AT TIME OF PLANTING. NO WRAPS SHALL BE PLACED ON TRUNK.



- NOTES:**
- DIG PLANTING HOLE AT LEAST 2X THE WIDTH OF THE ROOT BALL OR CONTAINER.
  - SCARIFY SUBGRADE AND SIDES OF PLANTING HOLE WHEN PLANTING IN CLAY SOIL.
  - SET THE TOP OF THE ROOT BALL LEVEL WITH THE SOIL SURFACE, OR 1-2" ABOVE IF THE SOIL IS PRONE TO SETTLING.
  - IF CONTAINER GROWN PLANT, GENTLY SLIDE PLANT OUT OF CONTAINER. DISTURB THE ROOTS.
  - IF B&B PLANT, REMOVE BURLAP FROM AT LEAST THE TOP 12 INCHES OF THE ROOTBALL, WITHOUT DISTURBING THE ROOTBALL. REMOVE ALL CORD FROM THE TRUNK. REMOVE BURLAP AND WIRE BASKET (IF PRESENT) FROM THE ROOT BALL.
  - BACKFILL WITH 3 PARTS LOAM TO 1 PART PEAT, FREE OF UNDESIRABLE MATERIALS. WATER TO REMOVE AIR POCKETS.
  - PLACE PINE STRAW OR BARK MULCH ON THE SURFACE TO A (SETTLED) DEPTH OF 1 TO 3 INCHES.

**SHRUB PLANTING**  
SCALE: NTS

I CERTIFY THAT THIS PLAN CONFORMS WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS.  
SIGNATURE: \_\_\_\_\_  
APPROVED BY THE DEVENS ENTERPRISE COMMISSION: \_\_\_\_\_ DATE: \_\_\_\_\_  
CHAIRMAN: \_\_\_\_\_

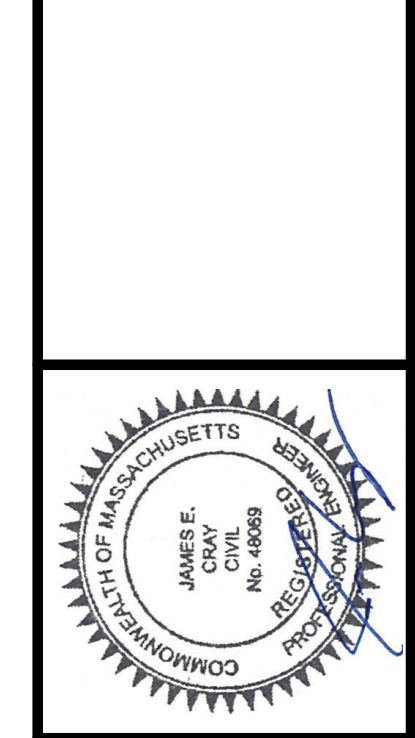
APPLICANT: MASSDEVELOPMENT  
ADDRESS: 33 ANDREWS PARKWAY  
DEVENS, MA, 01434

OWNER OF RECORD: MDFA/PATTON WELL  
ADDRESS: 99 HIGH STREET, 11TH FLOOR  
PARCEL# 010.0-0099-0200.0  
BOSTON, MA 02110

DESIGNER OF RECORD:  
WRIGHT-PIERCE  
ATTN: JIM CRAY, PE  
600 FEDERAL STREET  
ANDOVER, MA 01810

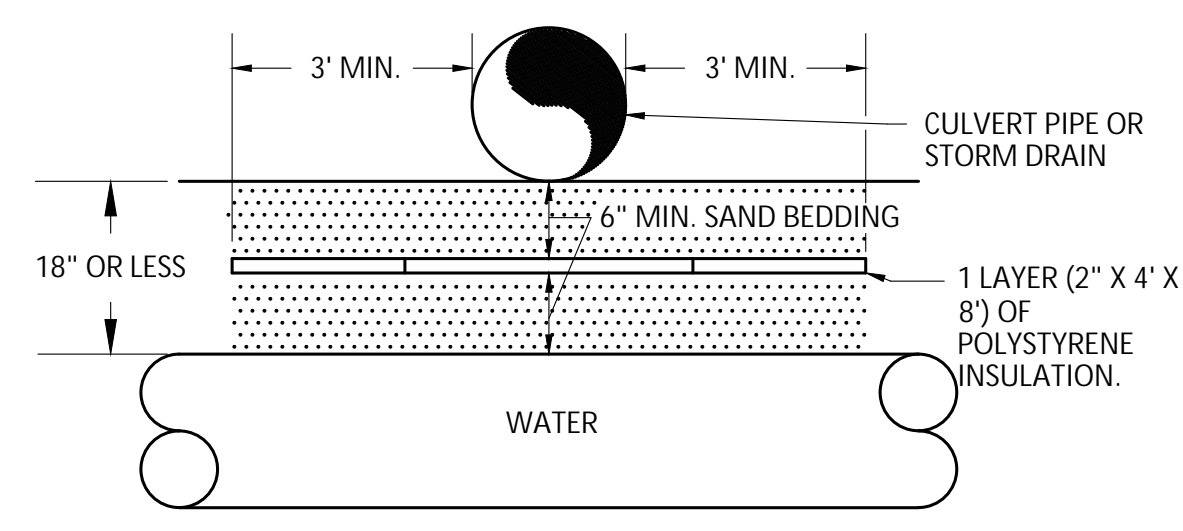
NO.	UNIFIED PERMIT	DATE
		JLCRA 10/20

DESIGNED BY: DAL	APPROVED BY: L.CRA
CAD CHECKED BY: ALBAL	DATE:
CHECKED BY: LANT	DATE:
PROJECT NO.: 14083H	



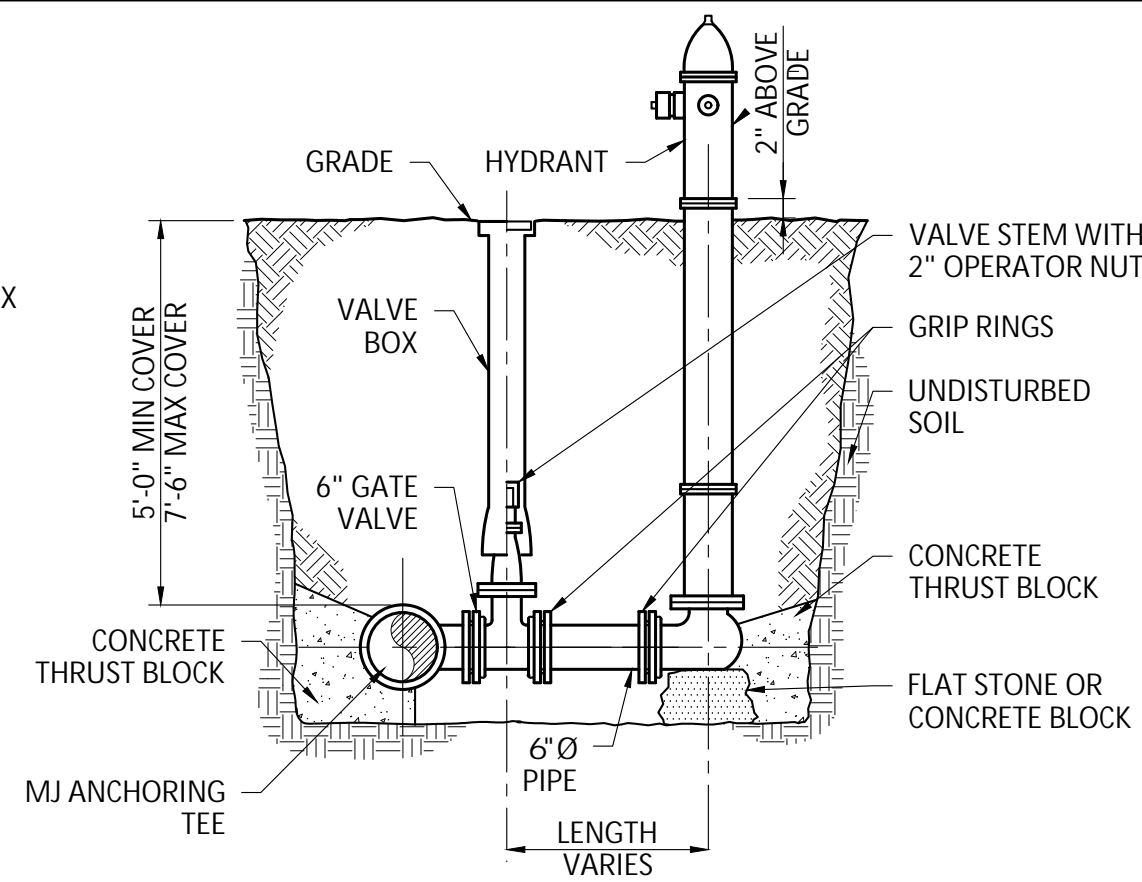
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MASSDEVELOPMENT  
DEVENS, MASSACHUSETTS  
PATTON WATER TREATMENT PLANT  
LANDSCAPE PLAN AND DETAILS  
**DRAWING**  
C-8

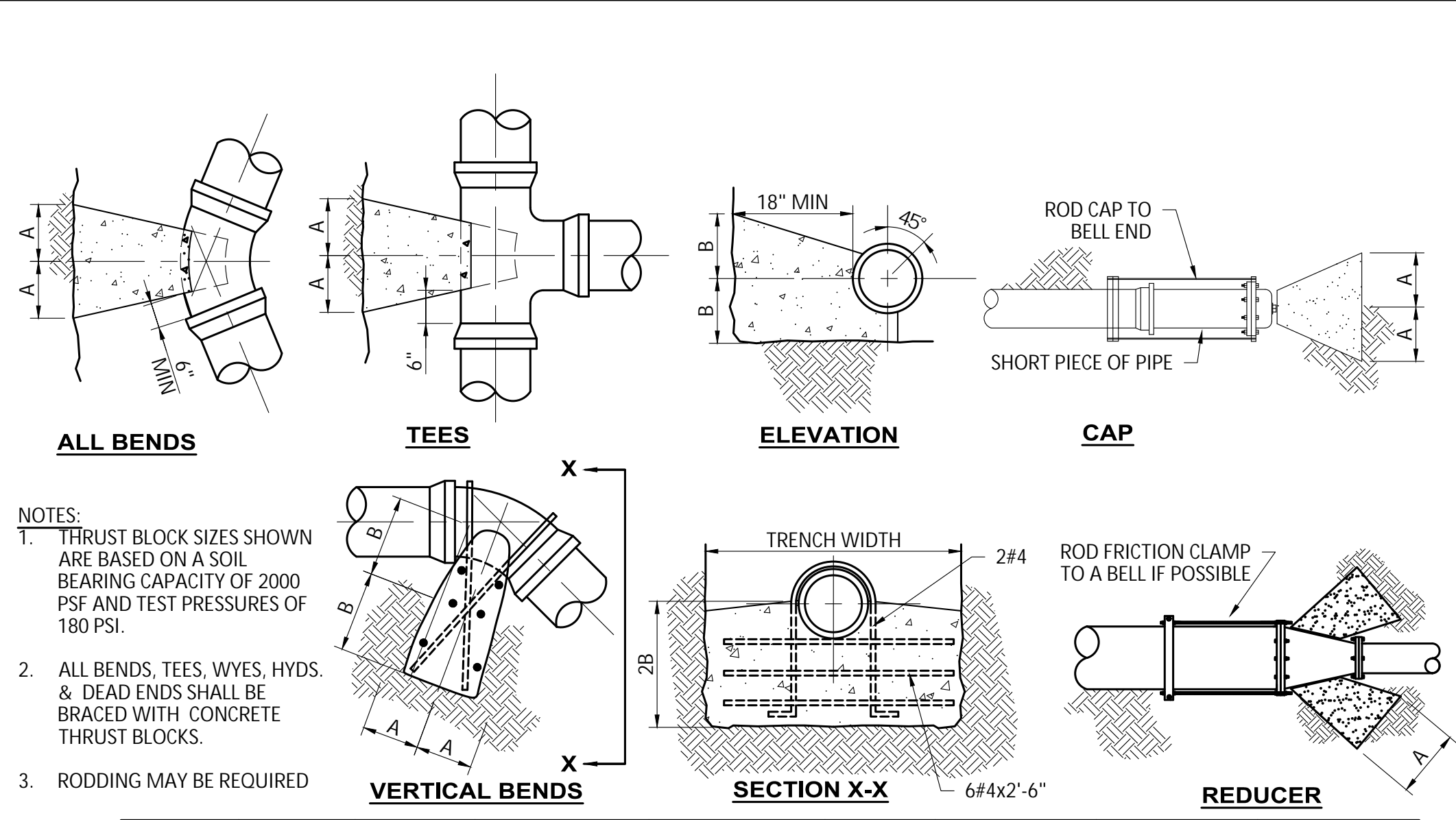


- NOTES:
- 1. INSULATION TO BE USED WHERE VERTICAL PIPE SEPARATION IS 18" OR LESS.
  - 2. WATER MAINS OR SERVICES WITHIN 4 FEET HORIZONTALLY OF ANY CULVERT OR STORM DRAIN PIPE SHALL HAVE INSULATION.

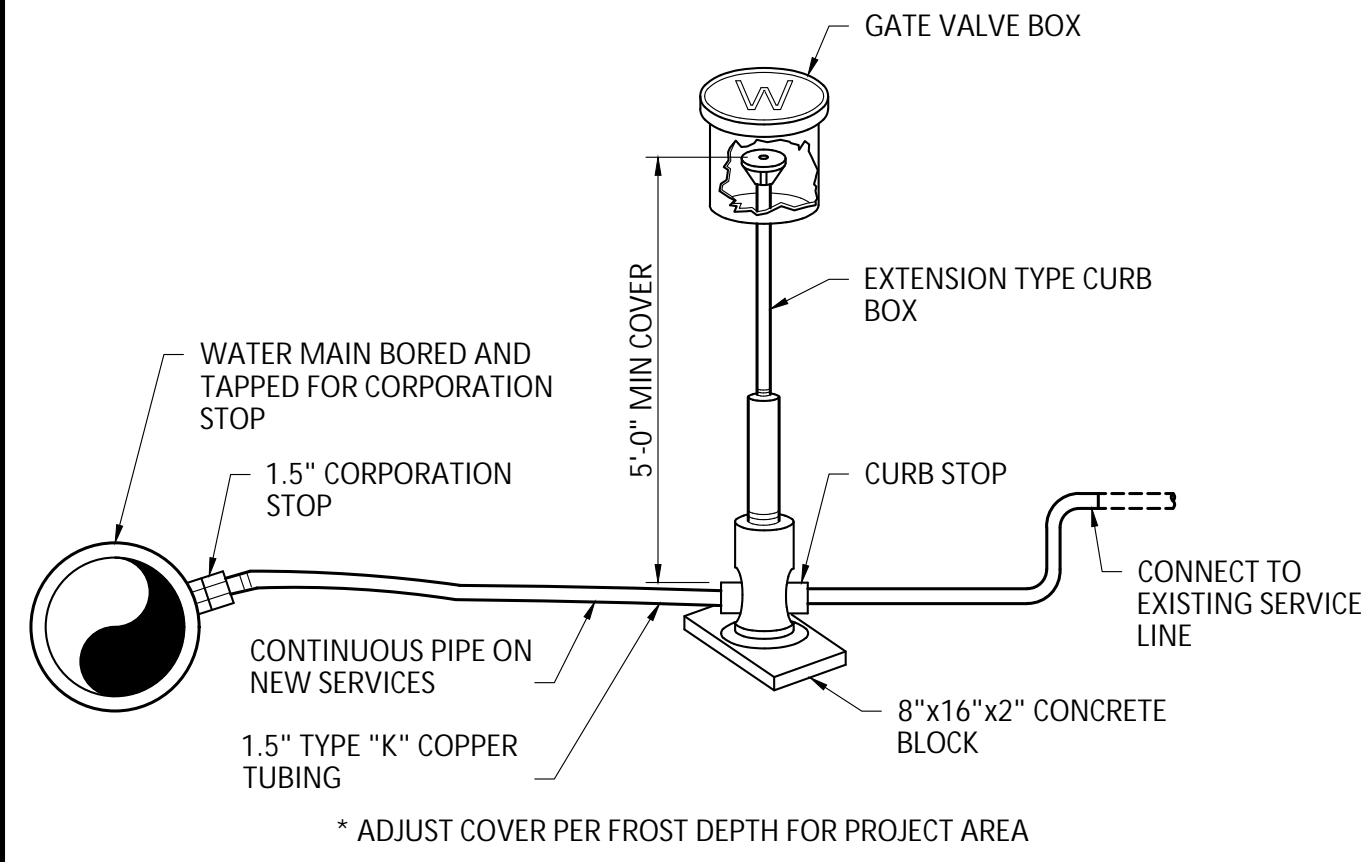
**CULVERT/STORM DRAIN AND WATER CROSSING DETAIL**  
SCALE: "NTS"



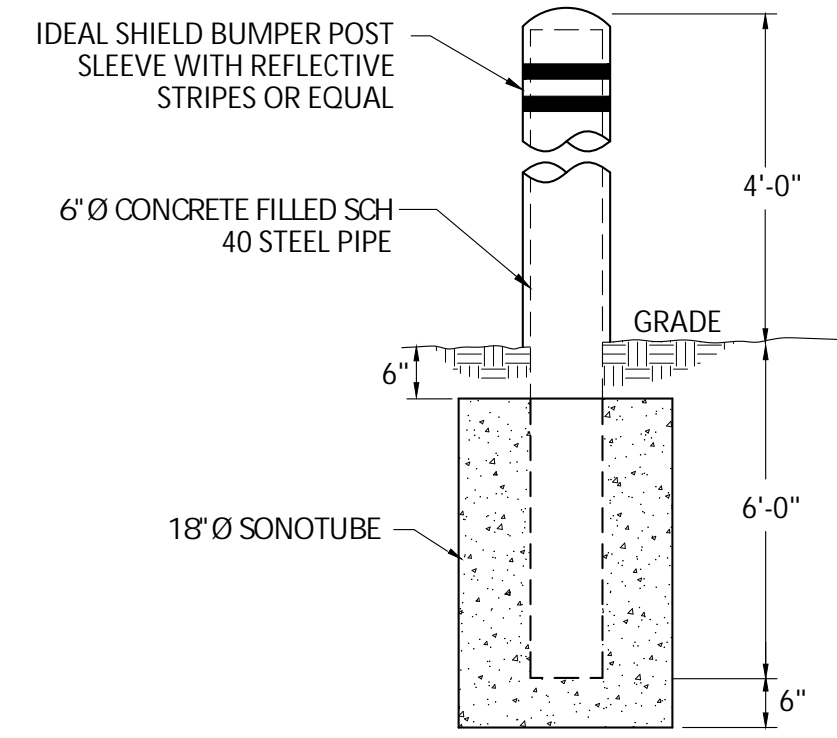
NOTE: HYDRANTS SHALL BE FIELD LOCATED BY OWNER  
**HYDRANT CONNECTION**  
SCALE: "NTS"



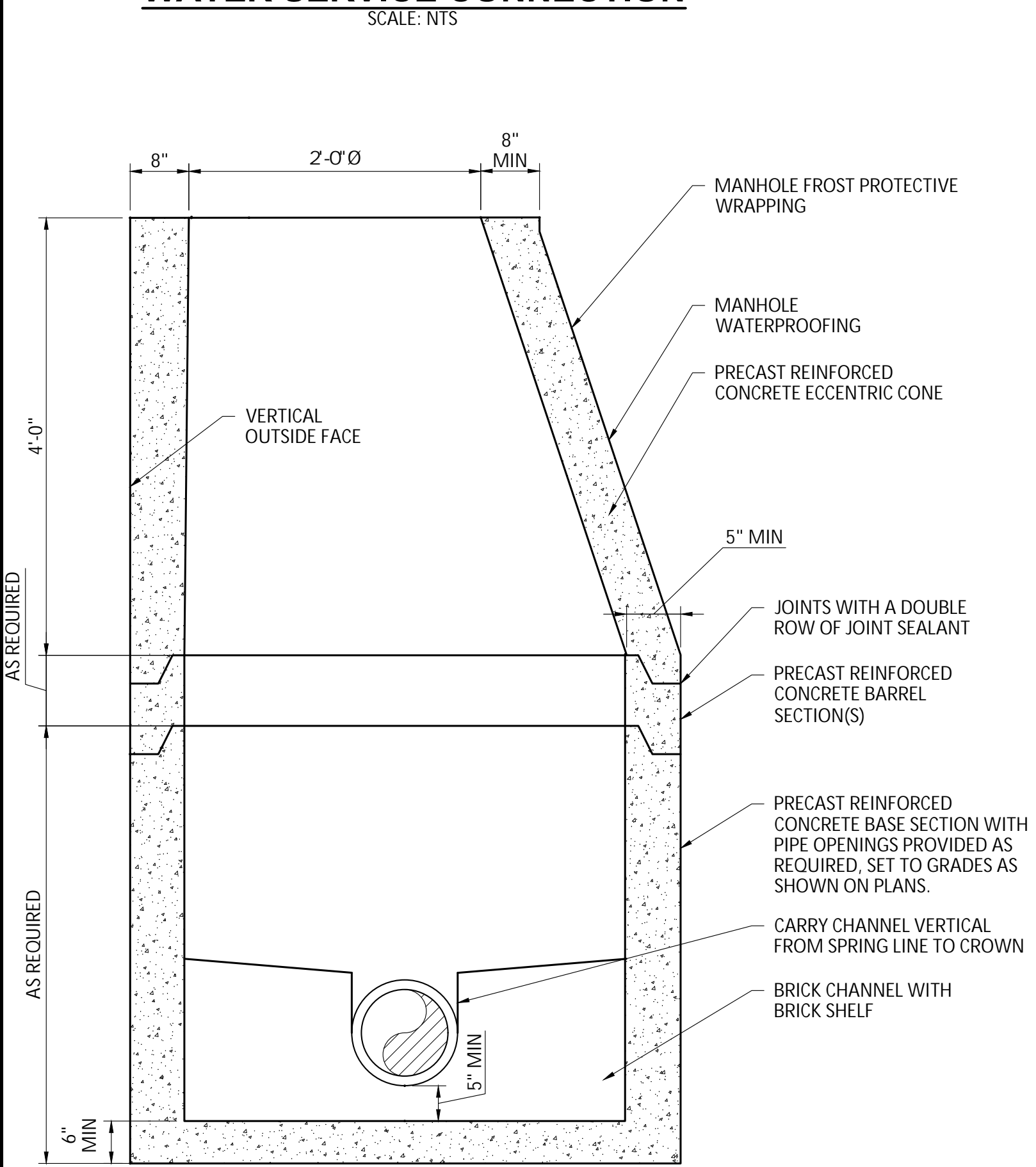
**THRUST BLOCKS**  
SCALE: "NTS"



**WATER SERVICE CONNECTION**  
SCALE: NTS

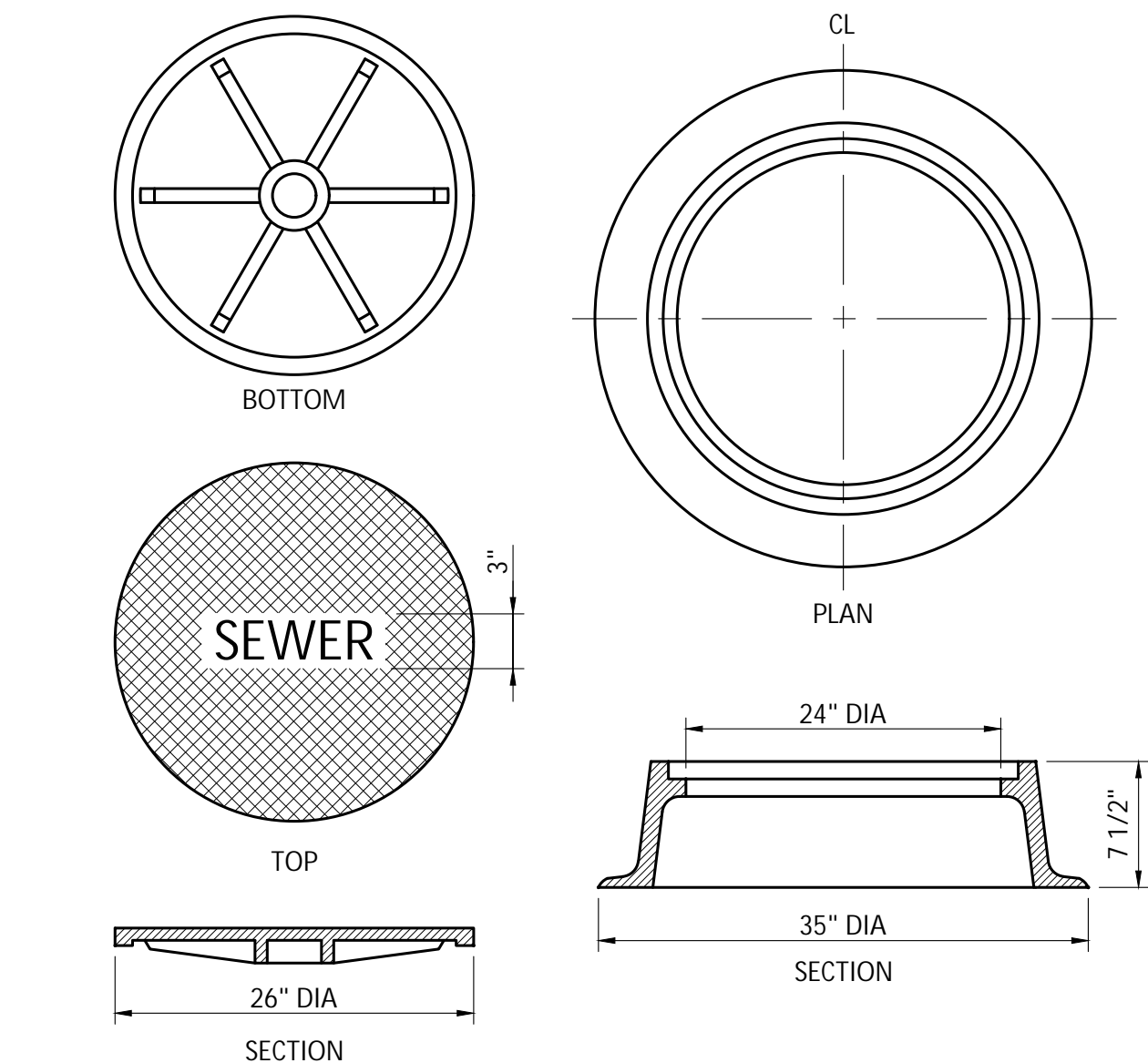


**BOLLARD**  
SCALE: NTS

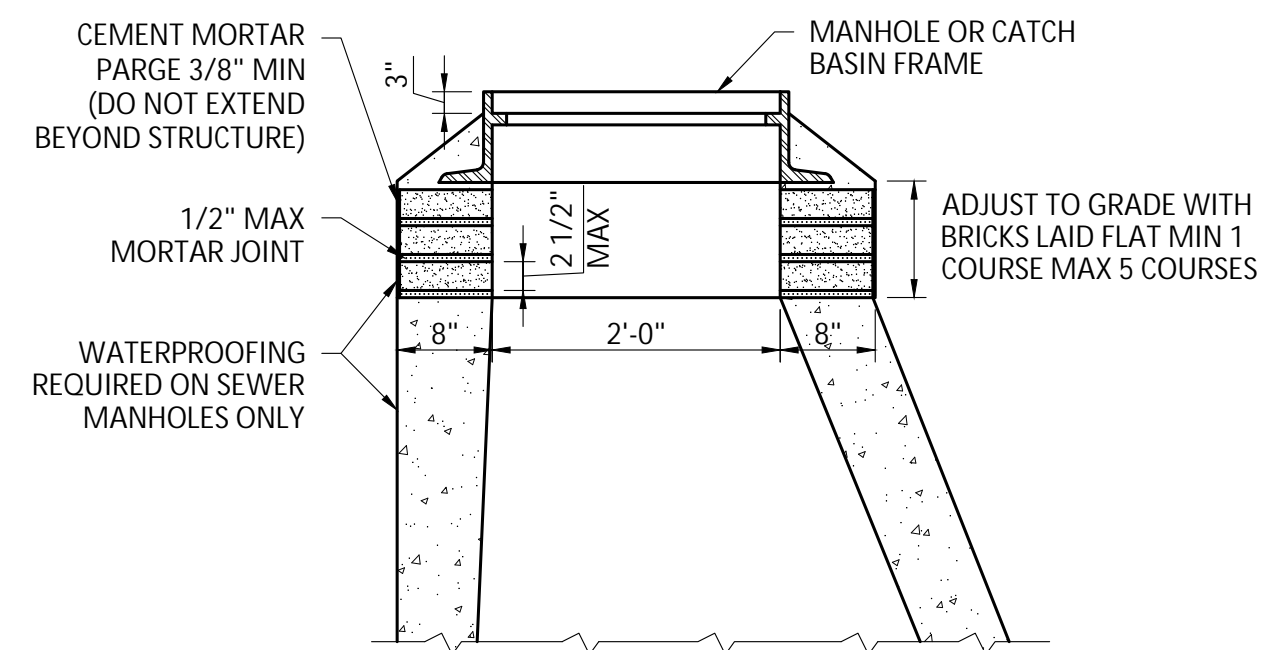


- NOTES:
- 1. MANHOLE CHANNELS REQUIRING A CHANGE IN DIRECTION ARE TO BE BUILT ON A SMOOTH CURVE OF THE LONGEST POSSIBLE RADIUS. IF SIDE PIPES ENTER CHANNEL, SHAPE TO RECEIVE ADDED SIDE FLOW.
  - 2. USE A FLAT SLAB TOP MANHOLE WHEN THE HEIGHT DIFFERENCE BETWEEN THE HIGHEST INVERT AND RIM IS LESS THAN 6'-0" AND WHEN MANHOLE DIAMETER IS GREATER THAN 4'-0".

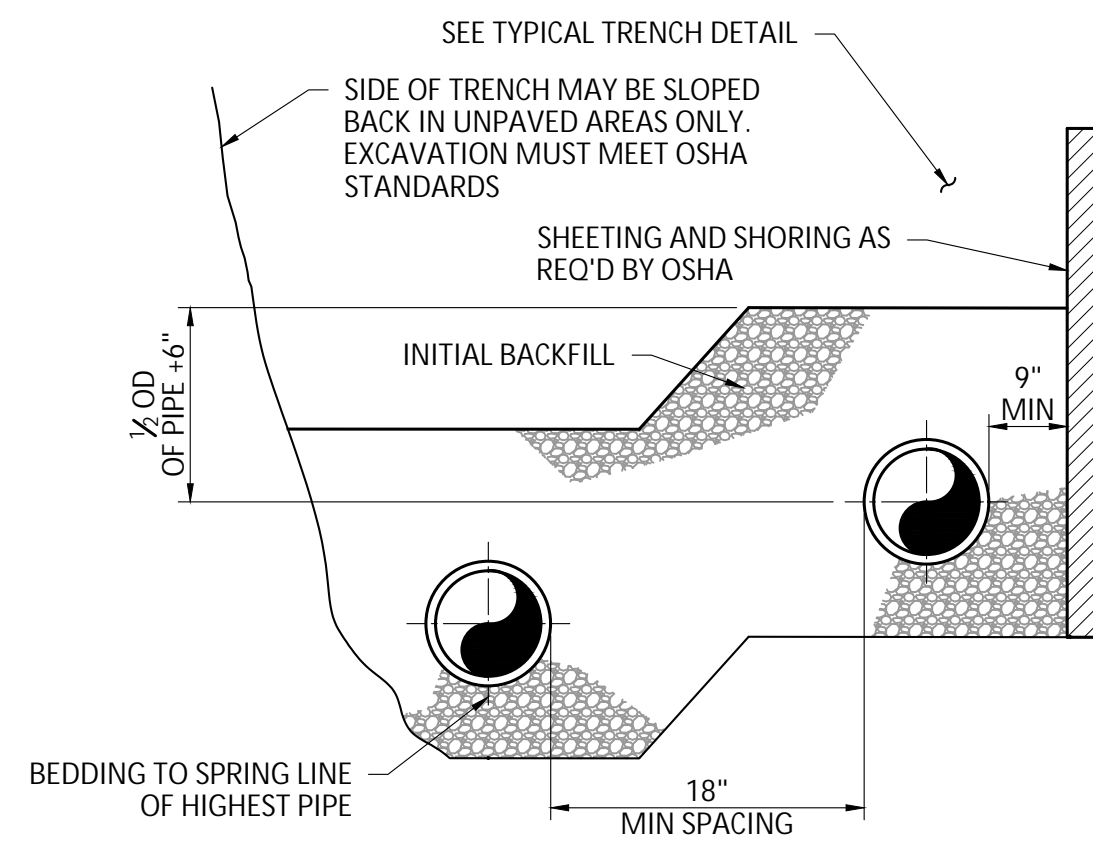
**TYPICAL 4-FT MANHOLE**  
SCALE: "NTS"



**SEWER MANHOLE STANDARD COVER AND FRAME**  
SCALE: "NTS"

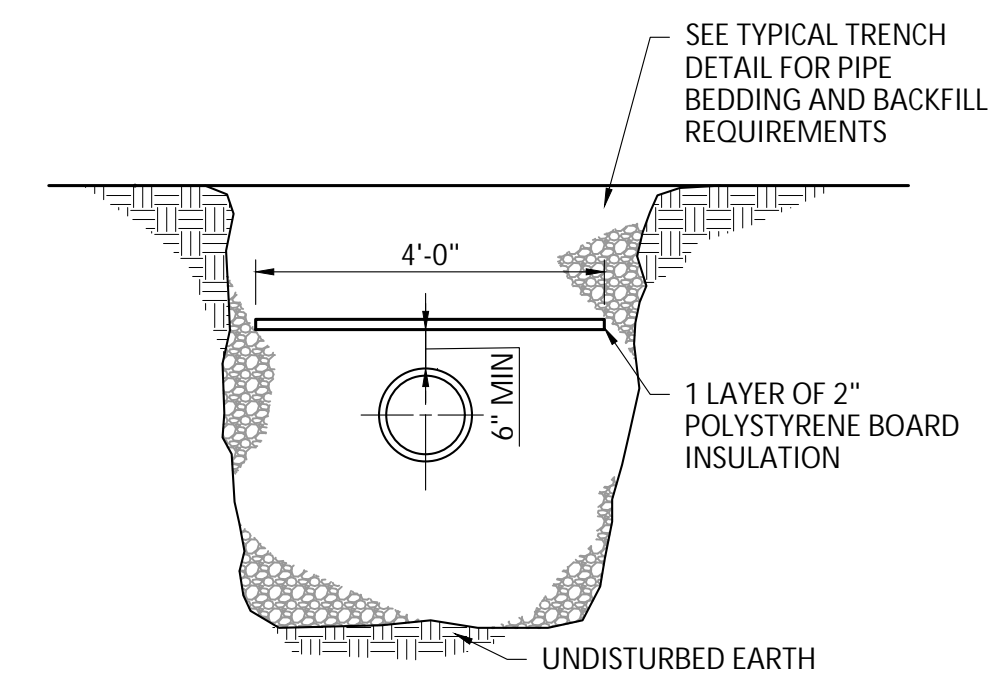


**MANHOLE AND CATCH BASIN FRAME INSTALLATION**  
SCALE: "NTS"

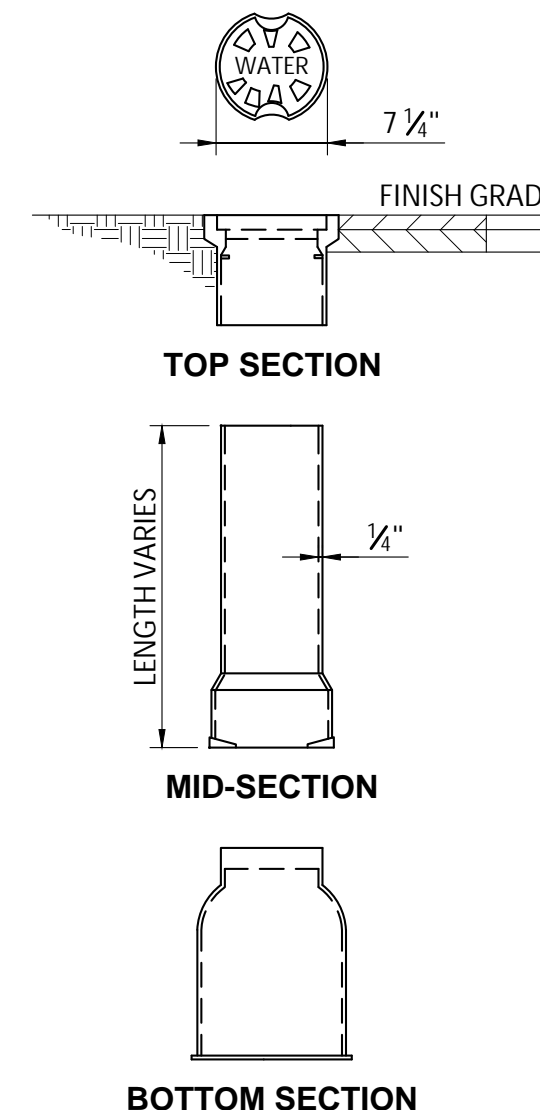


- NOTES:
- 1. THIS SECTION IS SHOWN FOR TWO PIPES. IT IS TO BE USED FOR ANY NUMBER OF PIPES.
  - 2. SEE SPECIFICATIONS FOR BEDDING AND BACKFILL MATERIALS AND COMPACTED BACKFILL REQUIREMENTS.
  - 3. PIPE SPACING SHOWN IS TYPICAL UNLESS OTHERWISE NOTED.
  - 4. SEE SPECIFICATIONS SECTION 01150 - MEASUREMENT AND PAYMENT FOR PAY WIDTH REQUIREMENTS.

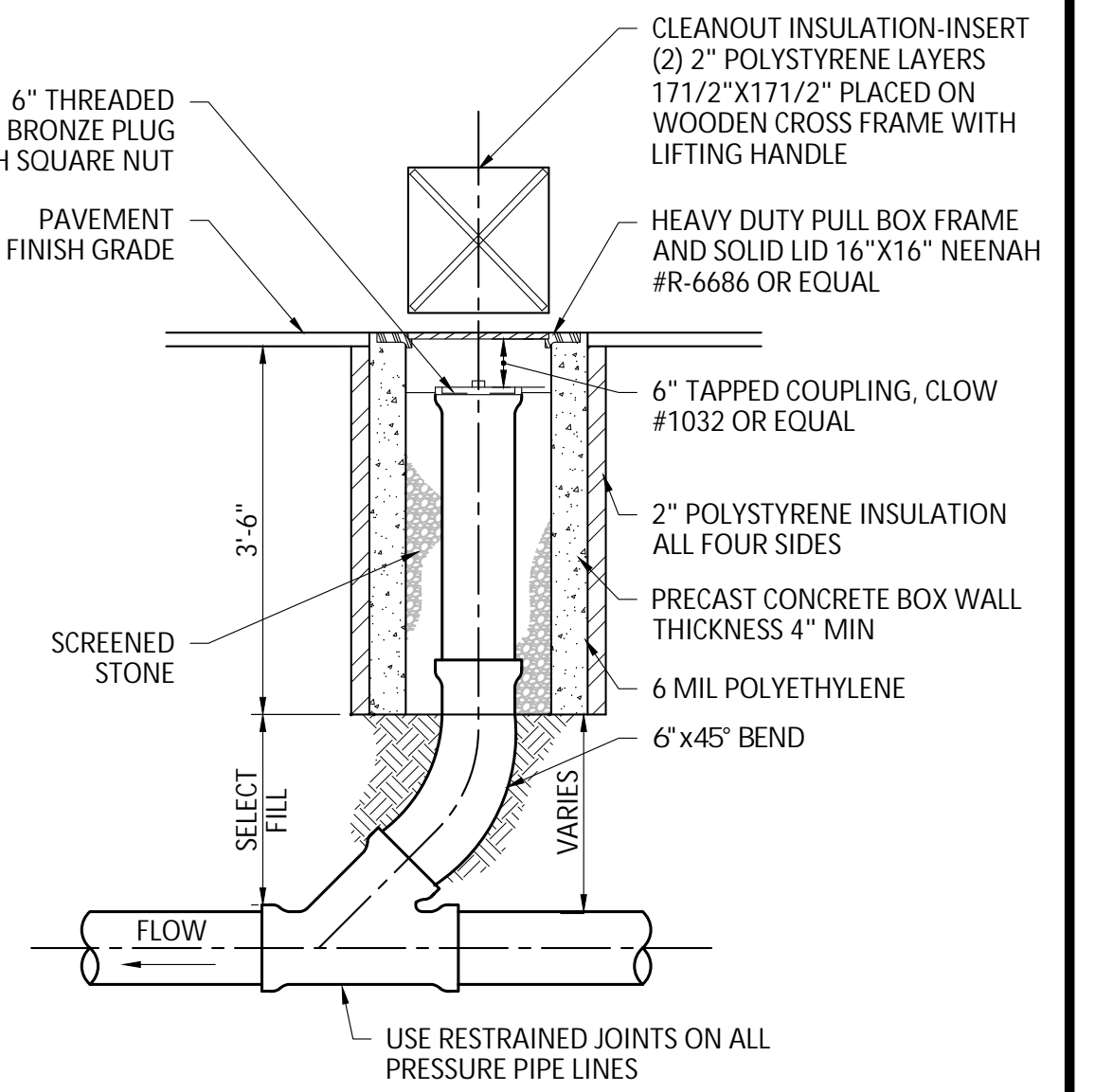
**MULTIPLE PIPE TRENCH**  
SCALE: NTS



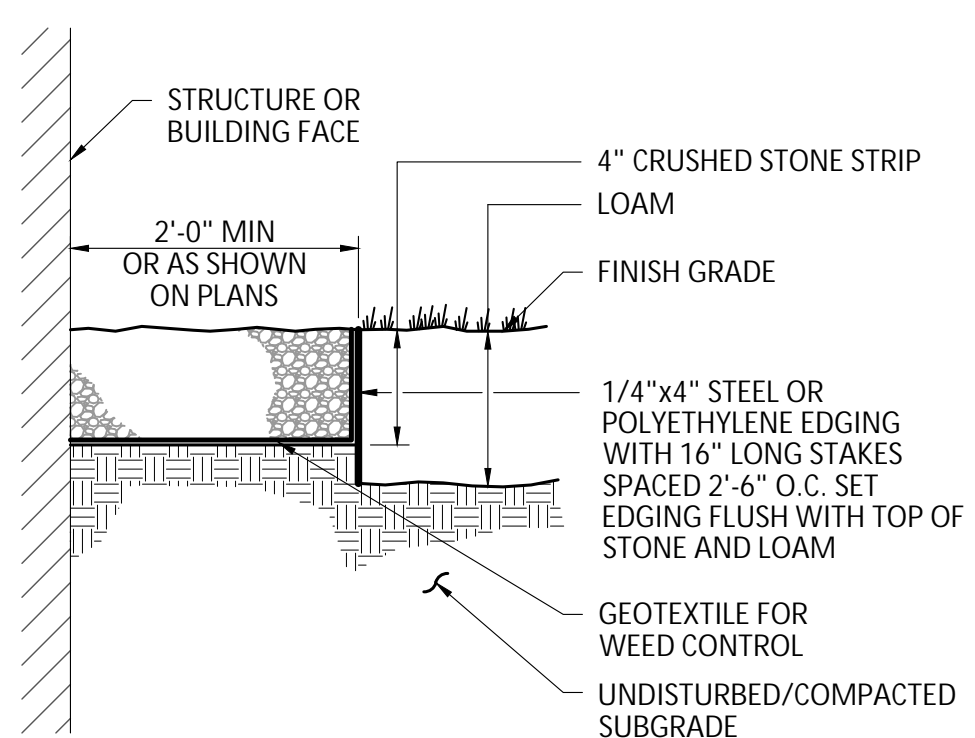
**TRENCH PIPE INSULATION**  
SCALE: NTS



**VALVE BOX**  
SCALE: "NTS"



**TYPICAL CLEANOUT**  
SCALE: NTS



**CRUSHED STONE MOWING STRIP**  
SCALE: "NTS"

APPLICANT: MASSDEVELOPMENT  
ADDRESS: 33 ANDREWS PARKWAY  
DEVENS, MA, 01434

OWNER OF RECORD: MDFA/PATTON WELL  
ADDRESS: 99 HIGH STREET, 11TH FLOOR  
PARCEL# 010.0-0099-0200.0  
BOSTON, MA 02110

DESIGNER OF RECORD:  
WRIGHT-PIERCE  
ATTN: JIM CRAY, PE  
600 FEDERAL STREET  
ANDOVER, MA 01810

I CERTIFY THAT THIS PLAN CONFORMS WITH THE RULES AND REGULATIONS OF THE REGISTRARS OF DEEDS.

SIGNATURE: \_\_\_\_\_

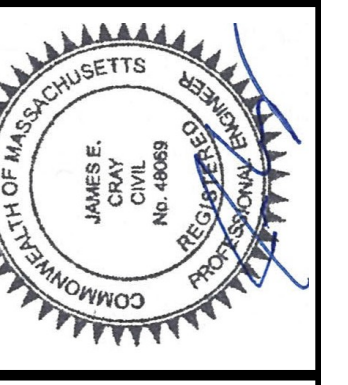
APPROVED BY THE DEVENS ENTERPRISE COMMISSION: \_\_\_\_\_ DATE: \_\_\_\_\_

CHAIRMAN: \_\_\_\_\_

APPD	DATE

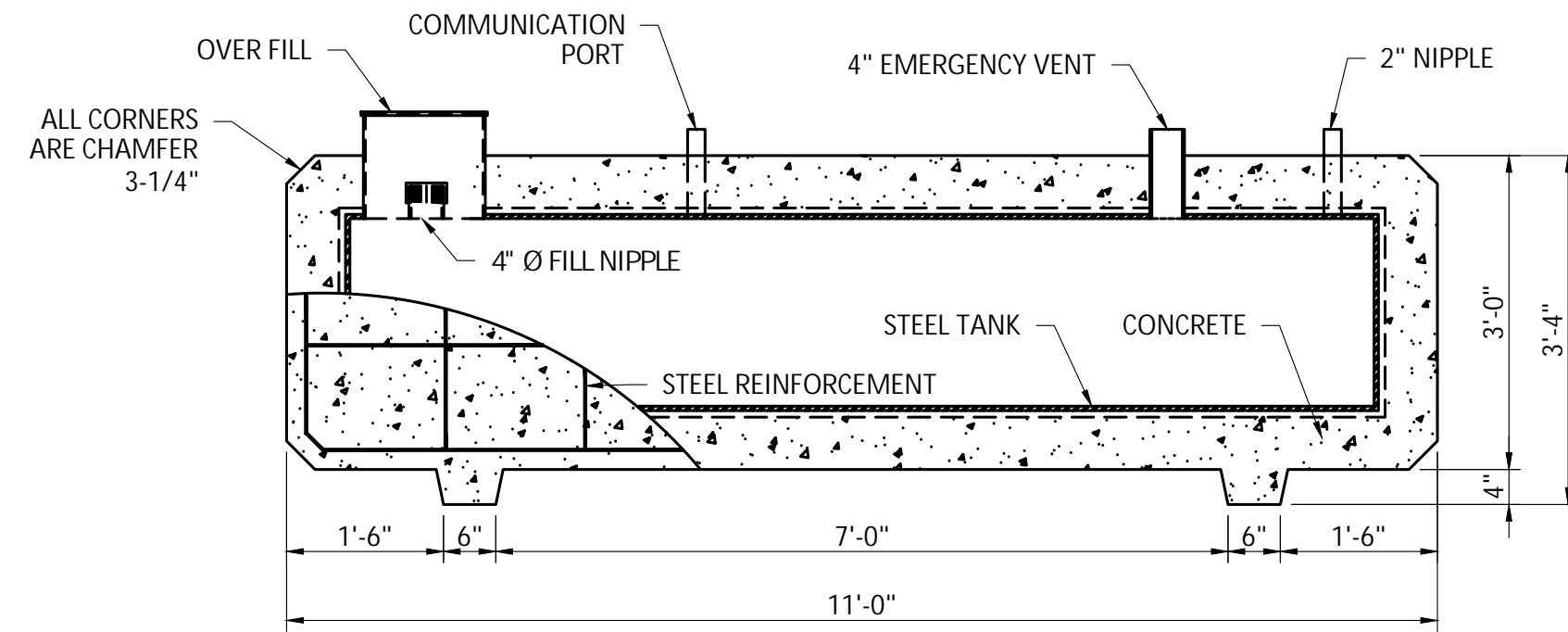
NO	REVISIONS/REVISIONS	DATE

DESIGNED BY: C. DAL	
CAD CORP.: W. BAL	
CHKD.: C. CHIN	
CHECKED BY: L. LAIT	
DATE: J. CRA	
APPROVED BY: J. CRA	
DATE: 1/10/20	
PROJECT NO.: 1140853H	

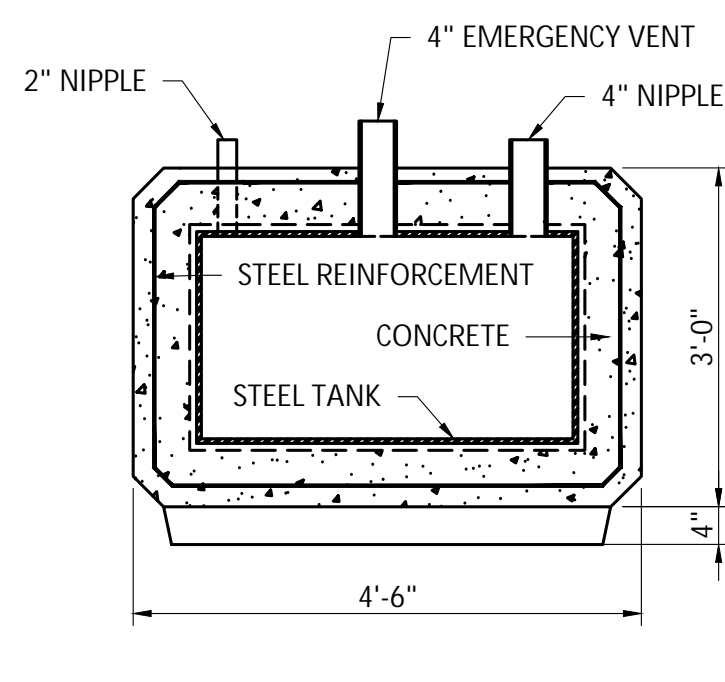


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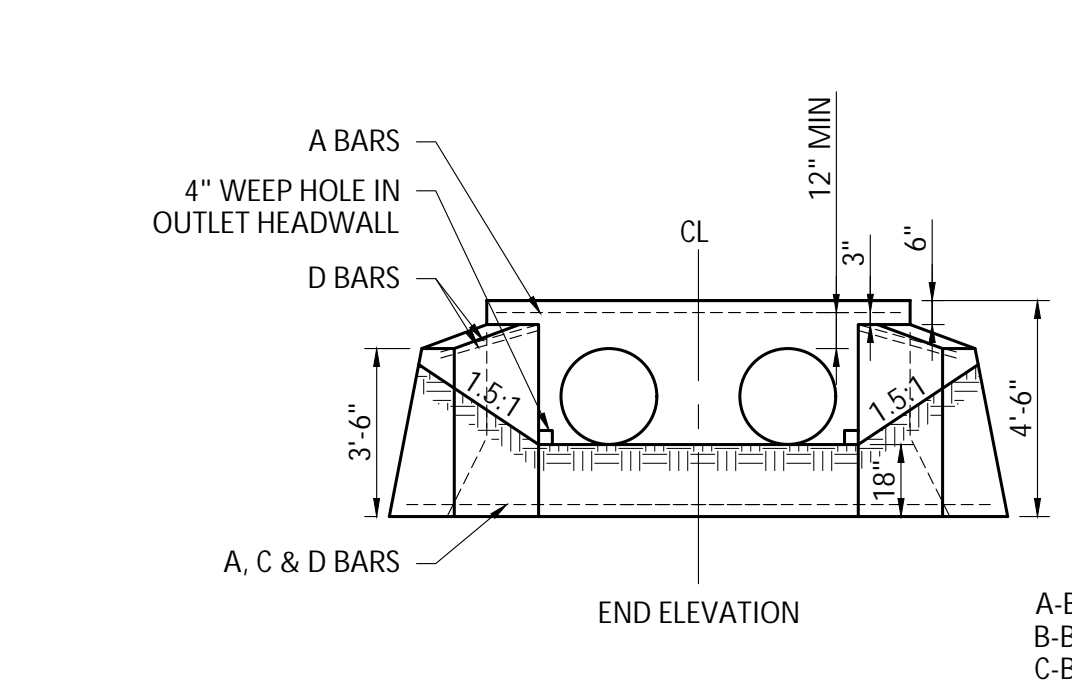
MASSDEVELOPMENT  
DEVENS, MASSACHUSETTS  
PATTON WATER TREATMENT PLANT  
DETAILS |  
**DRAWING**  
C-9



SECTION A SCALE: NTS



SECTION B SCALE: NTS

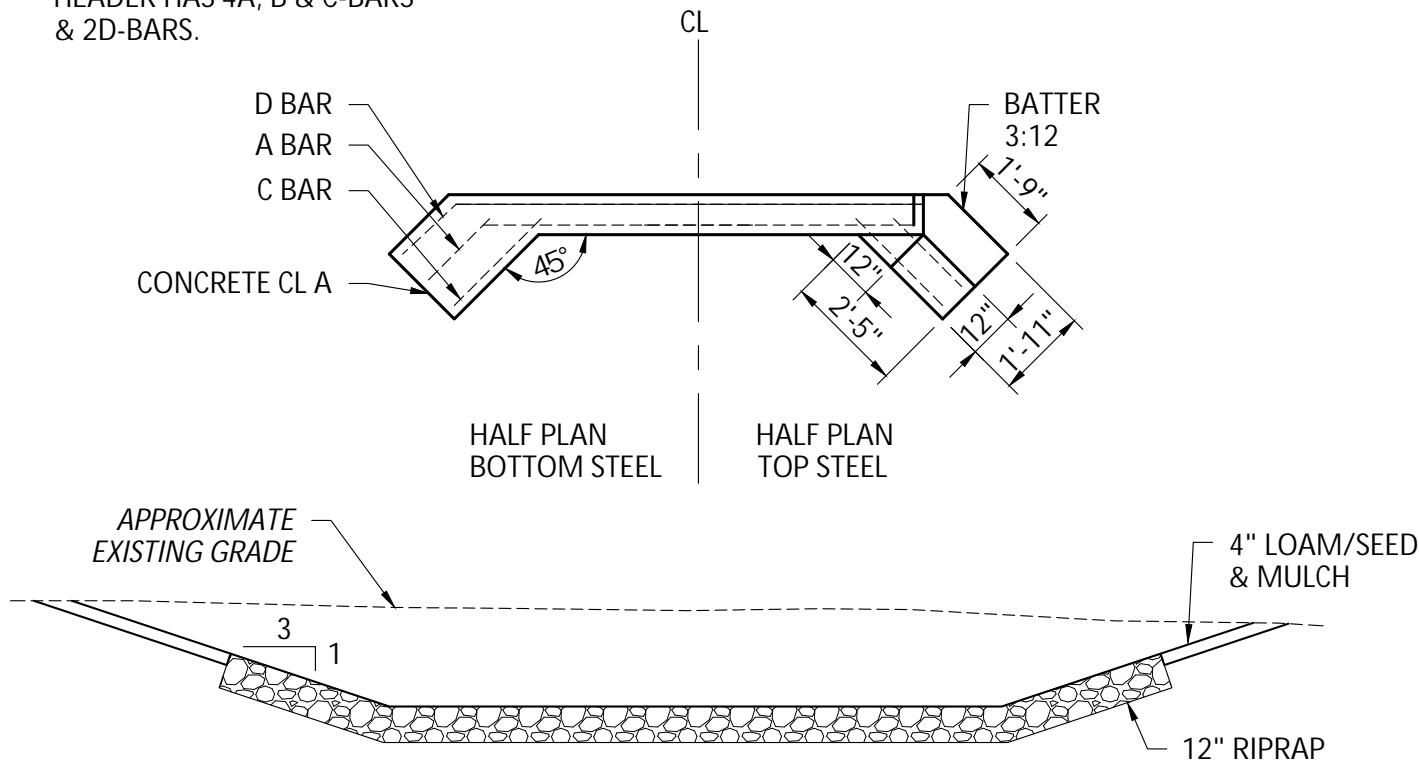


END ELEVATION

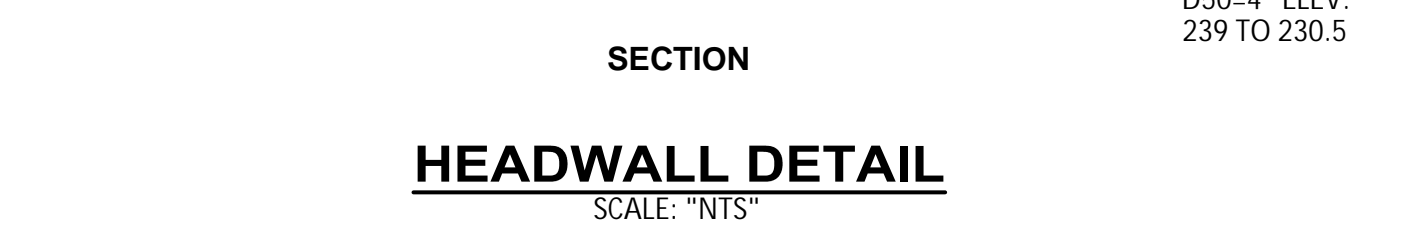
NOTE: ALL LIKE BARS IN EACH HEADWALL ARE NO. 4'S, EACH STANDARD HEADER HAS 4A, B & C-BARS & 2D-BARS.

LENGTH

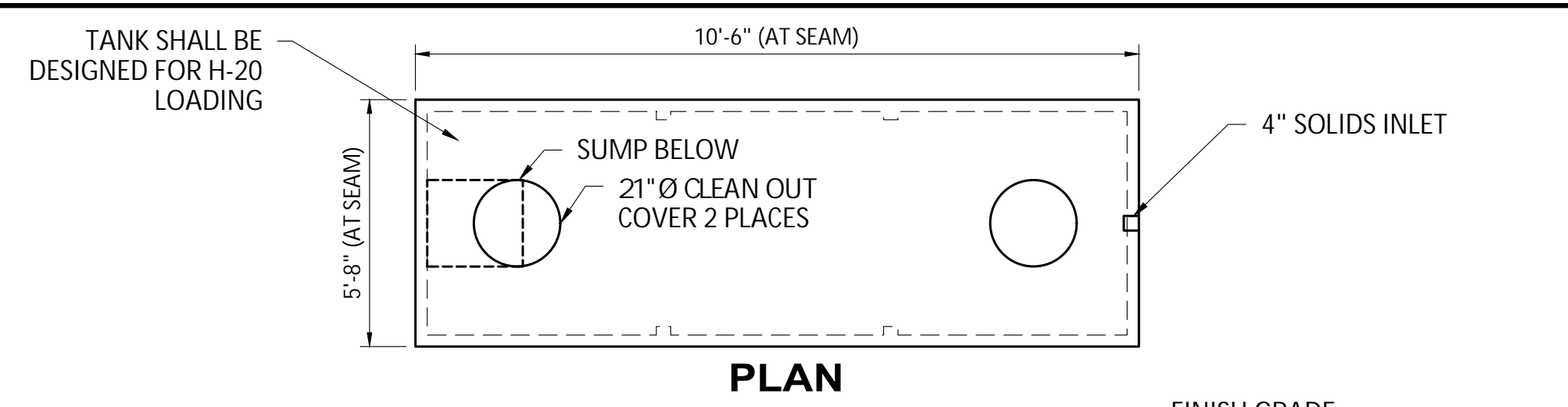
A-BARS	4'-9"
B-BARS	2'-7"
C-BARS	2'-5"
D-BARS	3'-11"



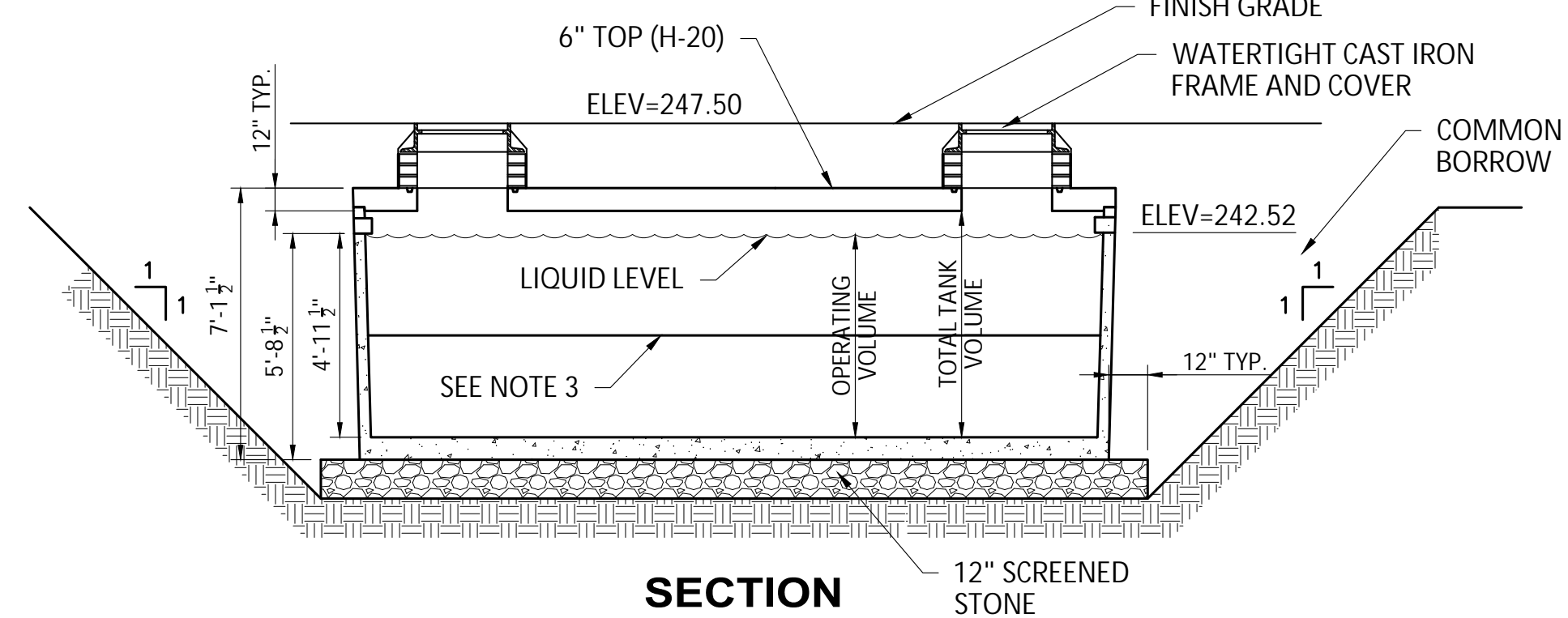
CORNER DETAILS



HEADWALL DETAIL SCALE: NTS



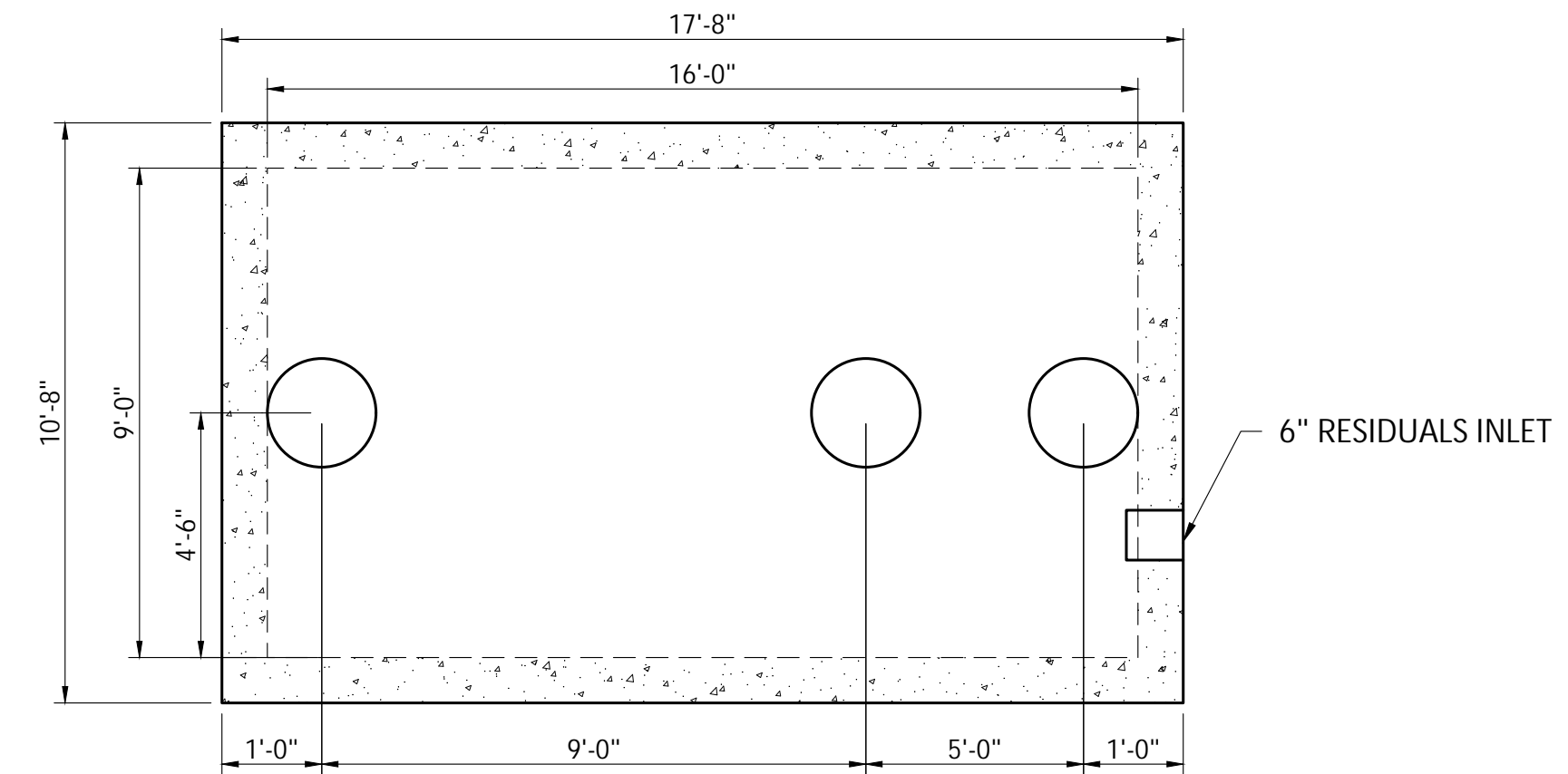
PLAN



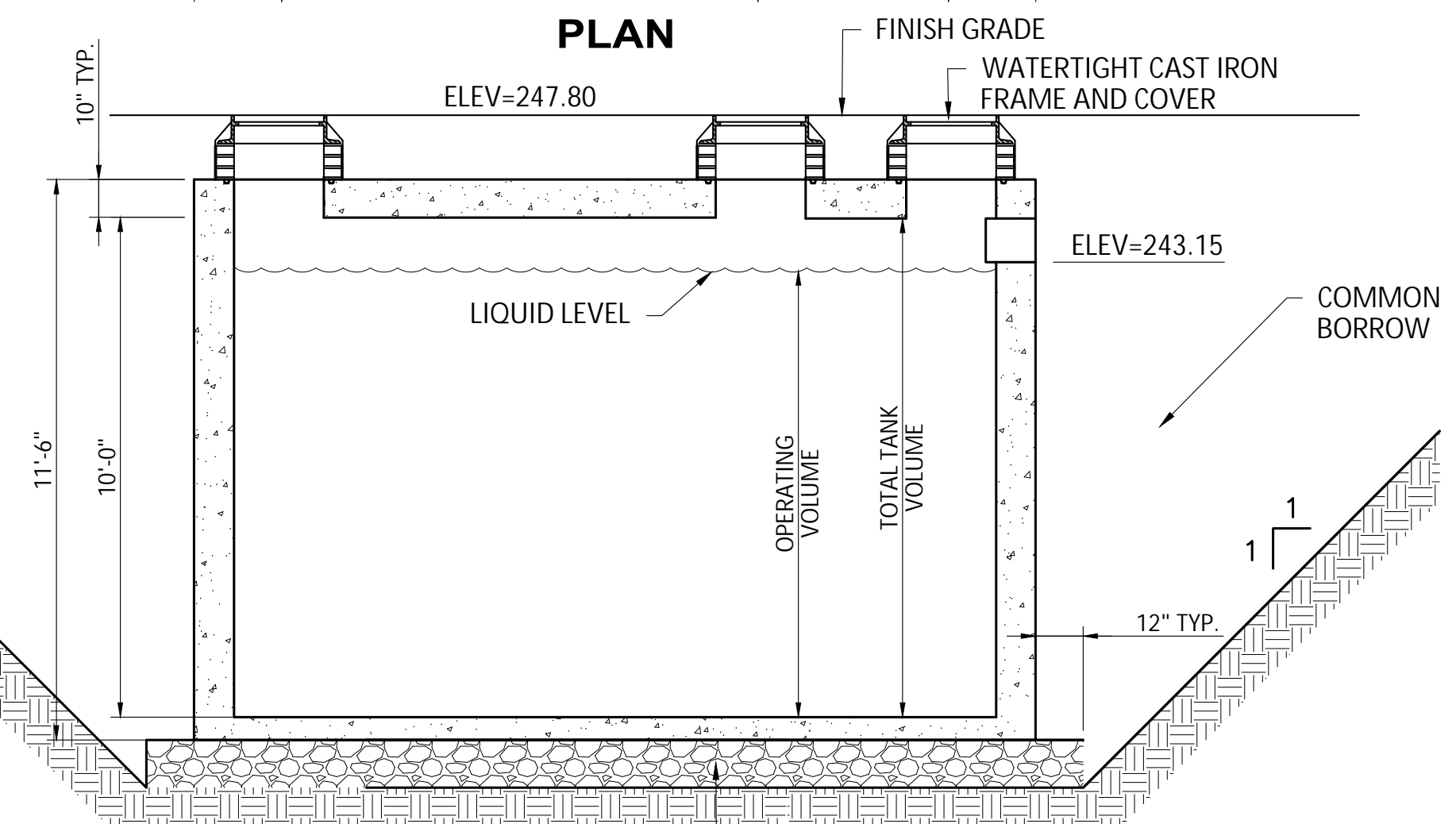
SECTION

NOTES:  
 1. CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS.  
 2. ALL REINFORCEMENT PER ASTM C1227.  
 3. TONGUE AND GROOVE JOINT SEALED WITH BUTYL RESIN.

4,000 GAL. TIGHT TANK DETAIL SCALE: NTS



PLAN

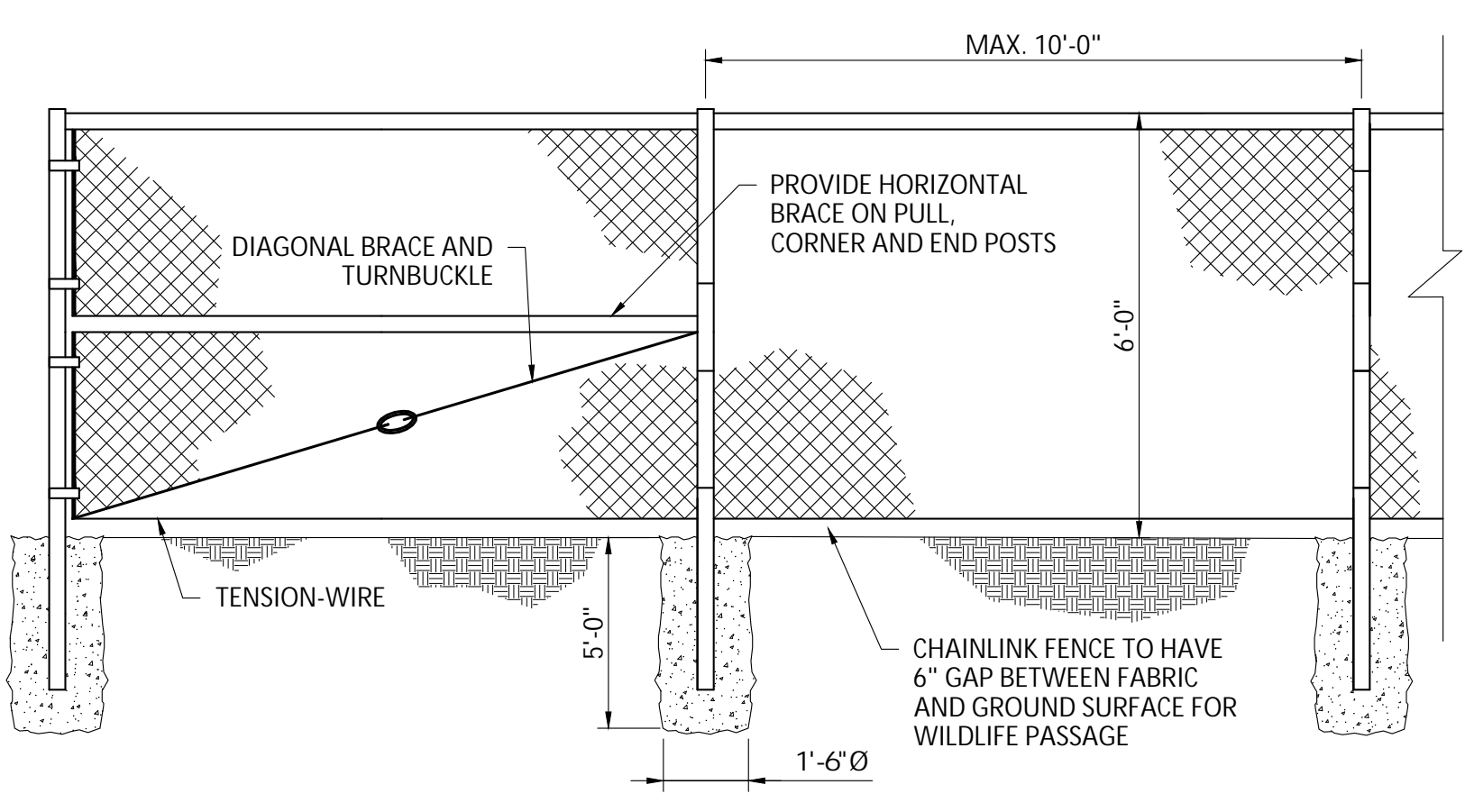


SECTION

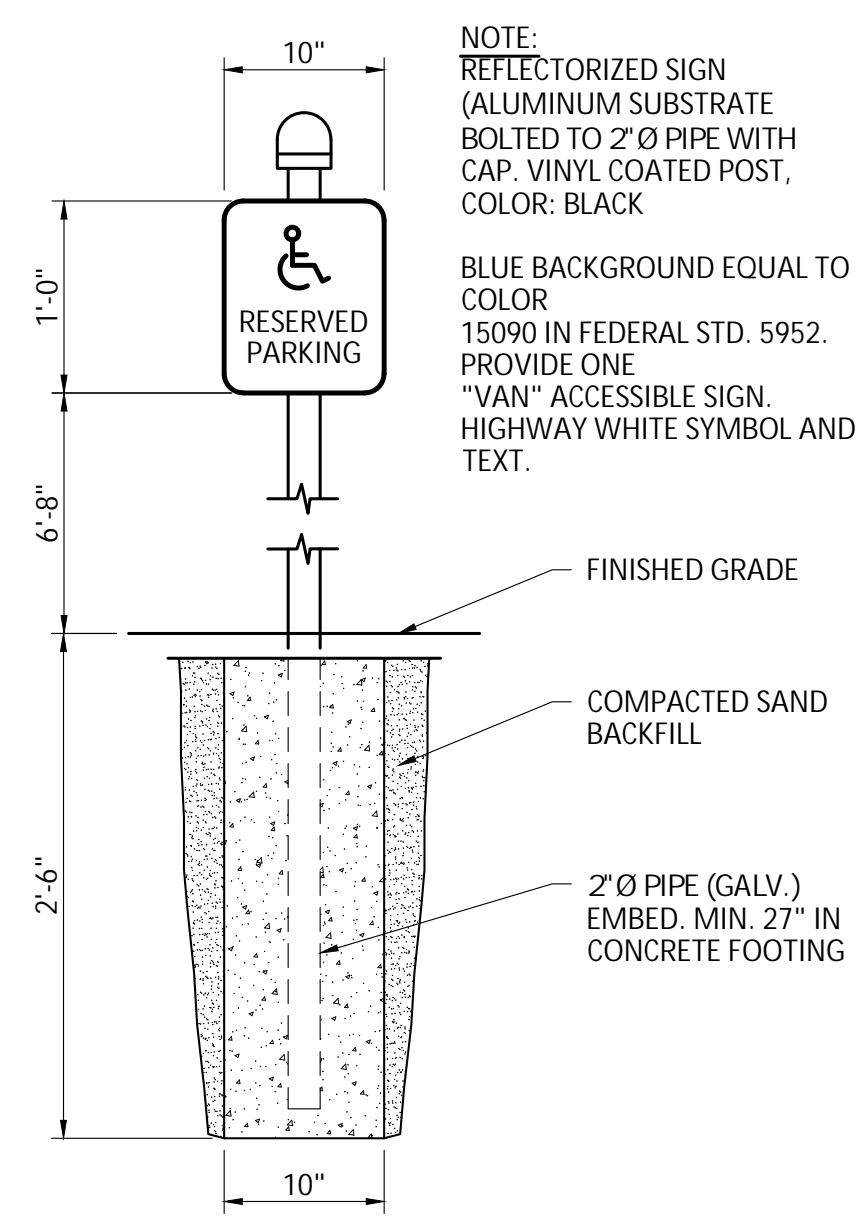
10,000 GAL. RESIDUALS HOLDING TANK DETAIL SCALE: NTS

NOTES:  
 1. DIESEL STORAGE TANK SHALL BE A CONVAULT BRAND.  
 2. TANK SHALL BE PLACED ON CONCRETE EQUIPMENT PAD.

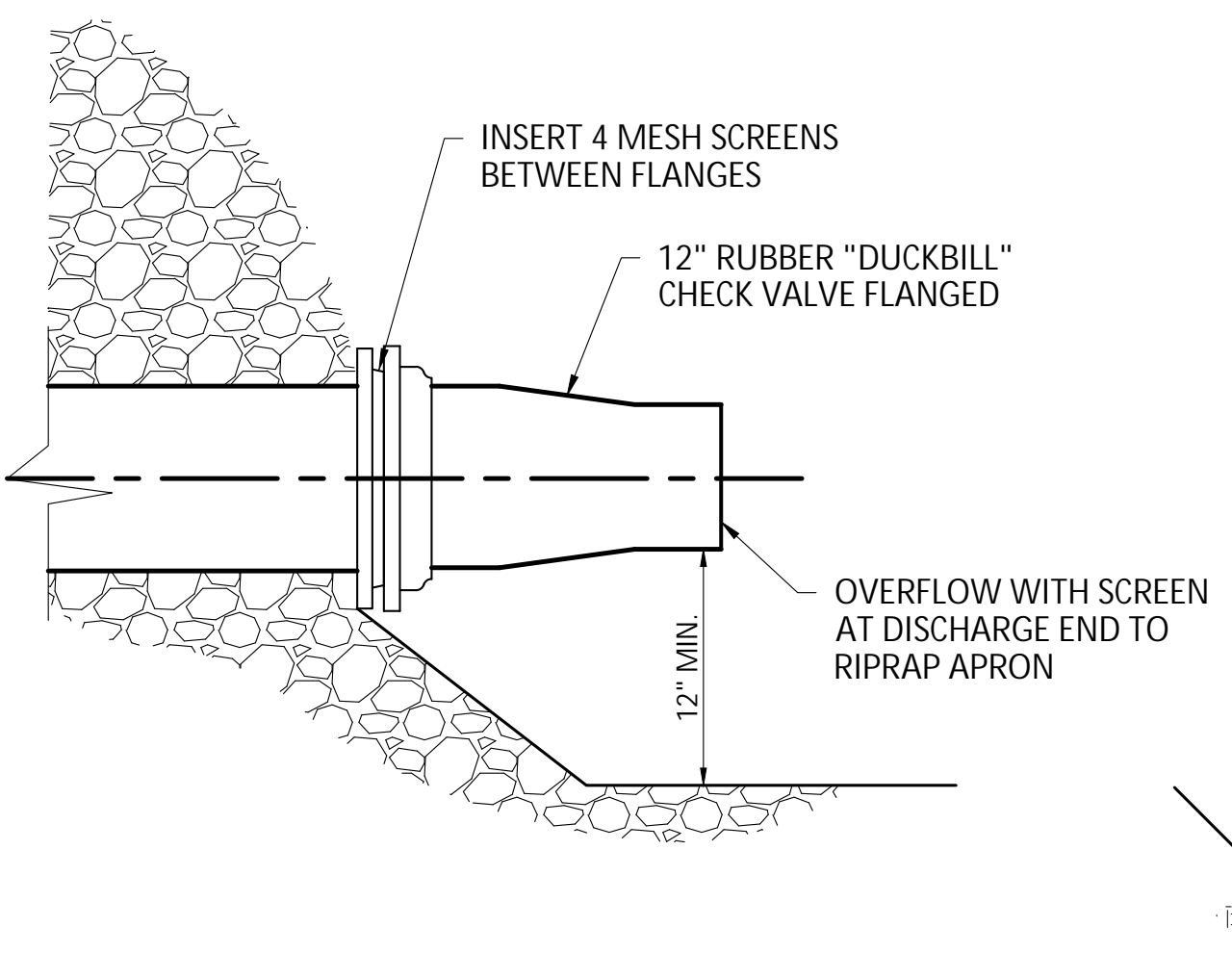
DIESEL STORAGE TANK SCALE: NTS



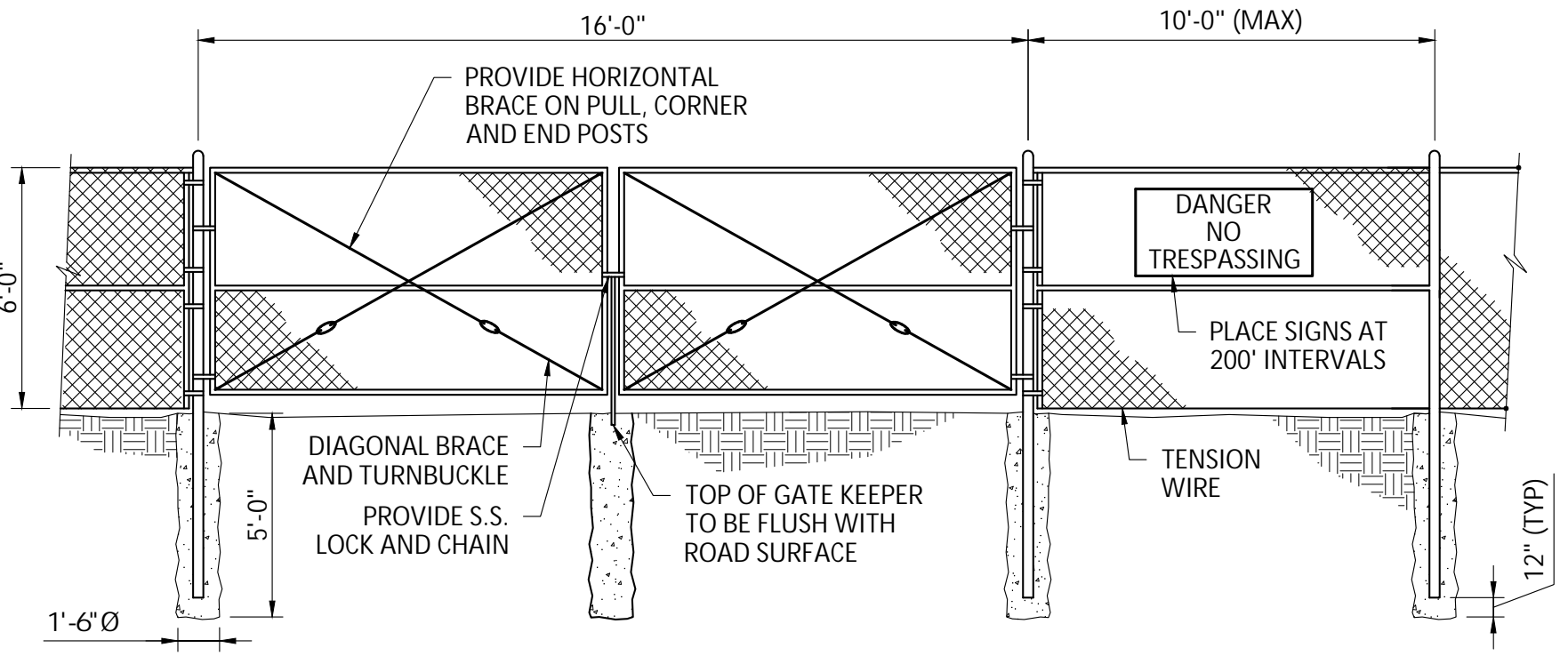
CHAINLINK FENCE SCALE: NTS



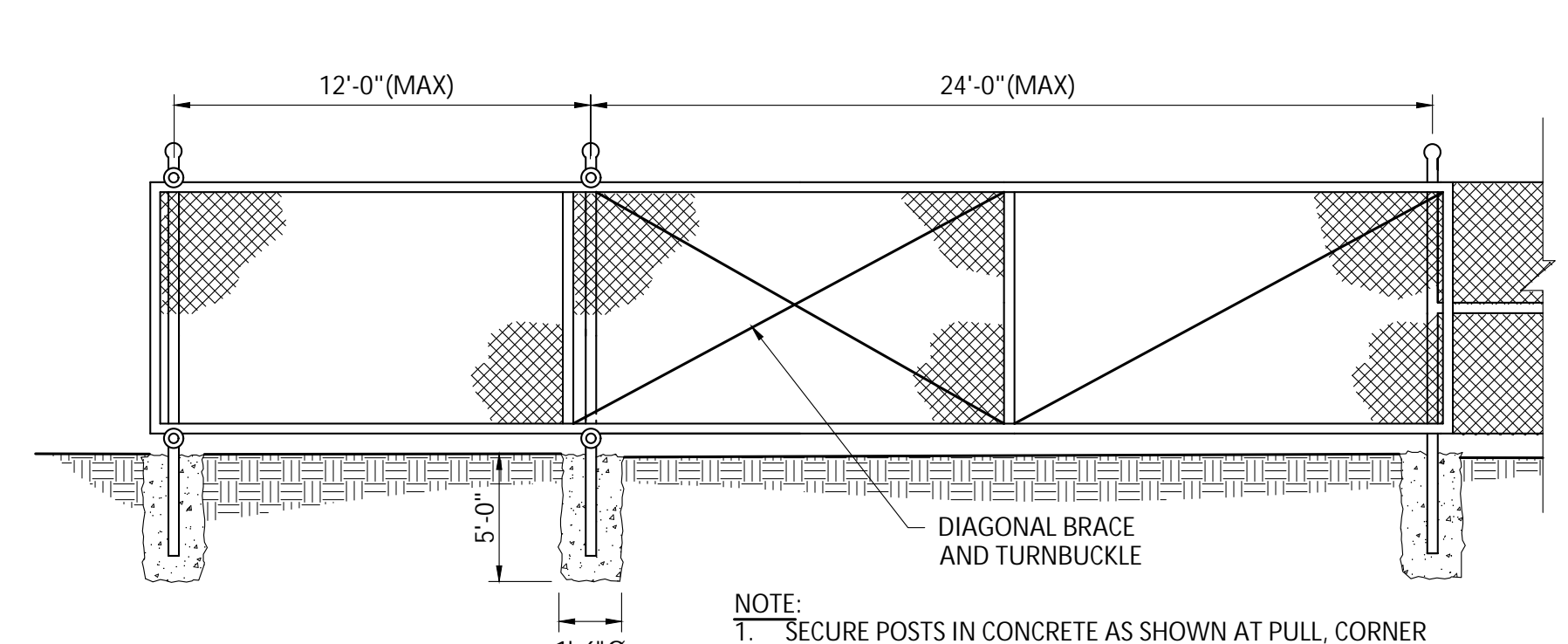
ACCESSIBLE PARKING SIGN SCALE: NTS



PROCESS TANK OVERFLOW OUTLET SCALE: NTS



CHAINLINK FENCE AND LOCKING DOUBLE GATE SCALE: NTS



CHAIN LINK FENCE CANTILEVER GATE SCALE: NTS

NOTE:  
 1. SECURE POSTS IN CONCRETE AS SHOWN AT PULL, CORNER AND END POSTS (INCLUDING GATE POSTS)  
 2. IF CHAINLINK FENCE IS INSTALLED IN UNFRACTURED LEDGE, POST SHALL PENETRATE 2'-0" INTO THE LEDGE AND SHALL BE GROUTED INTO 6" HOLE.

I CERTIFY THAT THIS PLAN CONFORMS WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS.  
 SIGNATURE: \_\_\_\_\_  
 APPROVED BY THE DEVENS ENTERPRISE COMMISSION: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHAIRMAN: \_\_\_\_\_

APPLICANT: MASSDEVELOPMENT  
 ADDRESS: 33 ANDREWS PARKWAY  
 DEVENS, MA, 01434

OWNER OF RECORD: MDFA/PATTON WELL  
 ADDRESS: 99 HIGH STREET, 11TH FLOOR  
 PARCEL# 010.0-0099-0200.0  
 BOSTON, MA 02110

DESIGNER OF RECORD:  
 WRIGHT-PIERCE  
 ATTN: JIM CRAY, PE  
 600 FEDERAL STREET  
 ANDOVER, MA 01810

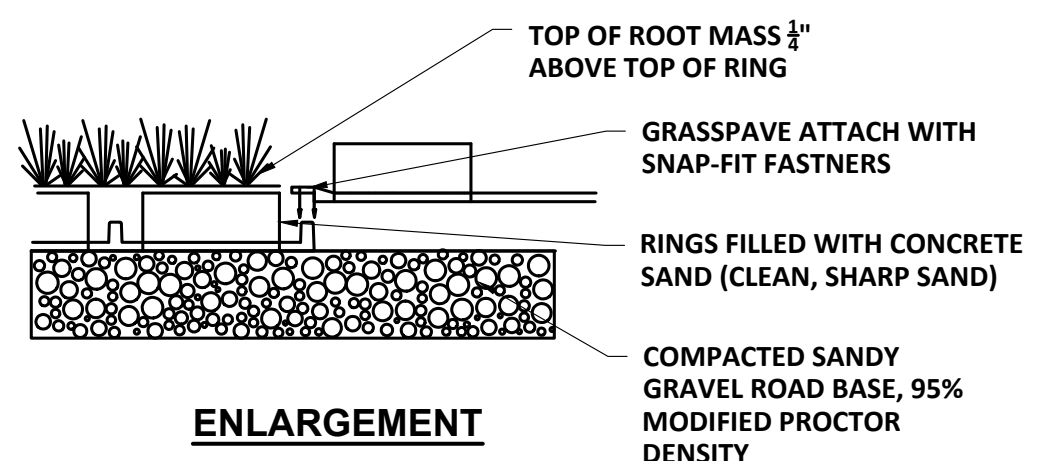
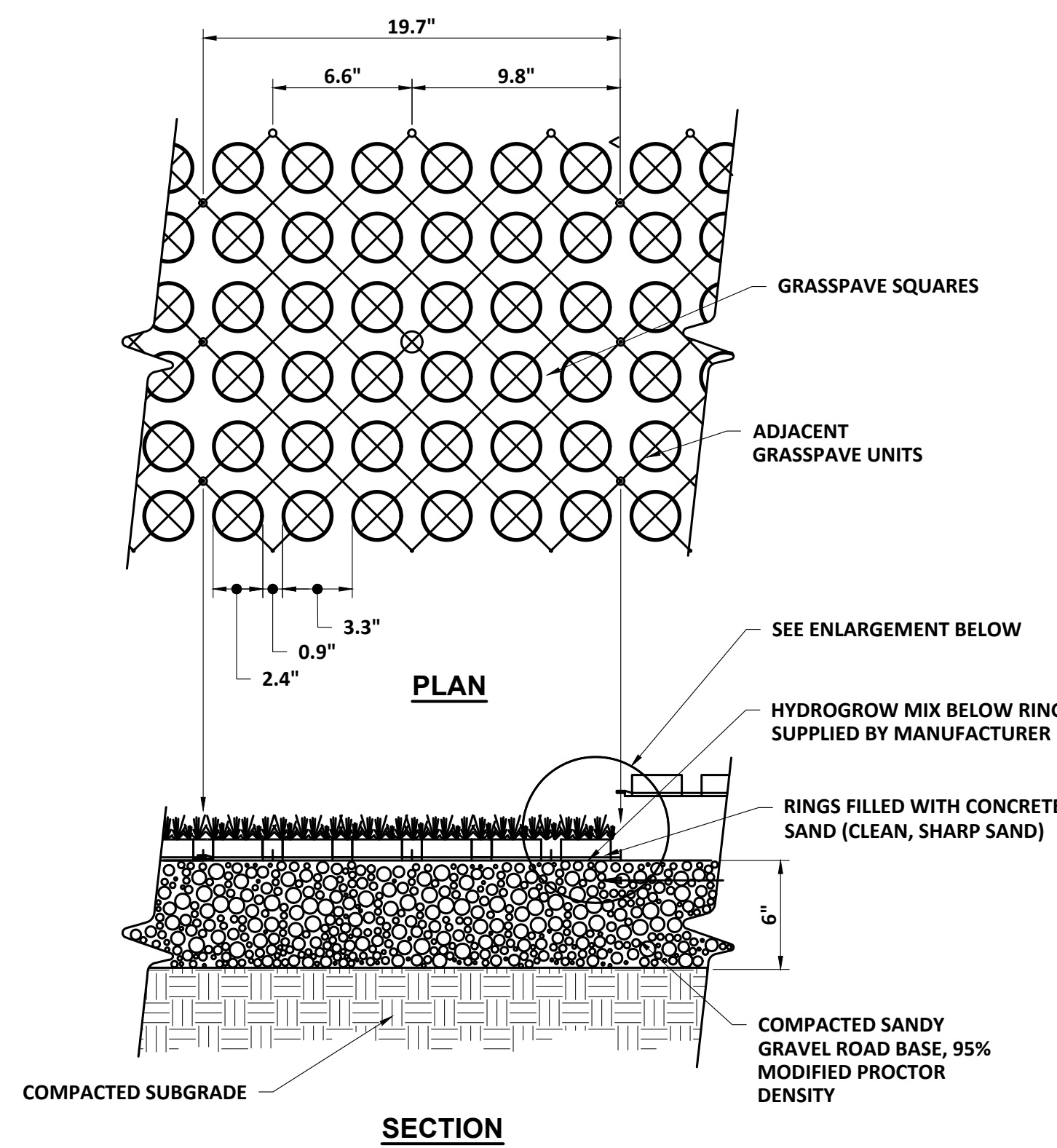
APP'D	DATE
J.CRA	10/20
NO.	UNIFIED PERMIT
DESIGNED BY: C.DAI	REVISIONS
CAD CORP: W.BAI	
CHKD BY: C.HINK	
DATE: L.ANT	
APPROVED BY: J.CRA	
DATE: 11/08/21	
PROJECT NO: 14083H	

MASSDEVELOPMENT  
 DEVENS, MASSACHUSETTS  
 PATTON WATER TREATMENT PLANT

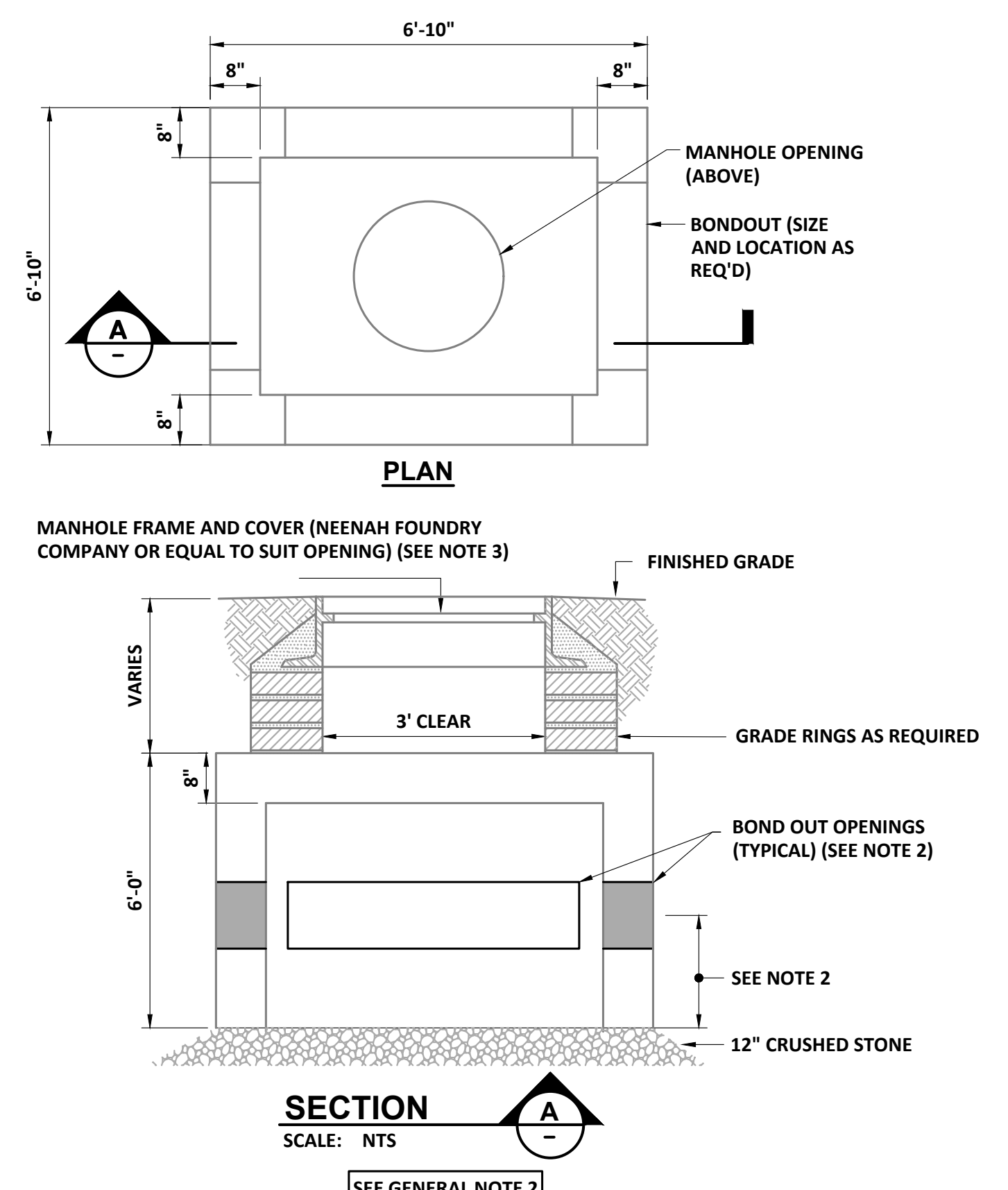
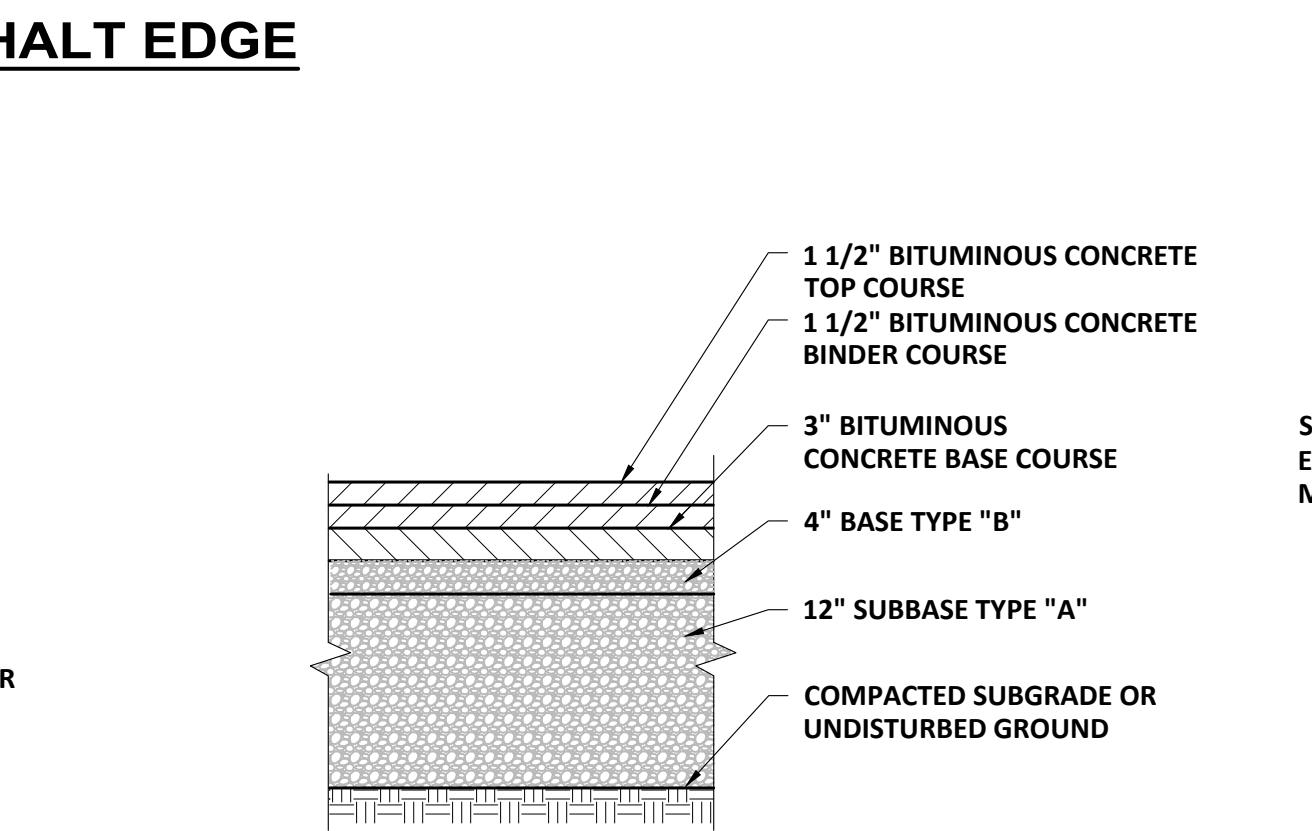
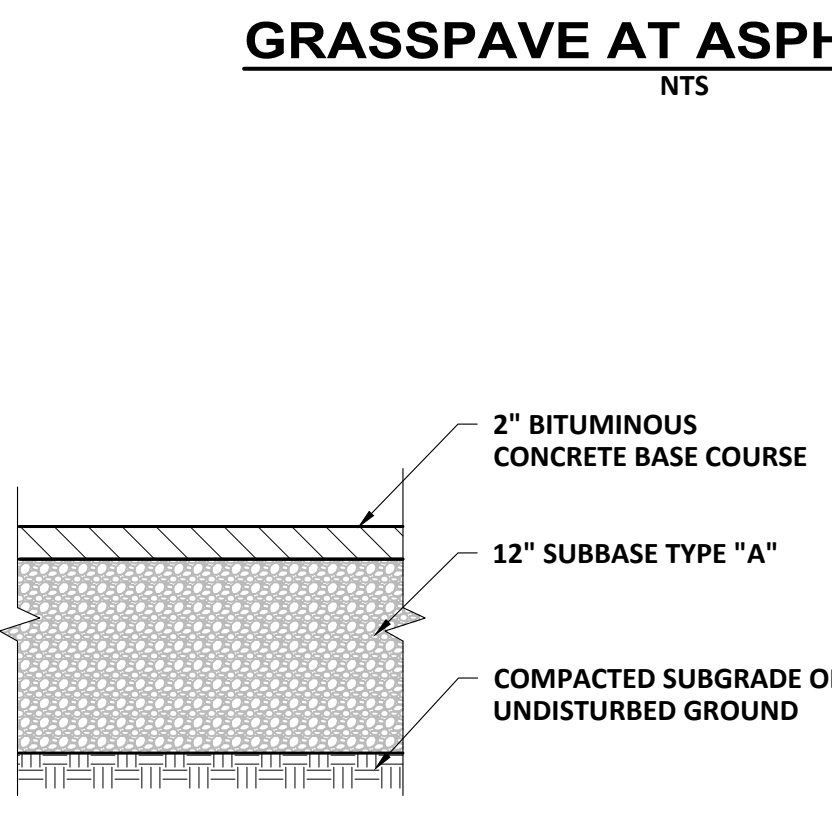
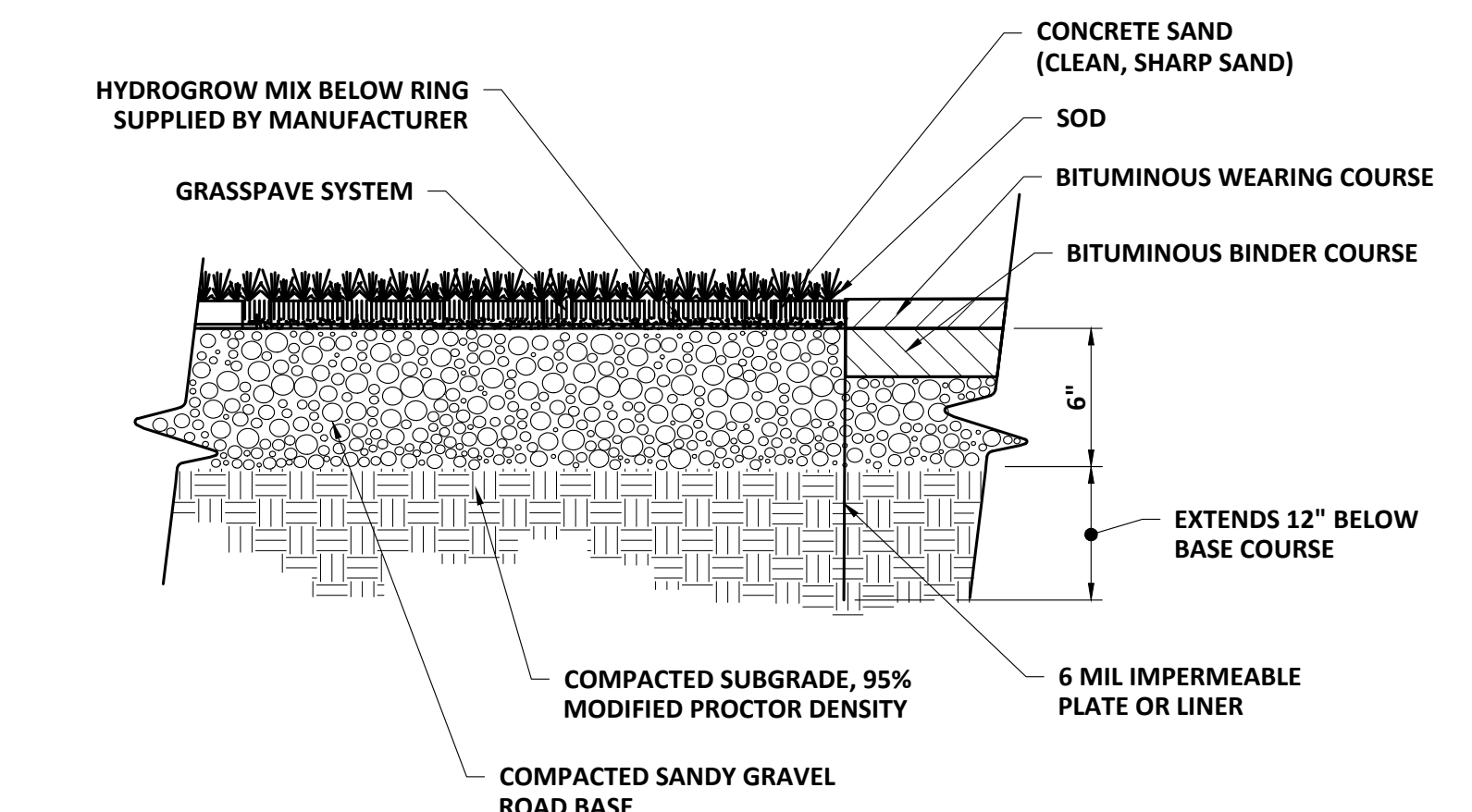
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DETAILS II

DRAWING C-10

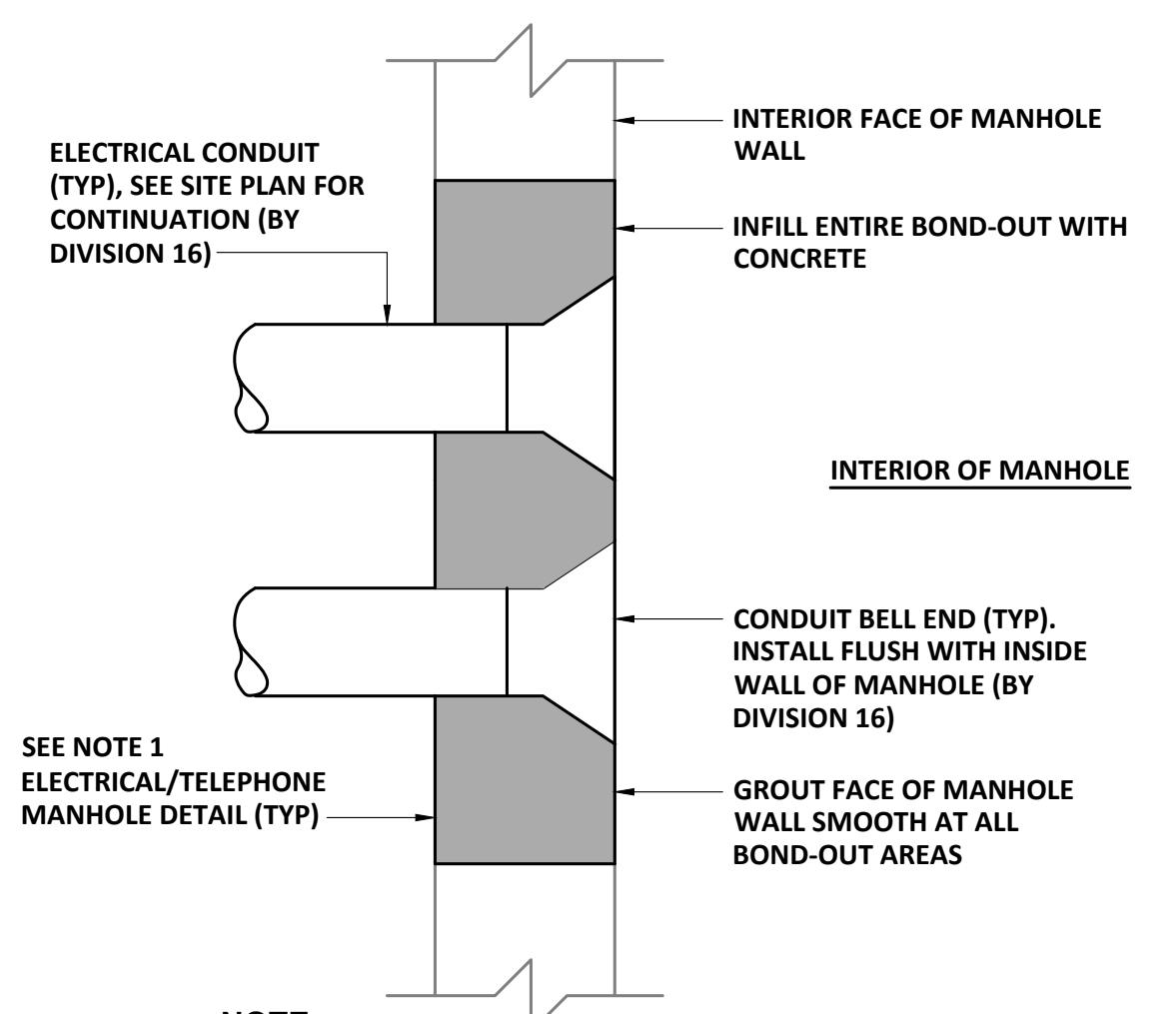


**GRASSPAVE DETAIL**  
NTS

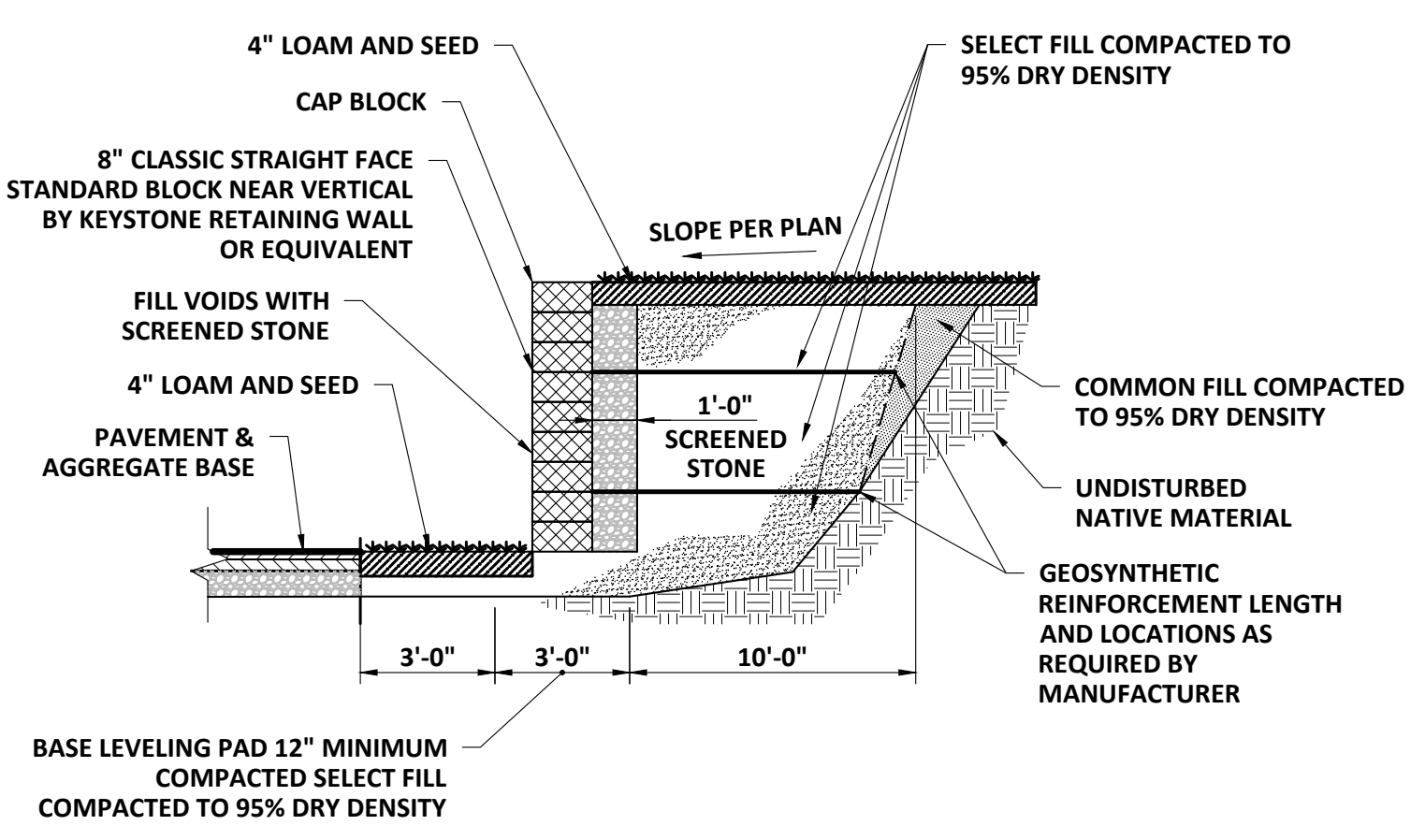
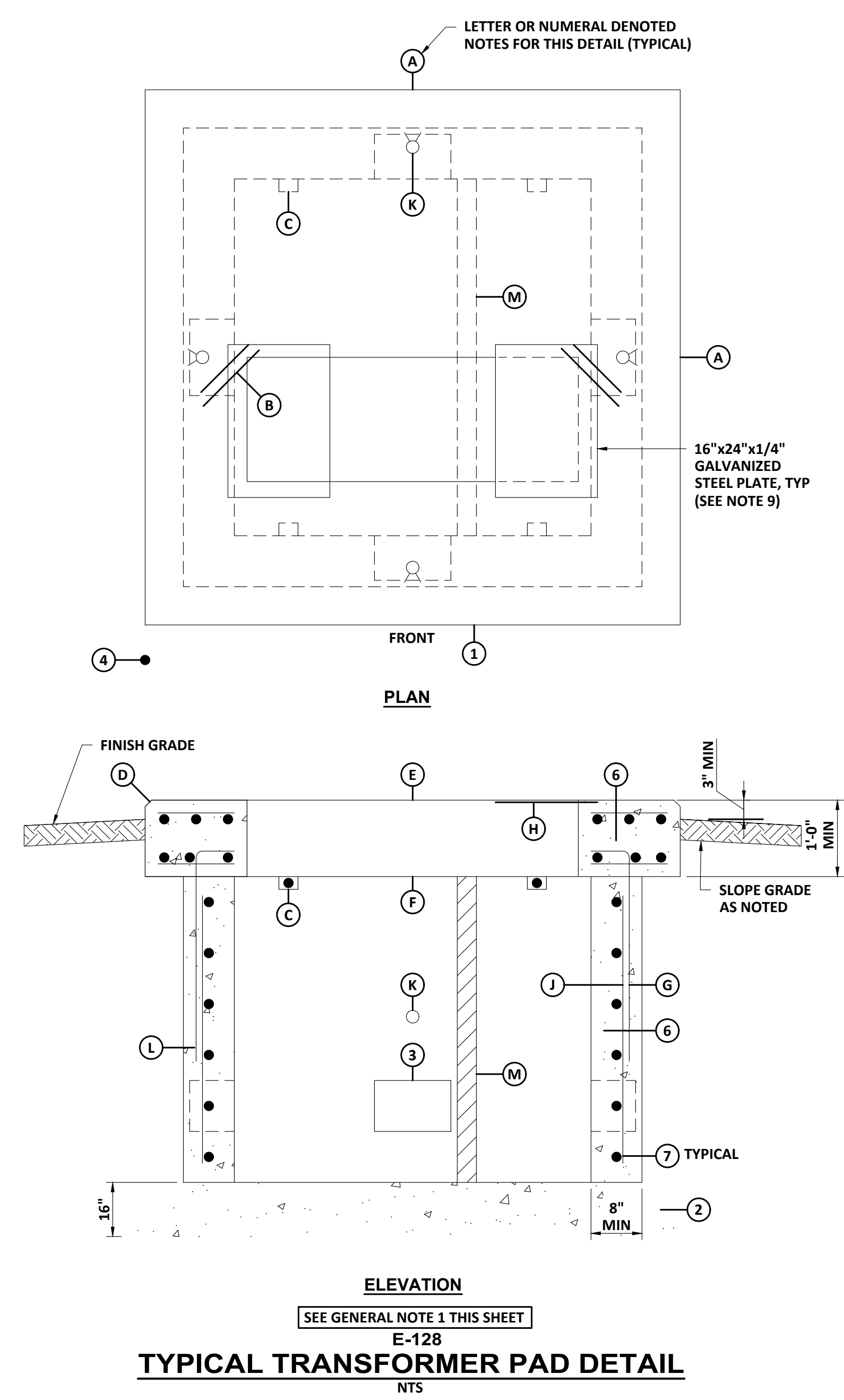


**MANHOLE NOTES:**

- ELECTRICAL MANHOLE DETAILS AND SIZING HAVE BEEN SHOWN AS NOTED ON THIS DRAWING. FURNISH AND INSTALL THESE STRUCTURES IN ORDER TO PROVIDE CONDUIT AND CABLE INSTALLATIONS TO THE REQUIRED EQUIPMENT FOR THIS PROJECT. THE SITE CONDITIONS ARE VERY LIMITED FOR SPACE AND THEREFORE ADJUSTMENTS IN THE FINAL OVERALL DIMENSION AND LOCATIONS OF THESE STRUCTURES NEEDS TO BE COORDINATED WITH DIVISION 16. PRIOR TO SUBMITTING THESE STRUCTURES COORDINATE WITH DIVISION 16 AS TO THE FINAL CONDUIT ROUTING, BOND OUT OPENINGS, LOCATIONS AND SPACE REQUIREMENTS WITHIN THESE STRUCTURES IN ORDER TO MEET NATIONAL ELECTRIC CODE (NEC) REQUIREMENTS FOR PROPER CABLE PULLS AND INSTALLATION. THIS SHALL BE REQUIRED FOR FINAL OVERALL DIMENSIONS OF STRUCTURES.
- THE BOND OUT OPENINGS, DIMENSIONS AND HEIGHT ELEVATIONS SHALL BE COORDINATED AND SIZED WITH DIVISION 16. COORDINATE FINAL DIMENSIONS, ELEVATIONS AND LOCATIONS WITH DIVISION 16 FOR THE ENTIRE INSTALLATION OF ALL UNDERGROUND ELECTRICAL STRUCTURES AND INSTALLATIONS.
- THE ELECTRICAL MANHOLE COVER SHALL BE STAMPED WITH THE LETTERING WHICH STATES "ELECTRIC". OTHER MANHOLE COVERS SHALL BE STAMPED WITH THE LETTERING WHICH STATES "TELEPHONE, SIGNAL OR CONTROL". AS APPLICABLE.



**ELECTRICAL MANHOLE CONDUIT ENTRANCE DETAIL**  
NTS



**KEYSTONE RETAINING WALL**  
SCALE: NTS

I CERTIFY THAT THIS PLAN CONFORMS WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS.  
SIGNATURE: \_\_\_\_\_  
APPROVED BY THE DEVENS ENTERPRISE COMMISSION: \_\_\_\_\_ DATE: \_\_\_\_\_  
CHAIRMAN: \_\_\_\_\_

**NOTES (TYPICAL TRANSFORMER PAD DETAIL):**

- "FRONT" DENOTES THE SIDE ON WHICH THE ACCESS DOORS ARE LOCATED. THE FOUNDATION MUST BE LOCATED SO THAT THE "FRONT" IS ACCESSIBLE BY TRUCK AND SUITABLY PROTECTED FROM PLOW AND TRUCK DAMAGE.
  - THE CONCRETE BASE SHALL BE SET ON A SUITABLE GRAVEL BASE AS NOTED. PROVIDE ADEQUATE DRAINAGE AWAY FROM THE BASE. FINISH GRADE SHALL BE GRADED AWAY FROM THE FOUNDATION.
  - PROVIDE CONDUIT BOND OUTS (SIZED AS REQUIRED FOR INSTALLATION) A MINIMUM OF 8" (TO BOTTOM) UP THE WALL FROM THE BASE. LOCATE A MINIMUM OF ONE BOND OUT PER WALL, MORE IF NECESSARY. LINE UP THE BOND OUTS WITH THE TRENCH AND DUCT BANKS AS INDICATED AND SHOWN ON THE DRAWINGS.
  - PROVIDE 3/4"x10'-0" COPPER CLAD STEEL GROUND ROD INSTALLED AS SHOWN ON THE GROUNDING PLAN THIS SHEET FOR THE TRANSFORMER PAD FOUNDATION. THE TOP OF THE GROUND ROD SHALL BE DRIVEN VERTICALLY TO 6" BELOW FINISHED GRADE.
  - PROVIDE A GROUND WIRE FROM THE GROUND GRID THROUGH THE CABLE HOLE AT THE BOTTOM OF THE PAD AS SHOWN ON THE GROUNDING PLAN THIS SHEET. ENOUGH GROUND WIRE SHALL BE PROVIDED SUCH THAT IT CAN BE INSTALLED THROUGH THE TWO GROUNDING LUGS AND CONNECTED TO THE NEUTRAL SPADE OF THE TRANSFORMER.
  - CONCRETE COMPRESSIVE STRENGTH SHALL BE 4000 PSI @ 28 DAYS. FOR CAST-IN-PLACE EARLY HIGH STRENGTH MAY BE USED WITH A MINIMUM OF SEVEN DAY CURE TIME.
  - REINFORCING STEEL TO HAVE: FY=60 KSI.
  - FOR PRECAST UNITS: THE PRECAST SUPPLIER SHALL PROVIDE LIFTING LUGS IN THE SLAB FOUNDATION AND BASE. THE PRECAST SUPPLIER SHALL ASSEMBLE THE SLAB TO THE BASE PRIOR TO SHIPPING TO THE SITE TO ENSURE THAT THE SLAB AND BASE FIT PROPERLY (WITH NO ROCKING OF THE BASE EVIDENT).
  - THE FOUNDATION SUPPLIER SHALL SUPPLY A 16"x24"x1/4" GALVANIZED STEEL PLATE TO COVER A PORTION OF THE CABLE HOLE WHEN THE TRANSFORMER DOES NOT COMPLETELY COVER IT. THE GENERAL CONTRACTOR MAY BE REQUIRED TO CUT THE STEEL PLATE.
- A. #5 REBAR 12" ON CENTER EVENLY SPACED EACH WAY TOP AND BOTTOM.  
B. 2 #4 CORNER DIAGONAL REBAR 2'-0" LONG TOP AND BOTTOM.  
C. 4"x4"x1/2" ANGLE 6" LONG WITH (2) 3/4" DIAMETER EXPANSION ANCHORS TYPICAL - 4 PLACES (TWO PIECE PRECAST ONLY).  
D. CHAMFER TYPICAL  
E. 2" CONCRETE COVER OVER TOP REBAR.  
F. 3" CONCRETE COVER OVER BOTTOM REBAR  
G. #5 L-BAR @ 12" (CAST-IN-PLACE ONLY).  
H. 16"x24"x1/4" GALVANIZED STEEL PLATE.  
I. 6x6 WWM @ CENTER OF COVER.  
J. #5 REBAR ON 12" CENTERS.  
K. PULLING EYE INSERT, FOR USE WITH 3/4" NATIONAL COURSE THREAD EYE-BOLT, (RICHMOND LCB-1 OR EQUIVALENT). LOCATED OPPOSITE EACH CABLE HOLE AND TWO FEET FROM THE BOTTOM.  
L. ALL REBAR ENDS SHALL BE COVERED BY A MINIMUM OF 1" OF CONCRETE.  
M. PROVIDE A SUITABLE (FULL LENGTH AND HEIGHT) BARRIER WALL SEPARATING THE PRIMARY FROM THE SECONDARY CONDUCTORS AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.  
N. ALL CONCRETE WORK SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 3. ALL EXCAVATION AND BACKFILLING SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 2. ALL WORK OF DIVISION 2 AND 3 HAS BEEN NOTED HERE FOR COORDINATION PURPOSES WITH DIVISION 16 - ELECTRICAL.  
O. THESE DETAILS ARE FOR BIDDING PURPOSES ONLY. THE CONTRACTOR SHALL OBTAIN TYPICAL VAULT CONSTRUCTION DETAILS FROM THE UTILITY COMPANY AND TRANSFORMER MANUFACTURER SUPPLIER AND SHALL PERFORM ALL WORK FROM THESE DETAILS. THE CONTRACTOR SHALL COORDINATE VAULT SIZES AND CONDUIT AND CABLE ENTRANCES WITH THE EQUIPMENT BEING FURNISHED AT EACH LOCATION SHOWN ON THE DRAWINGS.

**GENERAL NOTES:**

- FOR ELECTRICAL LEGEND, ABBREVIATIONS, AND ADDITIONAL GENERAL DEMOLITION NOTES AND GENERAL NOTES, REFER TO DRAWINGS E-1 AND E-2.
- ALL PRE-CAST PRIMARY ELECTRICAL MANHOLES, ELECTRICAL AND TELEPHONE MANHOLES, EXCAVATIONS, BEDDING, BACKFILLING AND COMPLETE INSTALLATIONS SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 2. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL REQUIREMENTS FOR A COMPLETE AND ACCEPTABLE INSTALLATION.

APPLICANT: MASSDEVELOPMENT  
ADDRESS: 33 ANDREWS PARKWAY  
DEVENS, MA, 01434

OWNER OF RECORD: MDFA/PATTON WELL  
ADDRESS: 99 HIGH STREET, 11TH FLOOR  
PARCEL# 010.0-0099-0200.0  
BOSTON, MA 02110

DESIGNER OF RECORD:  
WRIGHT-PIERCE  
ATTN: JIM CRAY, PE  
600 FEDERAL STREET  
ANDOVER, MA 01810

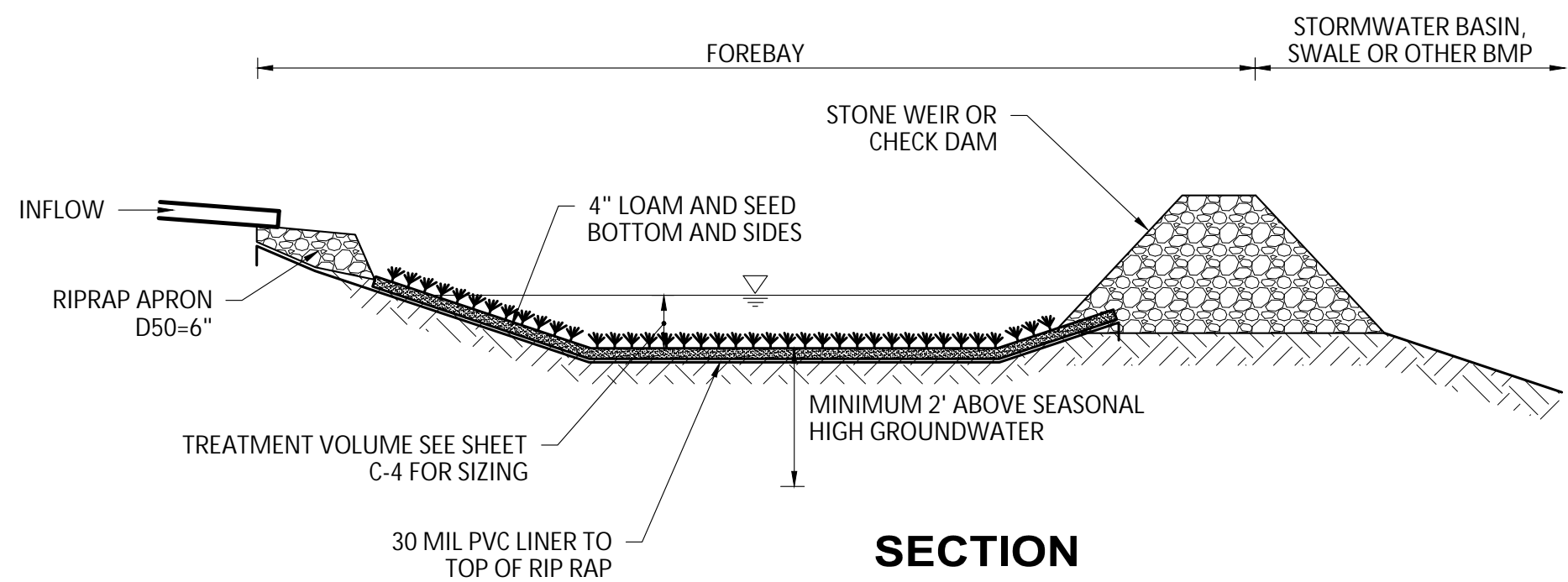
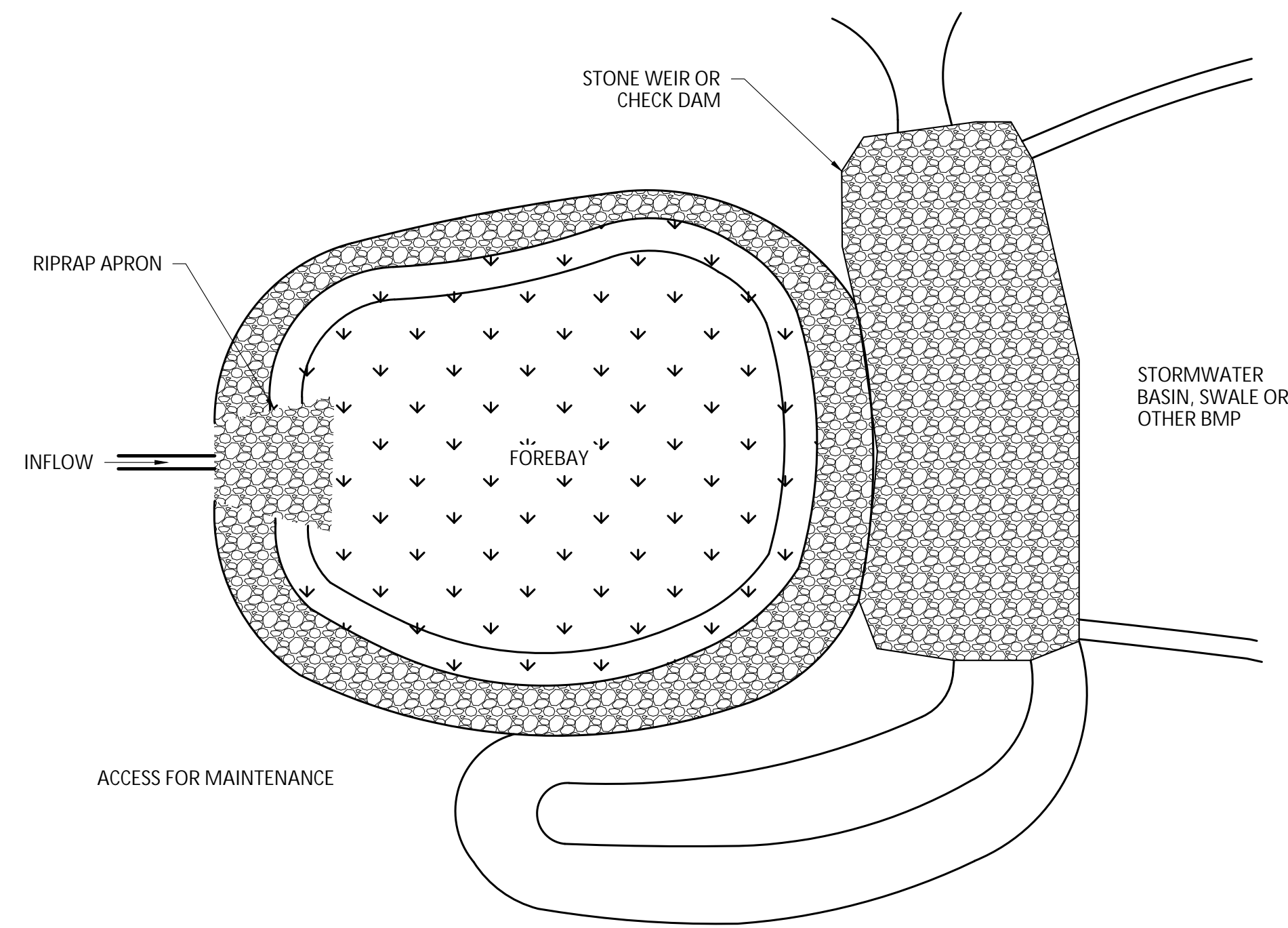
APP'D	DATE
J.CRA	10/20
SUBMISSIONS/REVISIONS	
NO	UNIFIED PERMIT
DESIGNED BY: C.DAI	W.BAI
CAD CORP: C.CHIN	L.WANT
CHECKED BY: J.CRA	DATE: 10/20
APPROVED BY: J.CRA	DATE: 10/20
PROJECT NO: 14083H	

MASSDEVELOPMENT  
DEVENS, MASSACHUSETTS  
PATTON WATER TREATMENT PLANT

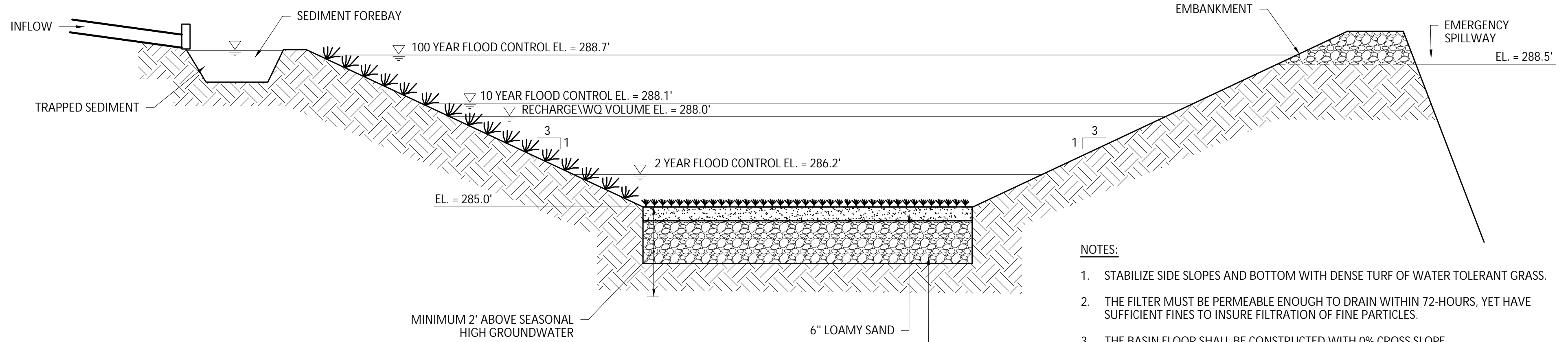
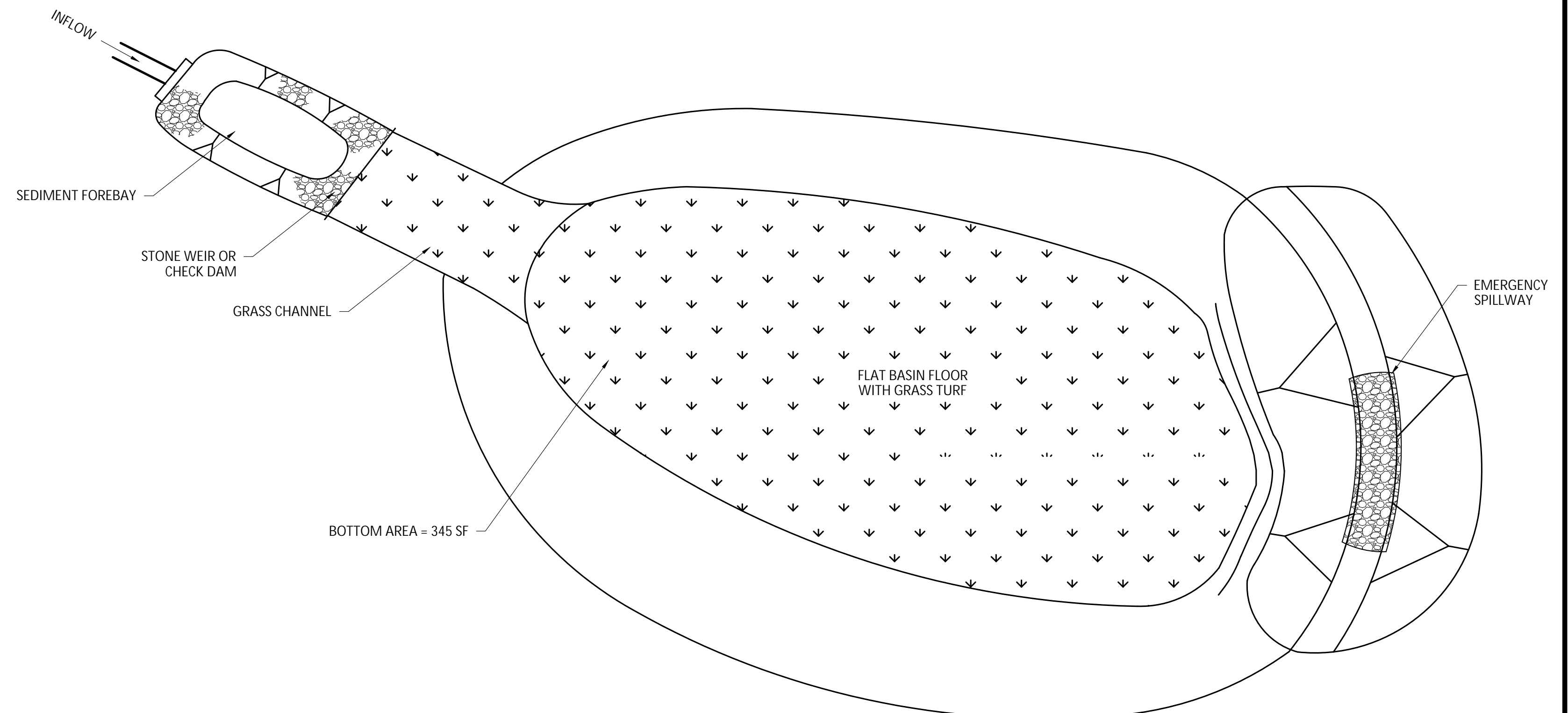
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DETAILS III

DRAWING  
C-11

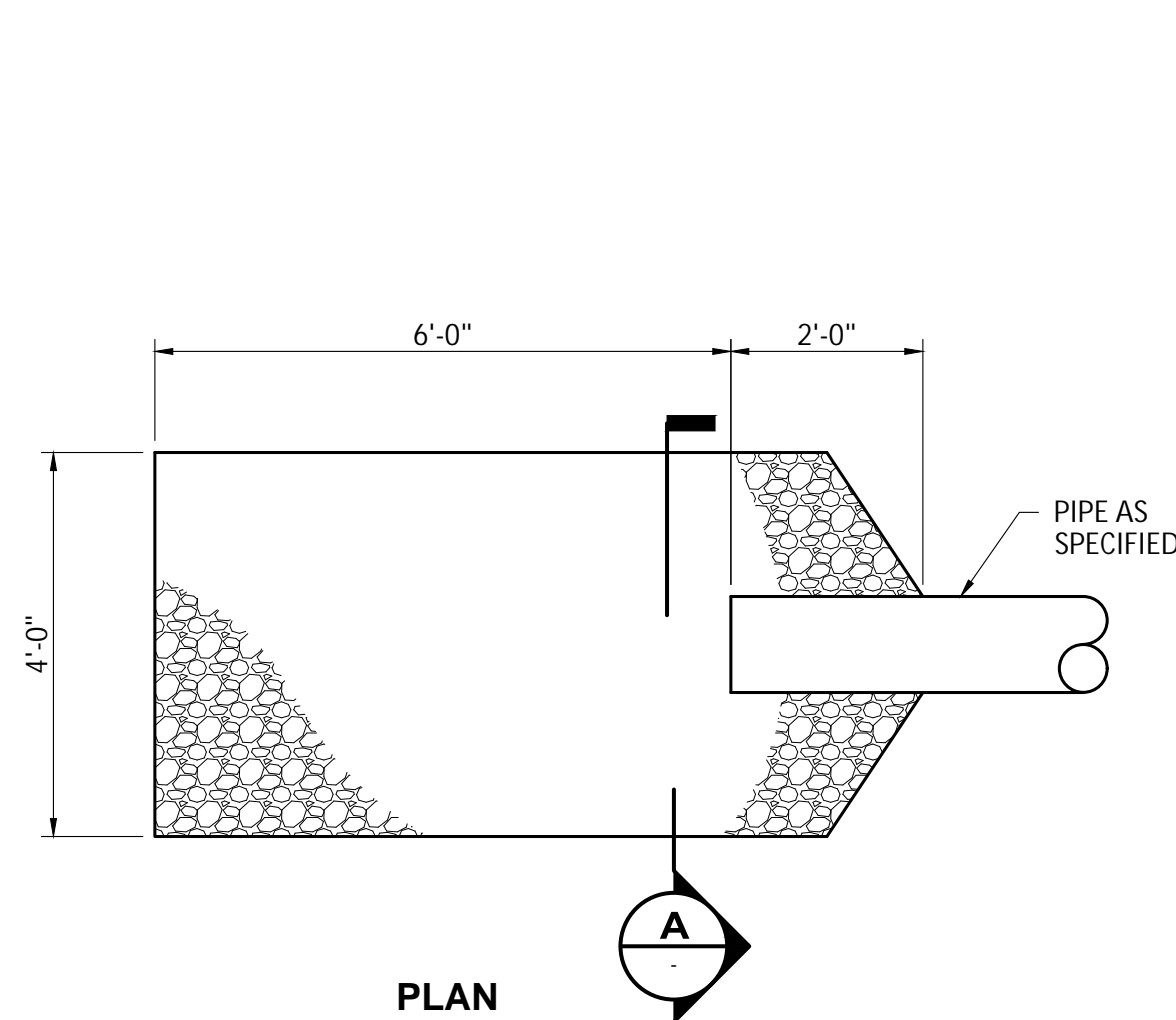


**SEDIMENT FOREBAY**  
NTS

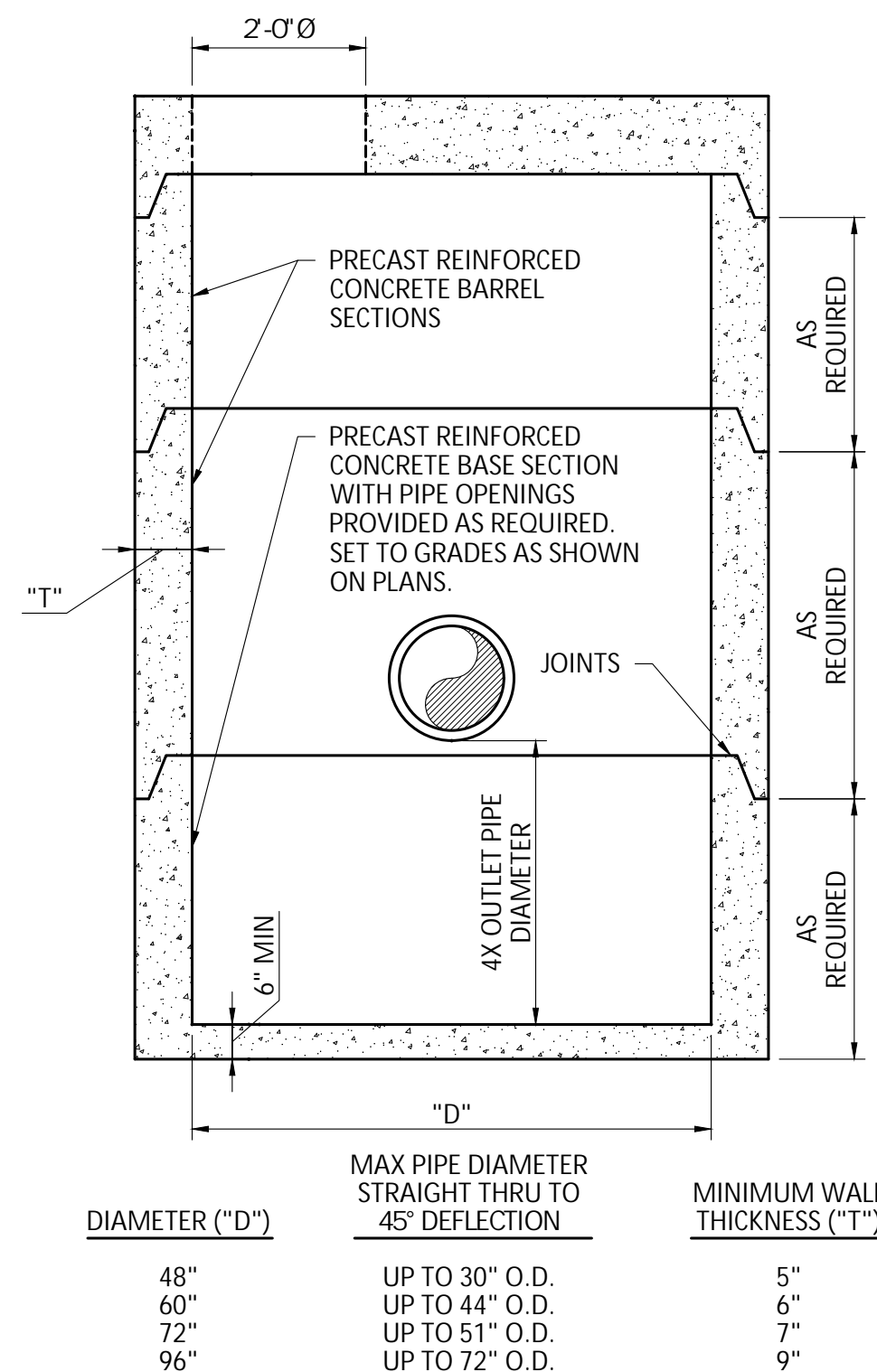


**SECTION**  
**INFILTRATION BASIN**  
NTS

- NOTES:**
1. STABILIZE SIDE SLOPES AND BOTTOM WITH DENSE TURF OF WATER TOLERANT GRASS.
  2. THE FILTER MUST BE PERMEABLE ENOUGH TO DRAIN WITHIN 72-HOURS, YET HAVE SUFFICIENT FINES TO INSURE FILTRATION OF FINE PARTICLES.
  3. THE BASIN FLOOR SHALL BE CONSTRUCTED WITH 0% CROSS SLOPE.
  4. INFILTRATION BASIN AND VEGETATION SHALL NOT BE INSTALLED UNTIL UPSTREAM AREA HAS BEEN STABILIZED UNLESS RUNOFF FROM CONTRIBUTING DRAINAGE AREA HAS BEEN DIVERTED.

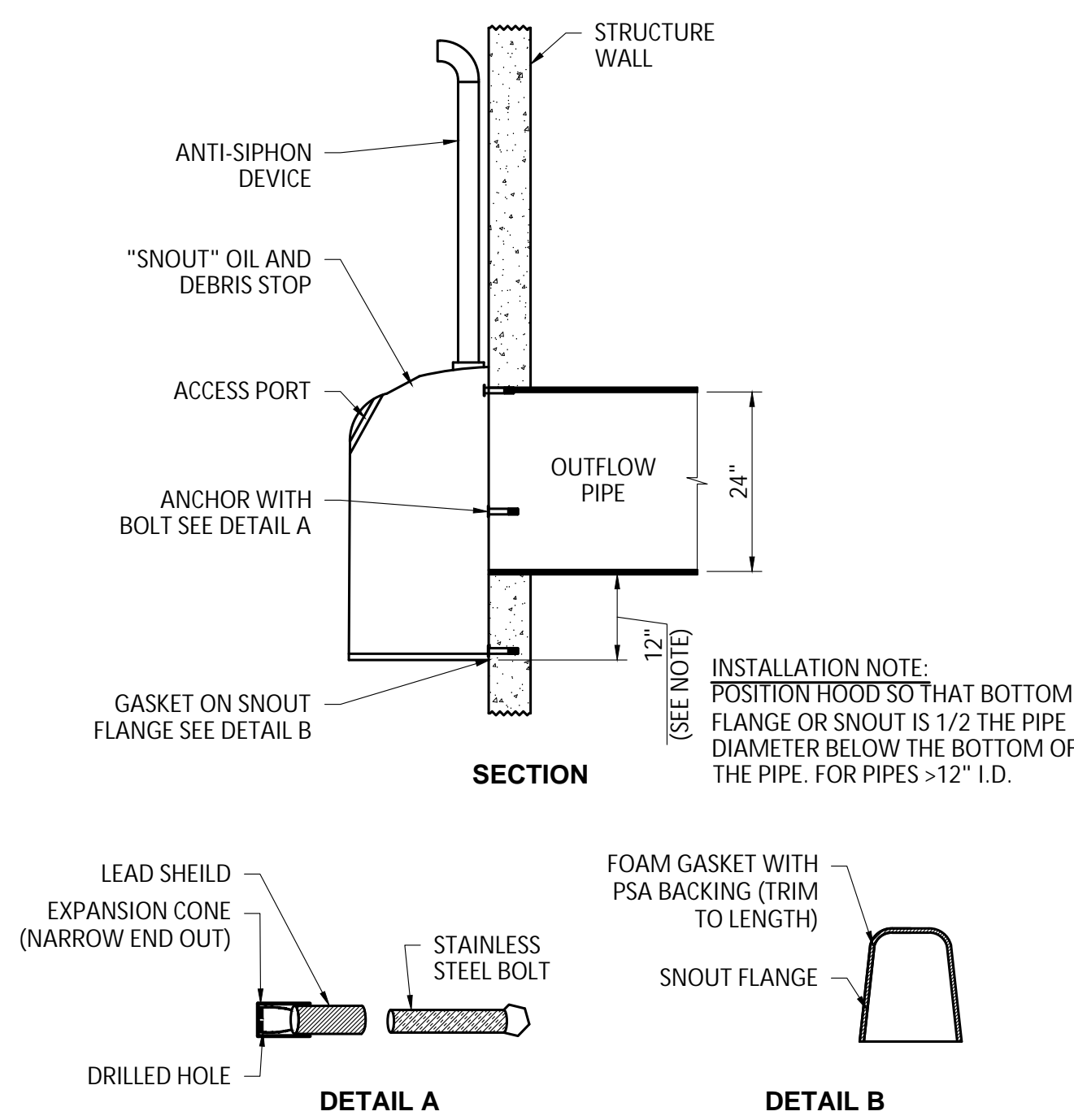


**SECTION A**  
**STONE INLET APRON**  
SCALE: NTS



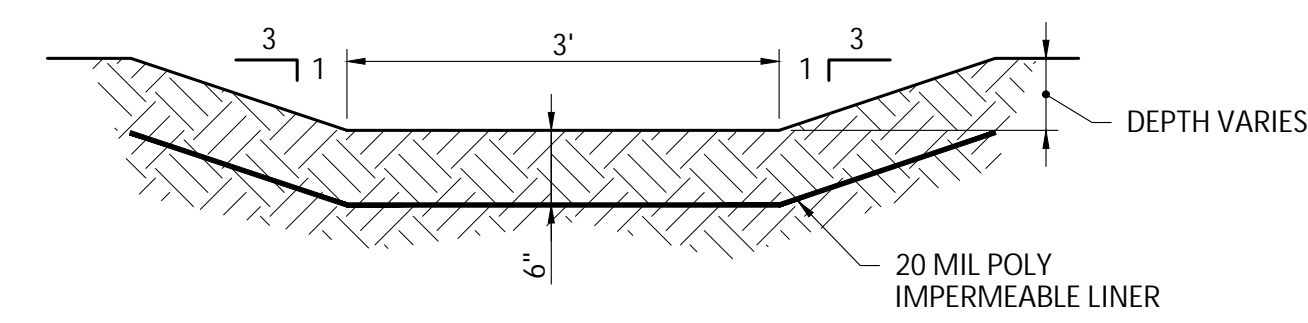
**DEEP SUMP CATCH BASIN**  
SCALE: "NTS"

DIAMETER ("D")	MAX PIPE DIAMETER STRAIGHT THRU TO 45° DEFLECTION	MINIMUM WALL THICKNESS ("T")
48"	UP TO 30" O.D.	5"
60"	UP TO 44" O.D.	6"
72"	UP TO 51" O.D.	7"
96"	UP TO 72" O.D.	9"



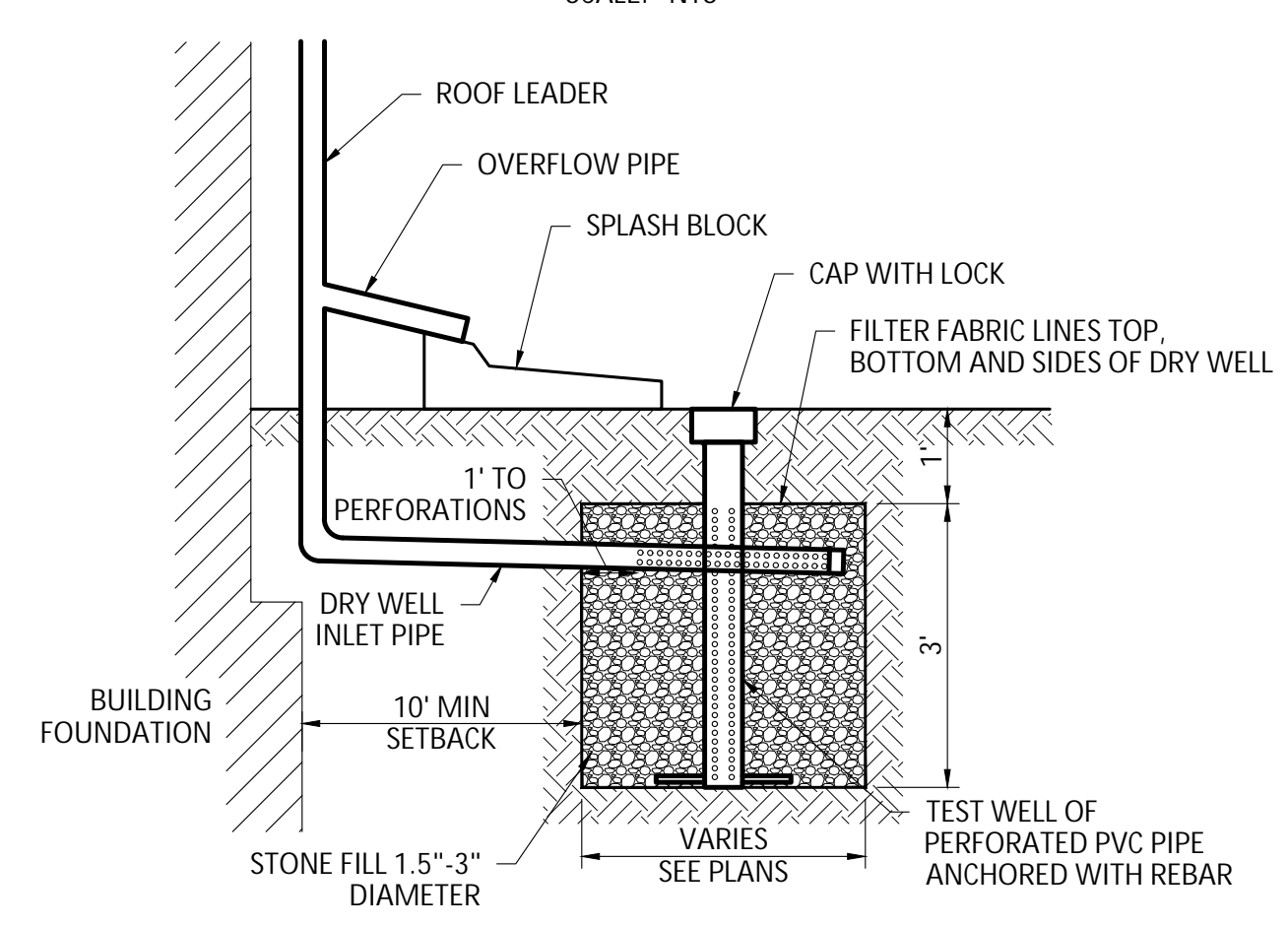
**INSTALLATION NOTE:** POSITION HOOD SO THAT BOTTOM FLANGE OR SNOUT IS 1/2 THE PIPE DIAMETER BELOW THE BOTTOM OF THE PIPE. FOR PIPES >12" I.D.

**CATCH BASIN TRAP DETAIL**  
SCALE: NTS



**SWALE**  
SCALE: "NTS"

**NOTE:** STABILIZE SIDE SLOPES AND BOTTOM WITH DENSE TURF OF WATER TOLERANT GRASS



**DRYWELL**  
SCALE: "NTS"

**APPLICANT: MASSDEVELOPMENT**  
ADDRESS: 33 ANDREWS PARKWAY  
DEVENS, MA, 01434

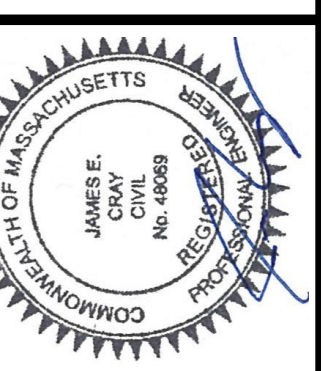
**OWNER OF RECORD: MDFA/PATTON WELL**  
ADDRESS: 99 HIGH STREET, 11TH FLOOR  
PARCEL# 010.0-0099-0200.0  
BOSTON, MA 02110

**DESIGNER OF RECORD:**  
WRIGHT-PIERCE  
ATTN: JIM CRAY, PE  
600 FEDERAL STREET  
ANDOVER, MA 01810

I CERTIFY THAT THIS PLAN CONFORMS WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS.  
SIGNATURE: \_\_\_\_\_  
APPROVED BY THE DEVENS ENTERPRISE COMMISSION: \_\_\_\_\_ DATE: \_\_\_\_\_  
CHAIRMAN: \_\_\_\_\_

NO	DATE	REVISIONS

DESIGNED BY: C. DAL  
CAD CORP.: W. BAI  
CHECKED BY: L. ANT  
DATE: \_\_\_\_\_  
APPROVED BY: J. CRA  
DATE: \_\_\_\_\_  
PROJECT NO.: 14083H



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DETAILS IV

**DRAWING**  
C-12

### EROSION AND SEDIMENTATION CONTROL NOTES

THIS PLAN HAS BEEN DEVELOPED AS A STRATEGY TO CONTROL SOIL EROSION AND SEDIMENTATION DURING AND AFTER CONSTRUCTION. THIS PLAN IS BASED ON THE STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION IN URBAN AND SUBURBAN AREAS AS CONTAINED IN THE "MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS", FRANKLIN, HAMPDEN, HAMPSHIRE CONSERVATION DISTRICTS, DATED MARCH, 1997.

THE PROPOSED LOCATIONS OF SILTATION AND EROSION CONTROL STRUCTURES ARE SHOWN ON THE GRADING/EROSION CONTROL PLANS. PROVIDE SILT FENCE, STONE CHECK DAMS AND OTHER EROSION CONTROL MEASURES AS REQUIRED TO ADEQUATELY PREVENT SEDIMENT TRANSPORT AS NOTED IN THE BMP.

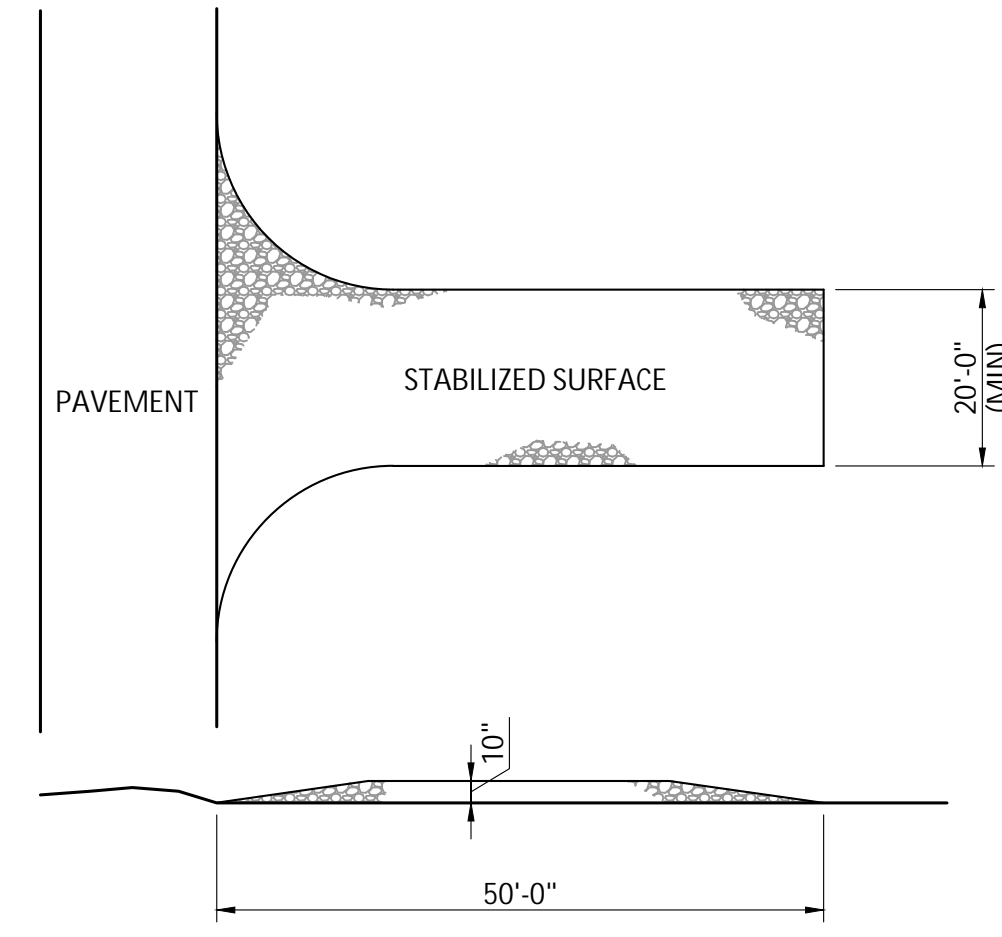
1. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE DONE IN ACCORDANCE WITH THE "MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS", FRANKLIN, HAMPDEN, HAMPSHIRE CONSERVATION DISTRICTS, DATED MARCH, 1997.
2. THOSE AREAS UNDERGOING ACTUAL CONSTRUCTION WILL BE MAINTAINED IN AN UNTREATED OR UNVEGETATED CONDITION FOR THE MINIMUM TIME REQUIRED. IN GENERAL, AREAS TO BE VEGETATED SHALL BE PERMANENTLY STABILIZED WITHIN 15 DAYS OF FINAL GRADING AND TEMPORARILY STABILIZED WITHIN 30 DAYS OF INITIAL DISTURBANCE OF THE SOIL.
3. INSTALL SILT FENCE AT TOE OF SLOPES TO FILTER SILT FROM RUNOFF. SEE SILT FENCE DETAIL FOR PROPER INSTALLATION. SILT FENCE WILL REMAIN IN PLACE PER NOTE #5.
4. ALL EROSION CONTROL STRUCTURES WILL BE INSPECTED, REPLACED AND/OR REPAIRED EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT OR WHEN NO LONGER SERVICEABLE DUE TO SEDIMENT ACCUMULATION OR DECOMPOSITION.
5. IF FINAL SEEDING OF THE DISTURBED AREAS IS NOT TO BE COMPLETED 30 DAYS PRIOR TO THE ANTICIPATED DATE OF THE FIRST KILLING FROST, USE TEMPORARY MULCHING (DORMANT SEEDING MAY BE ATTEMPTED AS WELL) TO PROTECT THE SITE AND DELAY PERMANENT SEEDING, UNTIL UPGRADIENT AREAS ARE STABILIZED.
6. WHEN FEASIBLE, TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINISH GRADED SHALL BE COMPLETED 30 DAYS PRIOR TO THE FIRST KILLING FROST.
7. DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT WILL BE RETURNED TO THE SITE AND REGRADED ONTO OPEN AREAS. POST SEEDING SEDIMENT, IF ANY, WILL BE DISPOSED OF IN AN ACCEPTABLE MANNER.
8. REVEGETATION MEASURES WILL COMMENCE UPON COMPLETION OF CONSTRUCTION EXCEPT AS NOTED ABOVE. ALL DISTURBED AREAS NOT OTHERWISE STABILIZED WILL BE GRADED, SMOOTHED, AND REVEGETATED AS FOLLOWS:
  - A. A MINIMUM OF FOUR (4) INCHES OF LOAM WILL BE SPREAD OVER DISTURBED AREAS AND SMOOTHED TO A UNIFORM SURFACE.
  - B. FOLLOWING SEED BED PREPARATION, DITCHES AND BACK SLOPES WILL BE SEED WITH A MIXTURE OF 47% CREEPING RED FESCUE, 5% REDTOP, AND 48% TALL FESCUE. THE LAWN AREAS WILL BE SEED WITH A PREMIUM TURF MIXTURE OF 44% KENTUCKY BLUEGRASS, 44% CREEPING RED FESCUE, AND 12% PERENNIAL RYE GRASS. SEEDING RATE IS 3.0 LBS PER 1000 SQ. FT. LAWN QUALITY SOD MAY BE SUBSTITUTED FOR SEED.
  - C. HAY MULCH AT THE RATE OF 70-90 LBS PER 1000 SQUARE FEET OR A HYDRO-APPLICATION OF CELLULOSE FIBER SHALL BE APPLIED FOLLOWING SEEDING. A SUITABLE BINDER WILL BE USED ON HAY MULCH FOR WIND CONTROL.
9. WETLANDS WILL BE PROTECTED WITH SILT FENCE INSTALLED AT THE EDGE OF THE WETLAND OR THE BOUNDARY OF WETLAND DISTURBANCE.
10. IN GENERAL, AREAS WITHIN 100 FEET OF DELINEATED WETLANDS OR STREAMS SHALL HAVE A MAXIMUM PERIOD OF EXPOSURE OF NOT MORE THAN 15 DAYS.
11. FOLLOW APPROPRIATE EROSION CONTROL MEASURES PRIOR TO EACH STORM IN ALL AREAS WITHIN 100 FEET OF DELINEATED WETLANDS OR STREAMS.

### DEC EROSION AND SEDIMENTATION CONTROL NOTES

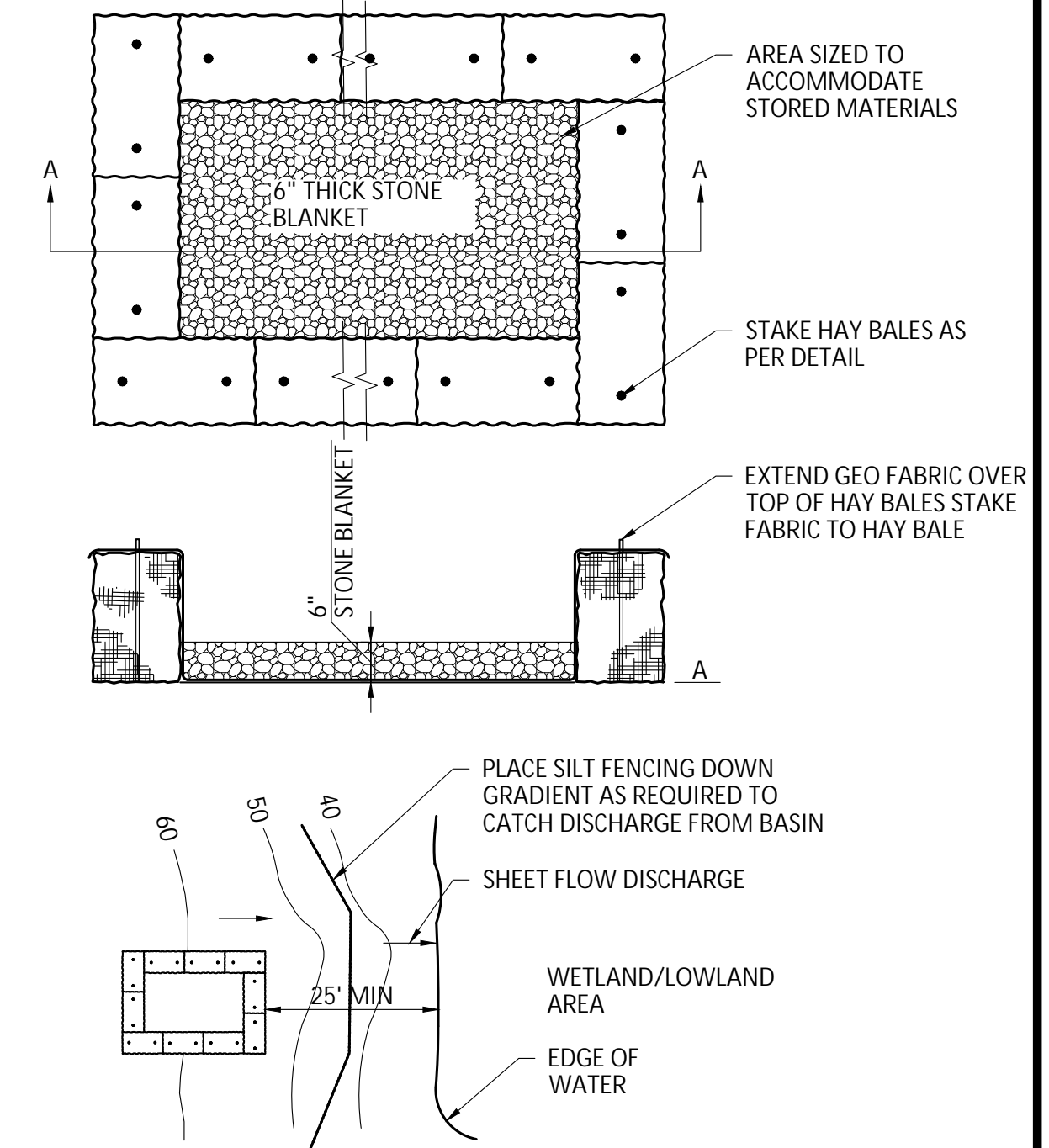
- a. PRIOR TO ANY LAND DISTURBANCE ACTIVITIES COMMENCING ON THE SITE, THE APPLICANT/CONTRACTOR SHALL BE RESPONSIBLE FOR PHYSICALLY MARKING THE LIMITS OF CONSTRUCTION ON THE SITE WITH TAPE, SIGNS, OR ORANGE CONSTRUCTION FENCE, SO THAT WORKERS UNDERSTAND THE AREAS TO BE PROTECTED. THE PHYSICAL MARKERS SHALL BE INSPECTED DAILY AND REPAIRED AS NECESSARY THROUGHOUT THE DURATION OF THE PROJECT.
- b. PERIMETER SEDIMENT CONTROL SYSTEM SHALL BE INSTALLED PRIOR TO SOIL DISTURBANCE AND MAINTAINED TO CONTAIN SOILS ON-SITE. AREAS OUTSIDE OF THE PERIMETER SEDIMENT CONTROL SYSTEM MUST NOT BE DISTURBED UNLESS THE APPLICANT HAS OBTAINED PRIOR APPROVAL FROM THE DEC.
- c. MEASURES SHALL BE TAKEN TO CONTROL EROSION WITHIN THE PROJECT AREA. SEDIMENT IN RUNOFF WATER SHALL BE TRAPPED AND RETAINED WITHIN THE PROJECT AREA AND STREET SWEEPING OF ADJACENT STREETS AND ROADS SHALL BE INCLUDED WHERE NECESSARY.
- d. ALL RESOURCE AREAS SHALL BE PROTECTED FROM SEDIMENT.
- e. MONITORING AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT THE COURSE OF CONSTRUCTION SHALL BE REQUIRED. SEDIMENT SHALL BE REMOVED ONCE THE VOLUME REACHES 1/4 TO 1/2 THE HEIGHT OF THE EROSION CONTROL.
- f. DIVERT RUNOFF FROM OFFSITE AND UNDISTURBED AREAS AWAY FROM CONSTRUCTION TO MINIMIZE SOIL EROSION AND SEDIMENTATION ON AND OFF-SITE. TEMPORARILY STABILIZE ALL HIGHLY ERODIBLE SOILS AND SLOPES IMMEDIATELY.
- g. LAND DISTURBANCE ACTIVITIES EXCEEDING TWO ACRES IN SIZE SHALL NOT BE DISTURBED WITHOUT A SEQUENCING PLAN THAT REQUIRES STORMWATER CONTROLS TO BE INSTALLED AND EXPOSED SOILS STABILIZED, AS DISTURBANCE BEYOND THE TWO ACRES CONTINUES. A CONSTRUCTION PHASING PLAN, INCLUDING EROSION AND SEDIMENT CONTROL PLAN FOR EACH PHASE, SHALL BE SUBMITTED TO THE DEC PRIOR TO ANY CONSTRUCTION ON THE SITE. MASS CLEARINGS AND GRADING OF THE ENTIRE SITE SHALL BE AVOIDED.
- h. SOIL STOCKPILES MUST BE STABILIZED OR COVERED AT THE END OF EACH WORKDAY. STOCKPILE SIDE SLOPES SHALL NOT BE GREATER THAN 2:1. ALL STOCKPILES SHALL BE SURROUNDED BY SEDIMENT CONTROLS.
- i. DISTURBED AREAS REMAINING IDLE FOR MORE THAN 14 DAYS SHALL BE TEMPORARILY OR PERMANENTLY STABILIZED.
- j. PERMANENT SEEDING SHALL BE UNDERTAKEN IN THE SPRING FROM MARCH THROUGH MAY, AND IN LATE SUMMER AND EARLY FALL FROM AUGUST TO OCTOBER 15. DURING THE PEAK SUMMER MONTHS AND IN THE FALL AFTER OCTOBER 15, WHEN SEEDING IS FOUND TO BE IMPRACTICAL, AN APPROPRIATE TEMPORARY MULCH AND/OR NON-ASPHALTIC SOIL TACKIFIER WITH WINTER RYE SHALL BE APPLIED. PERMANENT SEEDING MAY BE UNDERTAKEN DURING THE SUMMER IF PLANS PROVIDE FOR ADEQUATE MULCHING AND WATERING.
- k. ANTI-TRACKING PAD(S) SHALL BE CONSTRUCTED AT ALL ENTRANCE/EXIST POINTS OF THE SITE TO REDUCE THE AMOUNT OF SOIL CARRIED ONTO ROADWAYS AND OFF THE SITE. DUST SHALL ALSO BE CONTROLLED AT THE SITE.
- l. ALL SLOPES STEEPER THAN 3:1 (H:V, 33.3%), AS WELL AS PERIMETER DIKES, SEDIMENT BASINS OR TRAPS, AND EMBANKMENTS MUST, UPON COMPLETION, BE IMMEDIATELY STABILIZED WITH SOD, SEED AND ANCHORED STRAW MULCH, OR OTHER APPROVED STABILIZATION MEASURES.
- m. TEMPORARY SEDIMENT TRAPPING DEVICES MUST NOT BE REMOVED UNTIL PERMANENT STABILIZATION IS ESTABLISHED IN ALL CONSTRUCTION AREAS ASSOCIATED WITH THE PROJECT. SIMILARLY, STABILIZATION MUST BE ESTABLISHED PRIOR TO CONVERTING TEMPORARY SEDIMENT TRAPS/BASINS INTO PERMANENT (POST-CONSTRUCTION) STORMWATER MANAGEMENT FACILITIES. ALL FACILITIES USED FOR TEMPORARY MEASURES SHALL BE CLEANED AND RE-STABILIZED PRIOR TO BEING PUT INTO FINAL OPERATION.
- n. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED AFTER FINAL SITE STABILIZATION. DISTURBED SOIL AREAS RESULTING FROM THE REMOVAL OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED WITHIN 30 DAYS OF REMOVAL.

### EROSION CONTROL DURING WINTER CONSTRUCTION

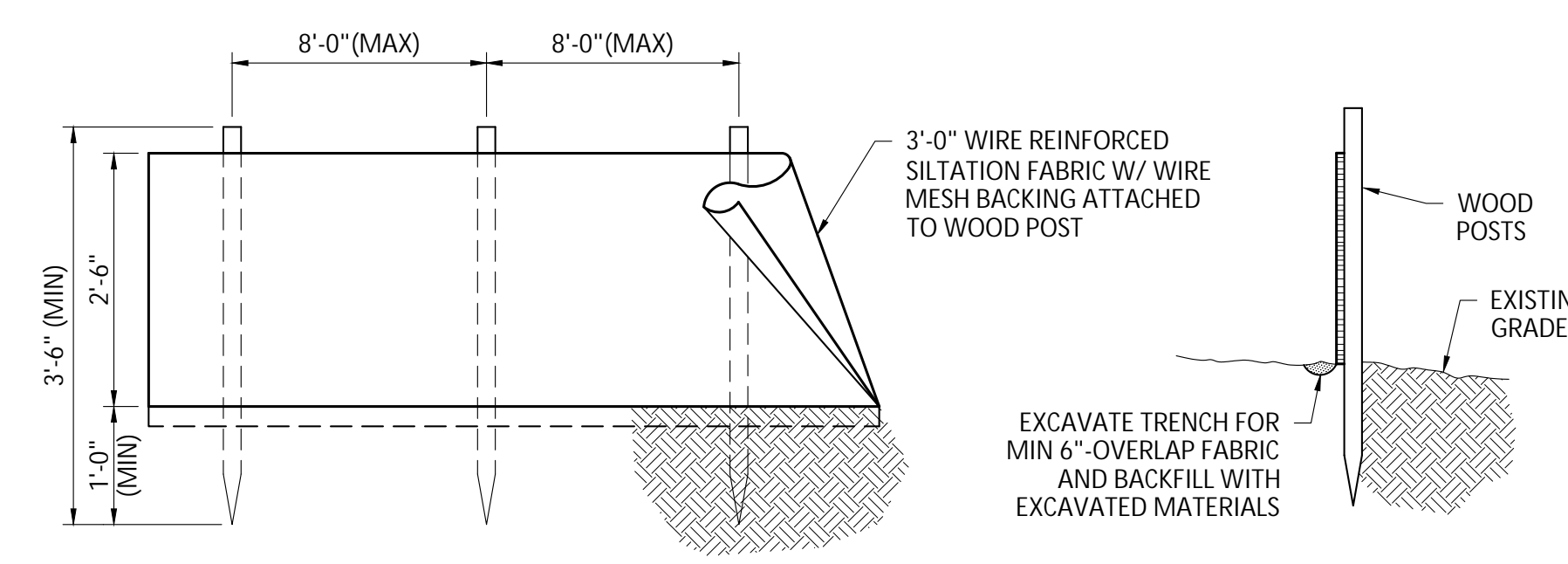
1. WINTER CONSTRUCTION PERIOD DEFINED: NOVEMBER 1 THROUGH APRIL 15.
2. WINTER EXCAVATION AND EARTHWORK SHALL BE DONE SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME.
3. EXPOSED AREA SHOULD BE LIMITED TO THAT WHICH CAN BE MULCHED IN ONE DAY PRIOR TO ANY PRECIPITATION EVENT.
4. AN AREA SHALL BE CONSIDERED TO HAVE BEEN STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH STRAW OR HAY AT A RATE OF 100 POUNDS PER 1,000 SQUARE FEET (WITH OR WITHOUT SEEDING) OR DORMANT SEED, MULCHED, AND ADEQUATELY ANCHORED BY AN APPROVED ANCHORING TECHNIQUE. IN ALL CASES, MULCH SHALL BE APPLIED SUCH THAT SOIL SURFACE IS NOT VISIBLE THROUGH THE MULCH.
5. BETWEEN THE DATES OF OCTOBER 15 AND APRIL 1, LOAM OR SEED WILL NOT BE REQUIRED. DURING PERIODS OF ABOVE-FREEZING TEMPERATURES, THE SLOPES SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEEDED AND MULCHED UNTIL SUCH TIME AS THE FINAL TREATMENT CAN BE APPLIED. IF THE DATE IS AFTER NOVEMBER 1 AND IF THE EXPOSED AREA HAS BEEN LOAMED, FINAL GRADED, AND IS SMOOTH, THEN THE AREA MAY BE DORMANT SEED AT A RATE 200%-300% HIGHER THAN SPECIFIED FOR PERMANENT SEED AND THEN MULCHED. IF CONSTRUCTION CONTINUES DURING FREEZING WEATHER, ALL EXPOSED AREAS SHALL BE GRADED BEFORE FREEZING AND THE SURFACE TEMPORARILY PROTECTED FROM EROSION BY THE APPLICATION OF MULCH. SLOPES SHALL NOT BE LEFT EXPOSED OVER THE WINTER OR ANY OTHER EXTENDED TIME OF WORK SUSPENSION UNLESS TREATED IN THE ABOVE MANNER. UNTIL SUCH TIME AS WEATHER CONDITIONS PERMIT, ALL DITCHES TO BE FINISHED WITH THE PERMANENT SURFACE TREATMENT, EROSION SHALL BE CONTROLLED BY THE INSTALLATION OF BALES OF HAY OR STONE CHECK DAMS IN ACCORDANCE WITH THE STANDARD DETAILS.
6. A) BETWEEN THE DATES OF NOVEMBER 1 AND APRIL 15, ALL MULCH SHALL BE EITHER WOOD CELLULOSE FIBER OR BE ANCHORED WITH MULCH NETTING OR CHEMICAL TACK.
  - B) MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH A SLOPE GREATER THAN 3%, FOR SLOPES EXPOSED TO DIRECT WINDS AND FOR ALL OTHER SLOPES GREATER THAN 8%.
  - C) MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 15%. AFTER OCTOBER 1, THE SAME APPLIES FOR ALL SLOPES GREATER THAN 8%.
7. AFTER NOVEMBER 1, THE CONTRACTOR SHALL APPLY DORMANT SEEDING OR MULCH AND ANCHORING ON ALL BARE EARTH AT THE END OF EACH WORKING DAY.
8. DURING WINTER CONSTRUCTION PERIODS, ALL SNOW SHALL BE REMOVED FROM AREAS OF SEEDING AND MULCHING PRIOR TO PLACEMENT.



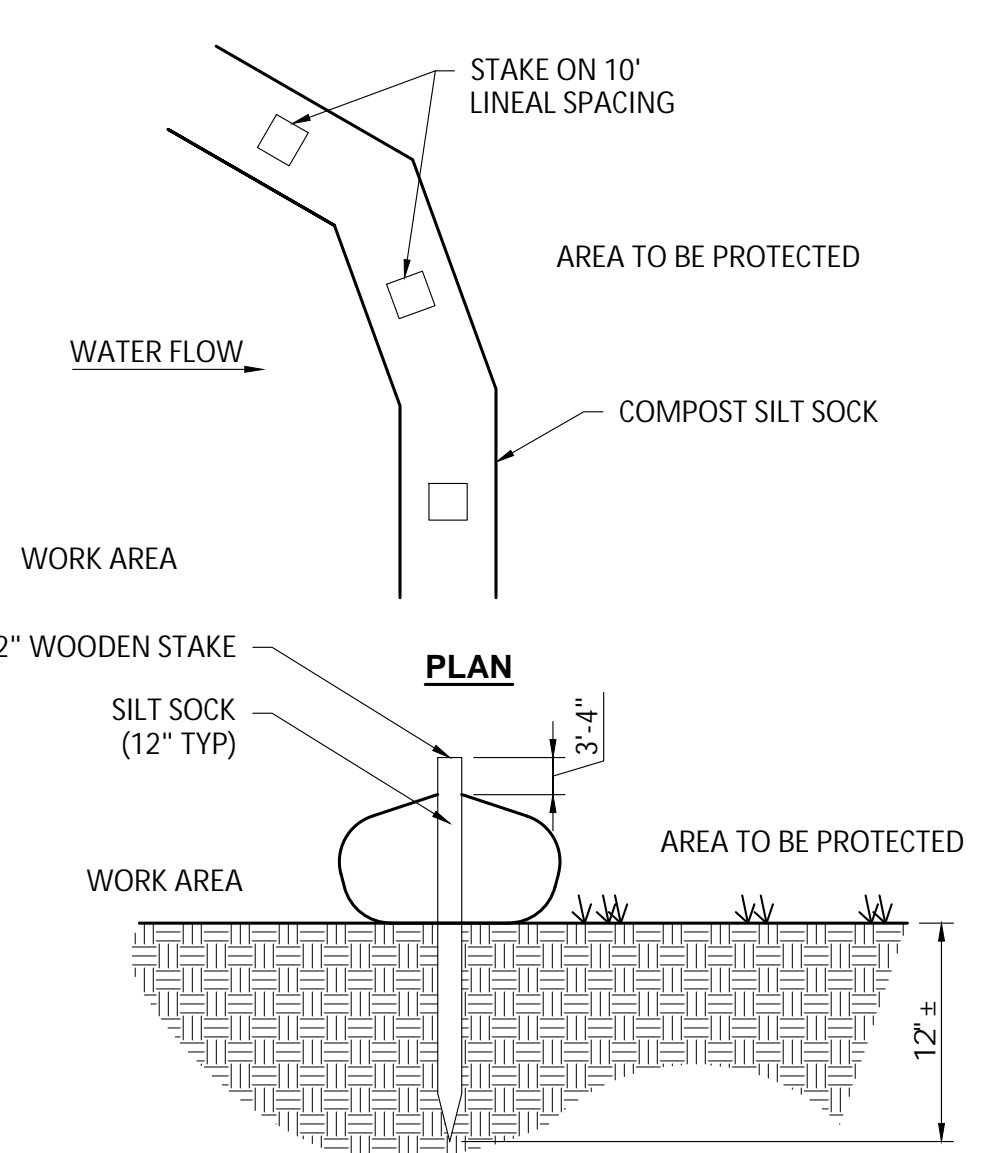
(TEMPORARY, TO BE REMOVED PRIOR TO FINAL SITE PAVING)  
**STABILIZED CONSTRUCTION ENTRANCE**  
SCALE: "NTS"



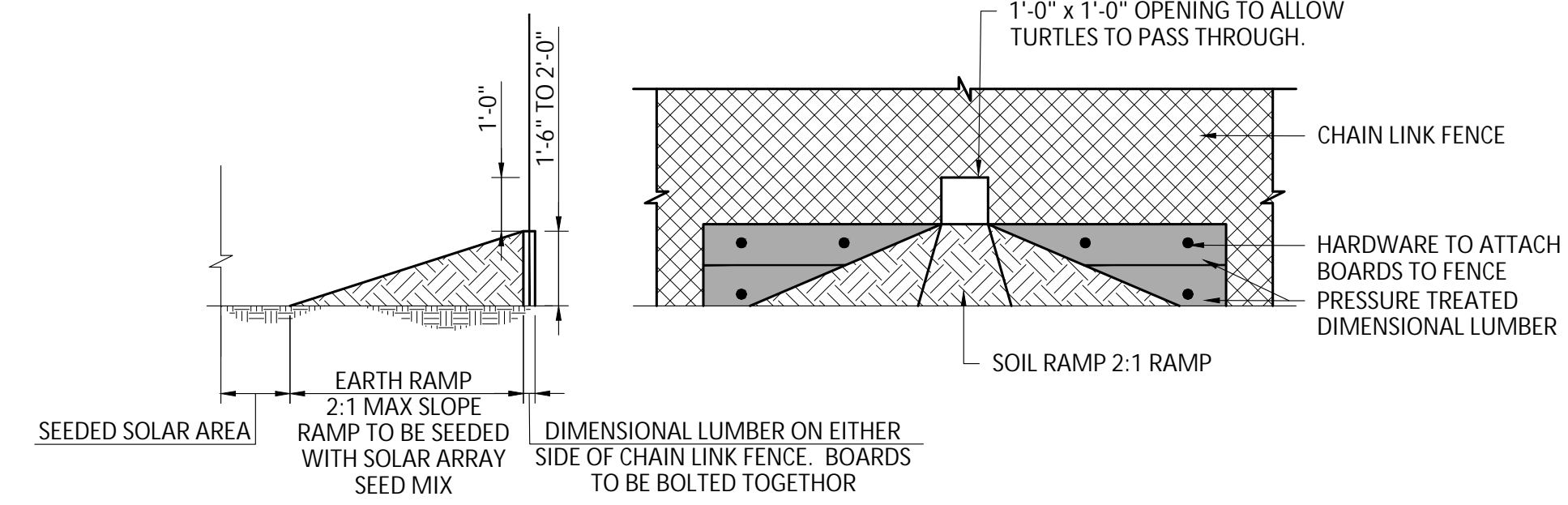
**TEMPORARY HAY BALE SEDIMENT BASIN**  
SCALE: "NTS"



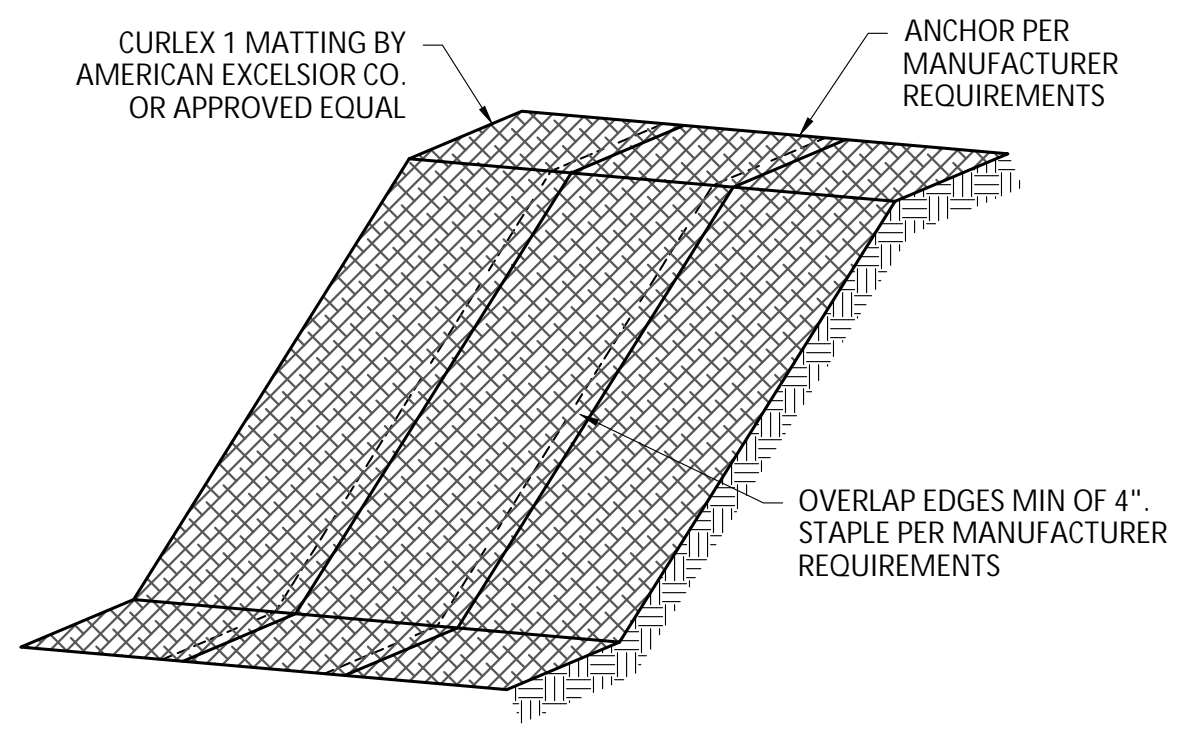
**SILT FENCE INSTALLATION DETAIL**  
SCALE: "NTS"



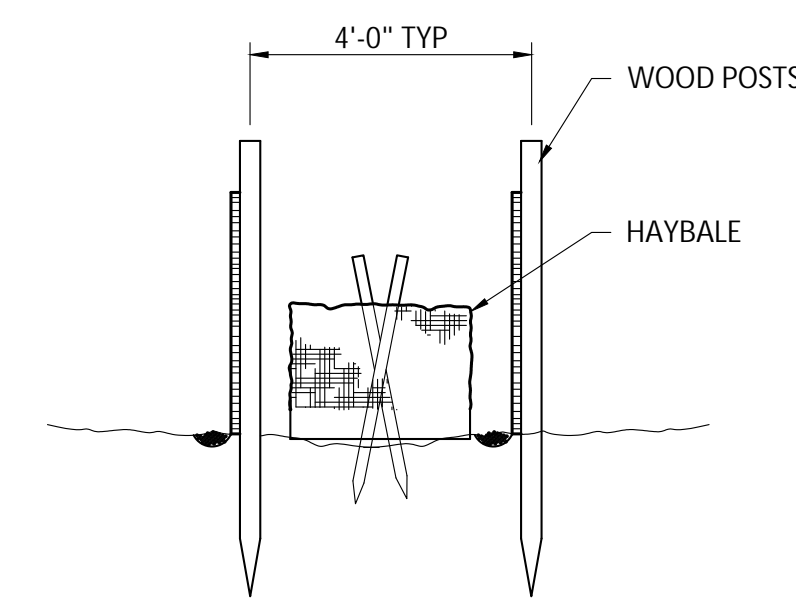
**COMPOST SILT SOCK**  
SCALE: NTS



**TURTLE EXCLUSION BARRIER**  
SCALE: "NTS"

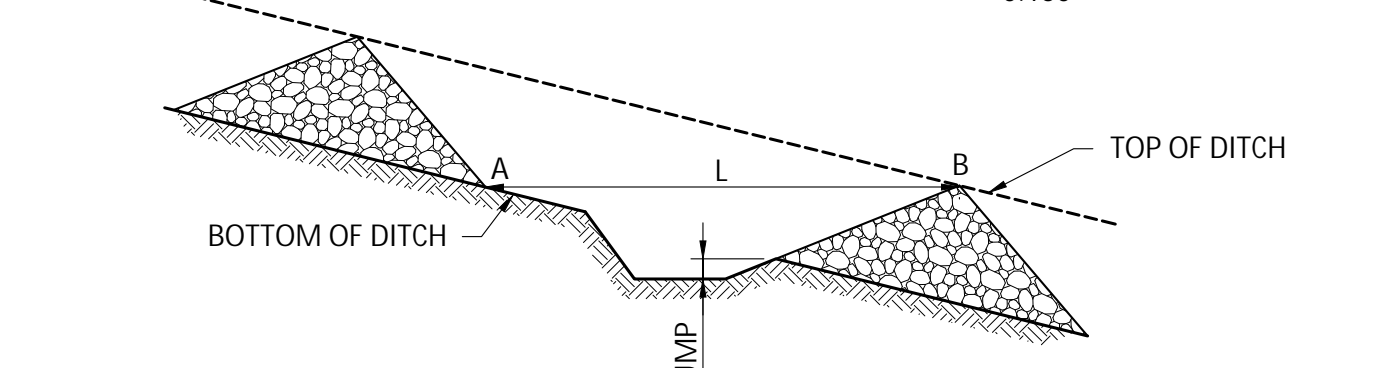


NOTE: INSTALL ON SLOPES 3:1 OR GREATER  
**EROSION CONTROL MATTING - SLOPES**  
SCALE: NTS



**COMBINATION SILT FENCE AND HAY BALE BARRIER**  
SCALE: "NTS"

DITCH SLOPE (FT/FT)	L (FT)
0.020	100
0.030	66
0.040	50
0.050	40
0.080	25
0.100	20
0.120	17
0.150	13



**STONE CHECK DAM DETAIL**  
SCALE: NTS

- NOTES:  
1. ALL MATERIAL TO MEET SPECIFICATIONS  
2. SILT SOCK COMPOST/SOIL/ROCK/SEED FILL TO MEET APPLICATION REQUIREMENTS  
3. SILT SOCK DEPICTED IS FOR MINIMUM SLOPES. GREATER SLOPES MAY REQUIRE LARGER SOCKS PER THE ENGINEER  
4. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

APPLICANT: MASSEVELOPMENT  
ADDRESS: 33 ANDREWS PARKWAY  
DEVENS, MA, 01434

OWNER OF RECORD: MDFA/PATTON WELL  
ADDRESS: 99 HIGH STREET, 11TH FLOOR  
PARCEL# 010.0-0099-0200.0  
BOSTON, MA 02110

DESIGNER OF RECORD:  
WRIGHT-PIERCE  
ATTN: JIM CRAY, PE  
600 FEDERAL STREET  
ANDOVER, MA 01810

I CERTIFY THAT THIS PLAN CONFORMS WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS.  
SIGNATURE: \_\_\_\_\_  
APPROVED BY THE DEVENS ENTERPRISE COMMISSION: \_\_\_\_\_ DATE: \_\_\_\_\_  
CHAIRMAN: \_\_\_\_\_

NO.	DATE	REVISIONS

DESIGNED BY: C.DAI  
CAD CORP: W.BAI  
CHECKED BY: C.CHIN  
DATE: 11/11/20  
APPROVED BY: J.CRA  
DATE: 11/11/20  
PROJECT NO: 14083H

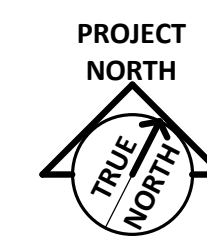
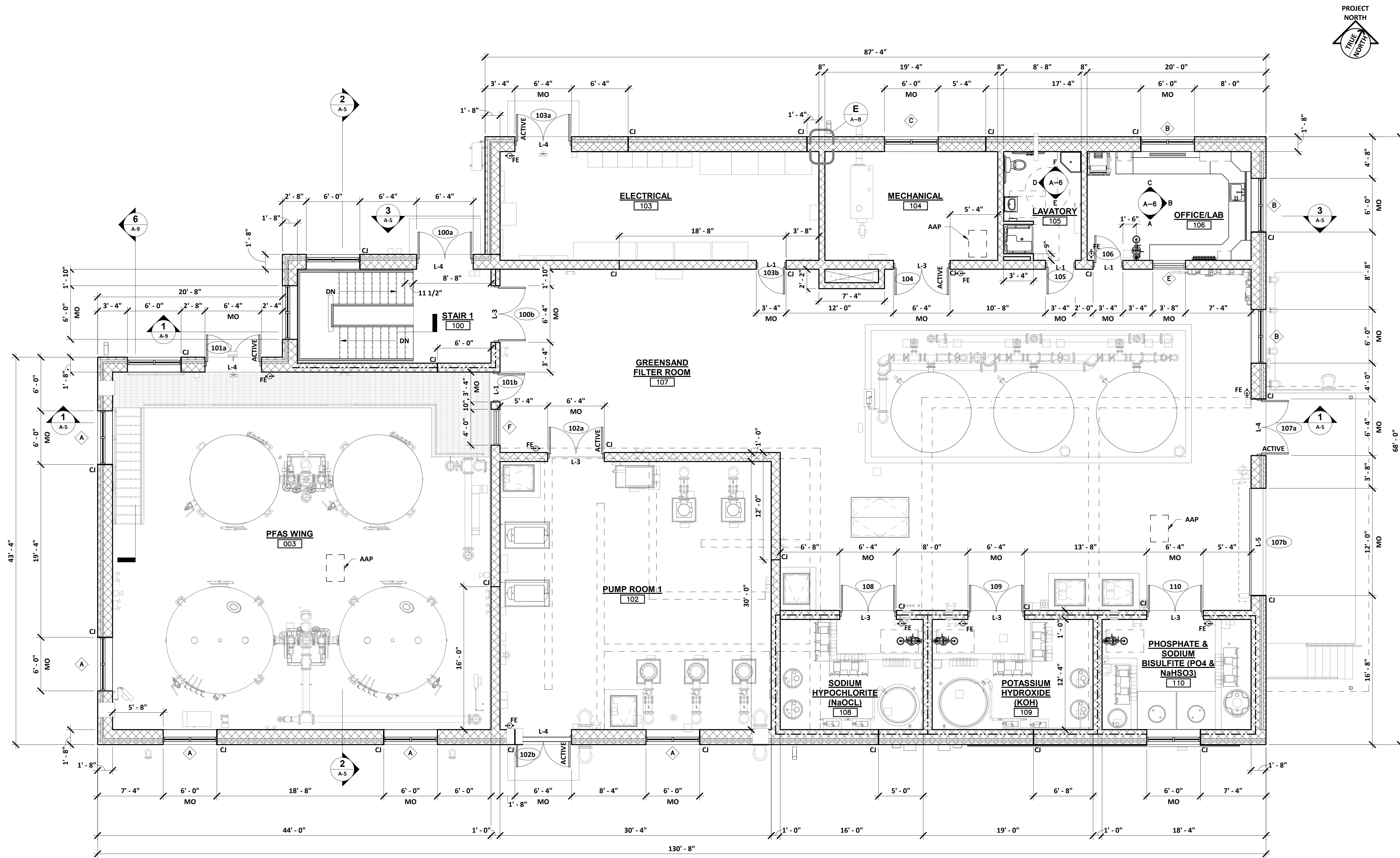
UNIFIED PERMIT  
J.CRA 10/20

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MASS DEVELOPMENT  
DEVENS, MASSACHUSETTS  
PATTON WATER TREATMENT PLANT

EROSION CONTROL NOTES AND DETAILS

**DRAWING**  
C-13



DESIGNER OF RECORD:  
 WRIGHT-PIERCE  
 ATTN: JIM CRAY, PE  
 600 FEDERAL STREET  
 ANDOVER MA 01810

FIRST FLOOR  
 SCALE: 3/16" = 1'-0"

APPLICANT: MASSDEVELOPMENT  
 ADDRESS: 33 ANDREWS PARKWAY  
 DEVENS, MA 01434

APPROVED BY THE DEVENS  
 ENTERPRISE COMMISSION: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHAIRMAN: \_\_\_\_\_

OWNER OF RECORD: MDFA/PATTON WELL  
 ADDRESS: 99 HIGH STREET, 11TH FLOOR  
 PARCEL# 010.0-0099-0200.0  
 BOSTON, MA 02110

NO	DESCRIPTION	DATE
1	95% DESIGN REVIEW	9-20

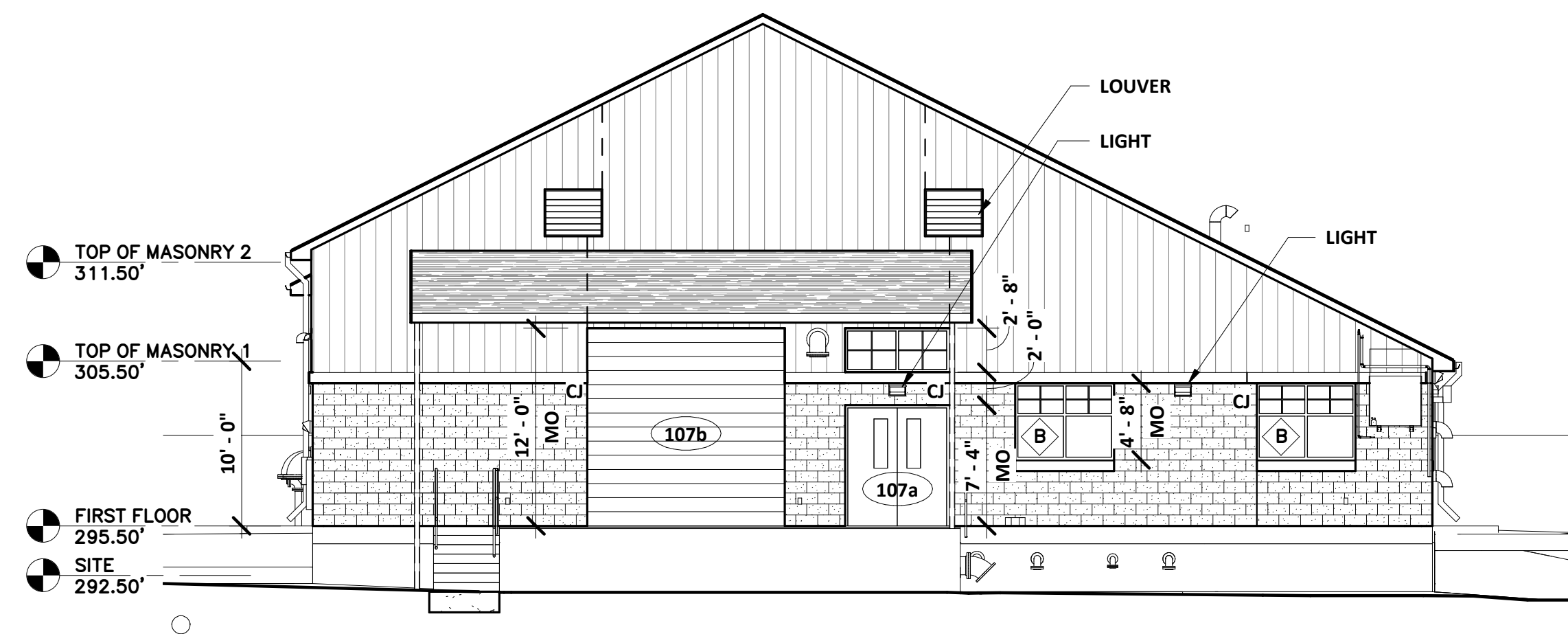
DESIGNED BY: C/MIC  
 CAD COORD: W/BAI  
 CAD: E/SHI  
 DATE: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 PROJECT NO: 14083H

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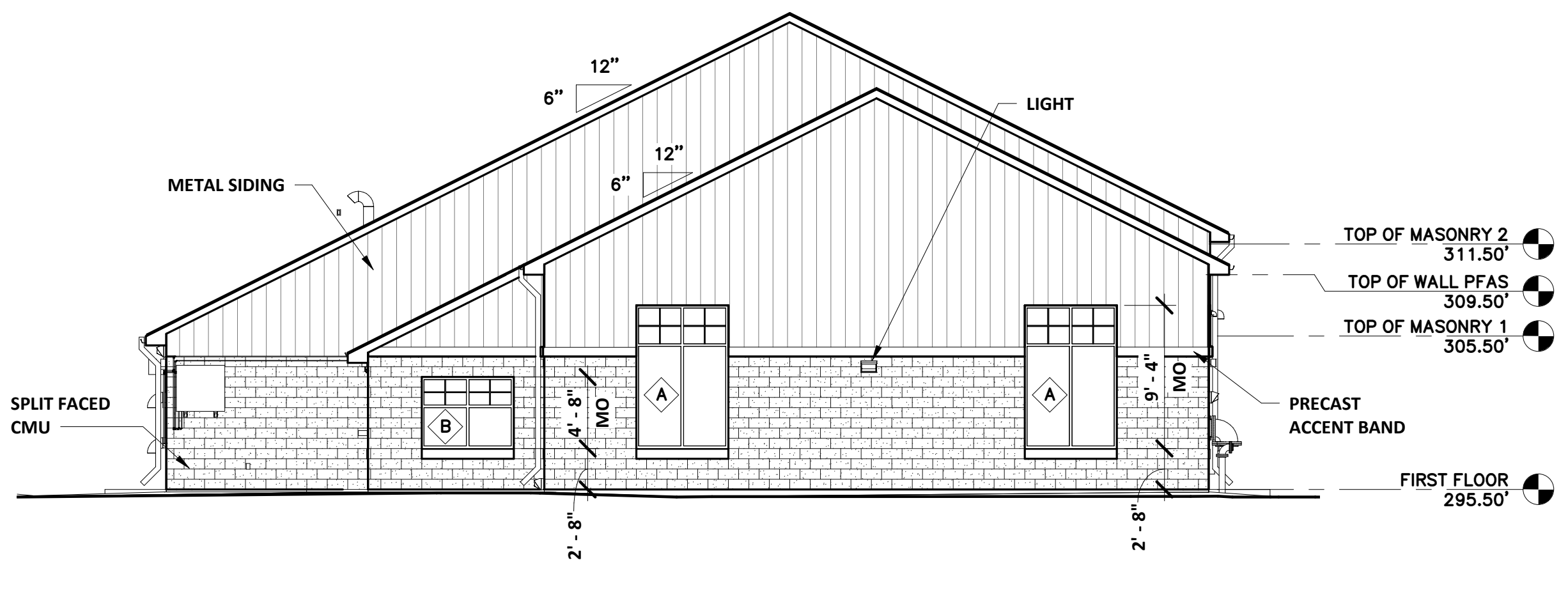
MASSDEVELOPMENT  
 DEVENS, MASSACHUSETTS  
 PATTON WATER TREATMENT PLANT

DRAWING  
 A-3

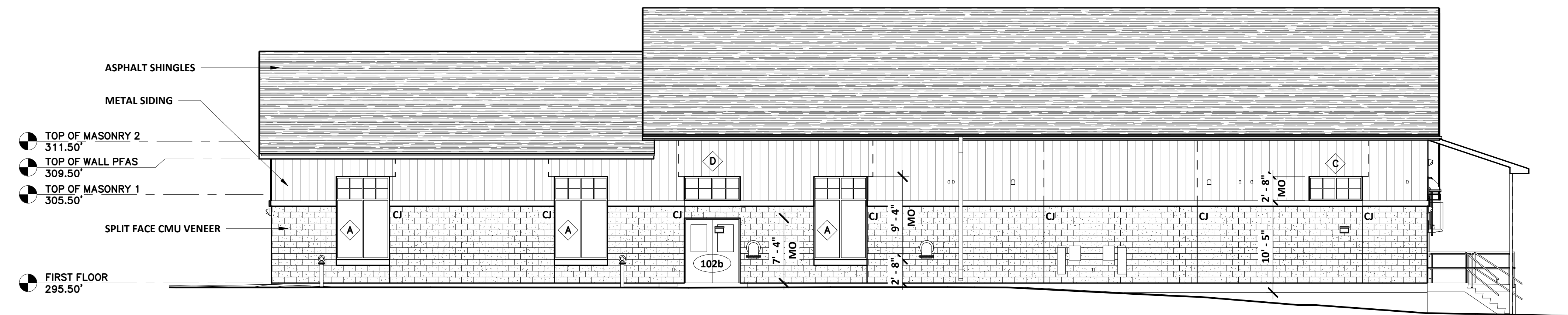
FIRST FLOOR PLAN



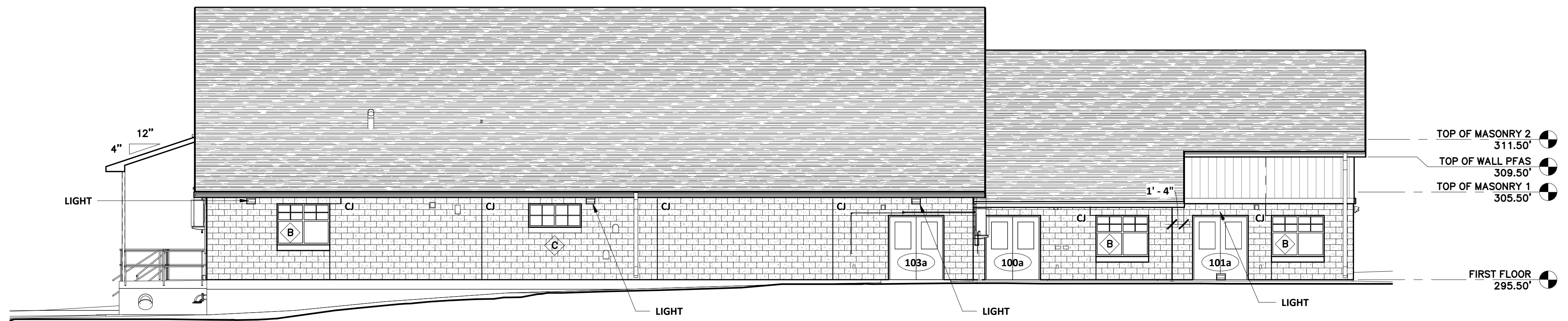
**EAST ELEVATION**  
SCALE: 1/8" = 1'-0"



**WEST ELEVATION**  
SCALE: 1/8" = 1'-0"



**SOUTH ELEVATION**  
SCALE: 1/8" = 1'-0"



**NORTH ELEVATION**  
SCALE: 1/8" = 1'-0"

APPROVED BY THE DEVENS ENTERPRISE COMMISSION: \_\_\_\_\_ DATE: \_\_\_\_\_  
CHAIRMAN: \_\_\_\_\_

DESIGNER OF RECORD:  
WRIGHT-PIERCE  
ATTN: JIM CRAY, PE  
600 FEDERAL STREET  
ANDOVER MA 01810

APPLICANT: MASSDEVELOPMENT  
ADDRESS: 33 ANDREWS PARKWAY  
DEVENS, MA 01434

OWNER OF RECORD: MDFA/PATTON WELL  
ADDRESS: 99 HIGH STREET, 11TH FLOOR  
PARCEL# 010.0-0099-0200.0  
BOSTON, MA 02110

NO	DESCRIPTION	DATE
1	95% DESIGN REVIEW	9-20
2		
3		
4		

DESIGNED BY: C/MIC	APPD DATE: J.CRA
CAD CORP: W/BAL	DATE: 9-20
CHECKED BY: E.SHI	
DATE: _____	
APPROVED BY: _____	
DATE: _____	
PROJECT NO: 14083H	

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MASSDEVELOPMENT  
DEVENS, MASSACHUSETTS  
PATTON WATER TREATMENT PLANT

ELEVATIONS

DRAWING  
A-4