



Project Number
2221

Project Title
Yankee Bus Line HQ

34 Scanlon Drive
Randolph, MA 02368



Samiotes Consultants Inc.
Civil Engineers - Land Surveyors

20 A Street
Framingham, MA 01701

T 508.877.6688
F 508.877.8349
www.samiotes.com

Drawing Title

DEMO & SOIL EROSION PLAN

Date/Issued For
04.20.23
Planning Board
Submission

NOT FOR
CONSTRUCTION

Print 24x36

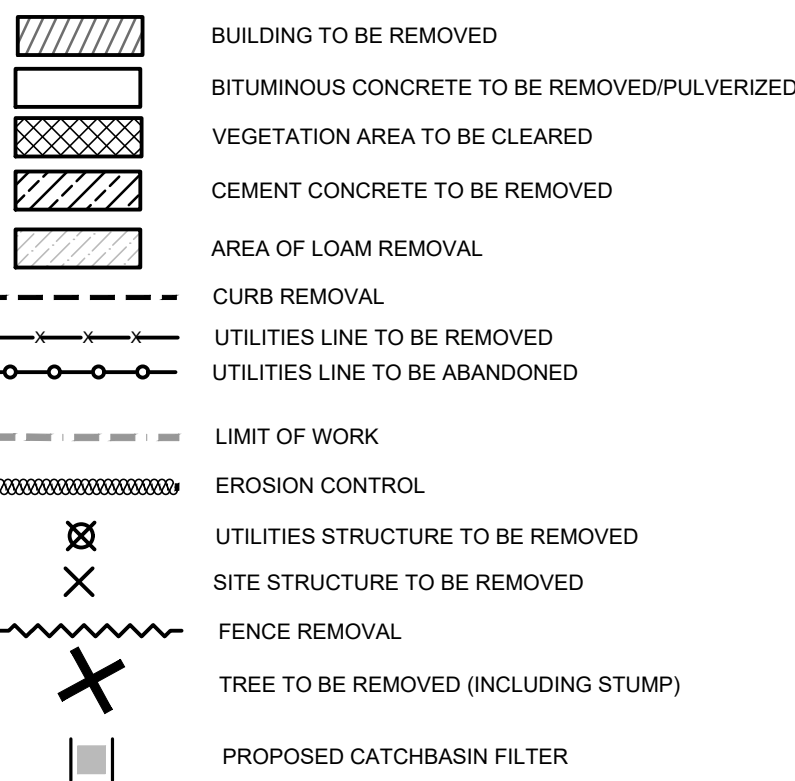
Scale
As Noted

Drawn By
MEK

Drawing Number

C-101

DEMOLITION LEGEND:

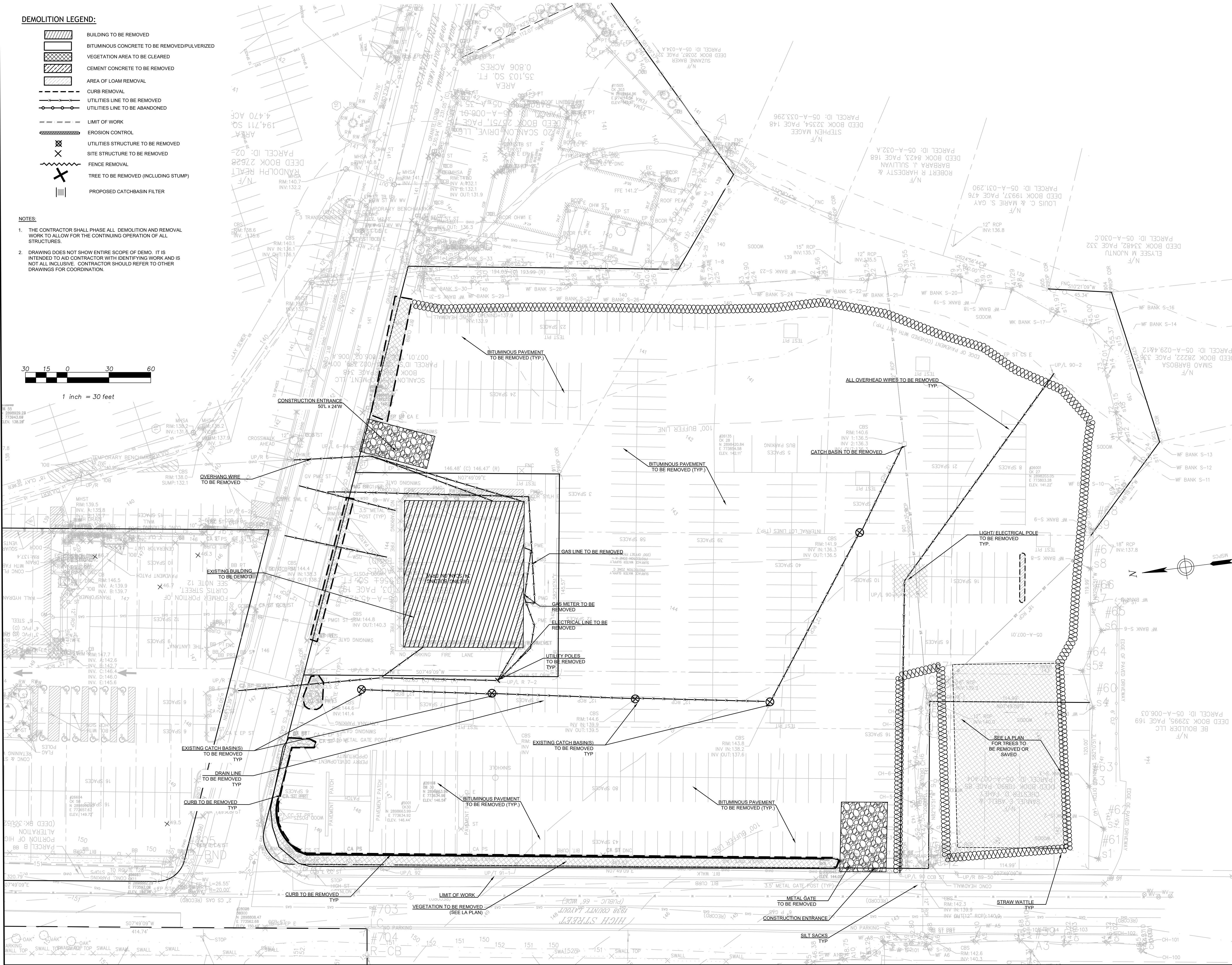


NOTES:

1. THE CONTRACTOR SHALL PHASE ALL DEMOLITION AND REMOVAL WORK TO ALLOW FOR THE CONTINUING OPERATION OF ALL STRUCTURES.
2. DRAWING DOES NOT SHOW ENTIRE SCOPE OF DEMO. IT IS INTENDED TO AID CONTRACTOR WITH IDENTIFYING WORK AND IS NOT ALL INCLUSIVE. CONTRACTOR SHOULD REFER TO OTHER DRAWINGS FOR COORDINATION.



1 inch = 30 feet

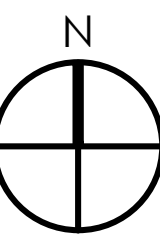


TGAS
THE GALANTE
ARCHITECTURE
STUDIO INC

146 MT AUBURN ST CAMBRIDGE, MA 02138

6 1 7 5 7 6 2 5 0 0

WWW.GALANTEARCHITECTURE.COM



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LAYOUT PLAN

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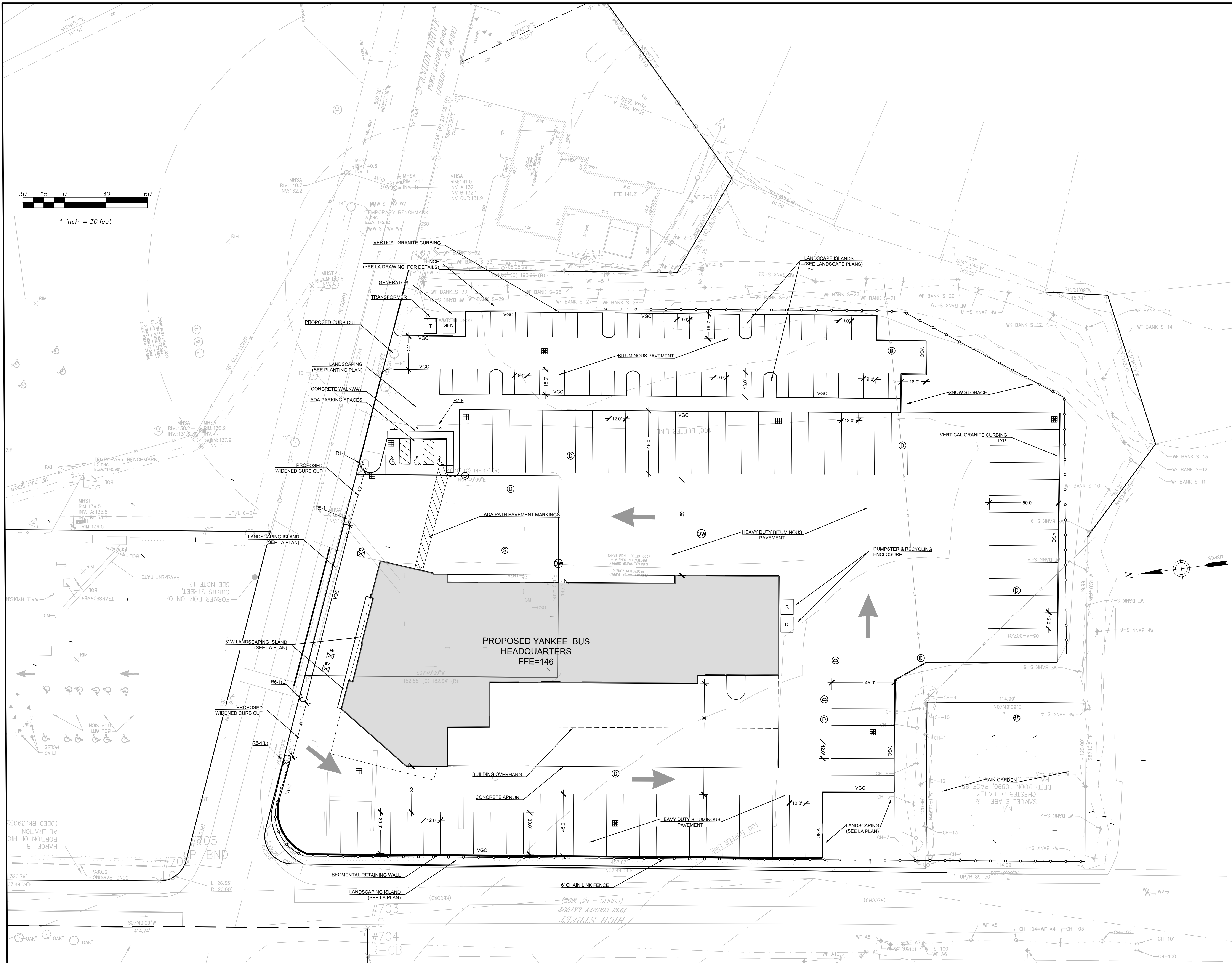
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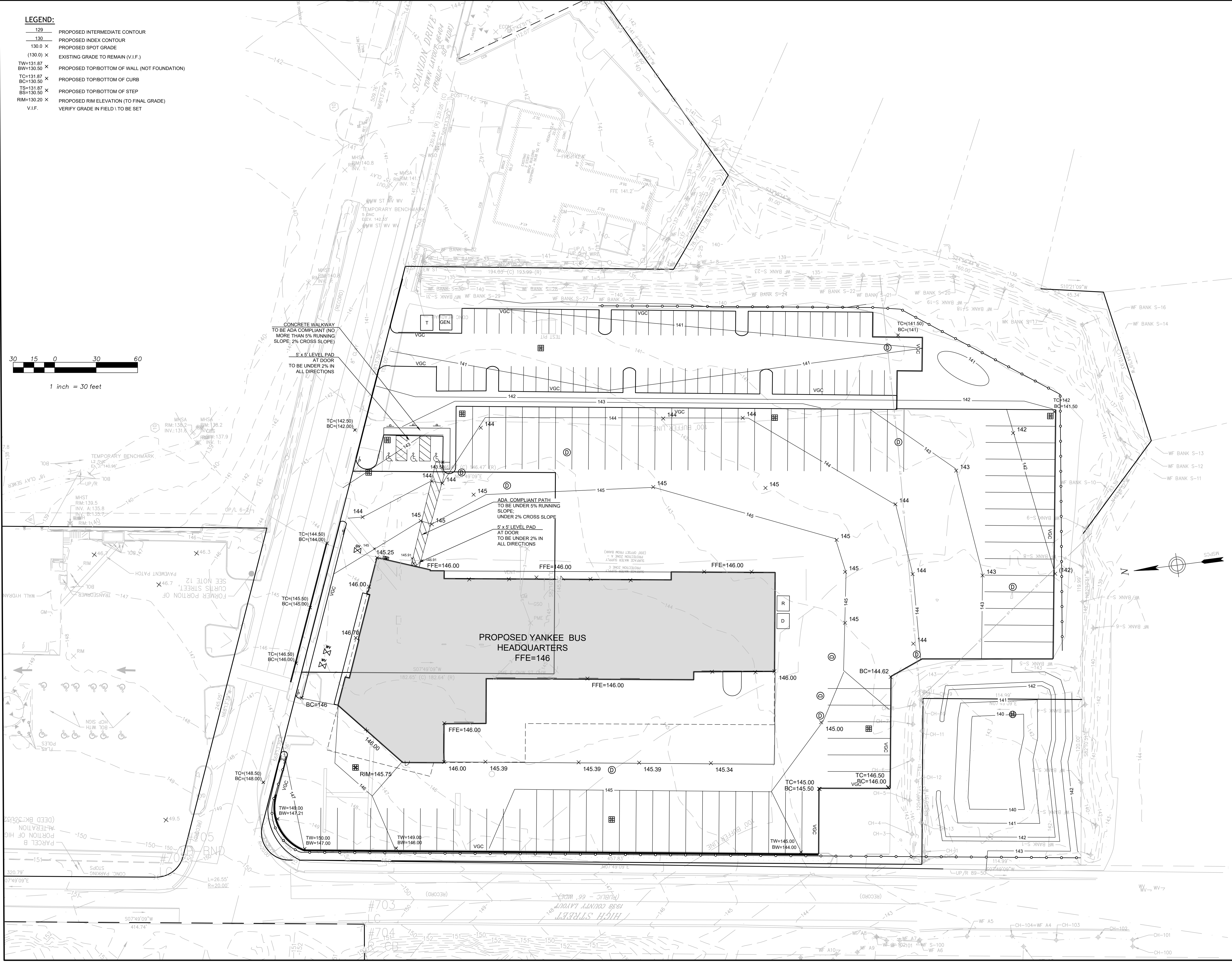
Scale
As Noted

Drawn By
MEK

Drawing Number

C-201





- LEGEND:**
- 129 PROPOSED INTERMEDIATE CONTOUR
 - 130 PROPOSED INDEX CONTOUR
 - 130.0 X PROPOSED SPOT GRADE
 - (130.0) X EXISTING GRADE TO REMAIN (V.I.F.)
 - TW=131.87 BW=130.50 X PROPOSED TOP/BOTTOM OF WALL (NOT FOUNDATION)
 - TC=131.87 BC=130.50 X PROPOSED TOP/BOTTOM OF CURB
 - TS=131.87 BS=130.50 X PROPOSED TOP/BOTTOM OF STEP
 - RIM=130.20 X PROPOSED RIM ELEVATION (TO FINAL GRADE)
 - V.I.F. VERIFY GRADE IN FIELD \ TO BE SET

30 15 0 30 60
1 inch = 30 feet

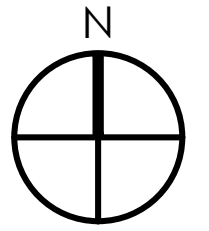
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GRADING PLAN

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Scale
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Drawn By
MEK

Drawing Number
C-301



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Drawing Title

CIVIL UTILITIES PLAN

Date/Issued For
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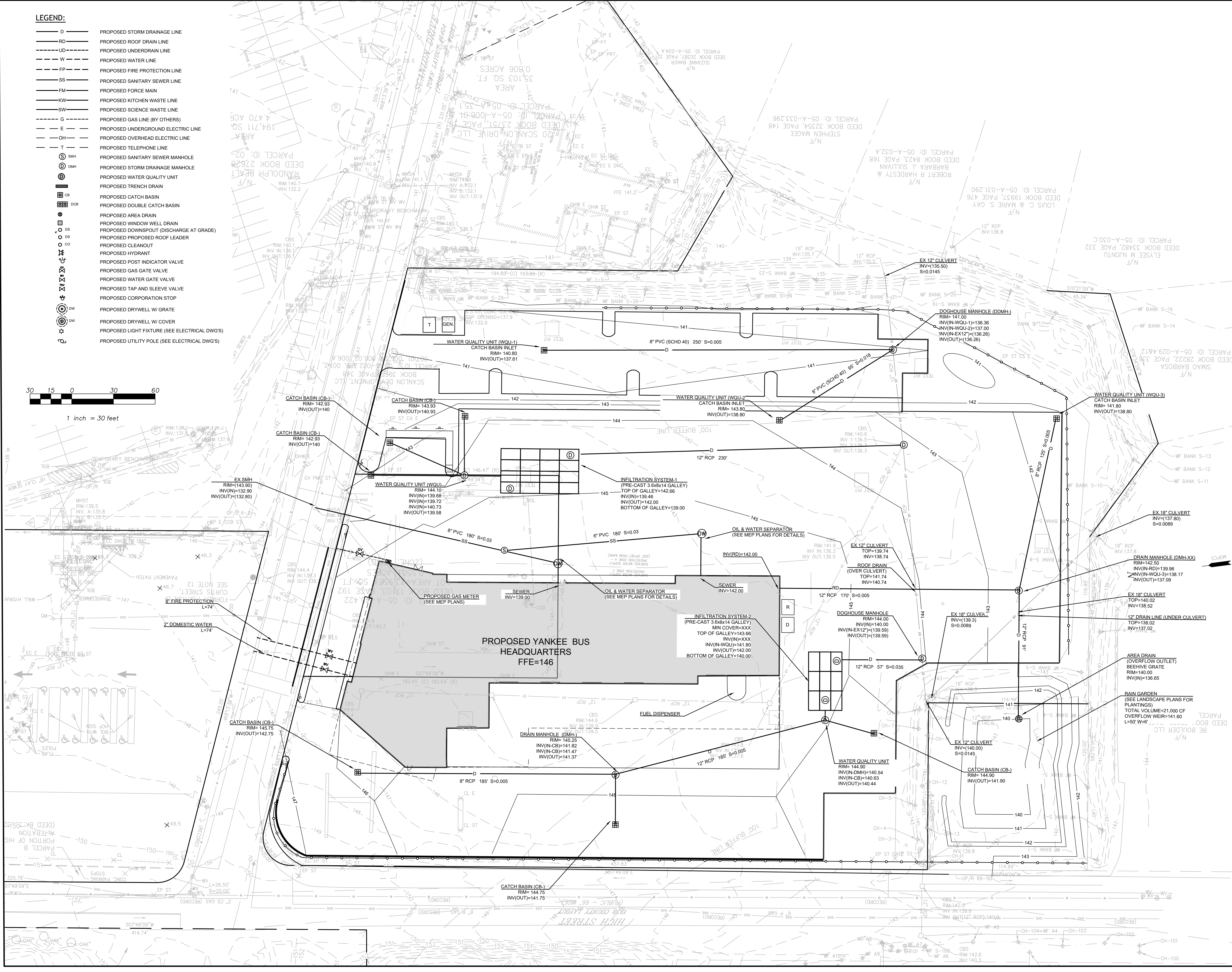
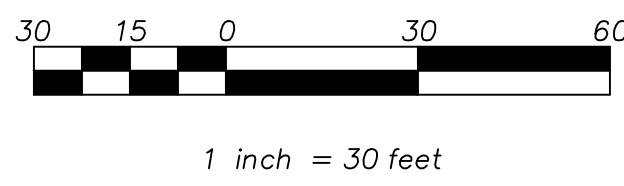
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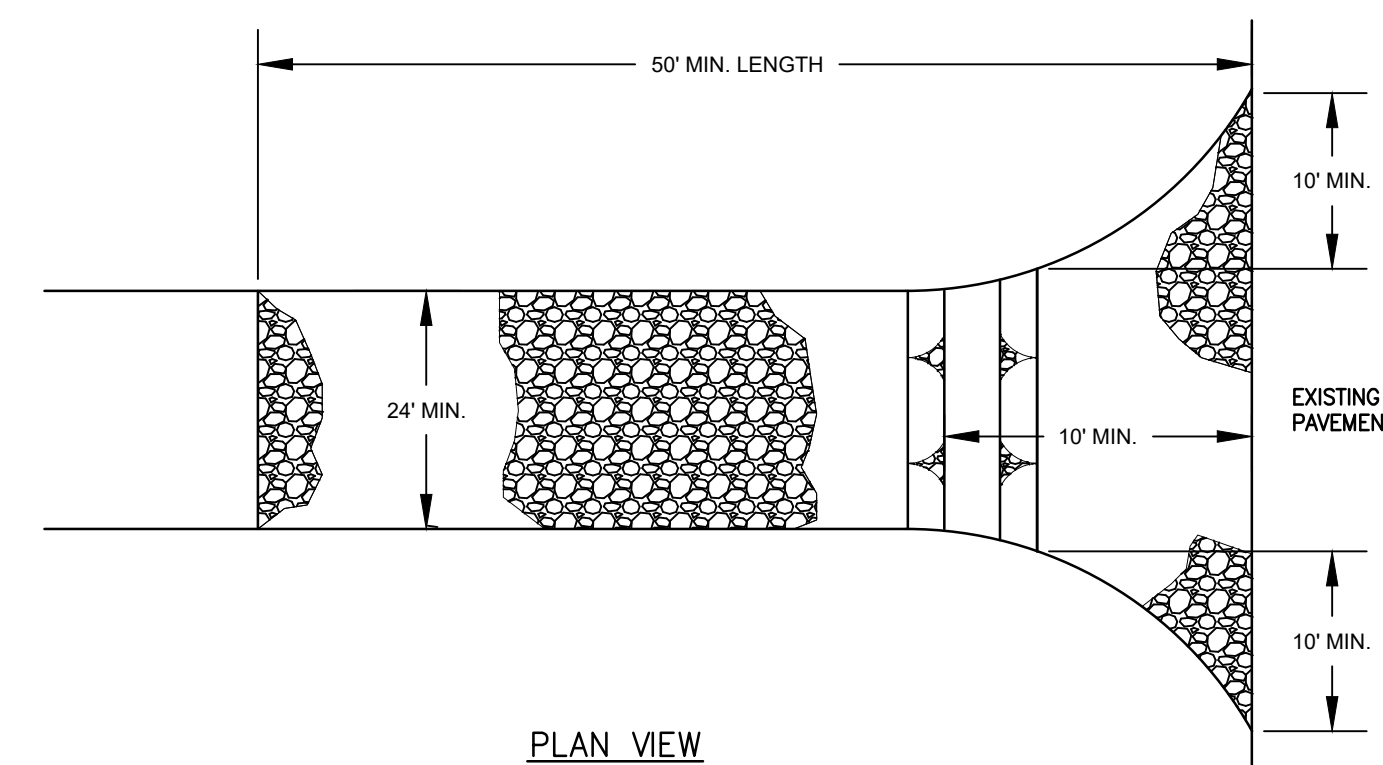
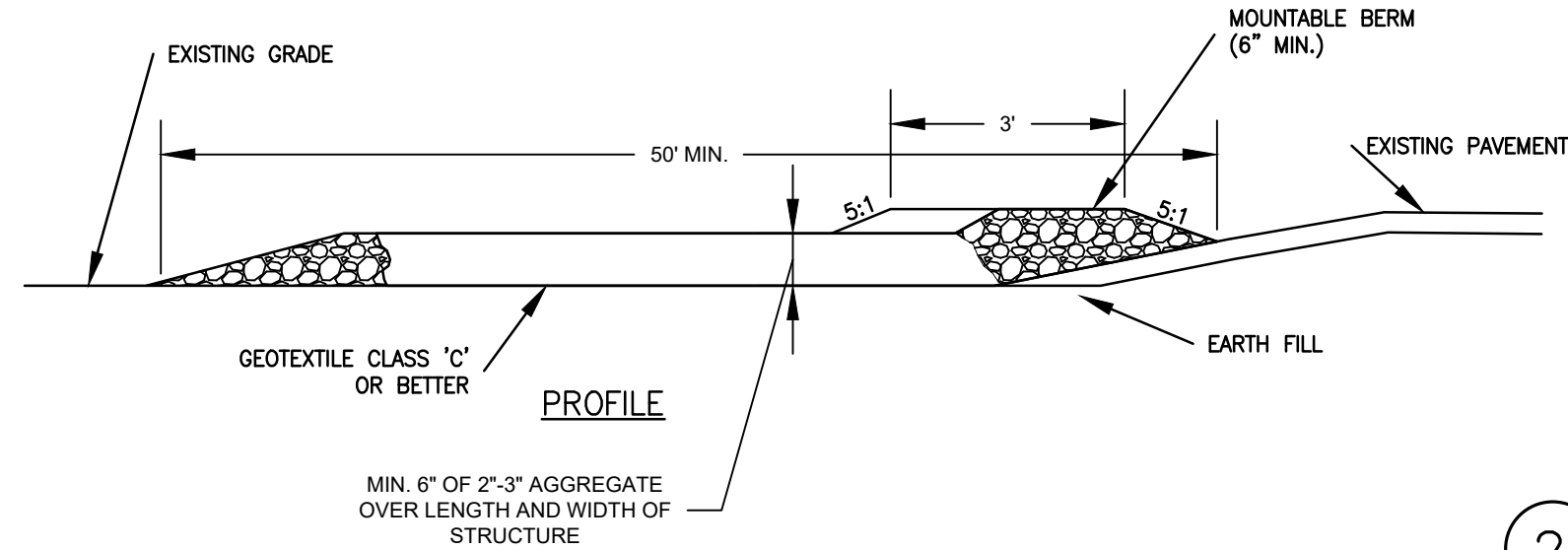
Drawn By
MEK

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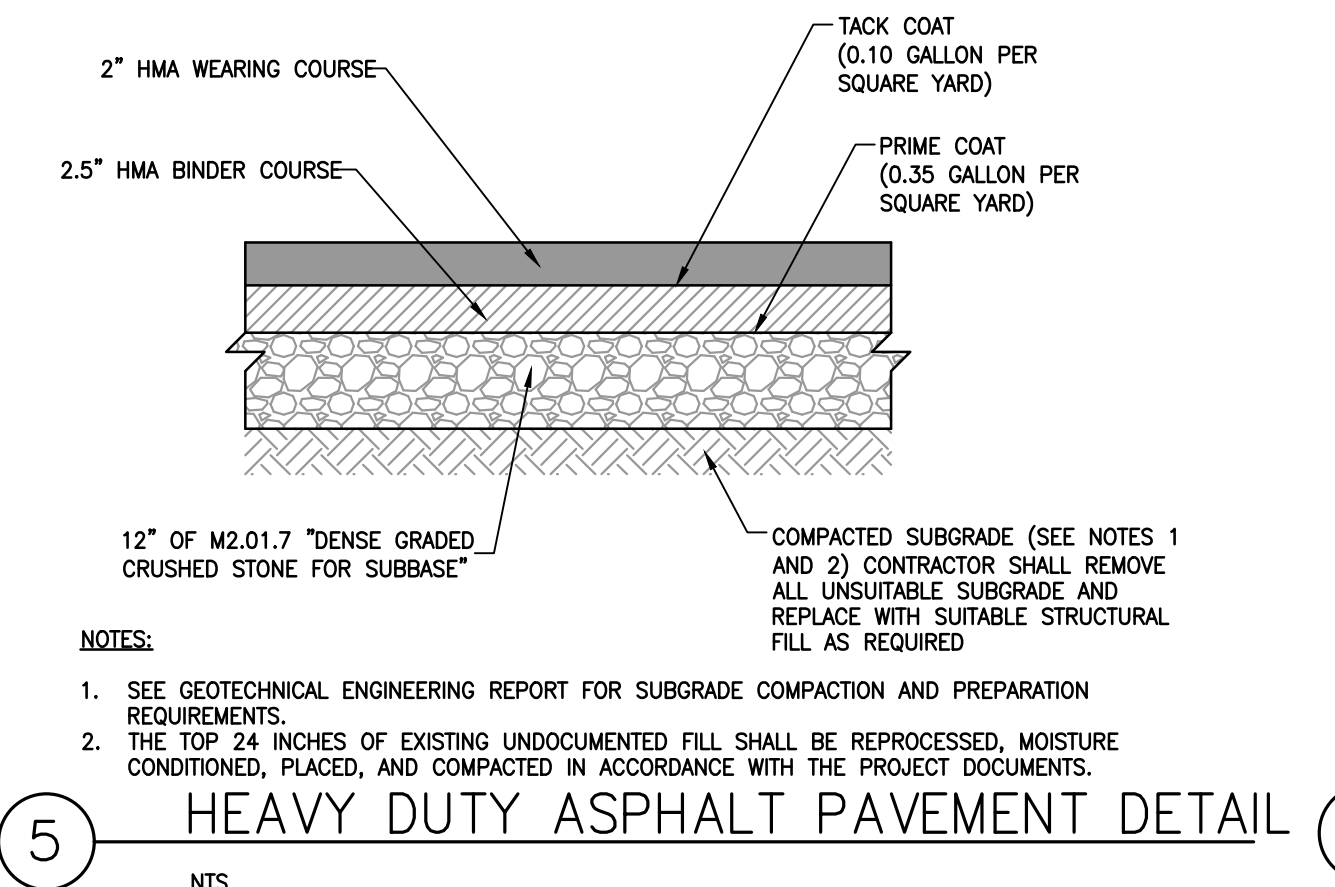
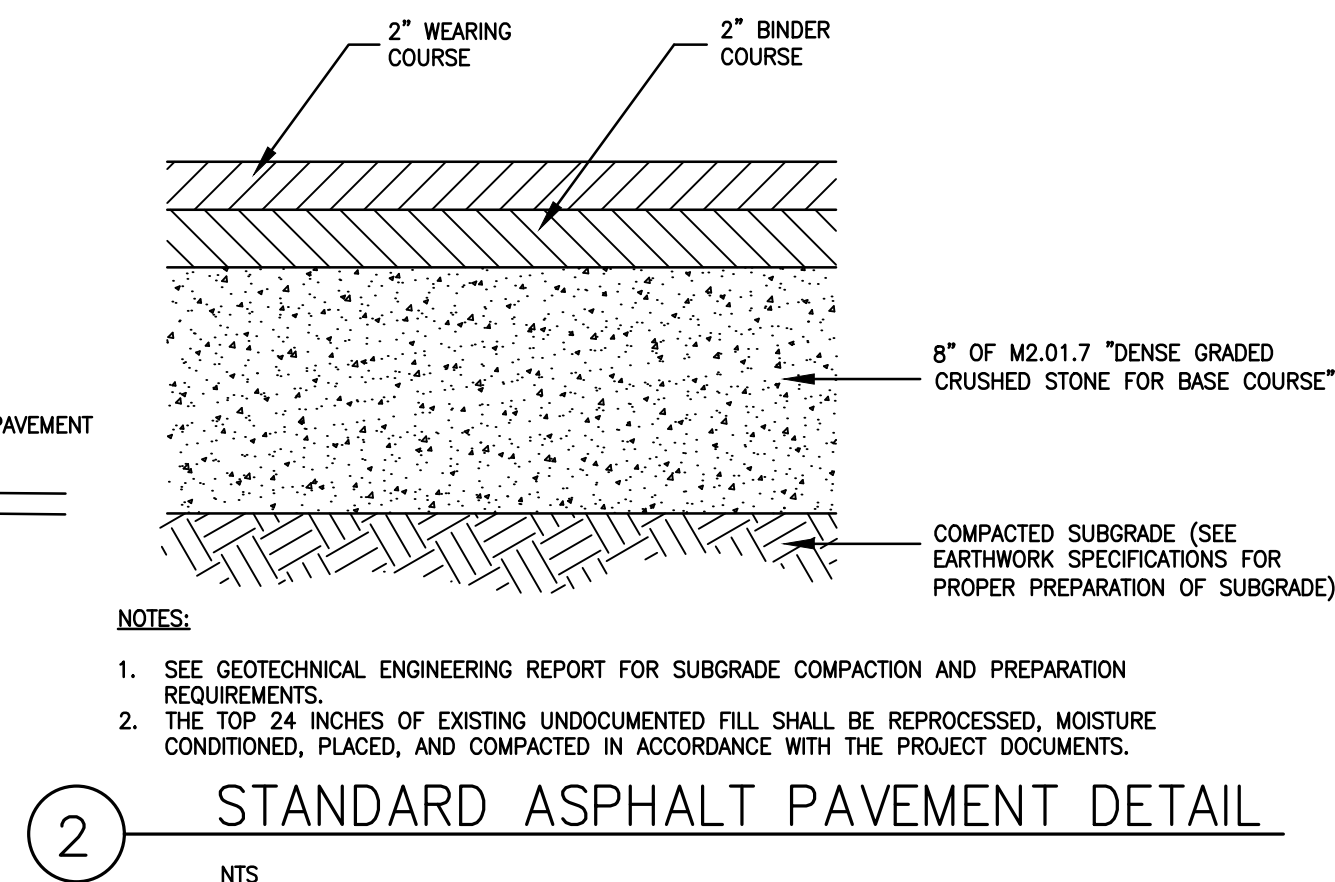
C-401

- LEGEND:**
- D PROPOSED STORM DRAINAGE LINE
 - RD PROPOSED ROOF DRAIN LINE
 - UD PROPOSED UNDERDRAIN LINE
 - W PROPOSED WATER LINE
 - FP PROPOSED FIRE PROTECTION LINE
 - SS PROPOSED SANITARY SEWER LINE
 - FM PROPOSED FORCE MAIN
 - KW PROPOSED KITCHEN WASTE LINE
 - SW PROPOSED SCIENCE WASTE LINE
 - G PROPOSED GAS LINE (BY OTHERS)
 - E PROPOSED UNDERGROUND ELECTRIC LINE
 - OH PROPOSED OVERHEAD ELECTRIC LINE
 - T PROPOSED TELEPHONE LINE
 - SMH PROPOSED SANITARY SEWER MANHOLE
 - DMH PROPOSED STORM DRAINAGE MANHOLE
 - WQU PROPOSED WATER QUALITY UNIT
 - CB PROPOSED TRENCH DRAIN
 - DCB PROPOSED CATCH BASIN
 - DCB PROPOSED DOUBLE CATCH BASIN
 - AD PROPOSED AREA DRAIN
 - OWD PROPOSED WINDOW WELL DRAIN
 - DPD PROPOSED DOWNSPOUT (DISCHARGE AT GRADE)
 - RLD PROPOSED PROPOSED ROOF LEADER
 - CLEANOUT PROPOSED CLEANOUT
 - HYDRANT PROPOSED HYDRANT
 - PIV PROPOSED POST INDICATOR VALVE
 - GV PROPOSED GAS GATE VALVE
 - WGV PROPOSED WATER GATE VALVE
 - T&S PROPOSED TAP AND SLEEVE VALVE
 - CS PROPOSED CORPORATION STOP
 - DW PROPOSED DRYWELL W/ GRATE
 - DW PROPOSED DRYWELL W/ COVER
 - LF PROPOSED LIGHT FIXTURE (SEE ELECTRICAL DWG'S)
 - UP PROPOSED UTILITY POLE (SEE ELECTRICAL DWG'S)

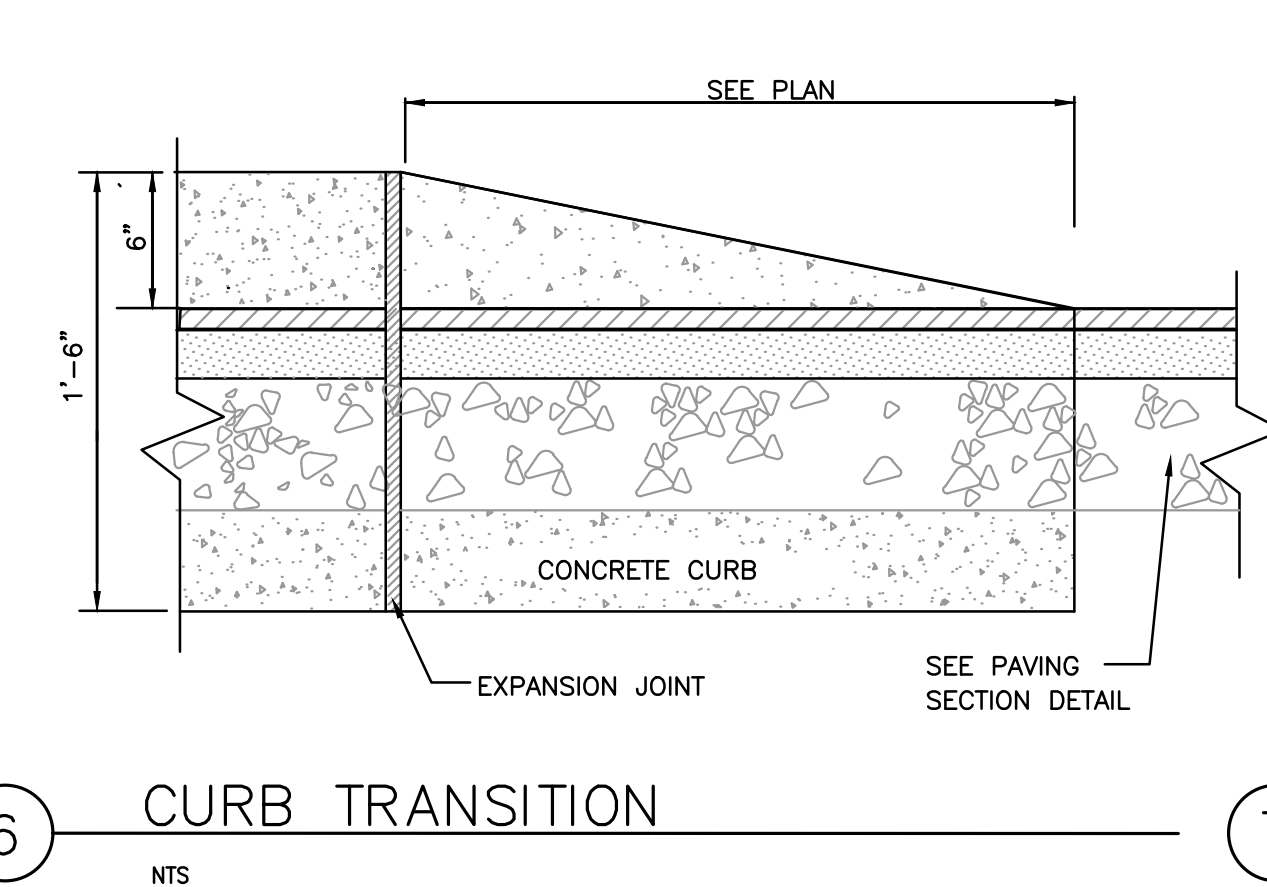
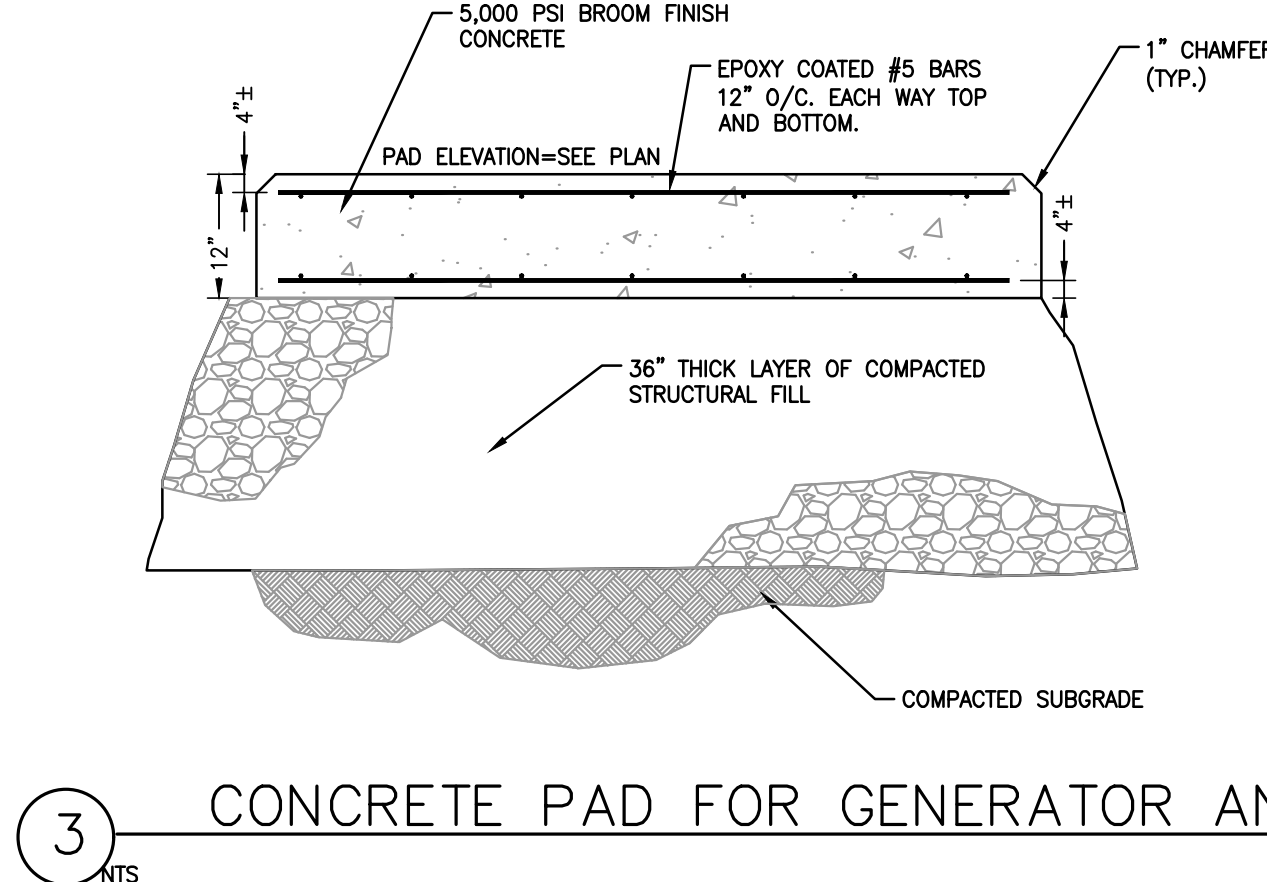




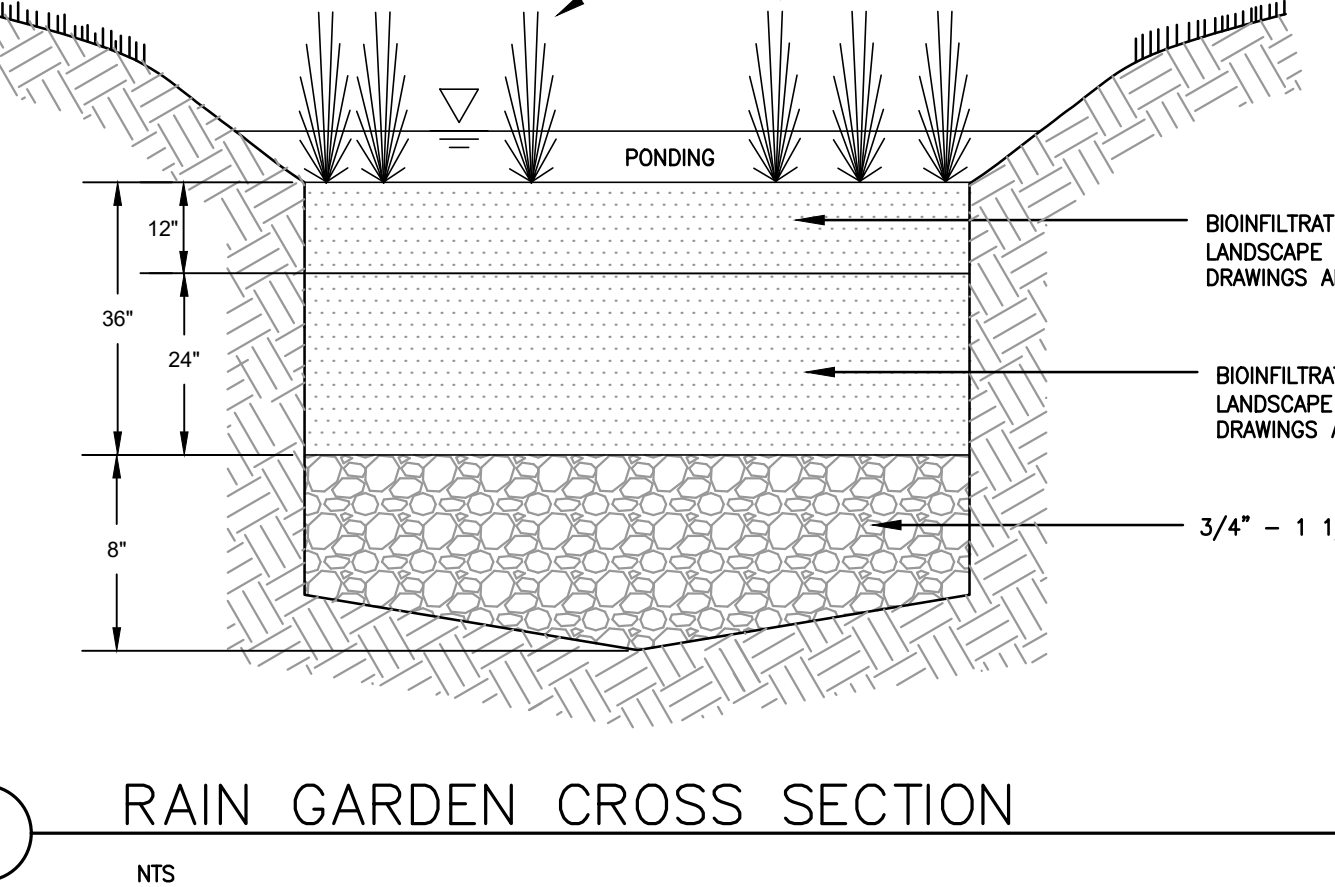
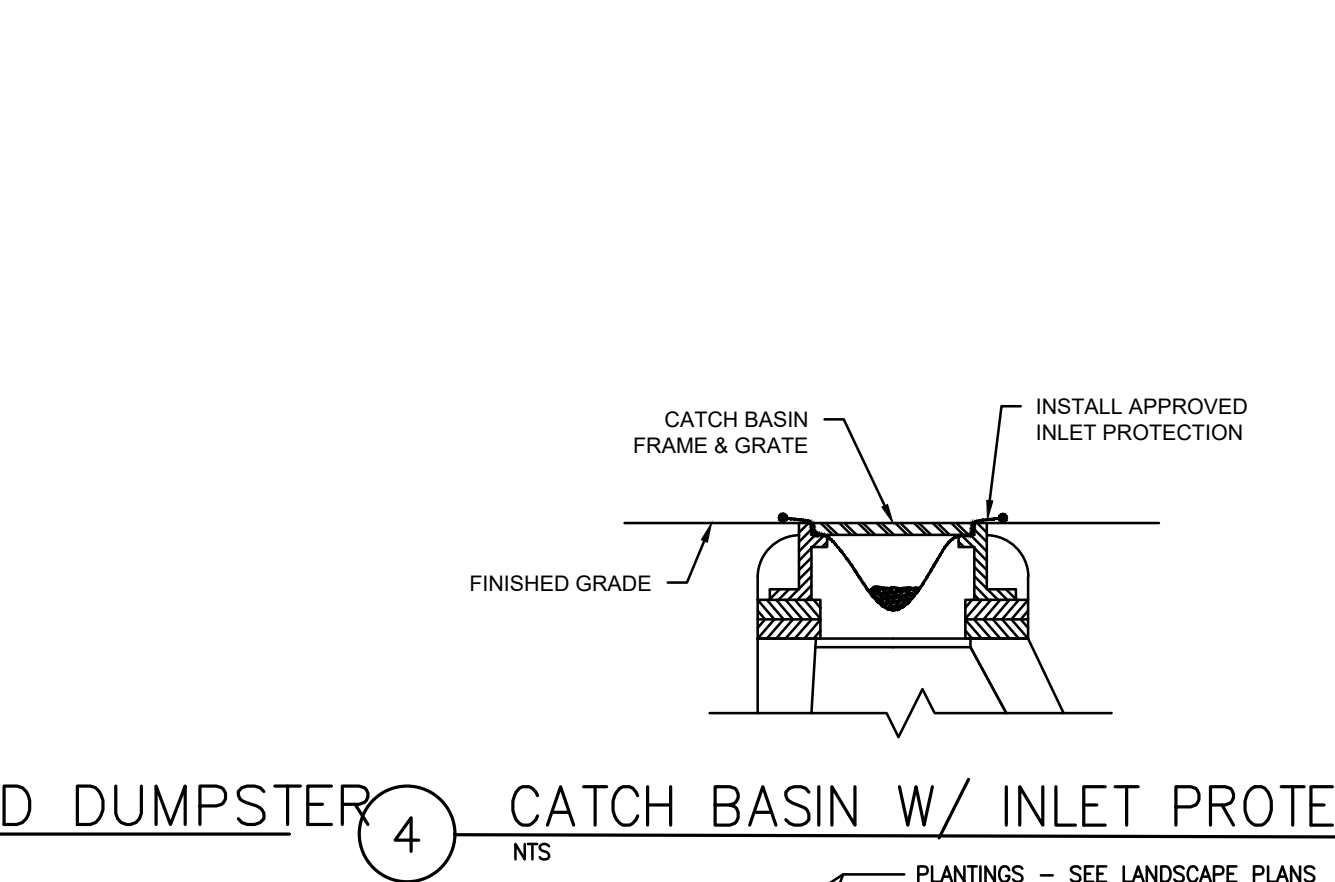
1 STABILIZED CONSTRUCTION ENTRANCE
NTS



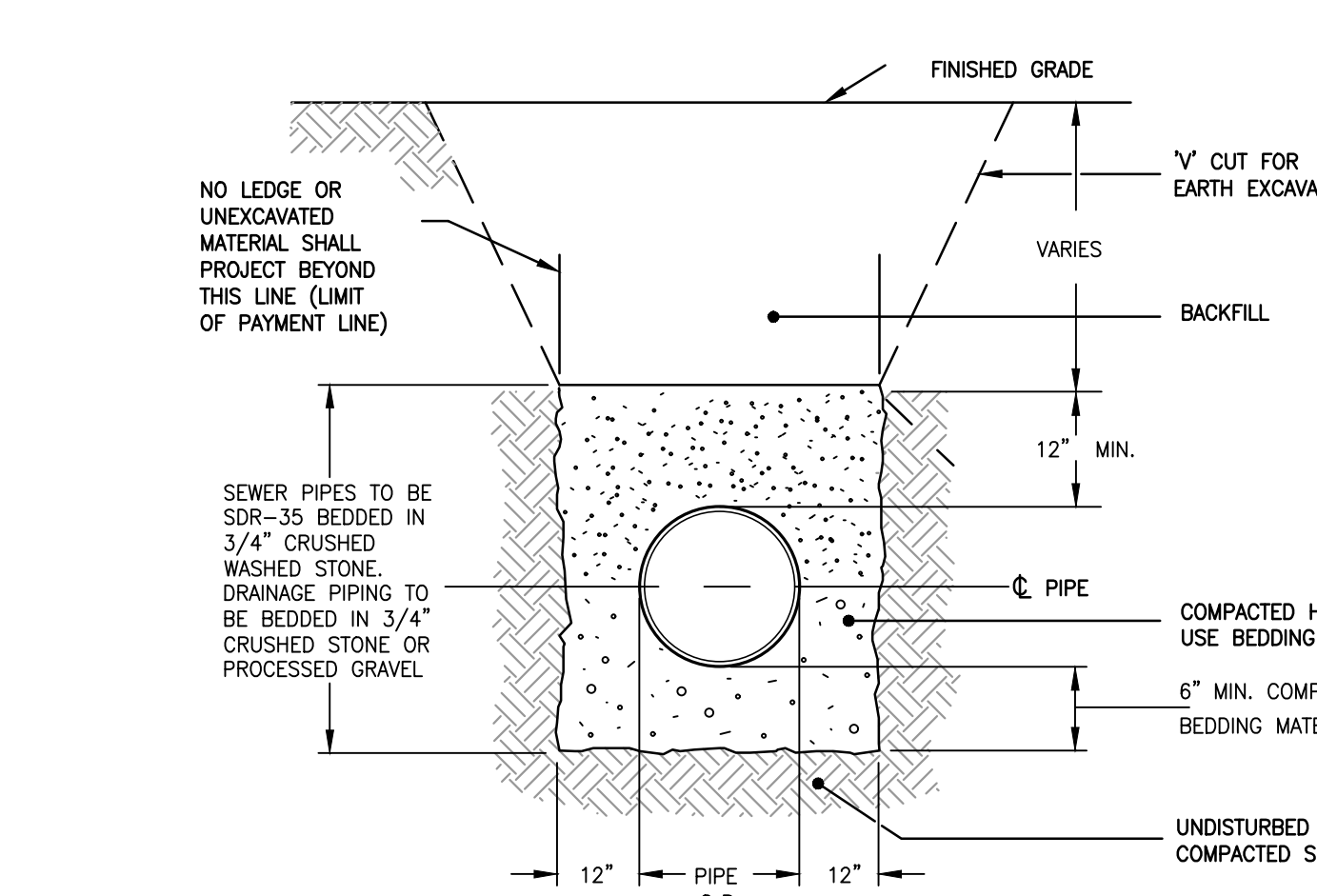
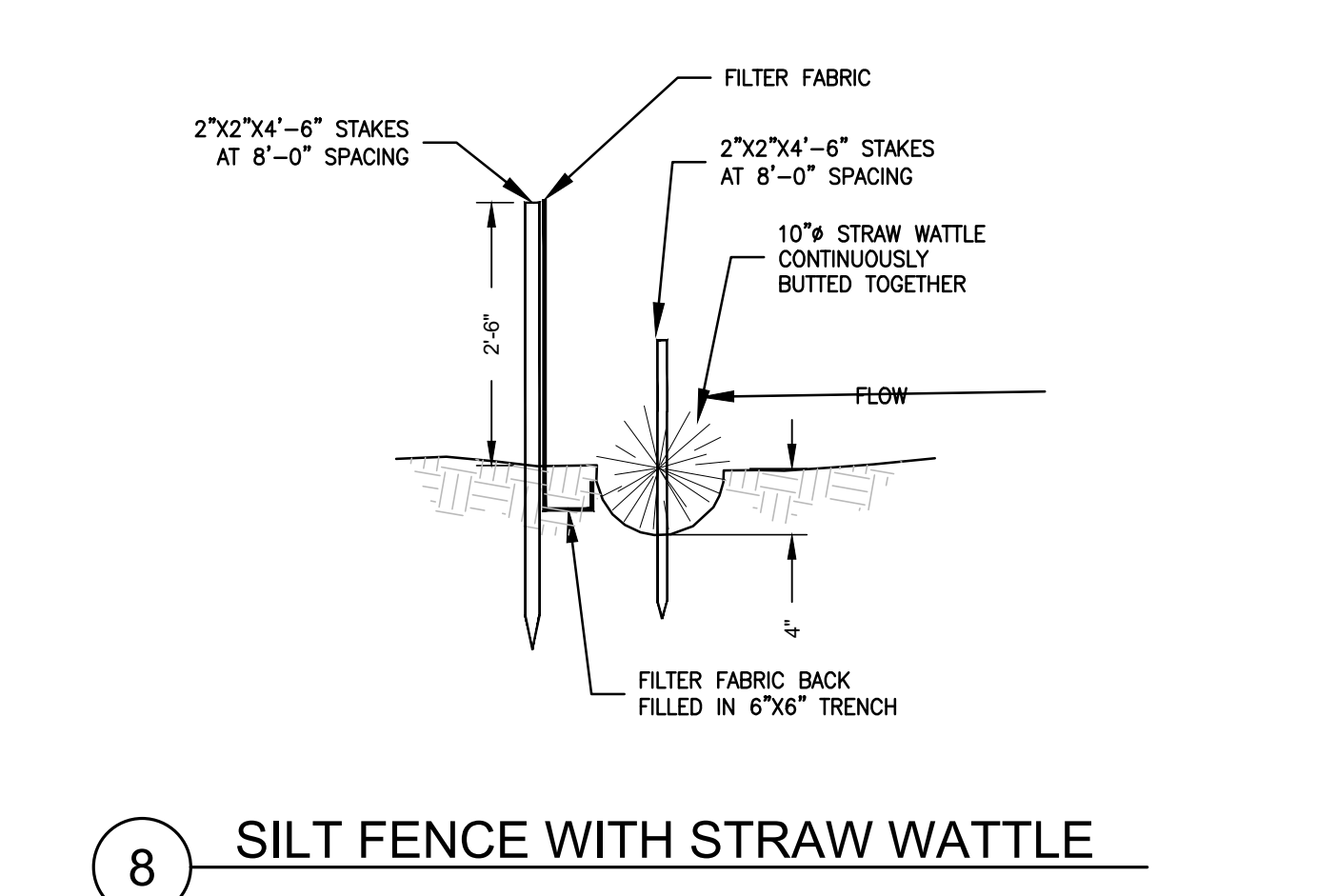
3 CONCRETE PAD FOR GENERATOR AND DUMPSTER
NTS



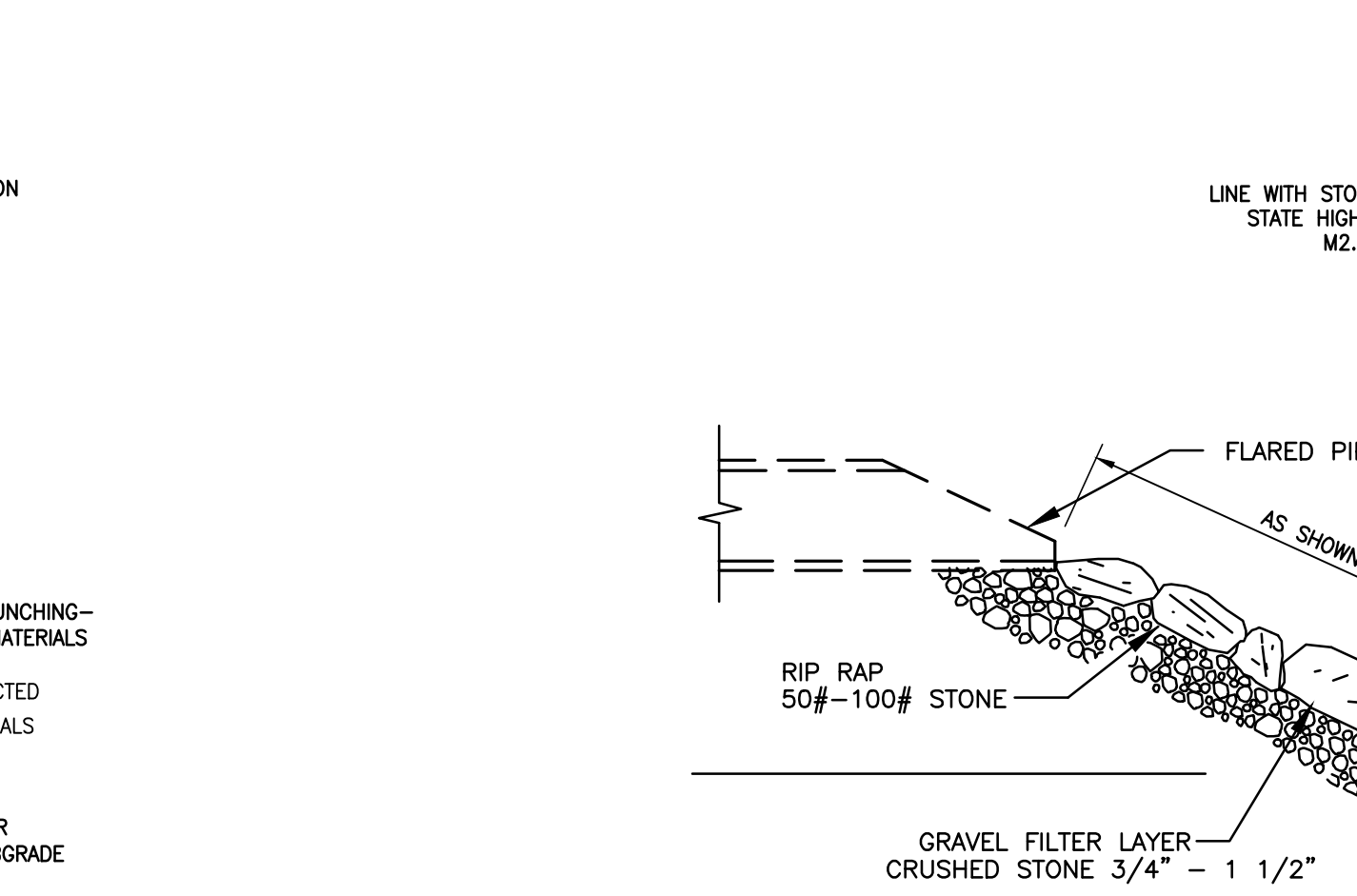
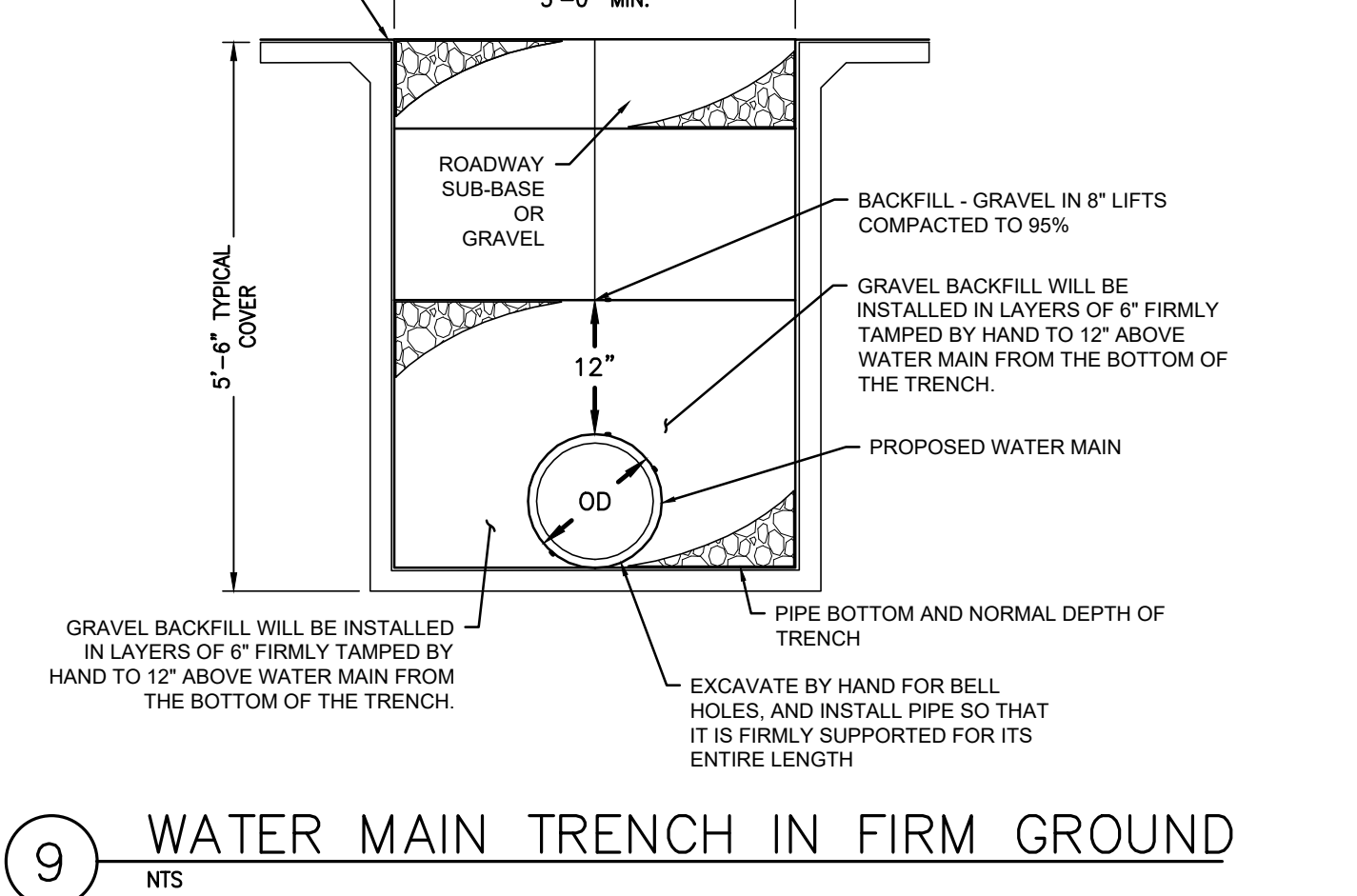
5 HEAVY DUTY ASPHALT PAVEMENT DETAIL
NTS



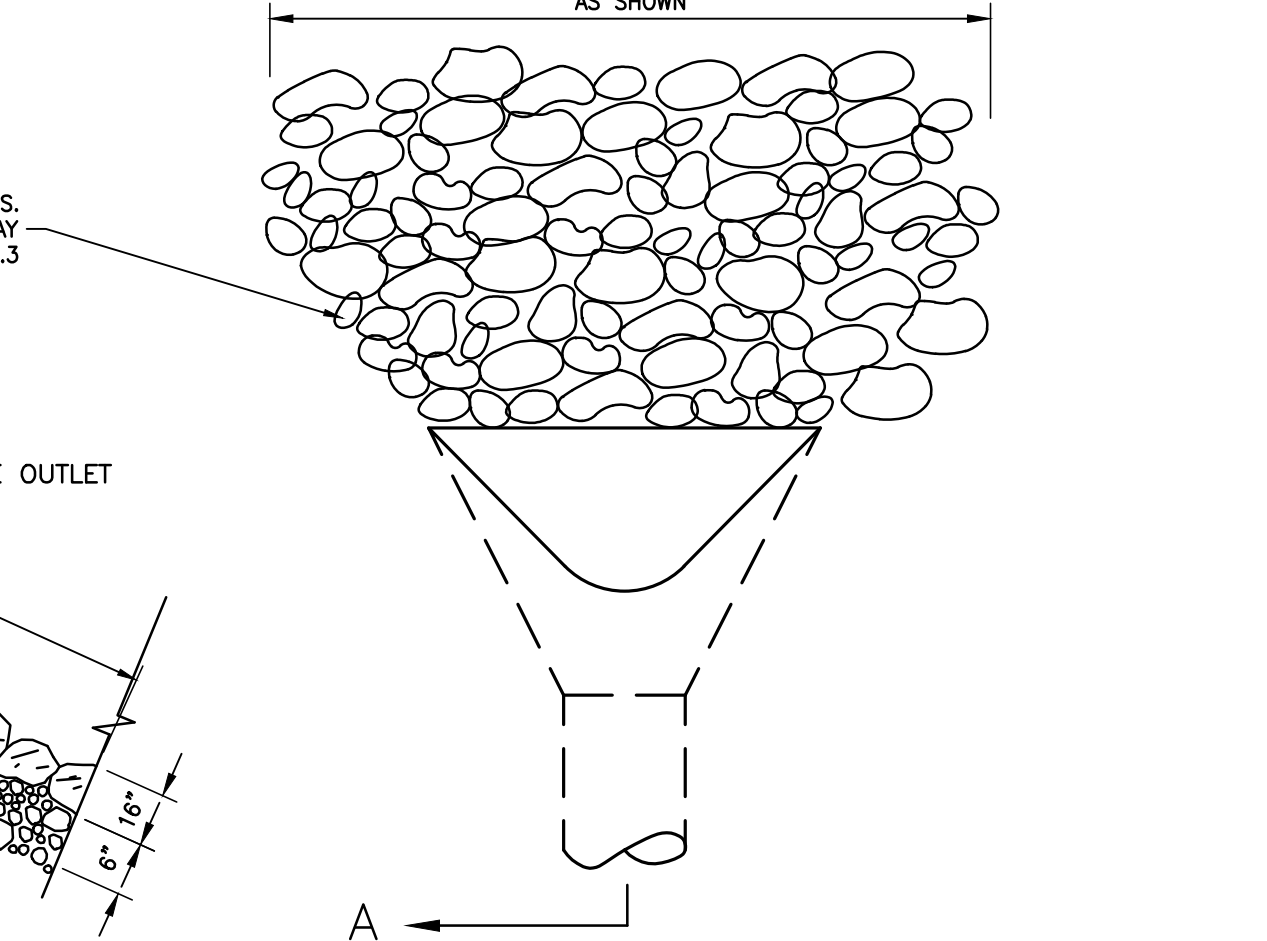
7 RAIN GARDEN CROSS SECTION
NTS



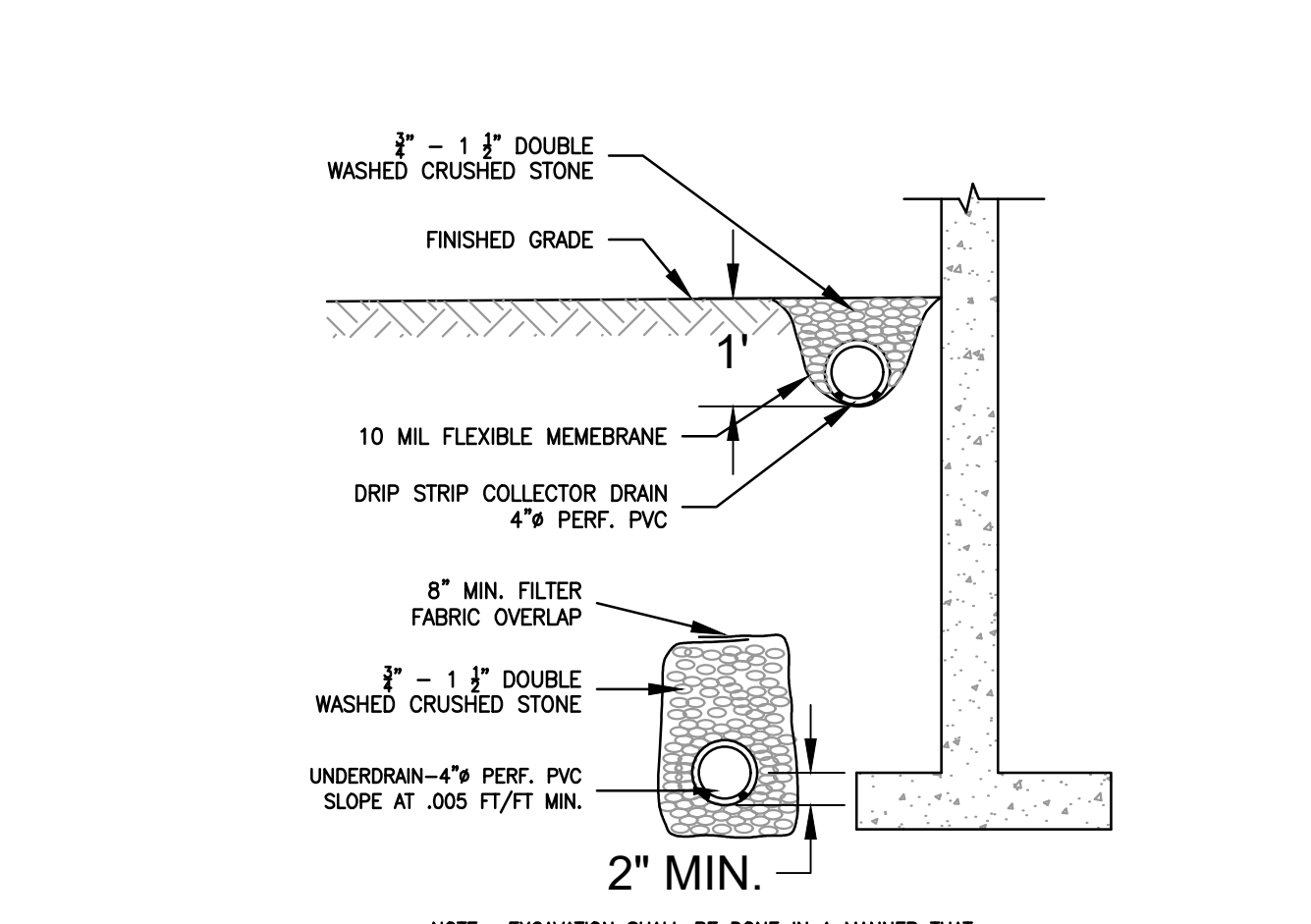
8 SILTY FENCE WITH STRAW WATTLE
NTS



9 WATER MAIN TRENCH IN FIRM GROUND
NTS



10 TRENCH DETAILS FOR HDPE/PVC/RCP GRAVITY PIPE
NTS



11 FLARED END SECTION AND RIP RAP DETAIL
NTS

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Drawing Title
**CIVIL
DETAILS**
Date/Issued For
04.20.23
Planning Board
Submission

NOT FOR
CONSTRUCTION
Print 24x36
Scale
As Noted
Drawn By
MEK
Drawing Number
C-501



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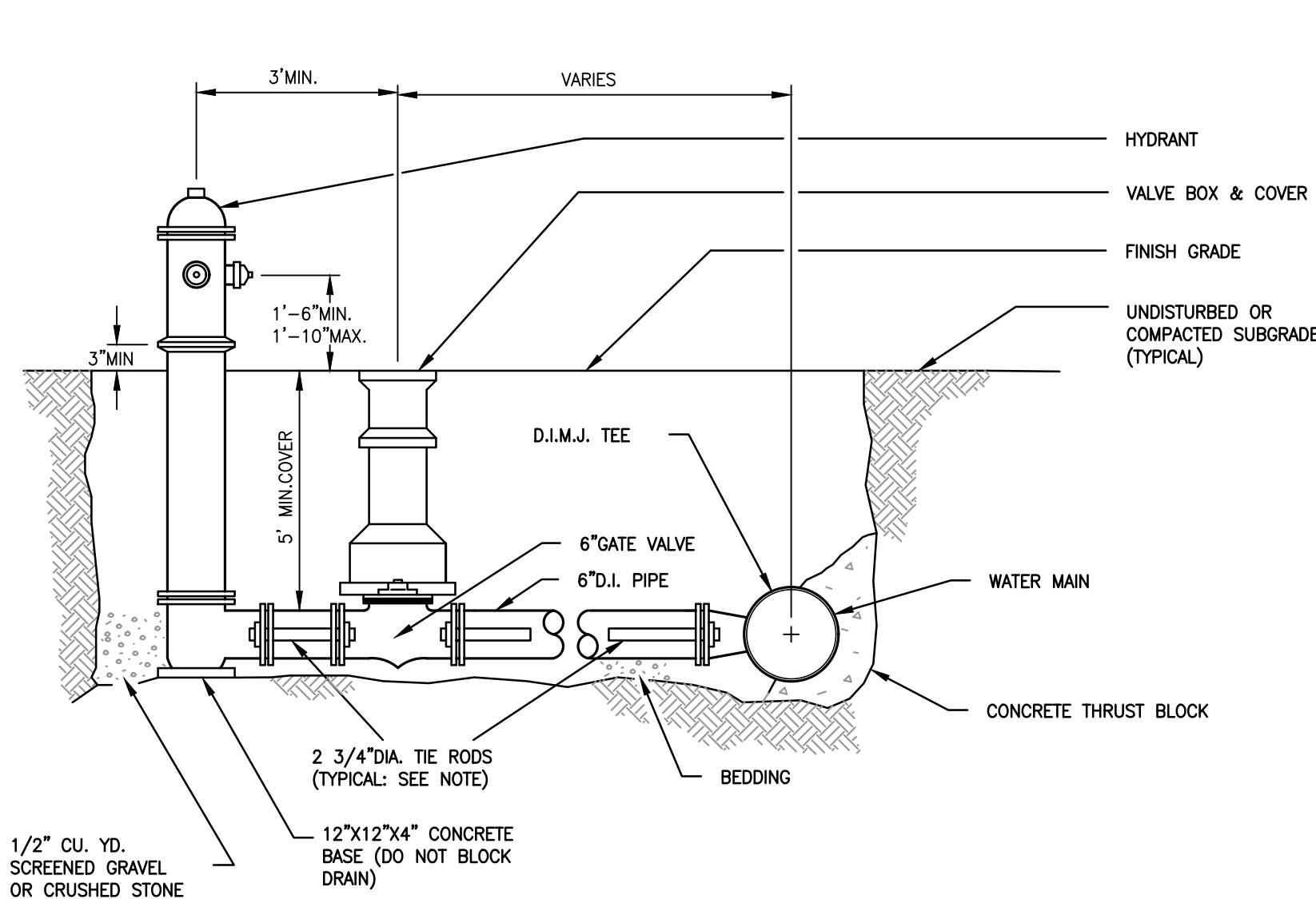
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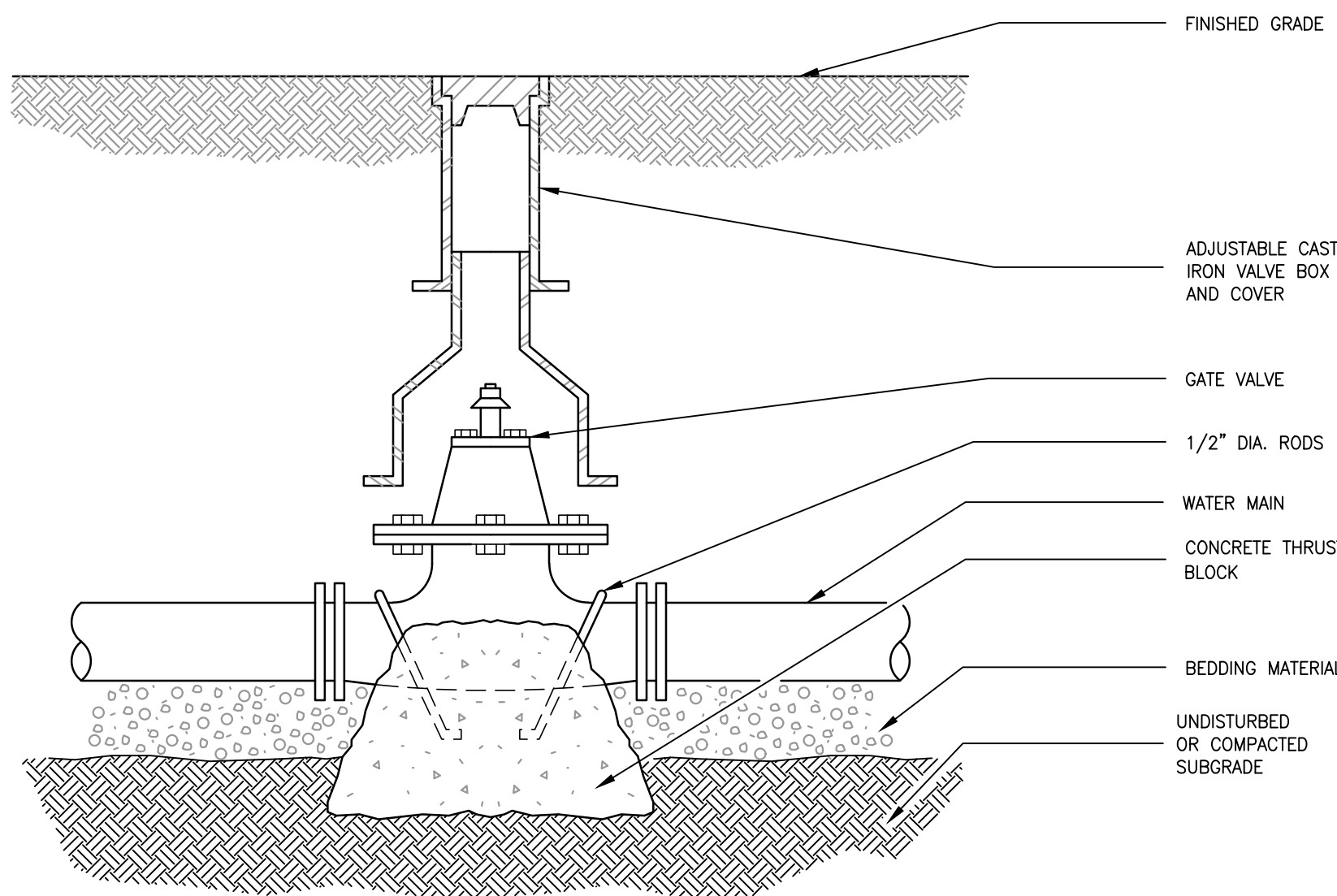
Drawn By
MEK

Drawing Number

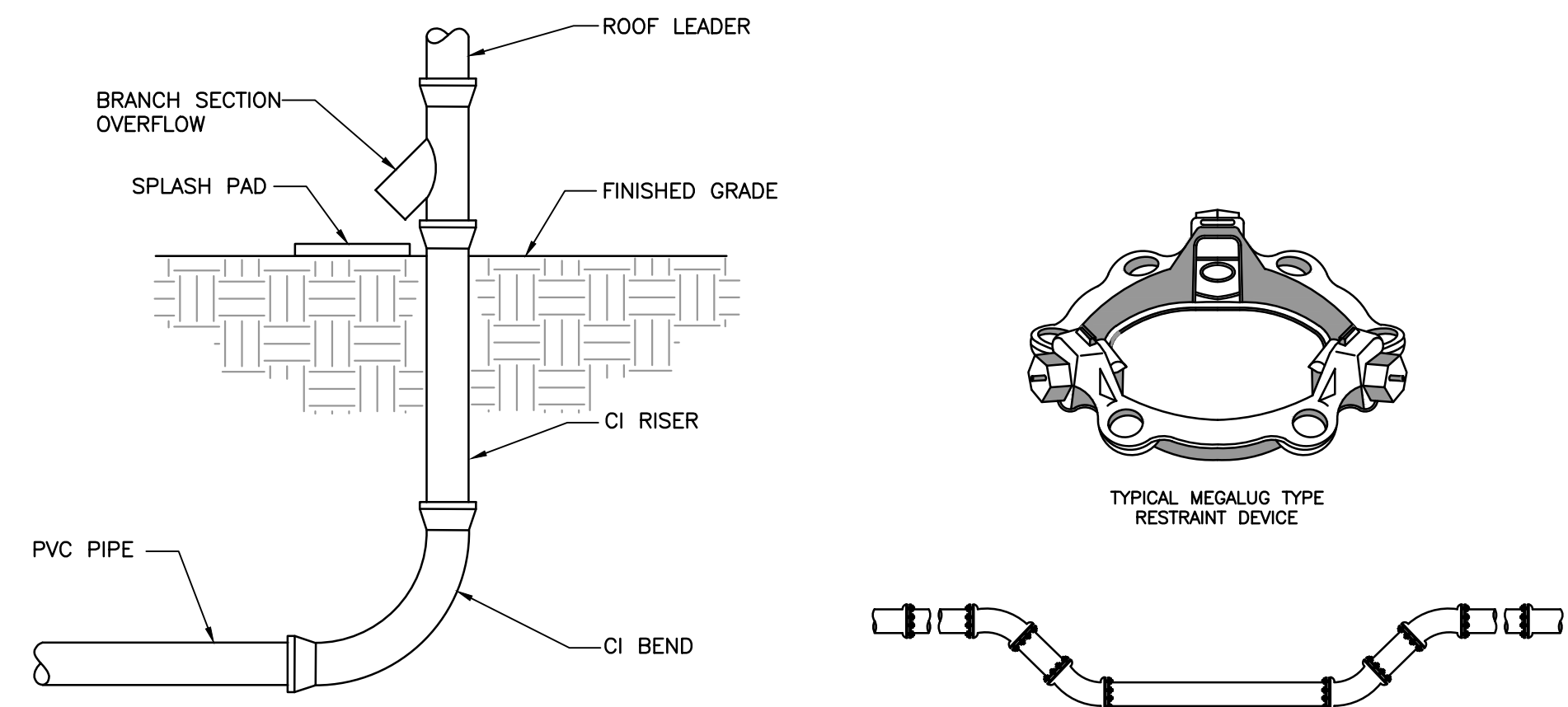
C-502



1 HYDRANT
NTS

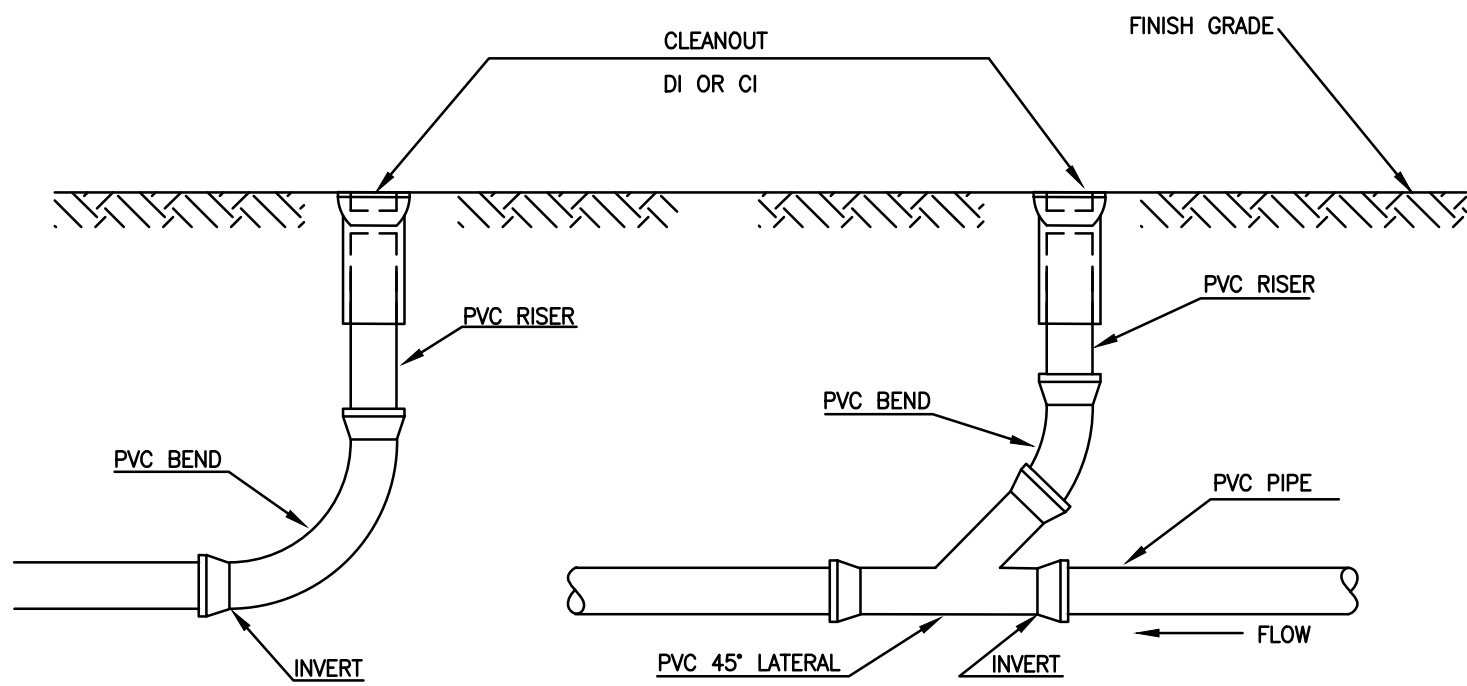


2 GATE VALVE AND BOX
NTS

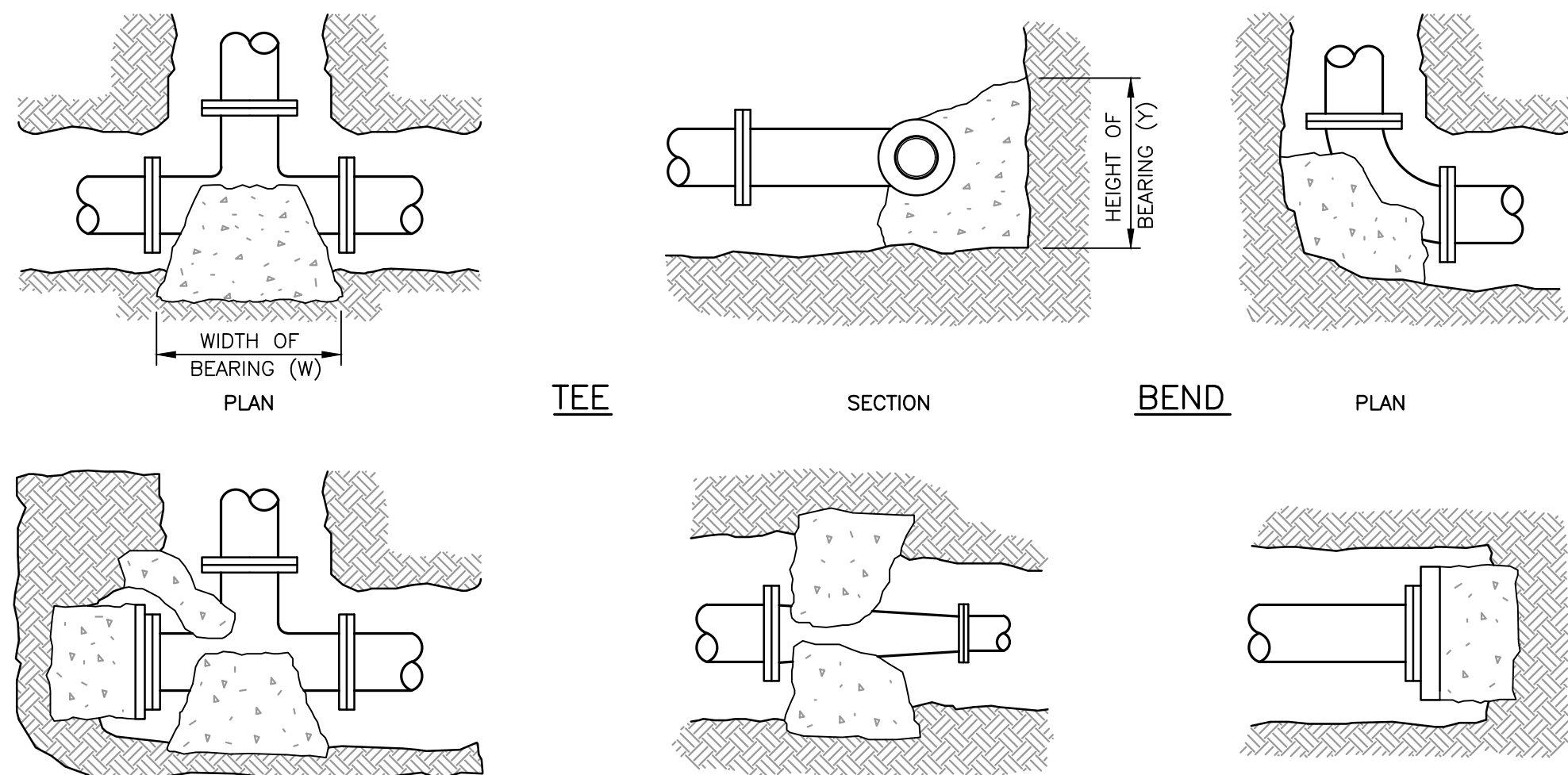


3 ROOF LEADER
NTS

4 MEGALUG DETAIL
NTS



5 CLEANOUT
NTS



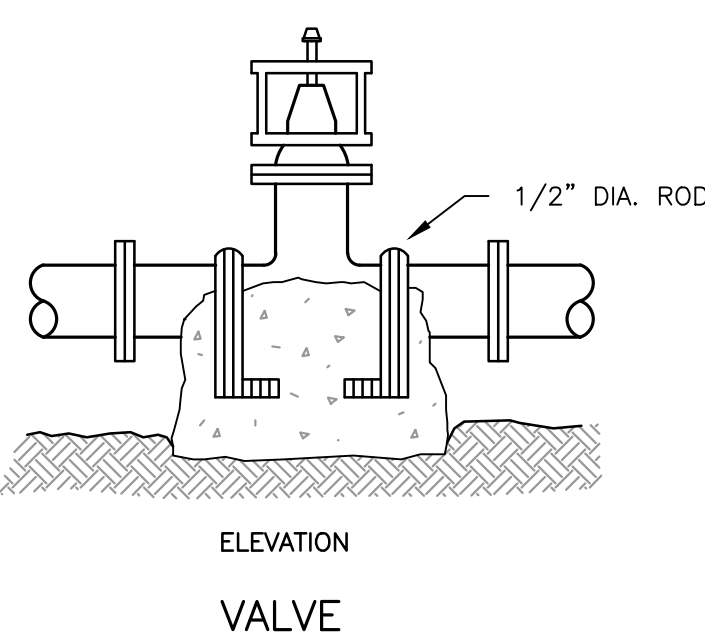
CAPPED TEE

REDUCER

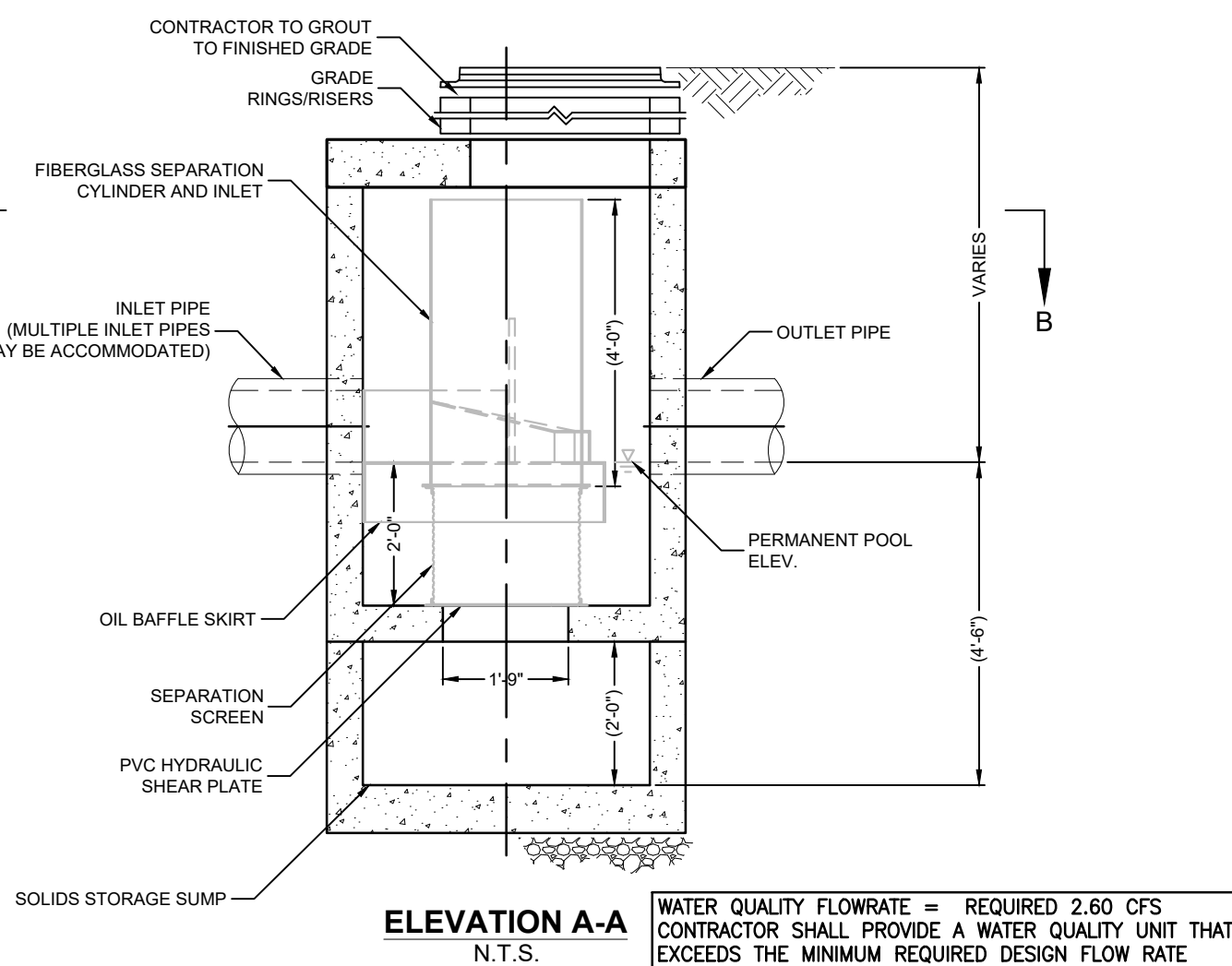
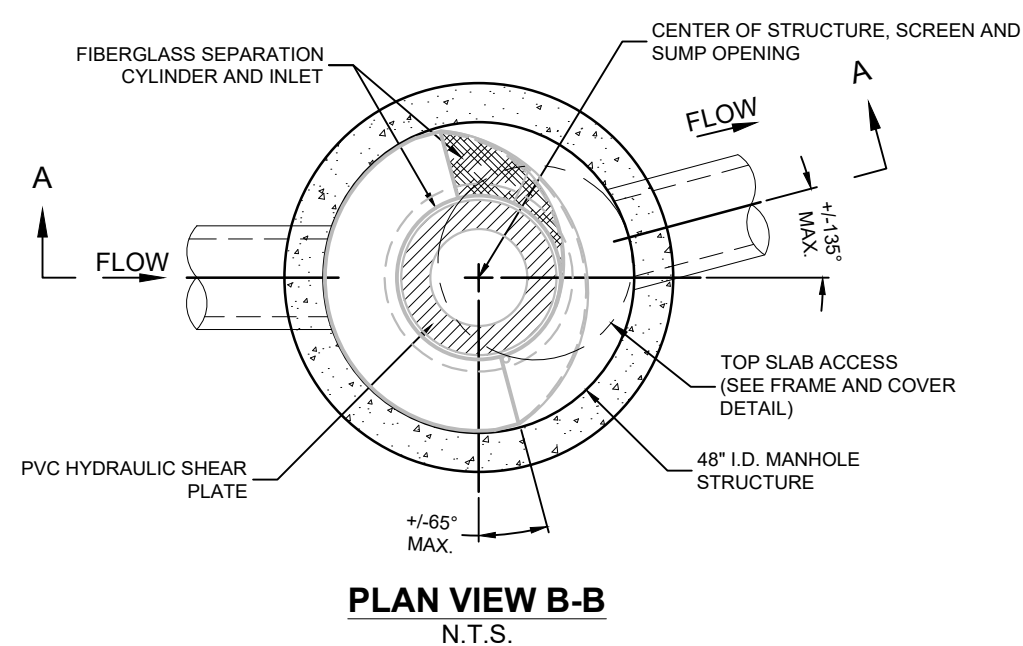
CAP

PIPE SIZE	WATER PIPE	
	TEE, DEAD END, 90° BEND	45° & 22~8° BENDS
4" OR LESS	3 SQ. FEET	3 SQ. FEET
6"	4 SQ. FEET	3 SQ. FEET
8"	6 SQ. FEET	3 SQ. FEET
10"	9 SQ. FEET	5 SQ. FEET
12"	13 SQ. FEET	7 SQ. FEET
16"	23 SQ. FEET	12 SQ. FEET

1. THRUST BLOCKS TO EXTEND TO UNDISTURBED GROUND.
2. ALL CONCRETE SHALL BE CLASS B.
3. TABLE IS BASED ON 3000 LB./SQ. FT. SOIL. IF SOIL CONDITIONS ARE FOUND TO INDICATE SOIL BEARING LESS, THE AREAS SHALL BE INCREASED ACCORDINGLY.
4. AREAS FOR PIPES GREATER THAN 16" SHALL BE CALCULATED FOR EACH PROJECT.
5. FOR ALL NON BEARING VERTICAL SURFACES.

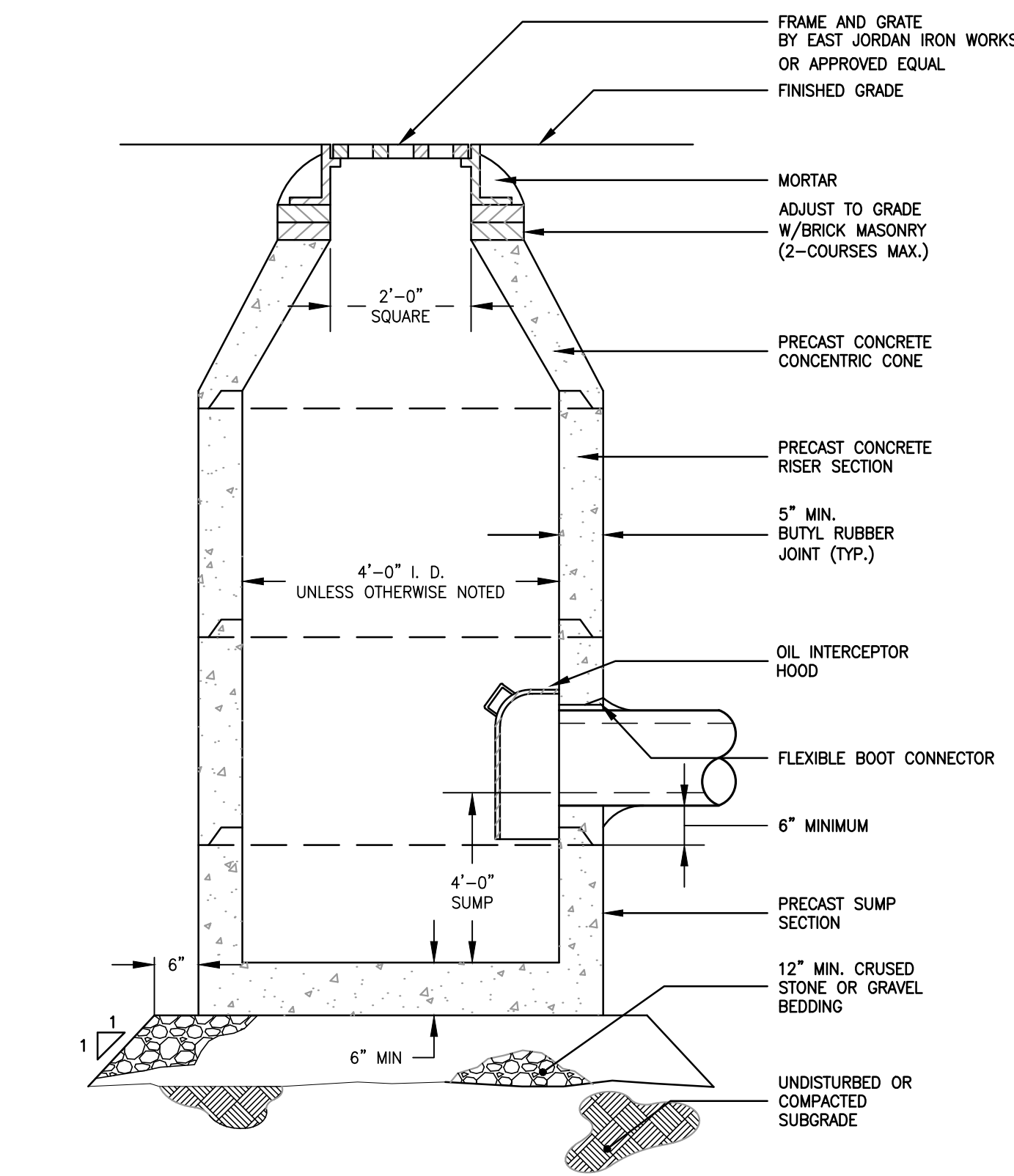


7 THRUST BLOCKS (WATER SYSTEM)
NTS

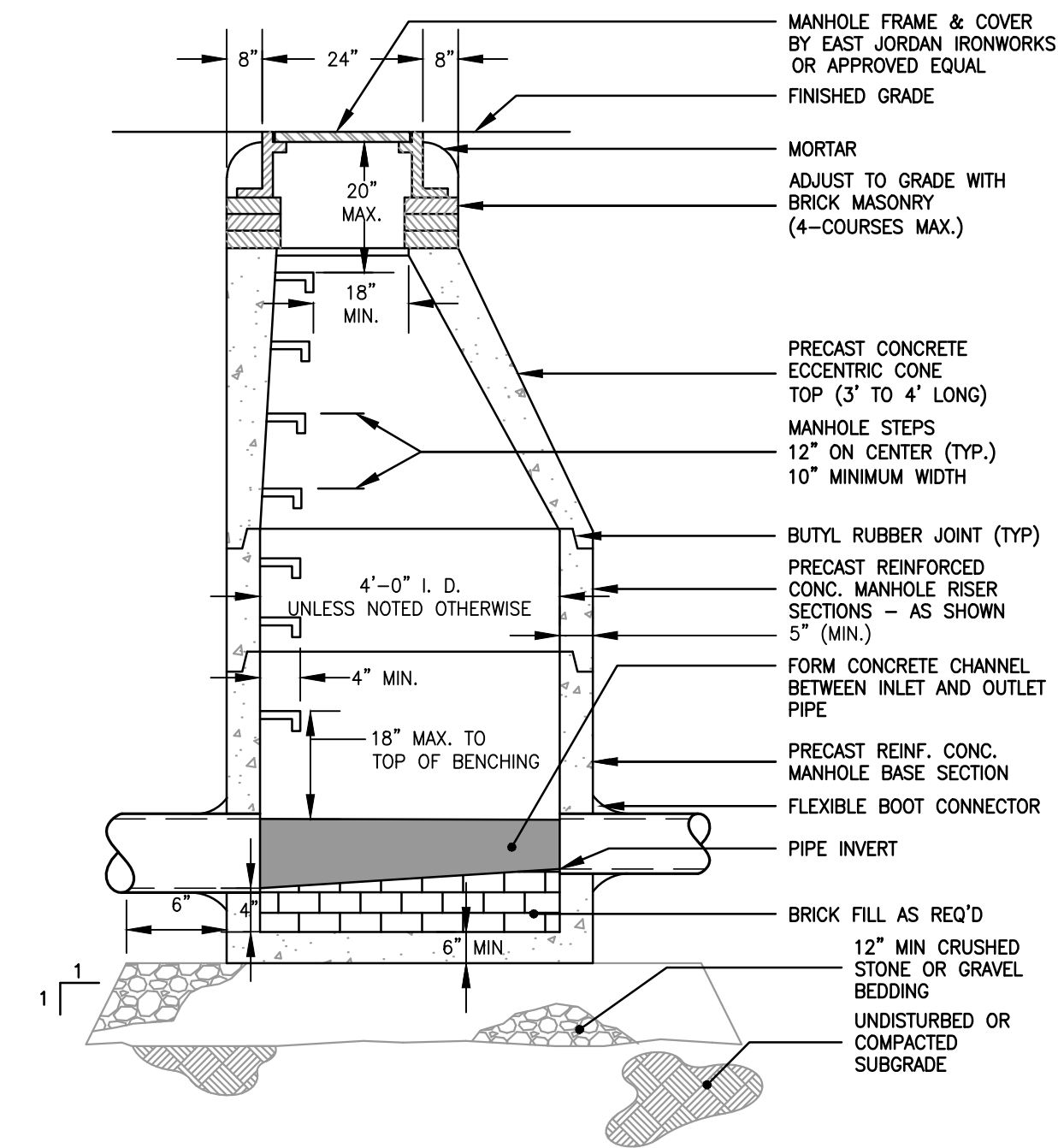


8 WATER QUALITY UNIT DETAIL
NTS

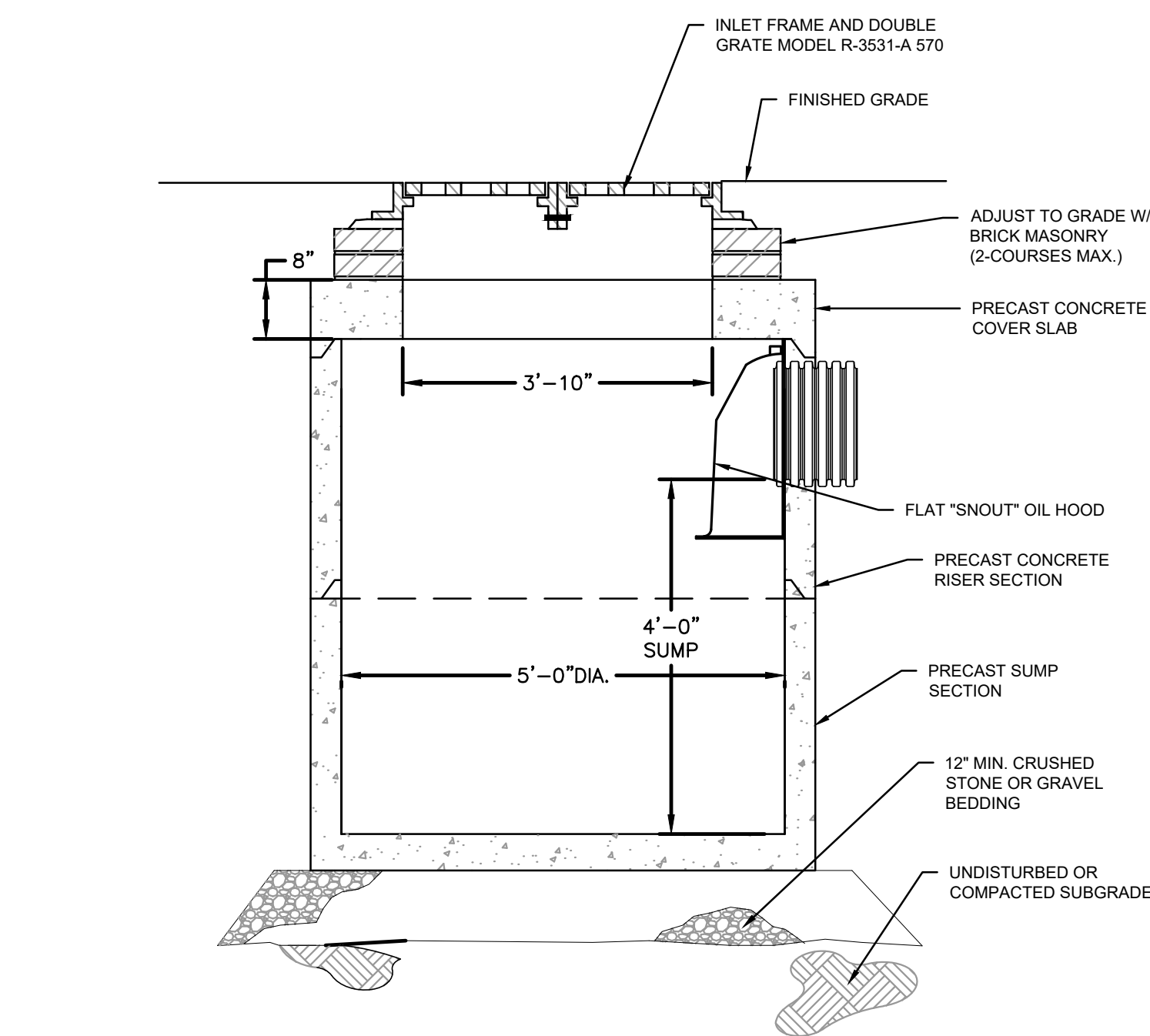
6 WATER PIPE CONNECTION WITH TAPPING SLEEVE AND GATE VALVE



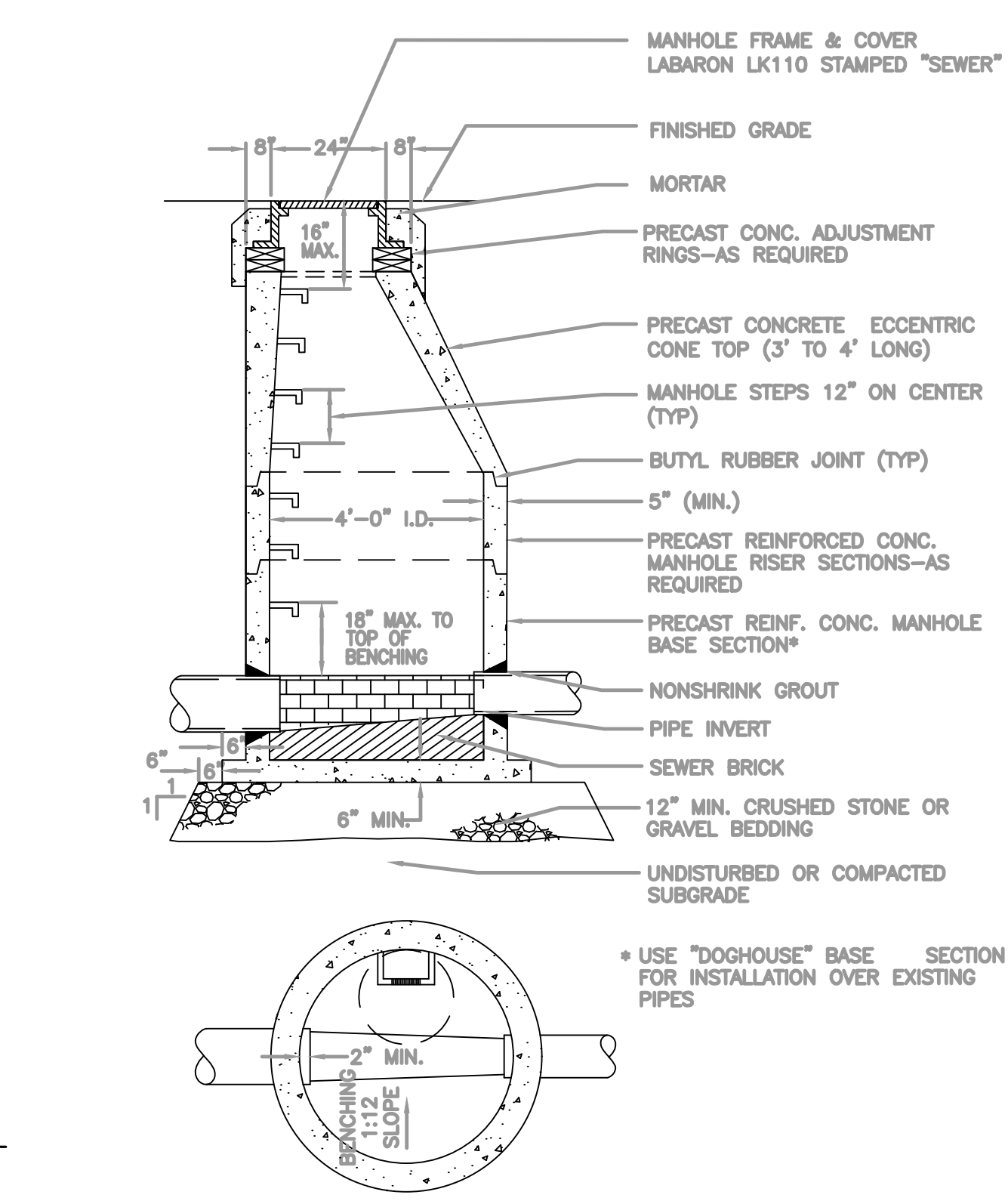
1 CATCH BASIN
NTS



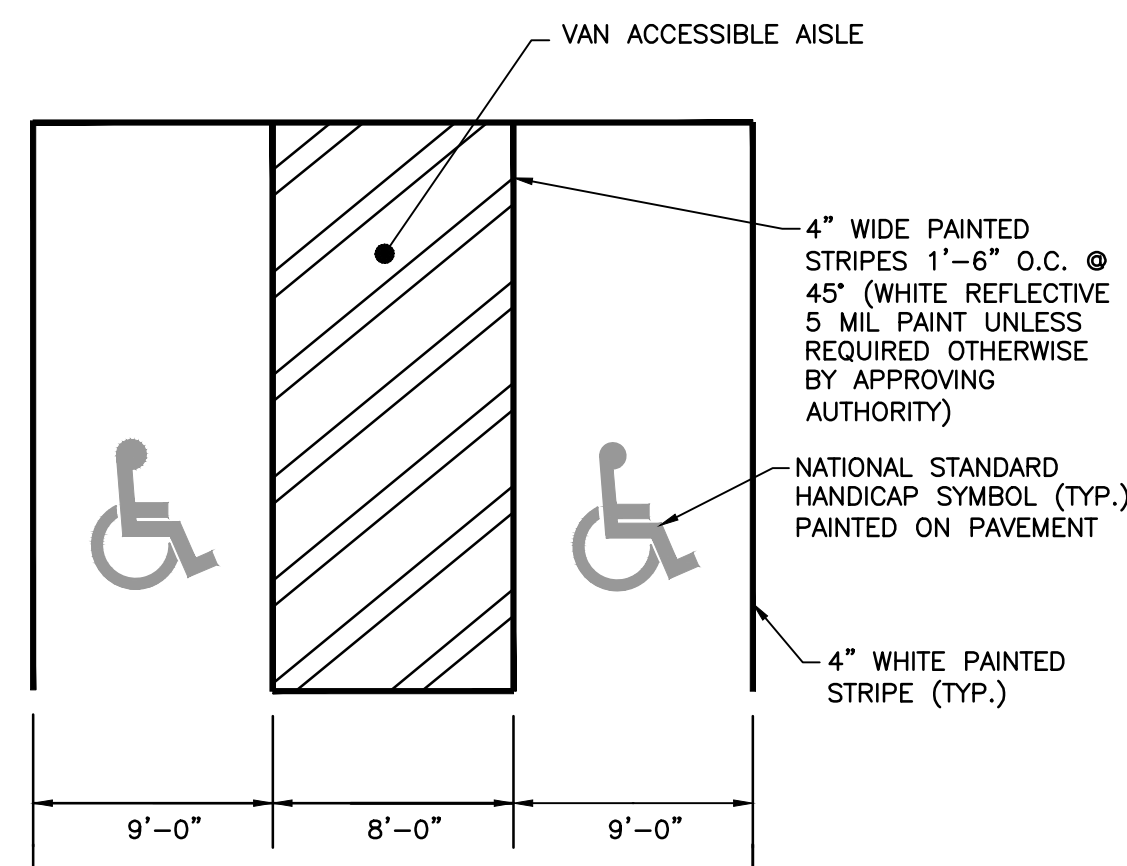
2 PRECAST STORM DRAIN MANHOLE
NTS



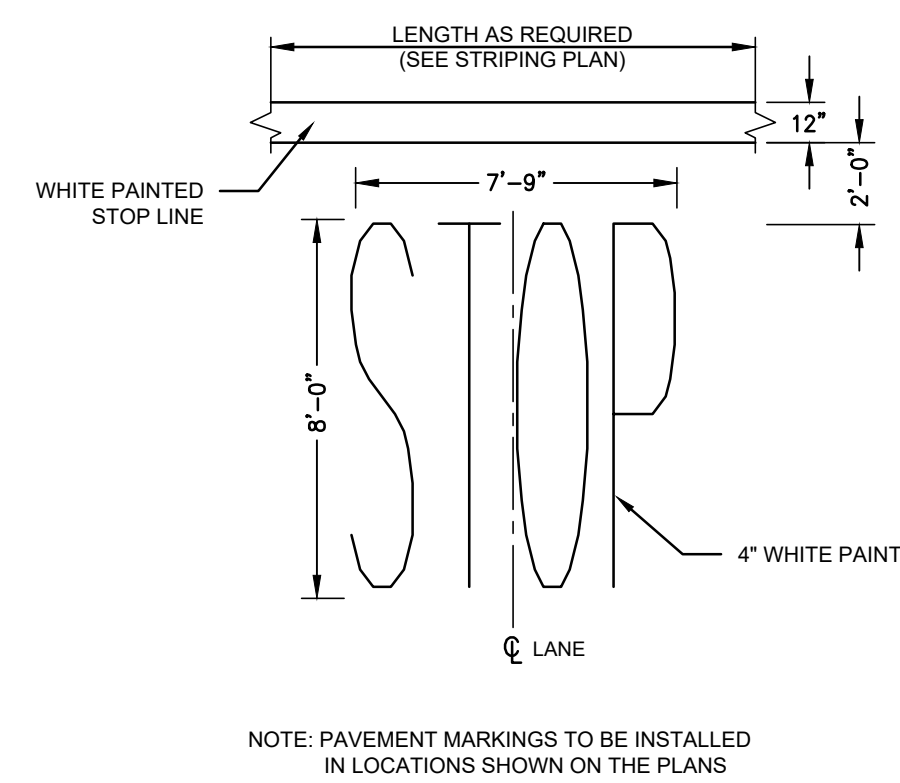
X DOUBLE CATCH BASIN
NTS



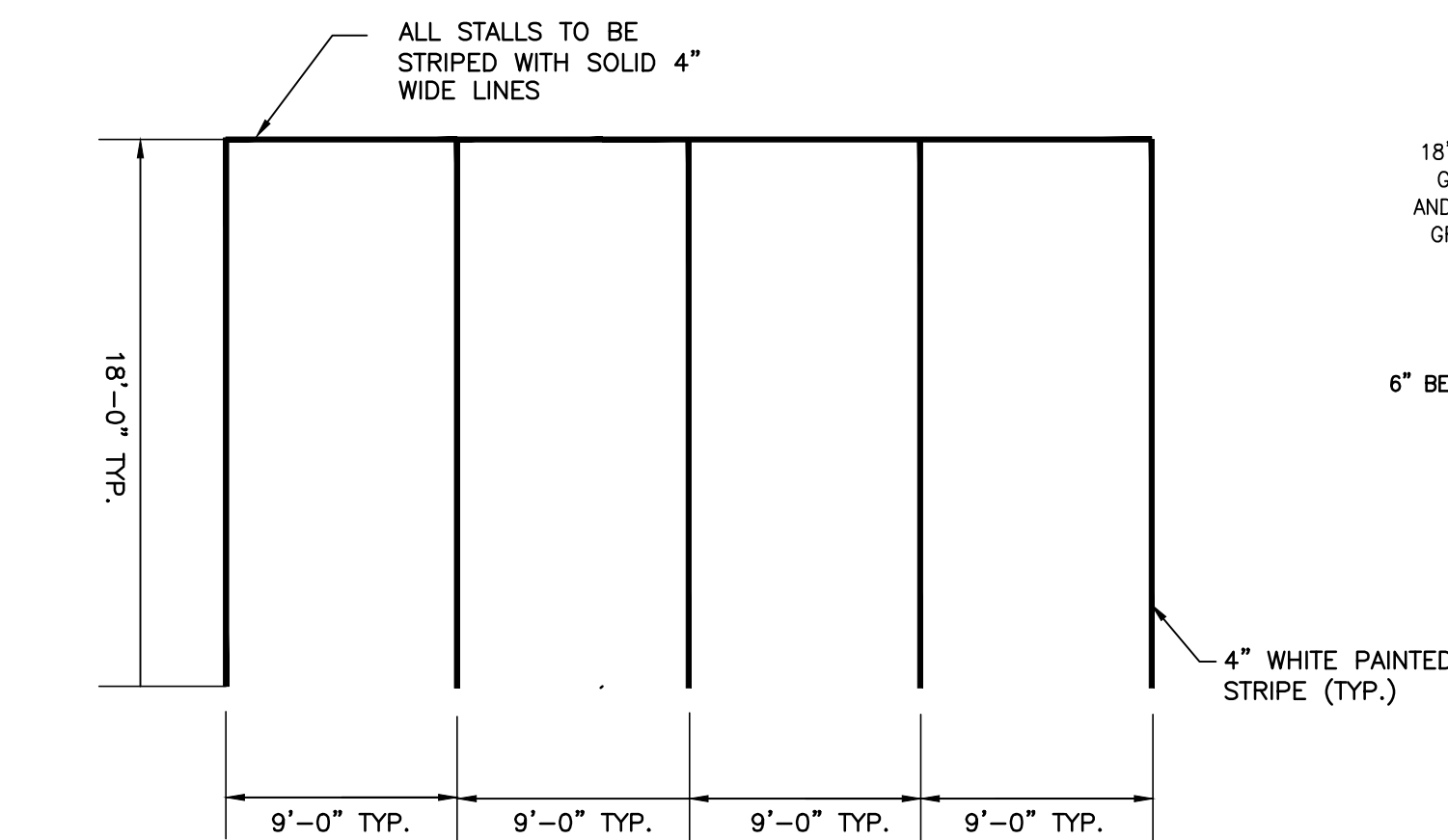
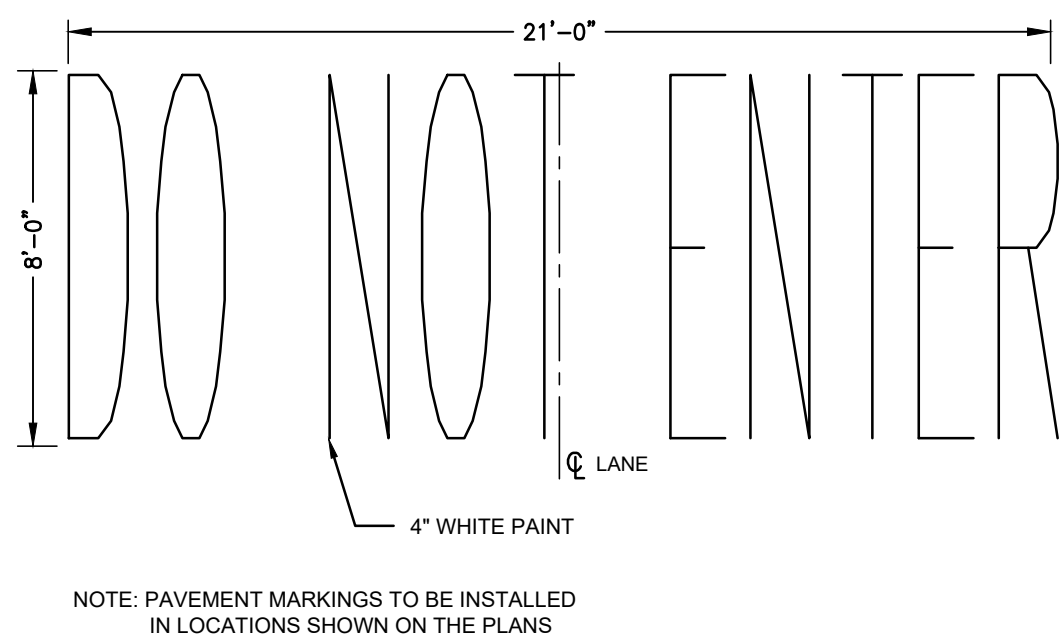
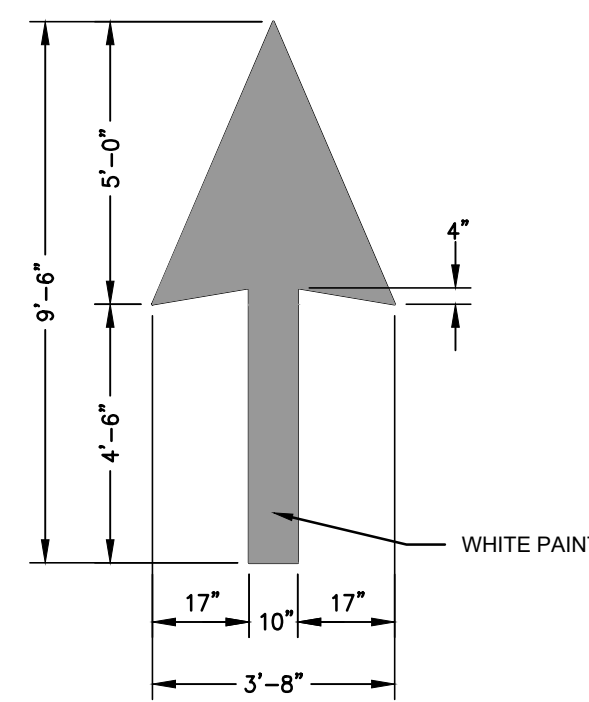
3 PRECAST SANITARY MANHOLE
NTS



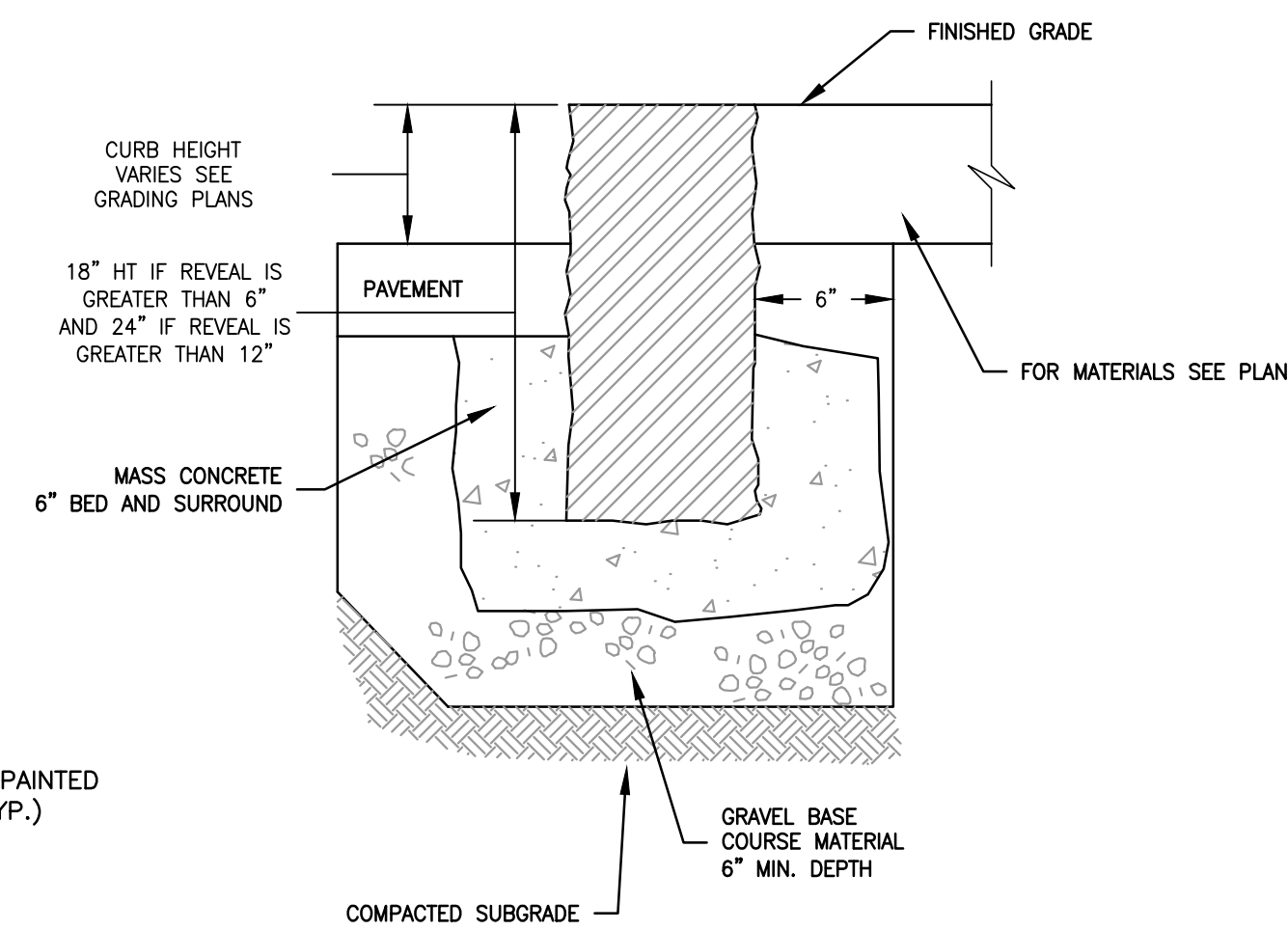
4 HANDICAP PARKING STALL DETAIL
NTS



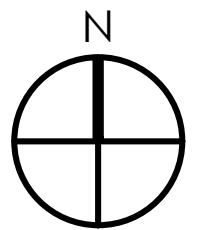
5 PAVEMENT MARKING DETAIL
NTS



6 PAVEMENT MARKING DETAIL
NTS



7 VERTICAL GRANITE CURB
NTS



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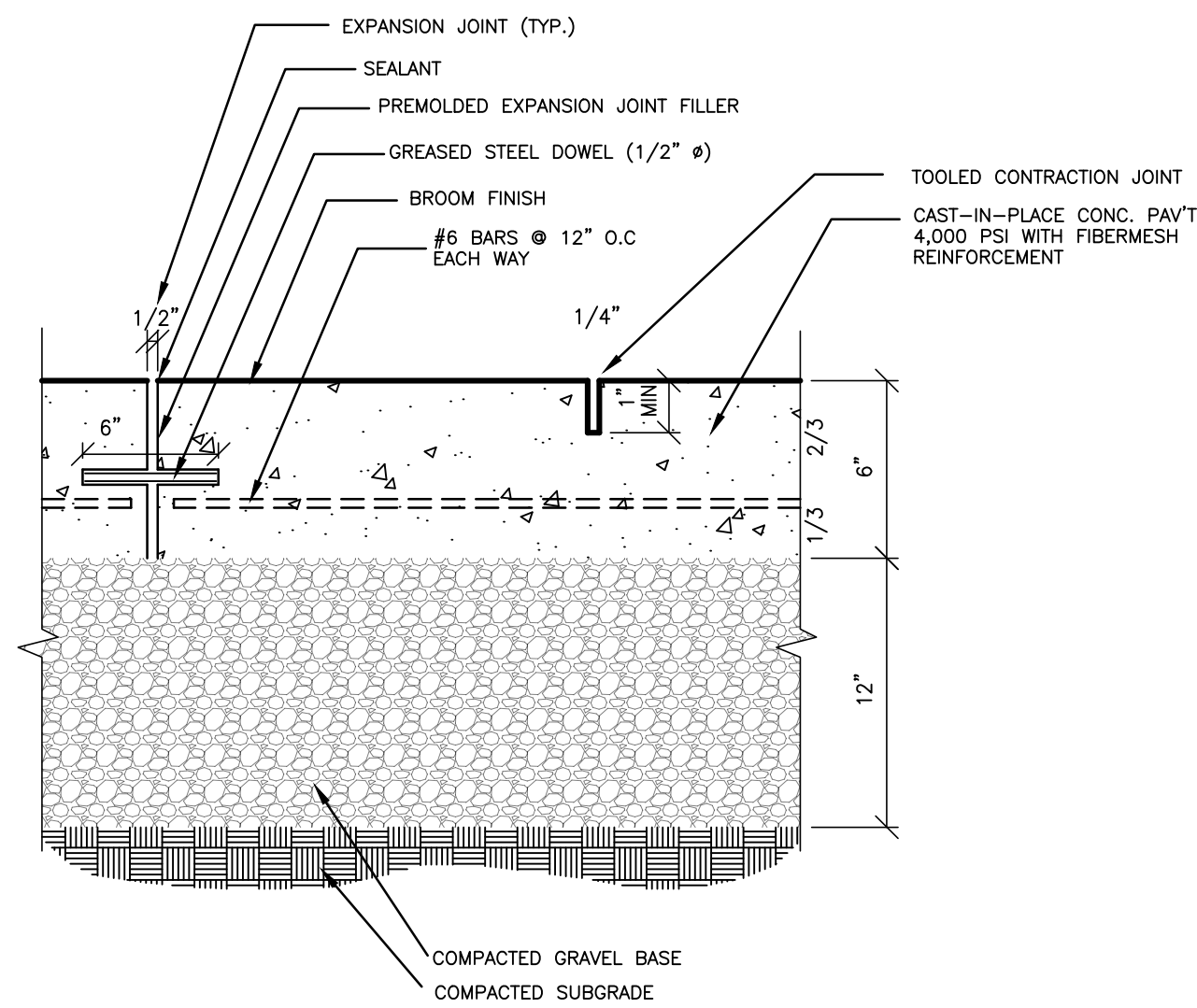
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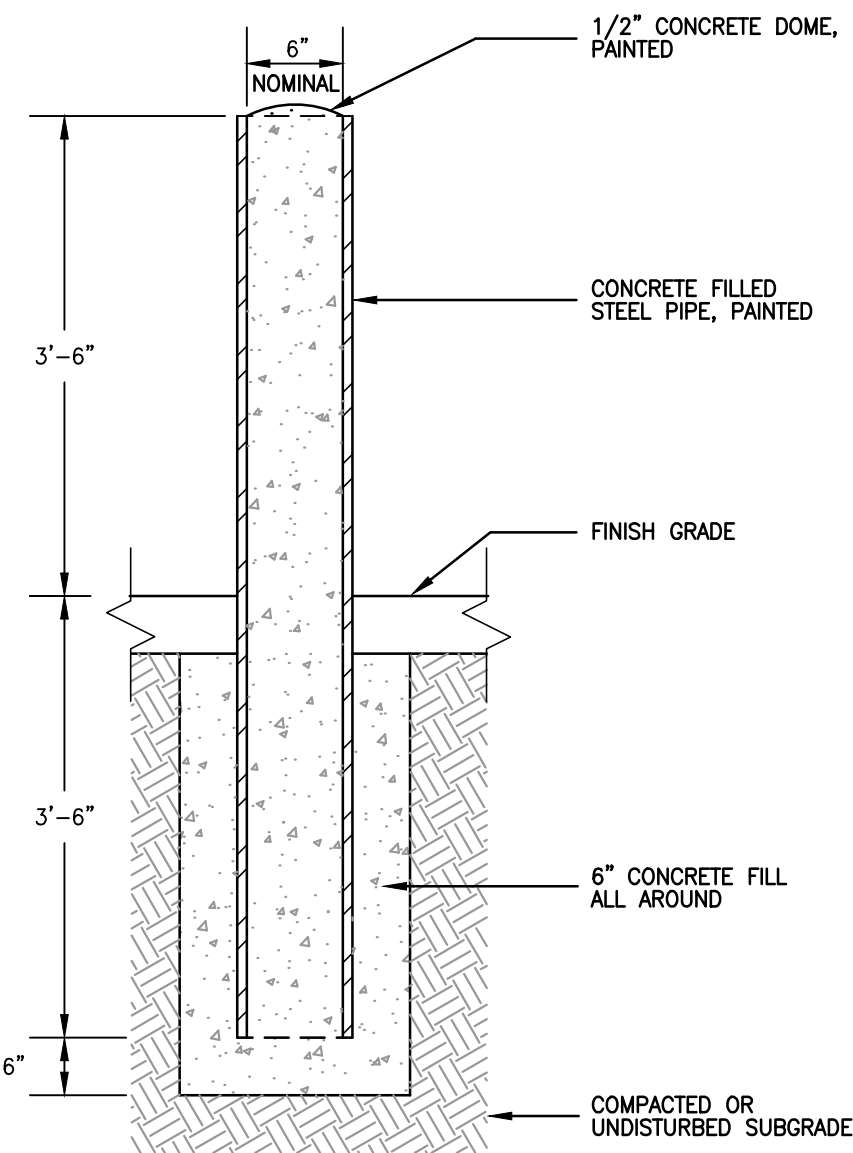
Drawn By
MEK

Drawing Number

C-503



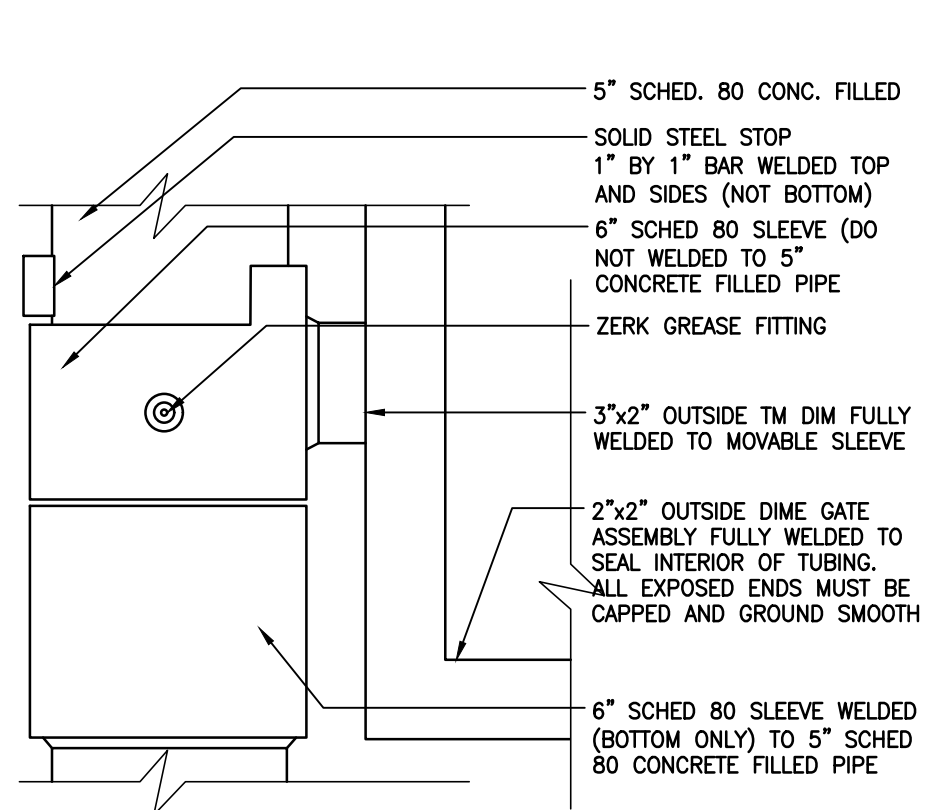
1 CONCRETE DUMPSTER PAD



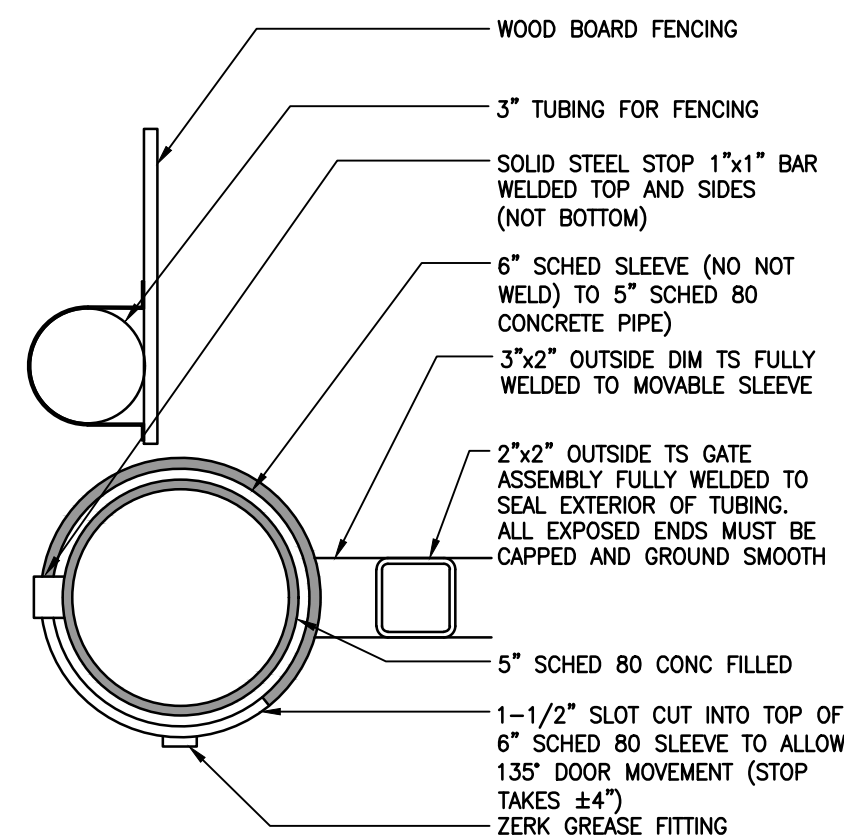
2 CONCRETE FILLED STEEL PIPE BOLLARD
NTS

IDENTIFICATION NUMBER	SIZE OF SIGN (INCHES)		UNIT AREA SF	TEXT SEE MUTCD 2009 FOR TEXT DIMENSIONS AND COLORS	NUMBER OF SIGNS REQUIRED	AREA IN SQUARE FEET
	WIDTH	HEIGHT				
R1-1	30"	30"	5.18		TBD	10.36
R7-8	12"	18"	1.50		TBD	6.00
R7-8P	18"	9"	1.13		TBD	4.52
R5-1	30"	30"	6.25		TBD	12.50
R6-1(L)	36"	12"	3.00		TBD	3.00

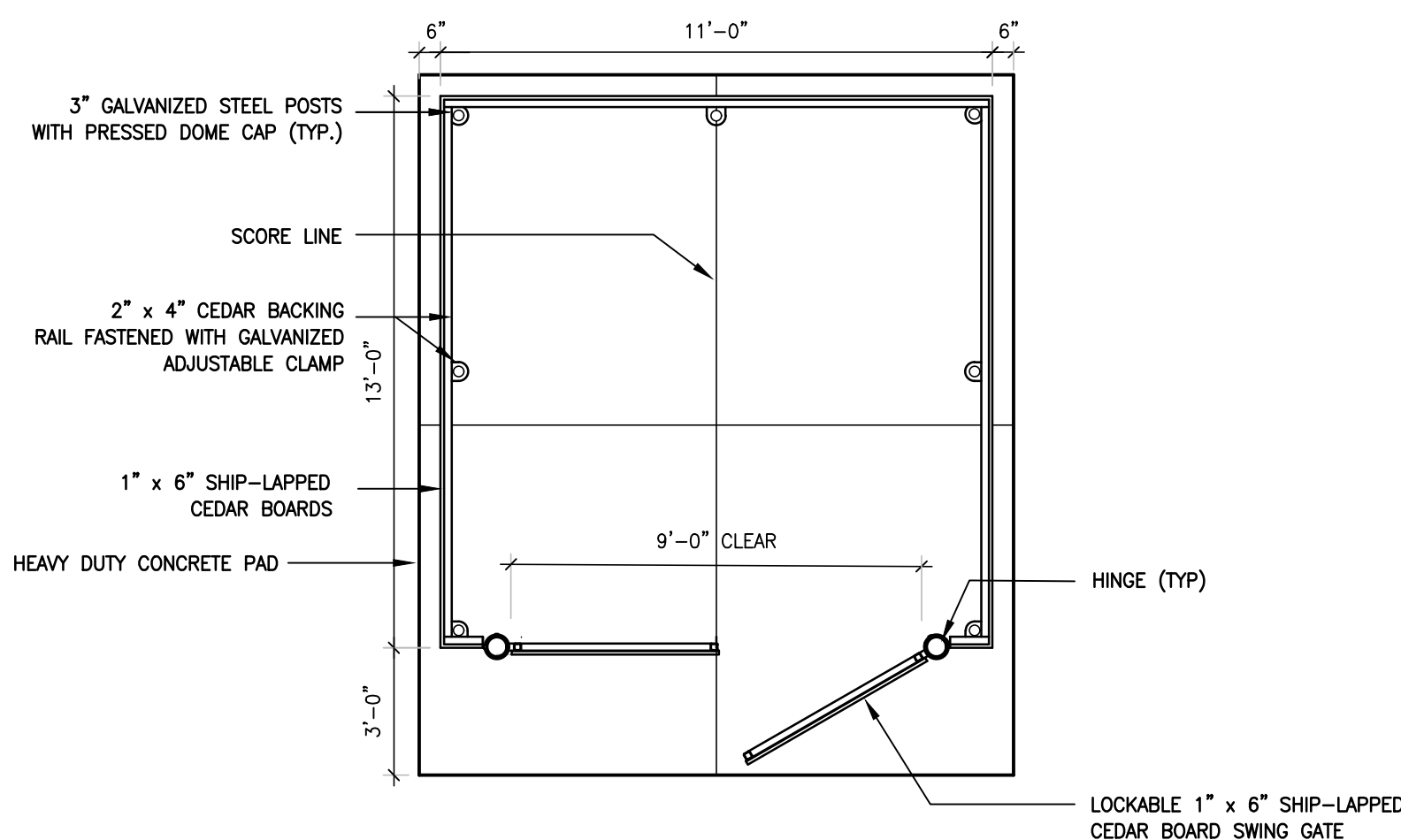
3 TRAFFIC SIGNAGE SCHEDULE
NTS



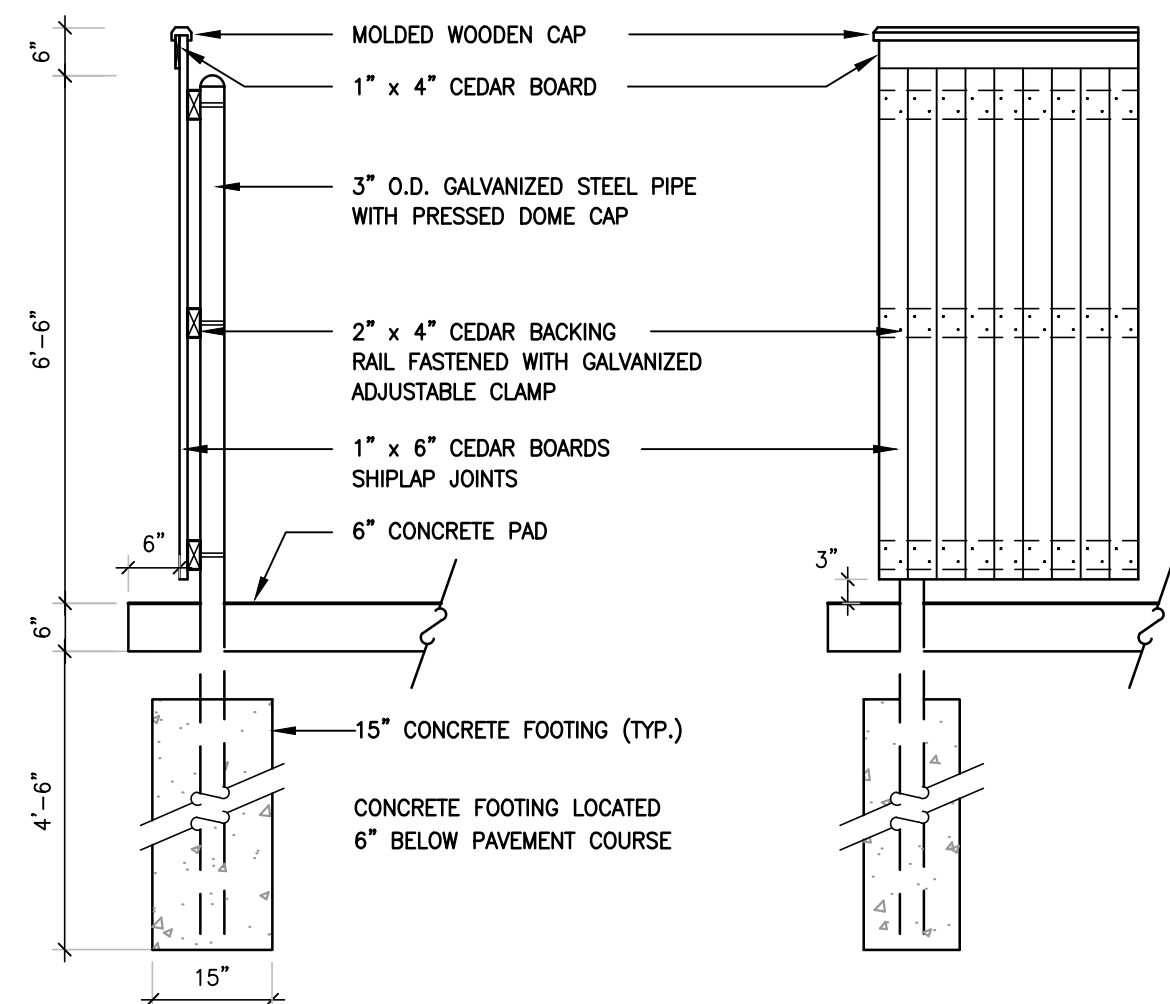
HINGE DETAIL



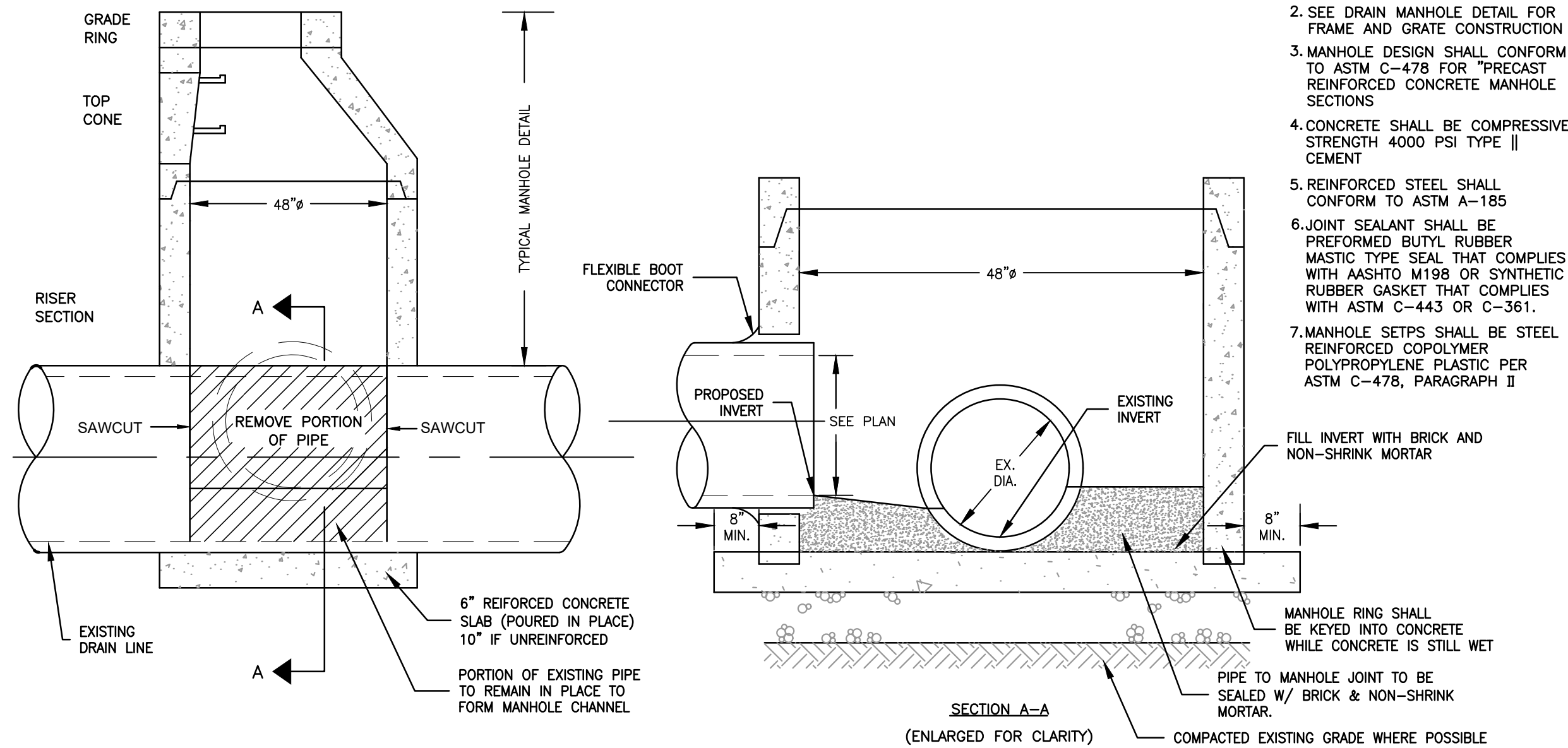
HINGE DETAIL (PLAN)



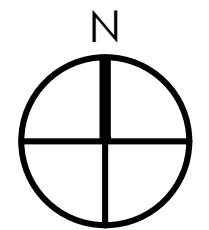
4 DUMPSTER ENCLOSURE PLAN & ENCLOSURE



5 DOGHOUSE MANHOLE DETAIL
NTS



- NOTES:
1. DESIGN SLABS FOR H-20 LOADING
 2. SEE DRAIN MANHOLE DETAIL FOR FRAME AND GRATE CONSTRUCTION
 3. MANHOLE DESIGN SHALL CONFORM TO ASTM C-478 FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS"
 4. CONCRETE SHALL BE COMPRESSIVE STRENGTH 4000 PSI TYPE II CEMENT
 5. REINFORCED STEEL SHALL CONFORM TO ASTM A-185
 6. JOINT SEALANT SHALL BE PREFORMED BUTYL RUBBER MASTIC TYPE SEAL THAT COMPLIES WITH AASHTO M198 OR SYNTHETIC RUBBER GASKET THAT COMPLIES WITH ASTM C-443 OR C-361.
 7. MANHOLE SETPS SHALL BE STEEL REINFORCED COPOLYMER POLYPROPYLENE PLASTIC PER ASTM C-478, PARAGRAPH II



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