



THE
GUTIERREZ COMPANY

RESIDENCES AT
STONE RIDGE
PHASE II

300 - 400 DEER STREET
MILFORD, MA

05/11/2021	RESPONSE TO SEWER DEPARTMENT
03/29/2021	RESPONSE TO TOWN COMMENTS
03/19/2021	RESPONSE TO SEWER DEPARTMENT
03/09/2021	CONFORMANCE SET
02/23/2021	SEWER DEPARTMENT REVIEW
09/14/2020	CONFORMANCE SET
03/13/2020	COMPREHENSIVE PERMIT
01/06/2020	PROJECT ELIGIBILITY APPLICATION
DATE:	DESCRIPTION:
ISSUE LOG	

△ = CLOUDED CHANGE



SCALE	1"=40'
DRAWN BY	DCC
CHECK BY	WMP
PROJ. ENGR.	JAH
PROJ. MGR.	SAV
JOB NO.	19162

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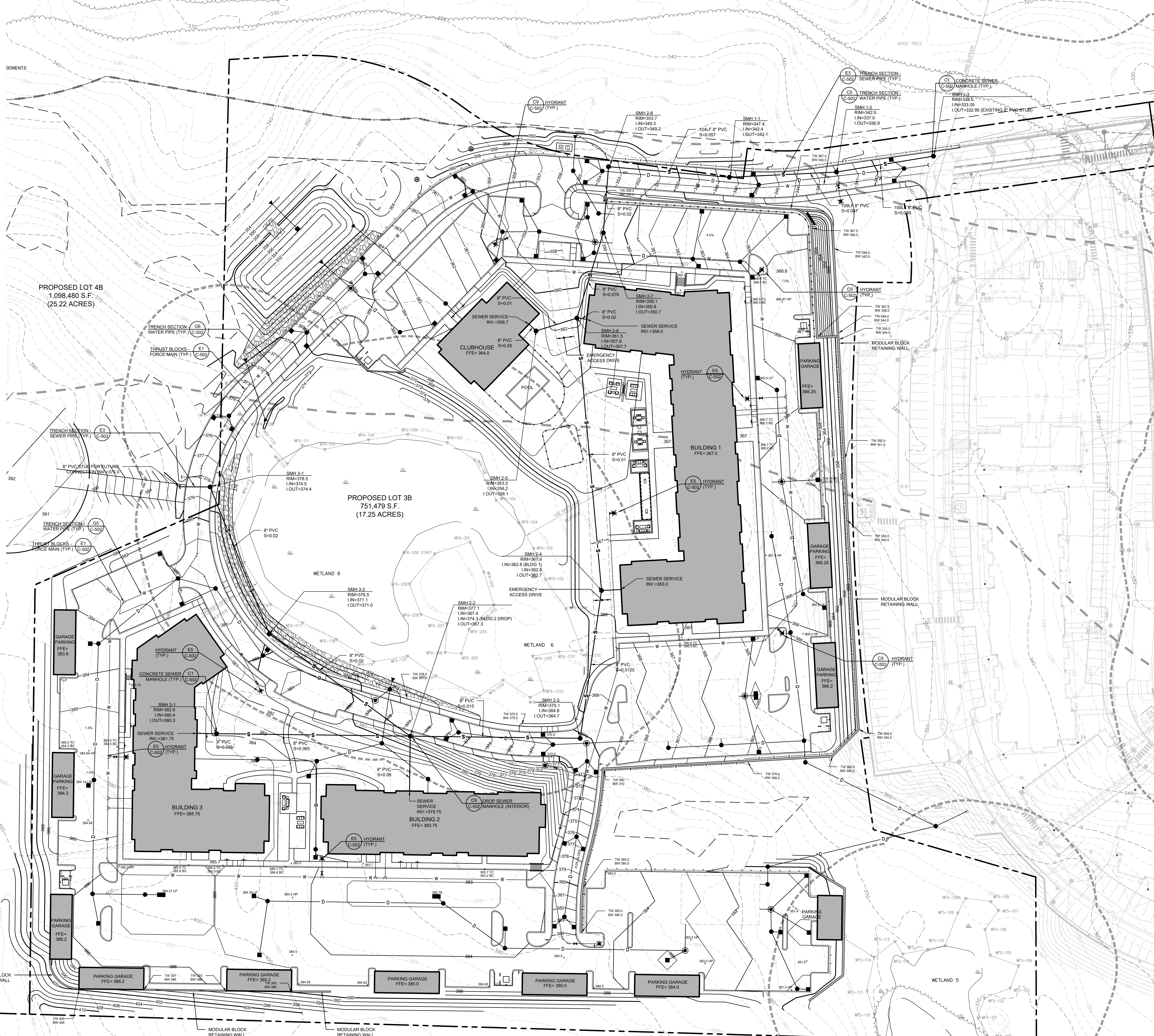
UTILITIES
PLAN

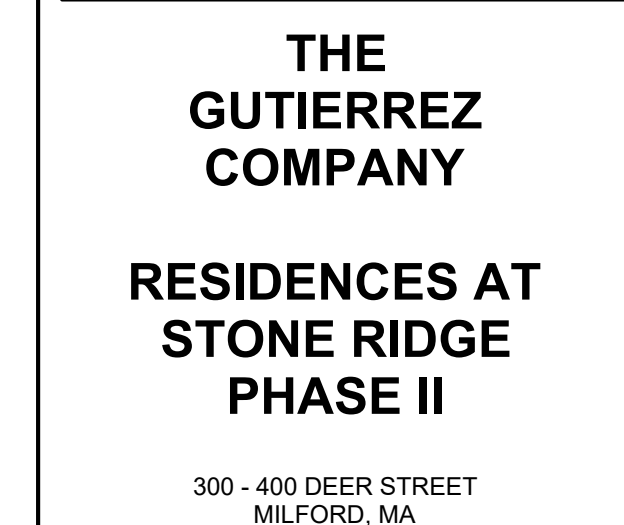
C-141

LEGEND	
● SMH	SEWER MANHOLE
○	HYDRANT
• PIV	POST INDICATOR VALVE
□	GENERATOR
□	TRANSFORMER
⊗	RIPRAP
--- 2' ---	2' SPOT GRADE
--- 10' ---	10' CONTOUR
---	WATER LINE
---	DOMESTIC SERVICE
---	FIRE PROTECTION SERVICE
---	SEWER LINE
---	GAS LINE
---	UNDERGROUND ELECTRIC LINE AND TELEPHONE LINE
TC / TW	TOP OF CURB / TOP OF WALL
BC / BW	BOTTOM OF CURB / BOTTOM OF WALL
FFE	FINISH FLOOR ELEVATION
R=	RIM ELEVATION
I=	INVERT ELEVATION
PVC	POLYVINYL CHLORIDE PIPE
CPE	CORRUGATED POLYETHYLENE PIPE
CLDI	CEMENT LINED DUCTILE IRON PIPE
⊕	SOIL BORING

GRADING & UTILITY NOTES:

- PRIOR TO CONSTRUCTION, VERIFY EXISTING UTILITY LOCATIONS AS SHOWN ON THE DRAWINGS. REPORT DISCREPANCIES TO THE OWNER.
- PIPE MATERIALS (UNLESS OTHERWISE SPECIFIED):
STORM DRAIN: CORRUGATED POLYETHYLENE PIPE (CPE)
WATER: CLASS 52 CEMENT LINED DUCTILE IRON (CLDI)
SEWER: POLYVINYL CHLORIDE PIPE (PVC)
- PROVIDE ADEQUATE BRACING AND SHORING OF ALL EXCAVATIONS IN ACCORDANCE WITH ALL GOVERNING CODES AND REGULATIONS.
- PROTECT NEW AND EXISTING UTILITIES TO REMAIN, DURING CONSTRUCTION.
- COORDINATE WORK WITH APPROPRIATE UTILITY COMPANIES.
- CONTACT THE APPROPRIATE UTILITY COMPANY AND "DIG SAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATIONS OF EXISTING UTILITIES. NOTIFY THE ARCHITECT OF ANY UTILITIES INTERFERING WITH THE PROPOSED CONSTRUCTION.
- NOTIFY THE OWNER A MINIMUM OF 5 DAYS PRIOR TO PERFORMING ANY WORK THAT INVOLVES CONFLICTS BETWEEN PROPOSED UTILITIES AND EXISTING UTILITIES TO REMAIN.
- THE GAS, ELECTRIC AND TELEPHONE SERVICES SHOWN ARE APPROXIMATE. COORDINATE ACTUAL LOCATIONS WITH THE APPROPRIATE SUBCONTRACTOR AND UTILITY COMPANY.
- VERIFY EXISTING DRAINAGE AND SEWER INVERTS WHERE NEW UTILITY CONNECTIONS ARE PROPOSED. REPORT DISCREPANCIES FROM EXISTING OR PROPOSED CONNECTING INVERTS SHOWN TO THE OWNER, PRIOR TO PERFORMING ANY DRAINAGE WORK TRIBUTARY TO THE CONNECTION POINT.
- CONFIRM NEW HYDRANTS, VALVES, AND FITTINGS MEET THE REQUIREMENTS OF THE TOWN OF MILFORD FIRE DEPARTMENT AND WATER DEPARTMENT.
- ESTABLISH AND MAINTAIN CONTROL POINTS AND BENCH MARKS NECESSARY FOR THE CONSTRUCTION OF THE PROJECT.
- CONFORM TO RULES & REGULATIONS OF THE MILFORD SEWER DEPARTMENT AND MILFORD WATER COMPANY.



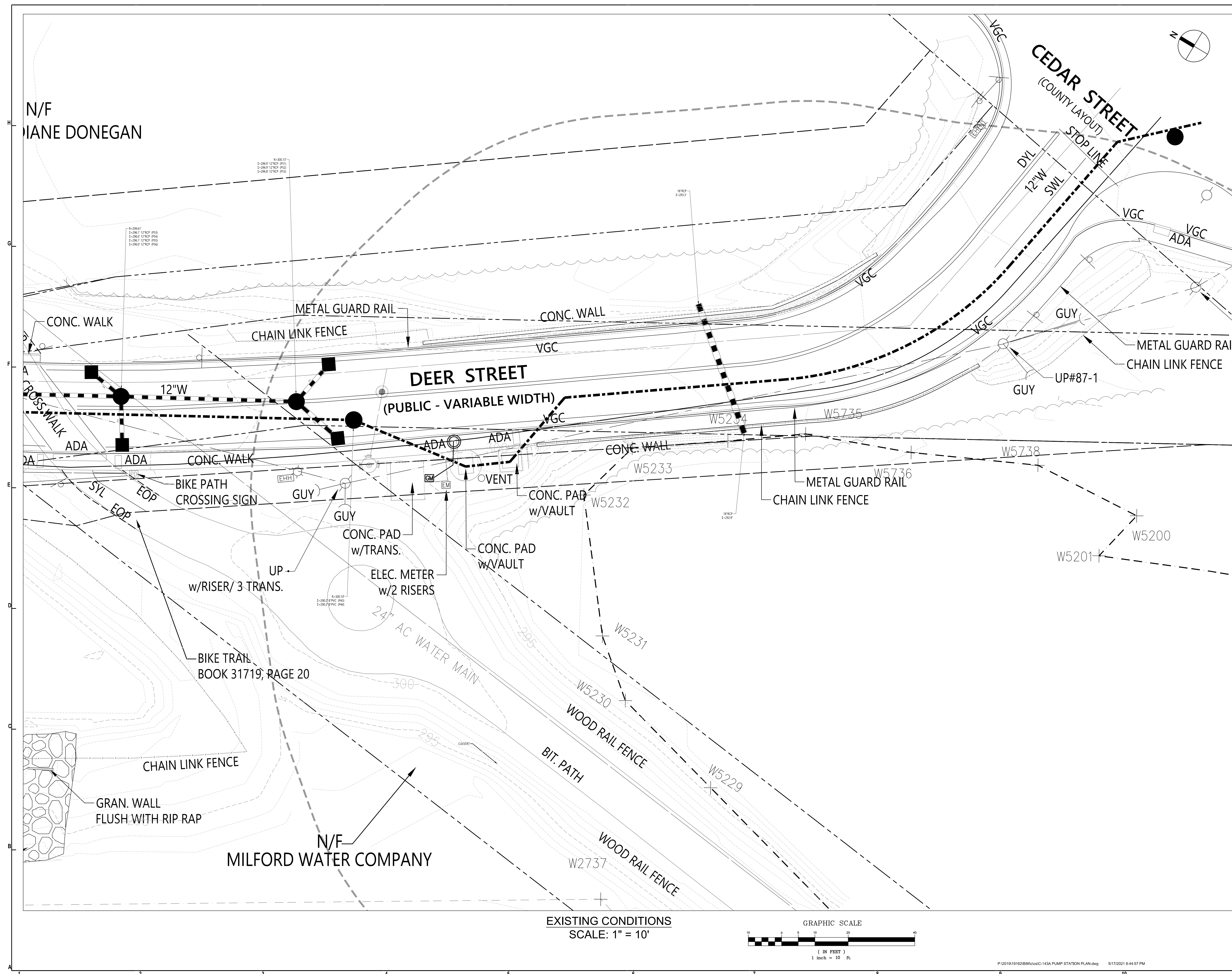
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SCALE	1"=10'
DRAWN BY	DC
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PROJ. MGR.	SA
JOB NO.	1916

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PUMP STATION - EXISTING CONDITIONS PLAN

C-143A



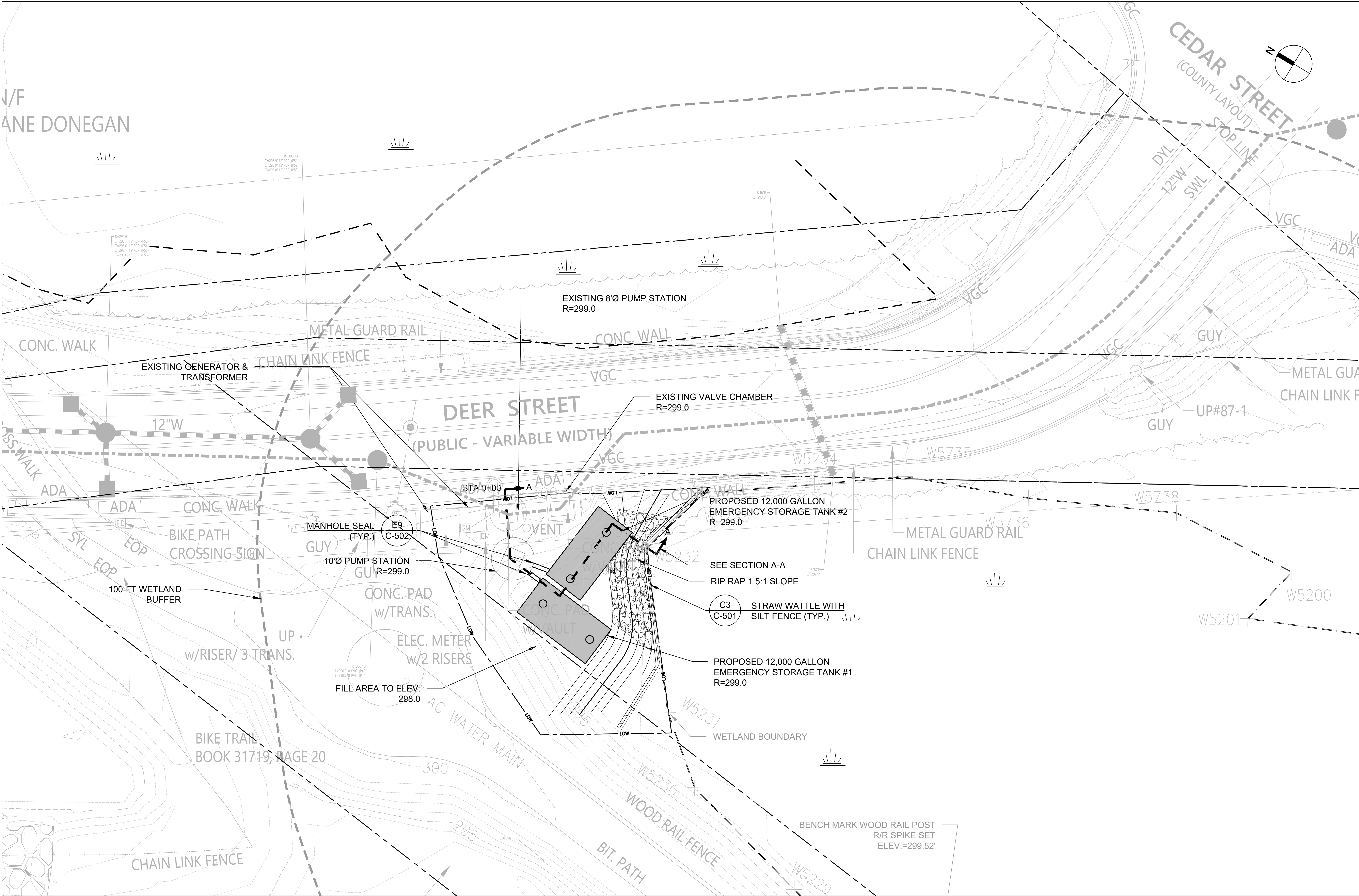
05/11/2021	RESPONSE TO SEWER DEPARTMENT
03/15/2021	RESPONSE TO SEWER DEPARTMENT
03/09/2021	CONFORMANCE SET
02/22/2021	SEWER DEPARTMENT REVIEW
DATE:	DESCRIPTION:
ISSUE LOG	
△ = CLOUDED CHANGE	



SCALE	1"=10'
DRAWN BY	DCC
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PROJ. ARCH/ENGR.	JAH
PROJ. MGR.	SAV
JOB NO.	19162
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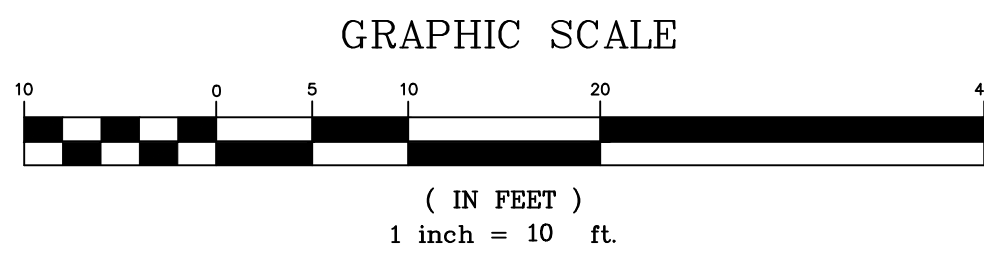
PUMP STATION -
SITE IMPROVEMENT
PLAN

C-143B



SITE IMPROVEMENT PLAN
SCALE: 1" = 10'

LEGEND	
— — — — —	PROPOSED LIMIT OF WORK
- - - - -	PREVIOUSLY-APPROVED LIMIT OF WORK
- - - - -	WETLAND BOUNDARY
— — — — —	STRAW WATTLE



THE
GUTIERREZ
COMPANYRESIDENCES AT
STONE RIDGE
PHASE II300 - 400 DEER STREET
MILFORD, MA

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MARK DATE DESCRIPTION
ISSUE LOG

△ = CLOUDED CHANGE

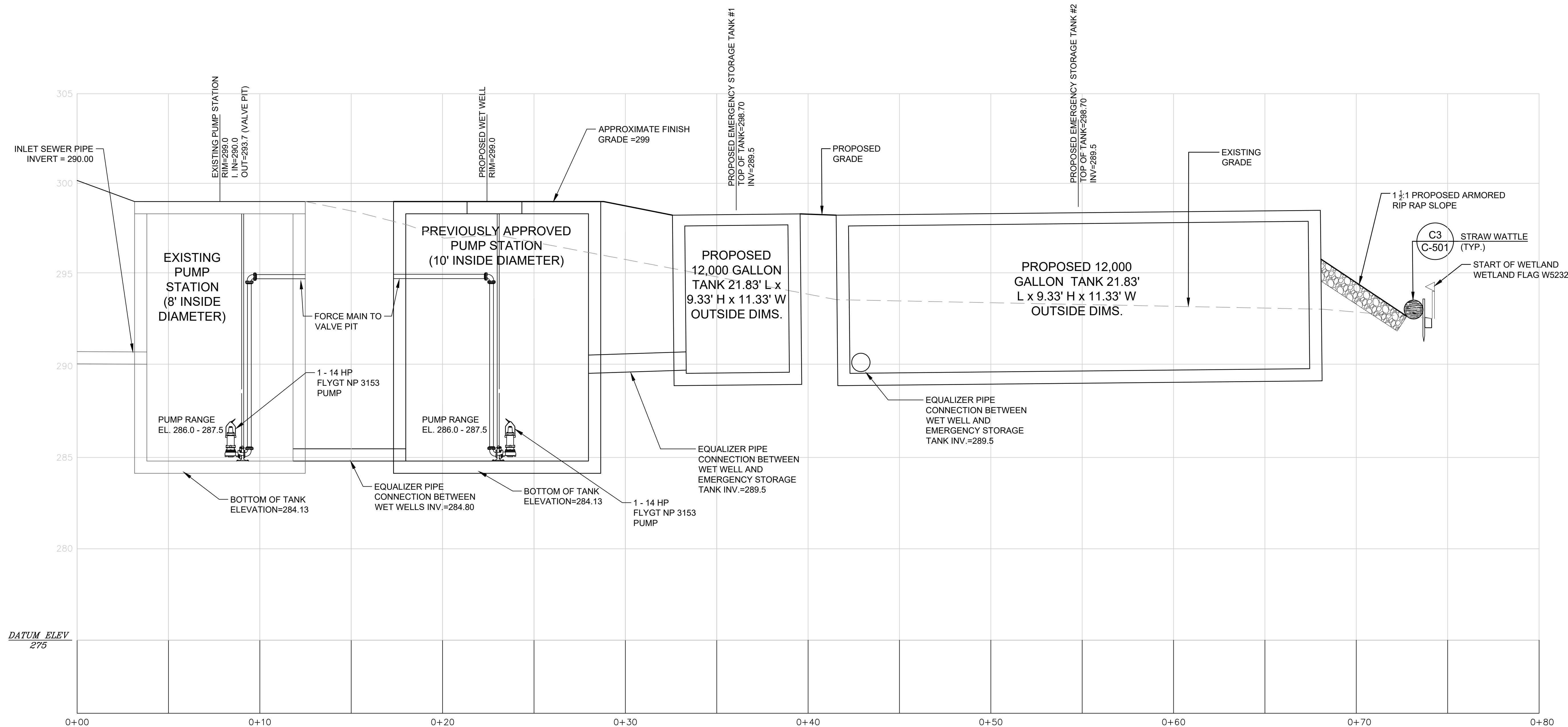
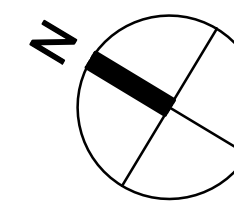


SCALE	1"=3'
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JOB NO.	19162

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PUMP STATION -
SECTION A-A

C-143C

SECTION A-A
SCALE: 1" = 3'

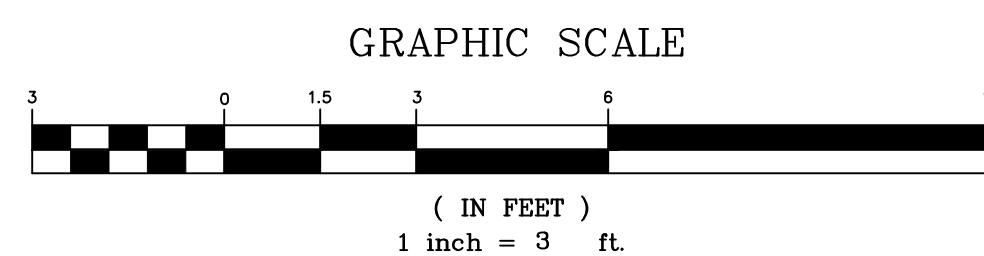
- NOTES:
- EXISTING PUMP STATION TO REMAIN. TWO EXISTING 5HP PUMPS TO BE REMOVED AND REPLACED WITH ONE 14.0 HP PUMP. RAILS, FLOATS, CONTROLS, ETC. TO REMAIN.
 - NEW 10 FOOT INSIDE DIAMETER WET WELL TO BE INSTALLED WITH ONE 14.0 HP PUMP. PUMP TO BE CONNECTED TO EXISTING CONTROL PANEL. NEW RAIL SYSTEM TO BE INSTALLED. PUMP DISCHARGE TO BE CONNECTED TO EXISTING VALVE PIT. EXISTING VALVES TO REMAIN.
 - PUMPS ARE TO FUNCTION AS A DUPLEX SYSTEM ALTERNATING LAG/LEAD.
 - ADDITIONAL LOW AND HIGH WATER ALARM FLOATS TO BE INSTALLED IN NEW WET WELL.
 - NEW TWO 12,000 GALLON EMERGENCY STORAGE TANKS

Wetwell & Pump Elevations:

299.00	Top of Slab
290.00	Invert In
288.00	Lag Pump On & High Water Alarm
287.50	Lead Pump On
286.00	Pumps Off and Alternate
285.80	Low Water Alarm
284.80	Bottom Inside of Chamber

EMERGENCY STORAGE VOLUME PROVIDED
EXISTING PUMP STATION VOLUME ABOVE ELEVATION 289.5 = 3,322 GAL.
PROPOSED WET WELL VOLUME ABOVE ELEVATION 289.5 = 5,185 GAL.
EMERGENCY STORAGE TANK VOLUME = 24,534 GAL.

TOTAL EMERGENCY STORAGE REQUIRED
6 HOURS OF REQUIRED STORAGE = 29,620 GAL
MAXIMUM DAILY FLOW = 118,483 GAL/DAY
STORAGE TIME PROVIDED = 33,041 GAL/118,483 GAL/DAY = 0.279 DAYS OR 6.69 HOURS
MAXIMUM ELEVATION AT 6 HOURS OF STORAGE = 297.0
0.50 FEET OF FREEBOARD AVAILABLE (IN EMERGENCY TANKS)

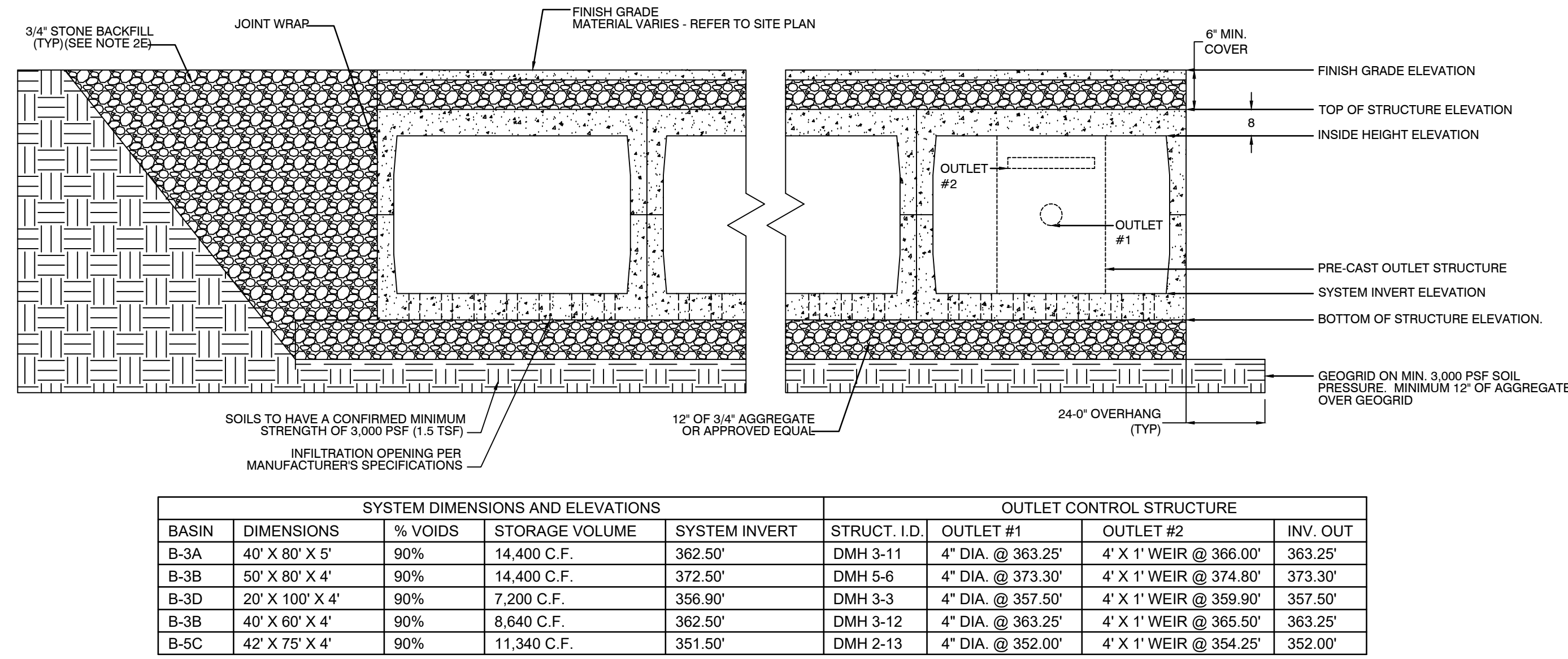


05/11/2021	SEWER DEPARTMENT REVIEW
03/05/2021	CONFORMANCE SET
02/23/2021	SEWER DEPARTMENT REVIEW
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03/13/2020	COMPREHENSIVE PERMIT
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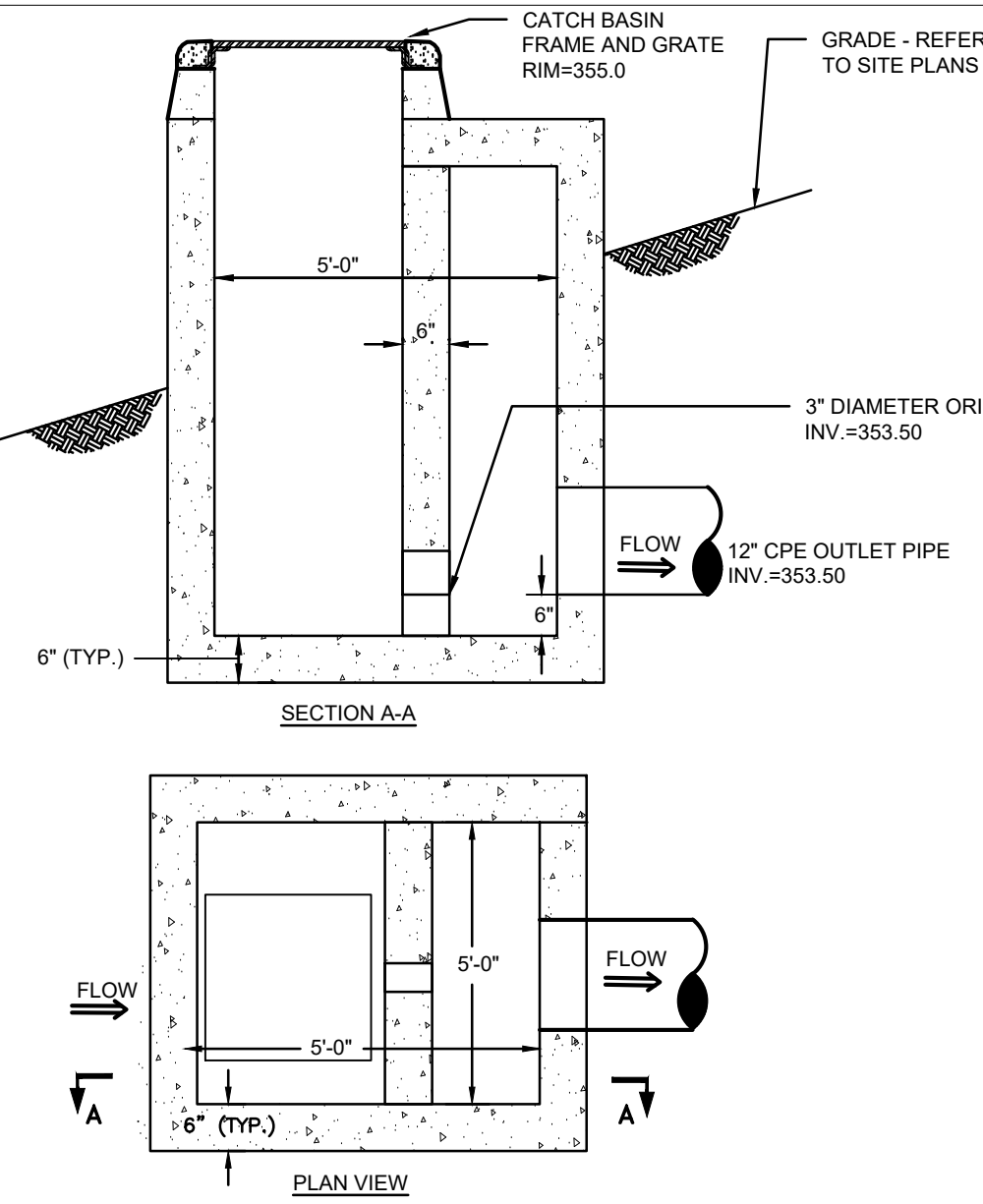


SCALE	AS NOTED
DRAWN BY	WJWP
CHECK BY	JAH
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PROJ. MGR.	SAV
JOB NO.	19162
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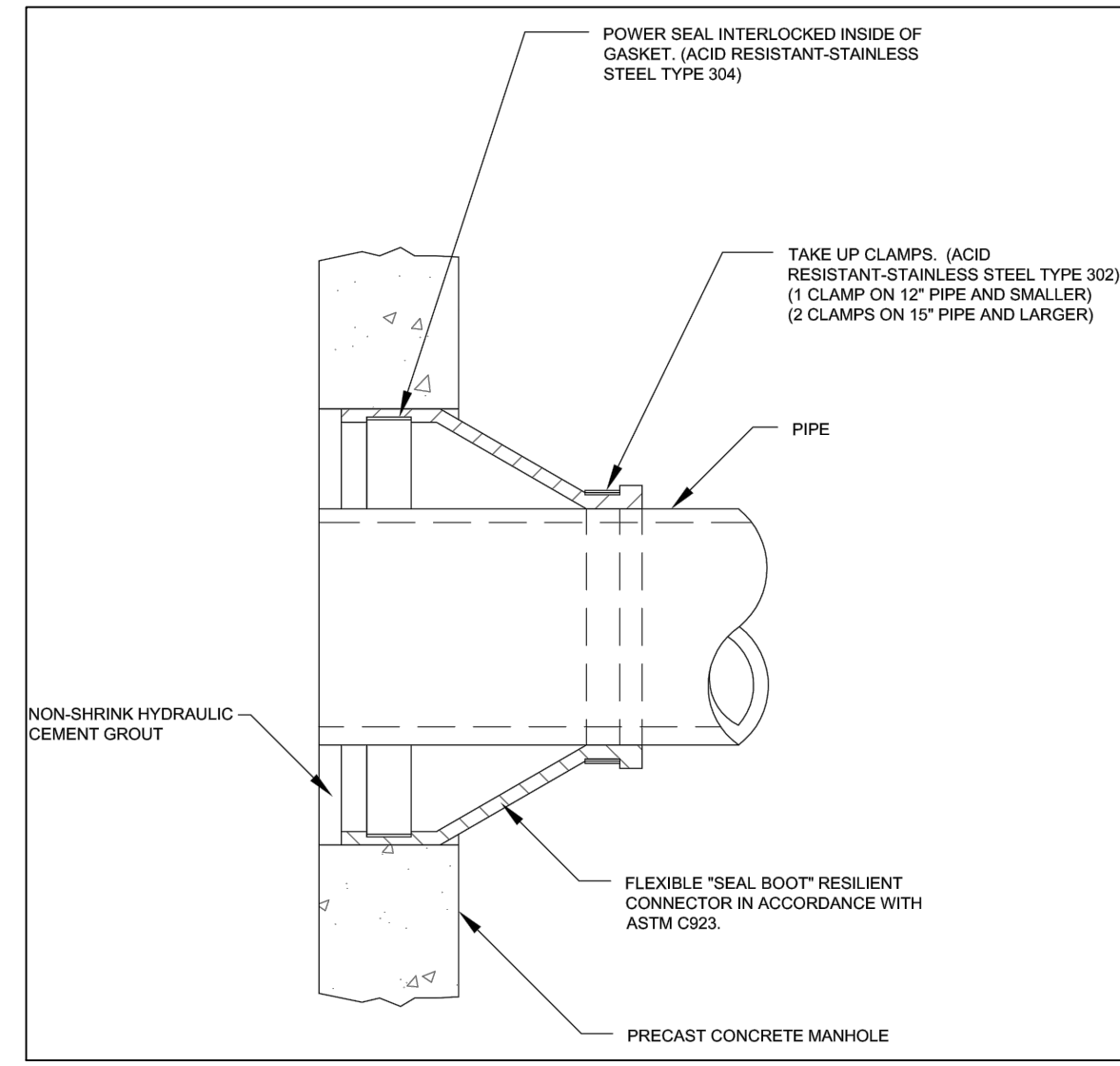
DETAILS II



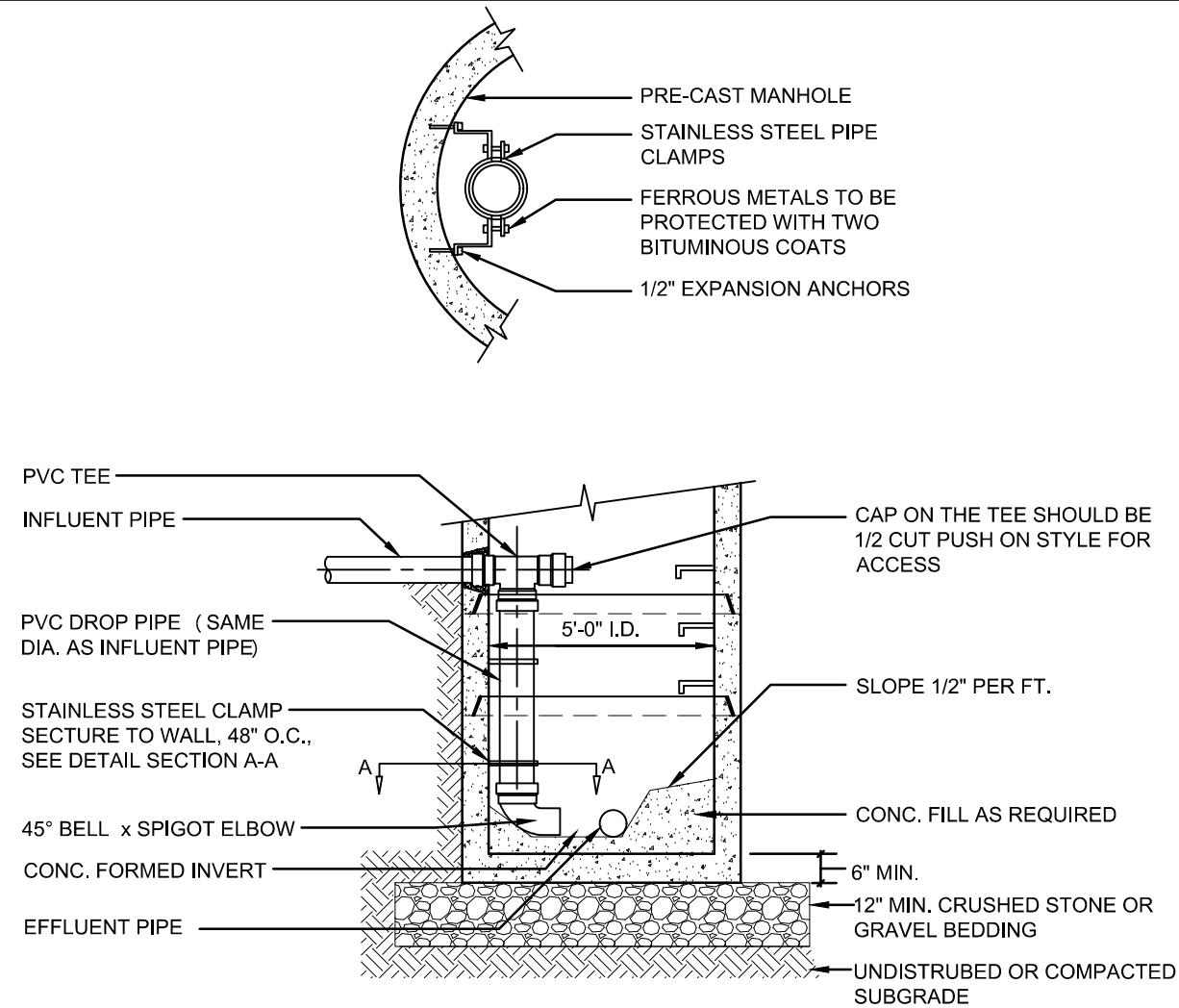
G7 SUBSURFACE INFILTRATION BASIN
N.T.S.



E7 OUTLET CONTROL STRUCTURE
N.T.S.

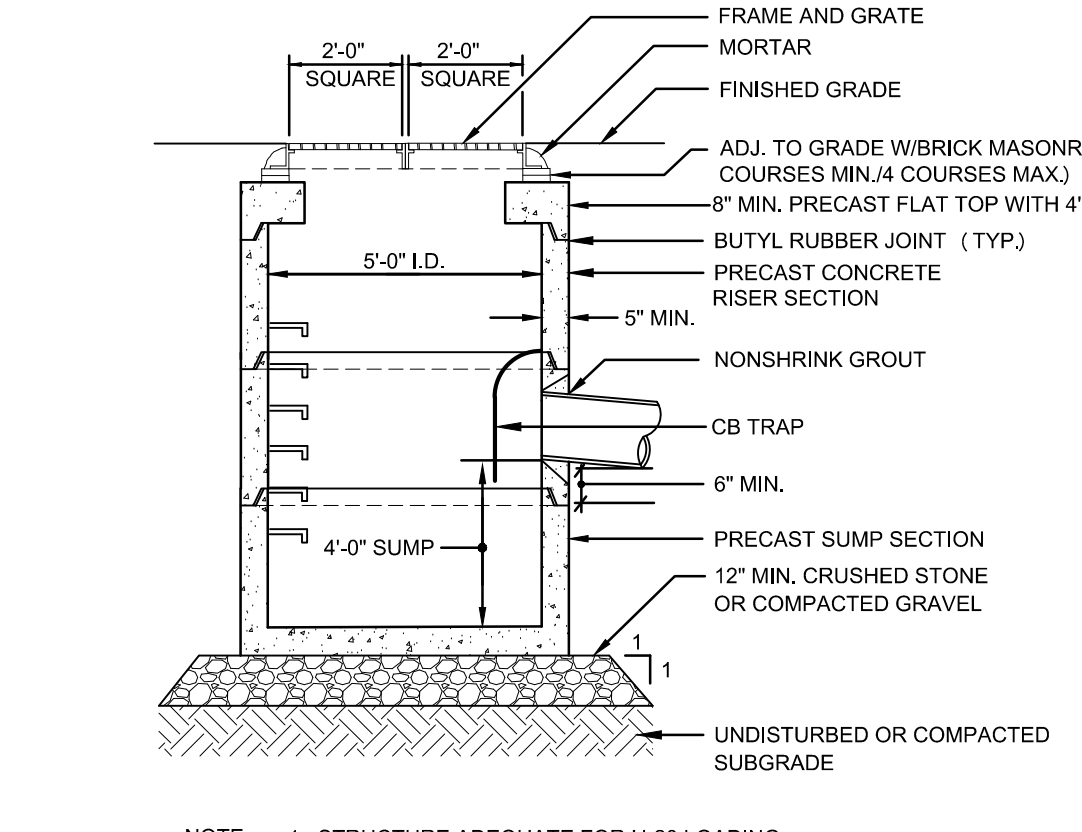


E9 MANHOLE SEAL
N.T.S.



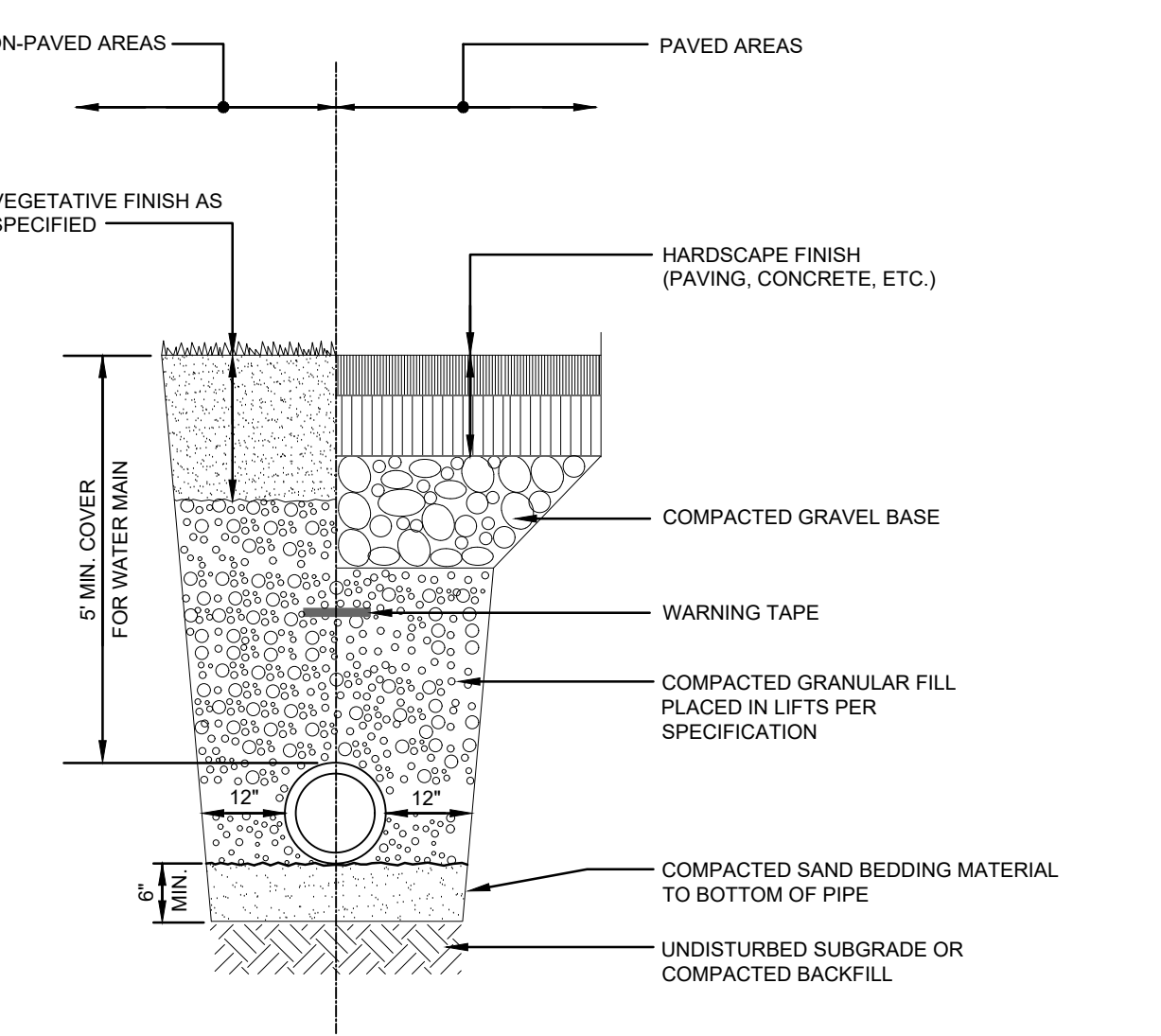
NOTE:
1. CONCRETE REINFORCING SUFFICIENT TO WITHSTAND H-20 LOADING.
2. STRUCTURE MUST BE WATERTIGHT AND CONFORM TO ASTM C1227.

C9 DROP SEWER MANHOLE (INTERIOR)
N.T.S.

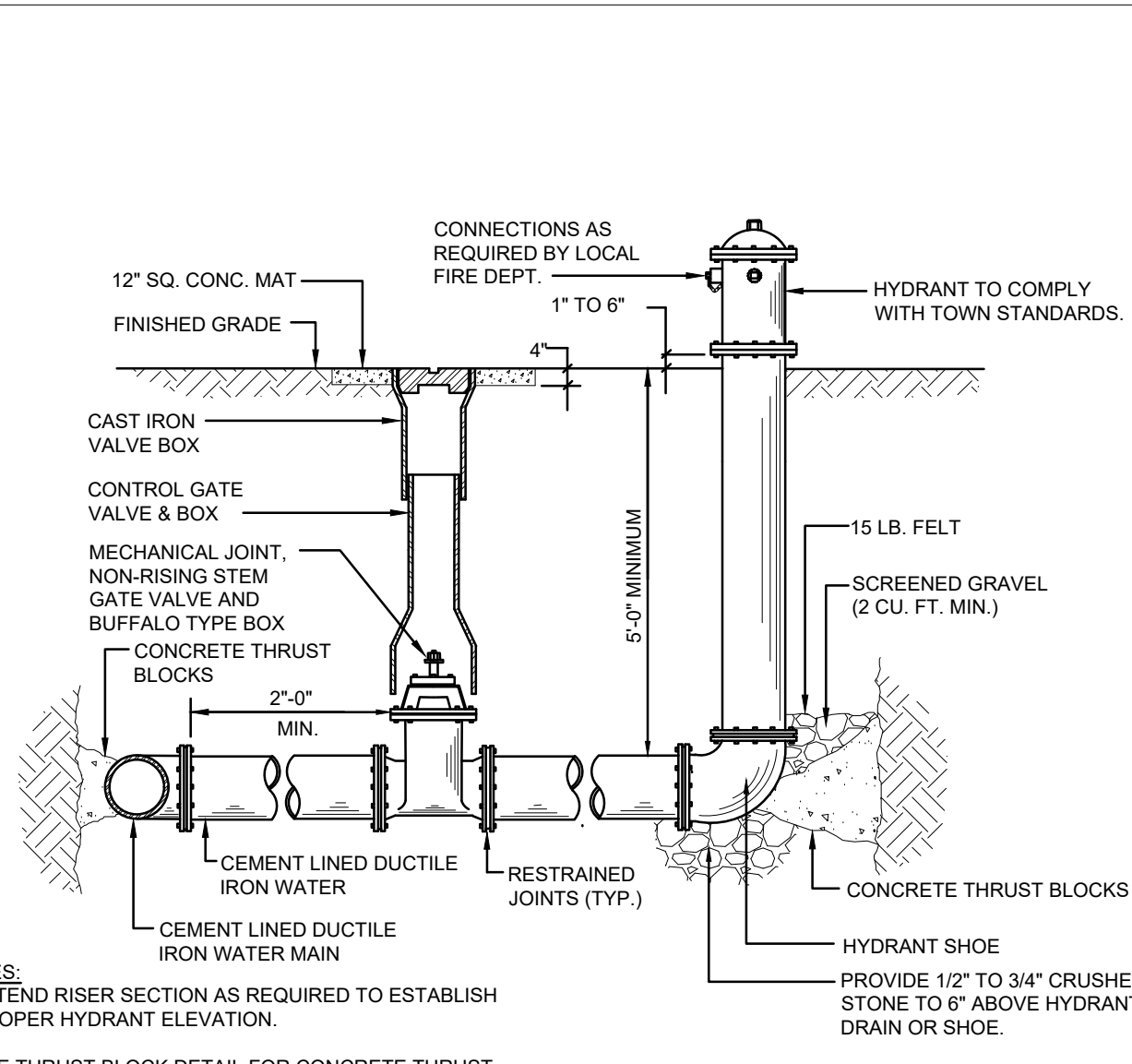


NOTE: 1. STRUCTURE ADEQUATE FOR H-20 LOADING.

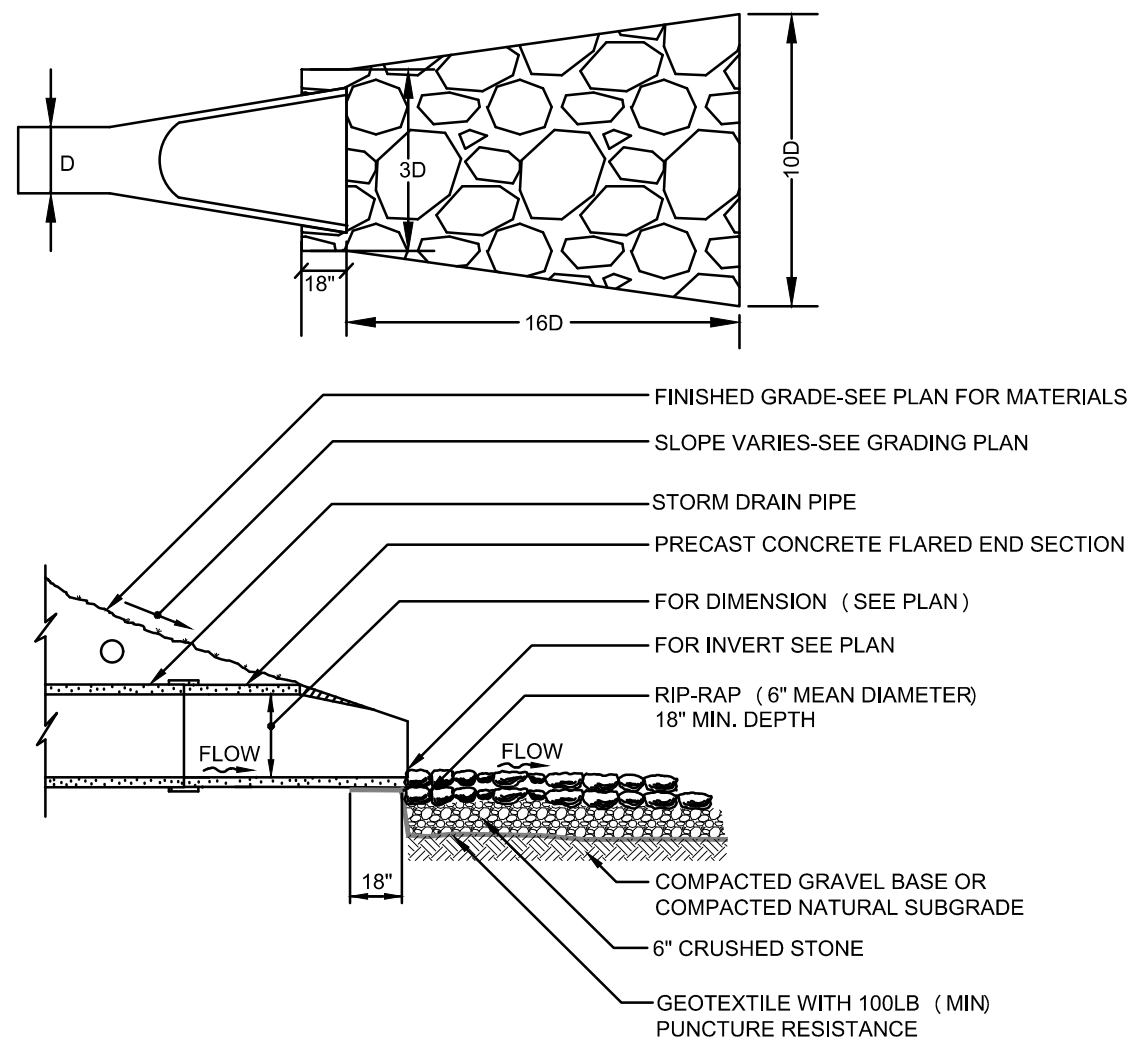
C7 DOUBLE PRECAST CONCRETE CATCHBASIN
N.T.S.



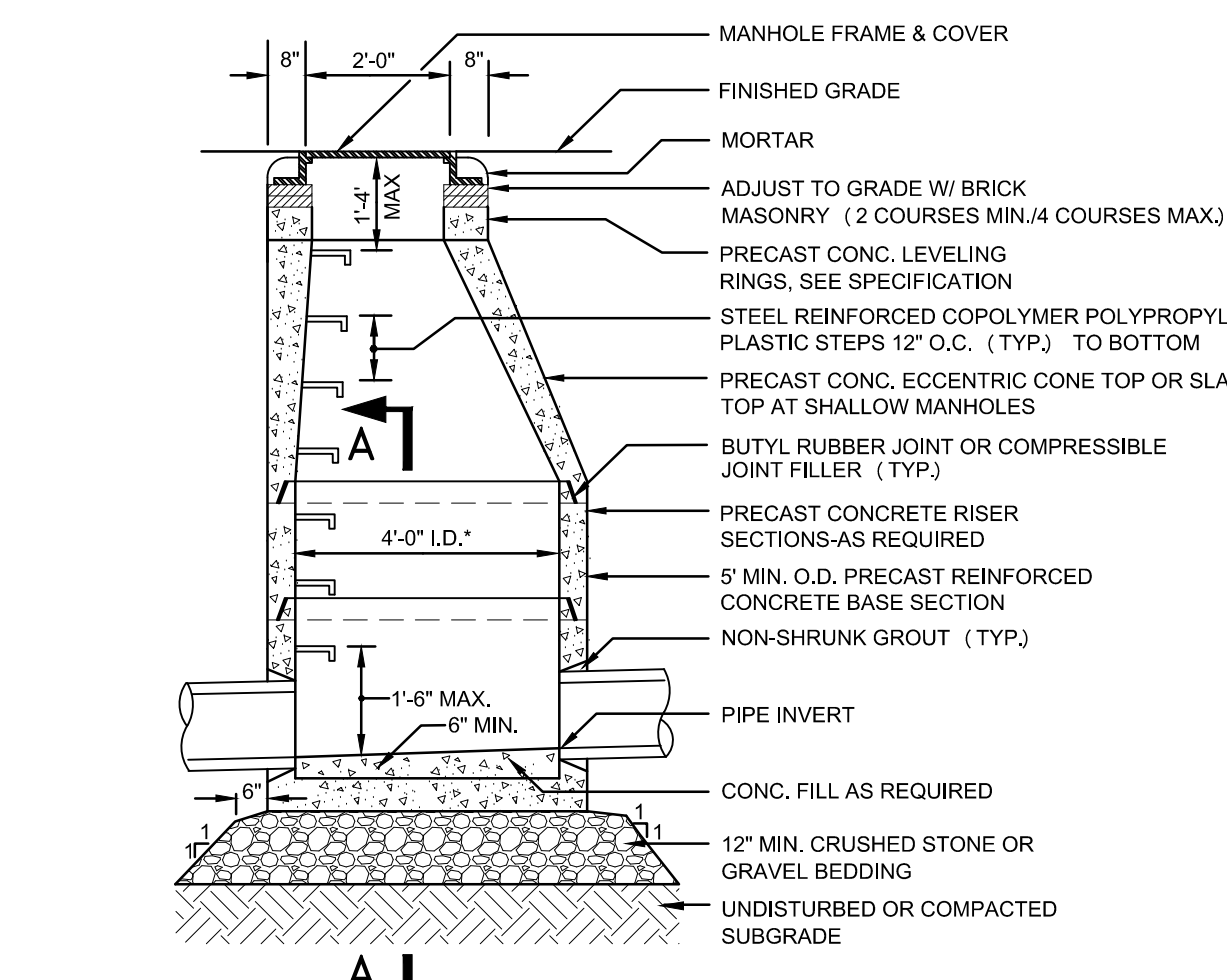
G5 TRENCH SECTION - WATER + ELEC / TELECOM / GAS
N.T.S.



E5 HYDRANT
N.T.S.

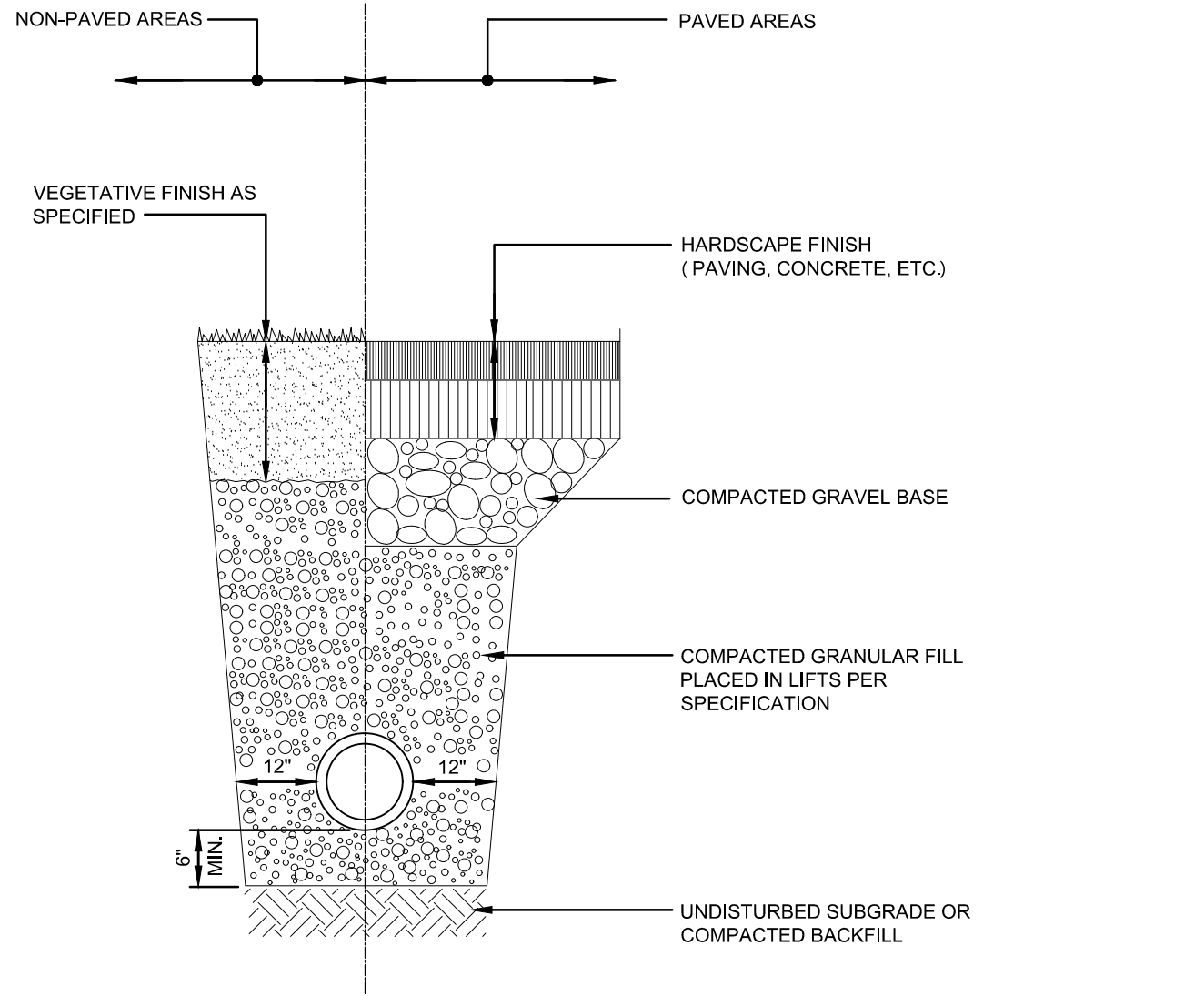


C5 FLARED END
N.T.S.

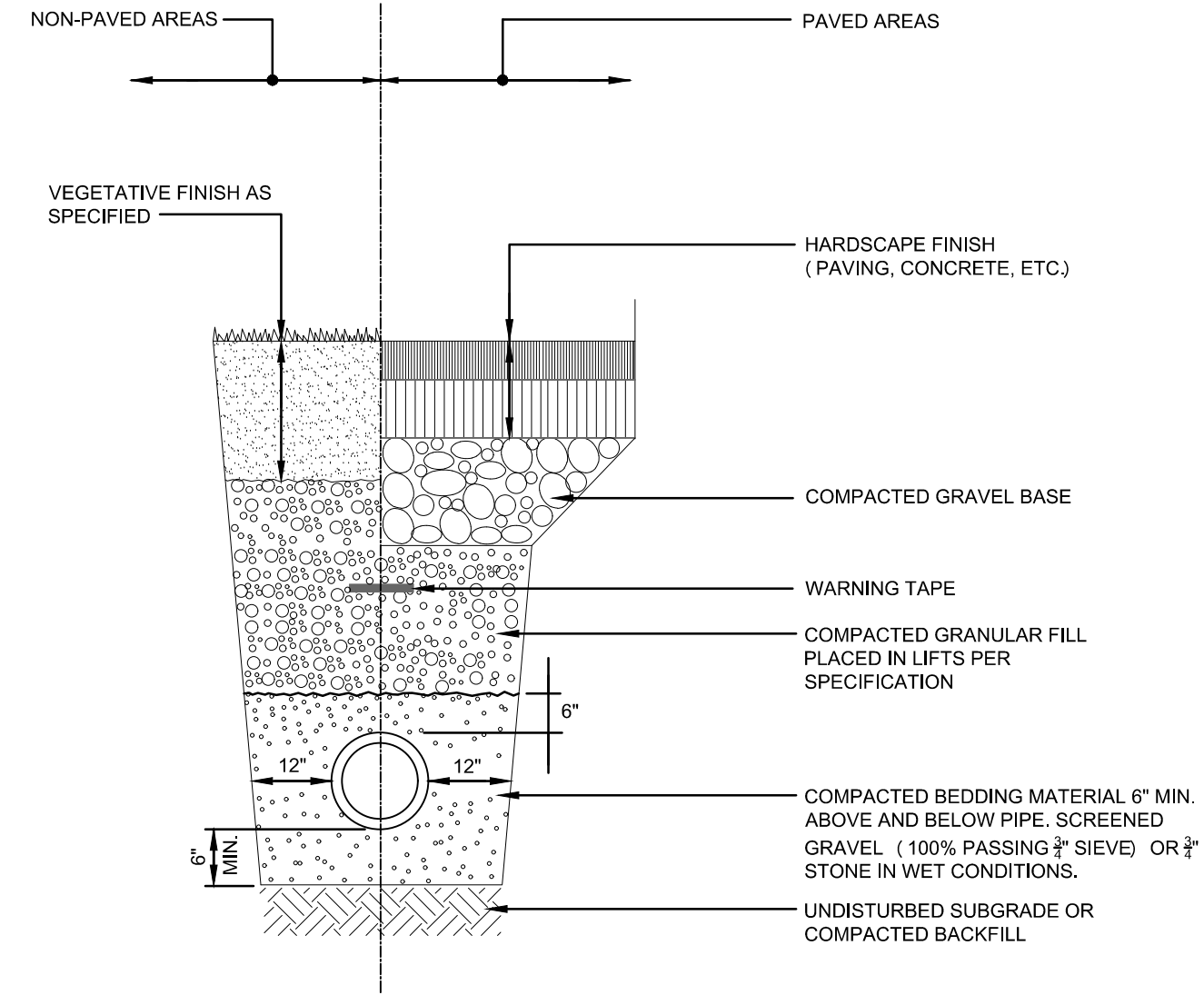
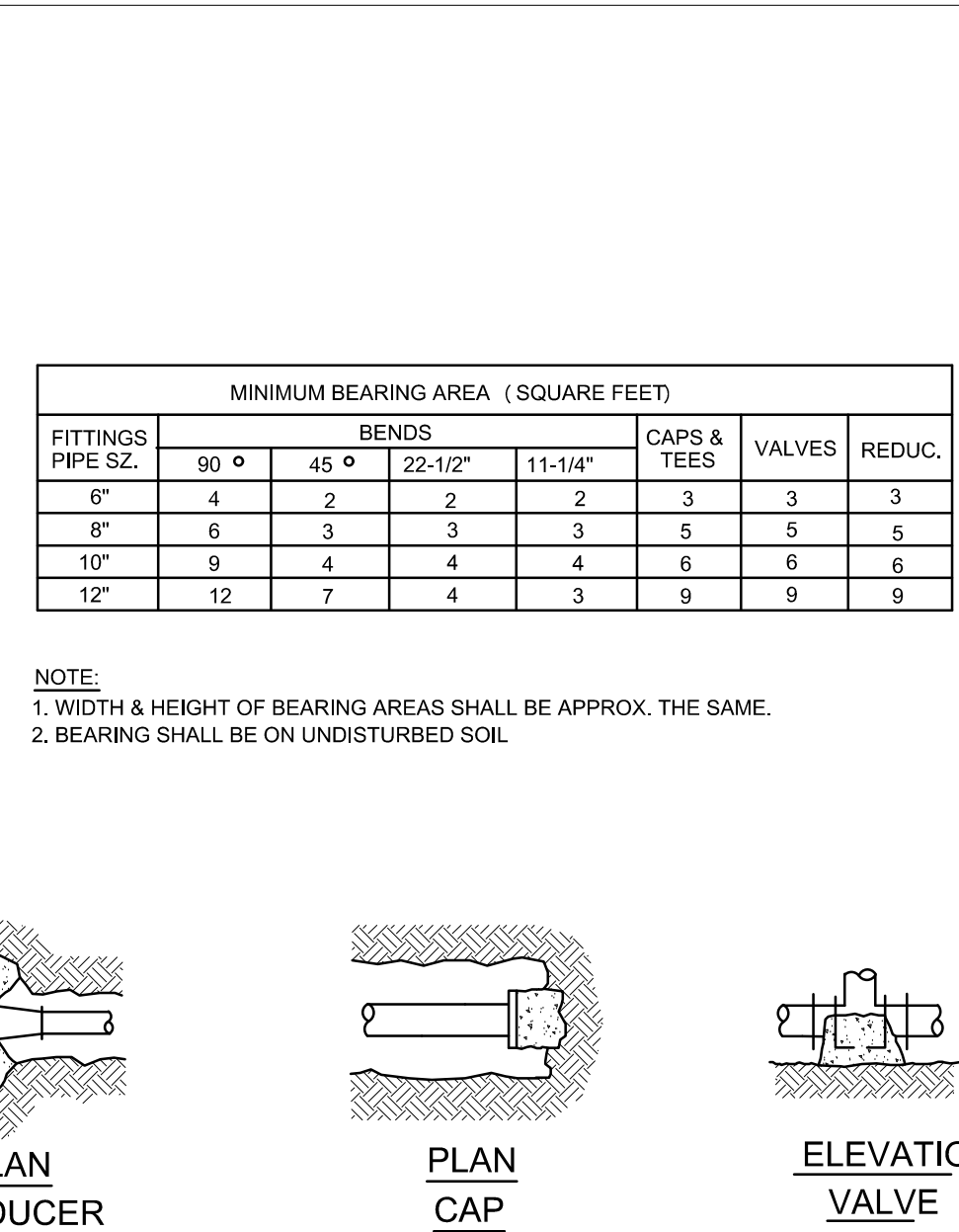


NOTE: 1. STRUCTURE ADEQUATE FOR H-20 LOADING.

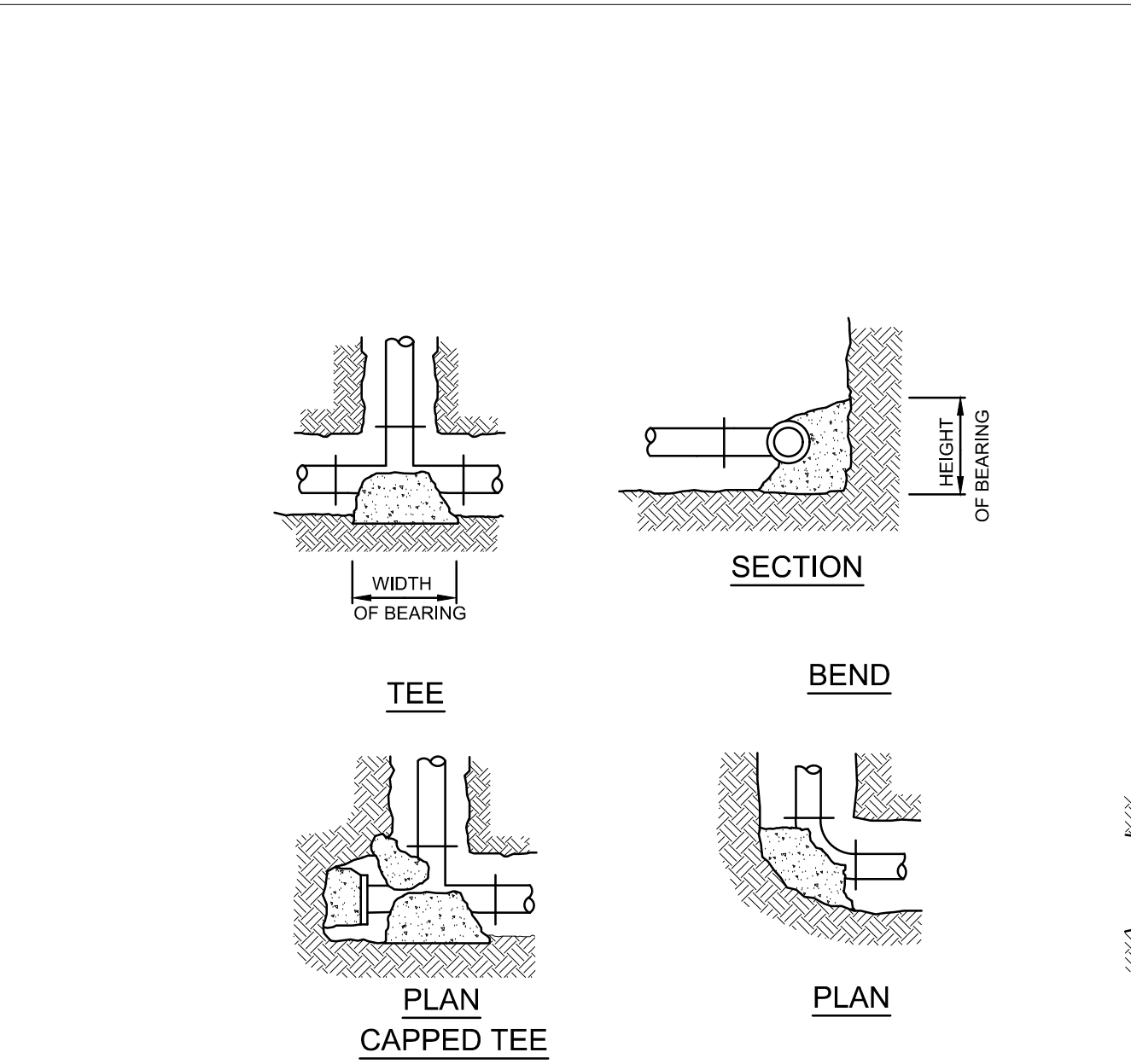
A5 PRECAST CONCRETE DRAIN MANHOLE
N.T.S.



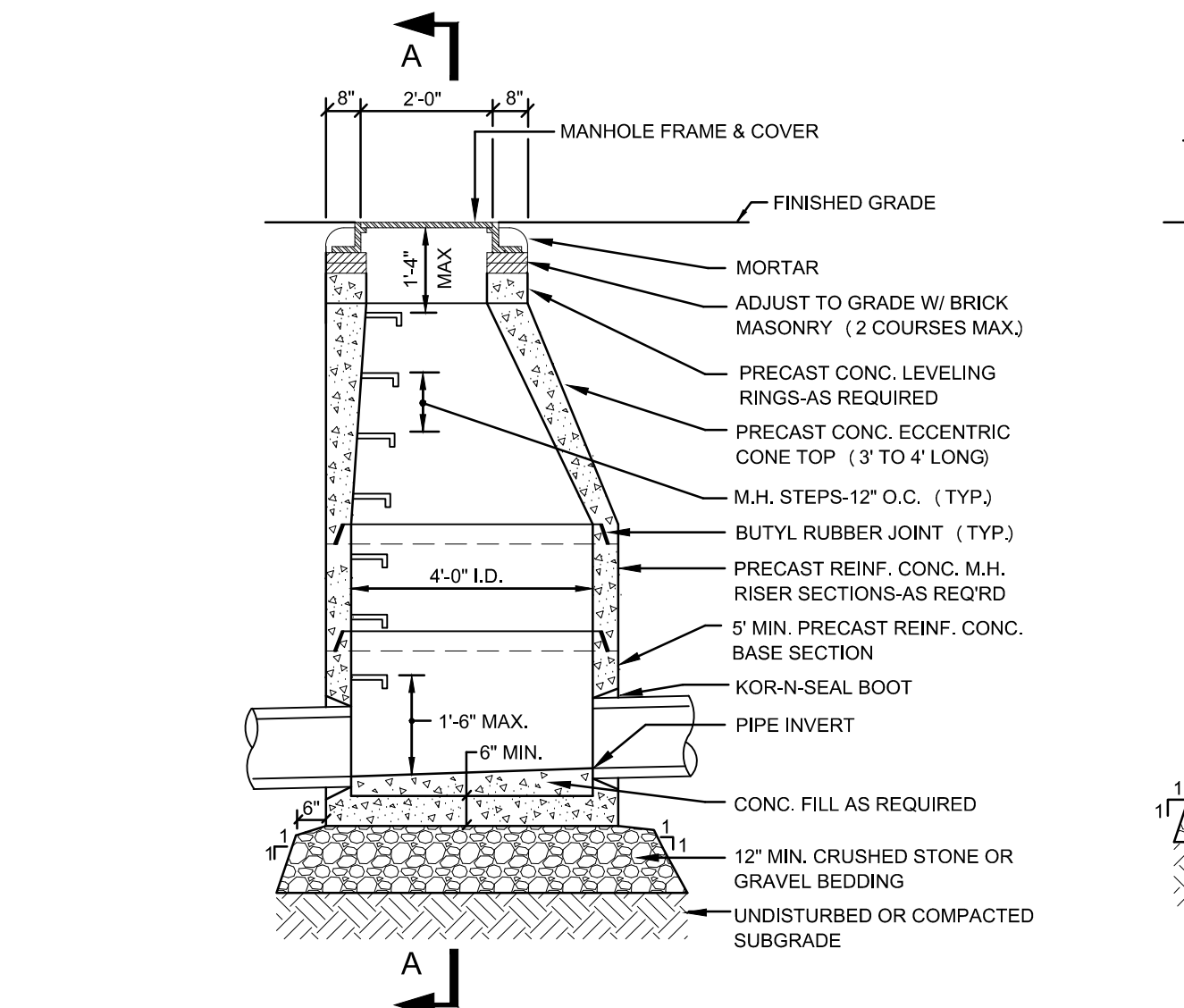
G3 TRENCH SECTION - CPE DRAINS
N.T.S.



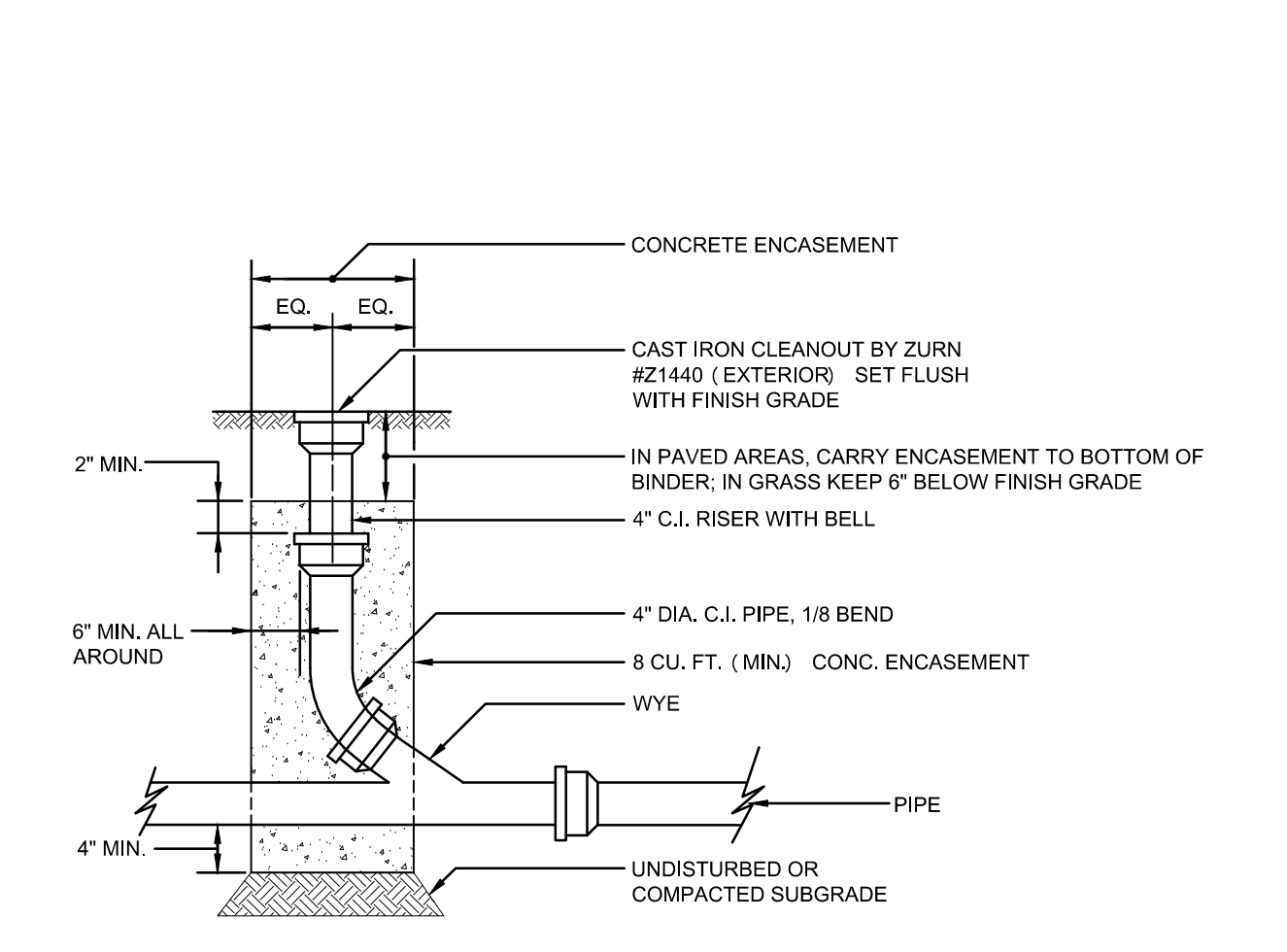
G1 TRENCH SECTION - SEWER PIPE
N.T.S.



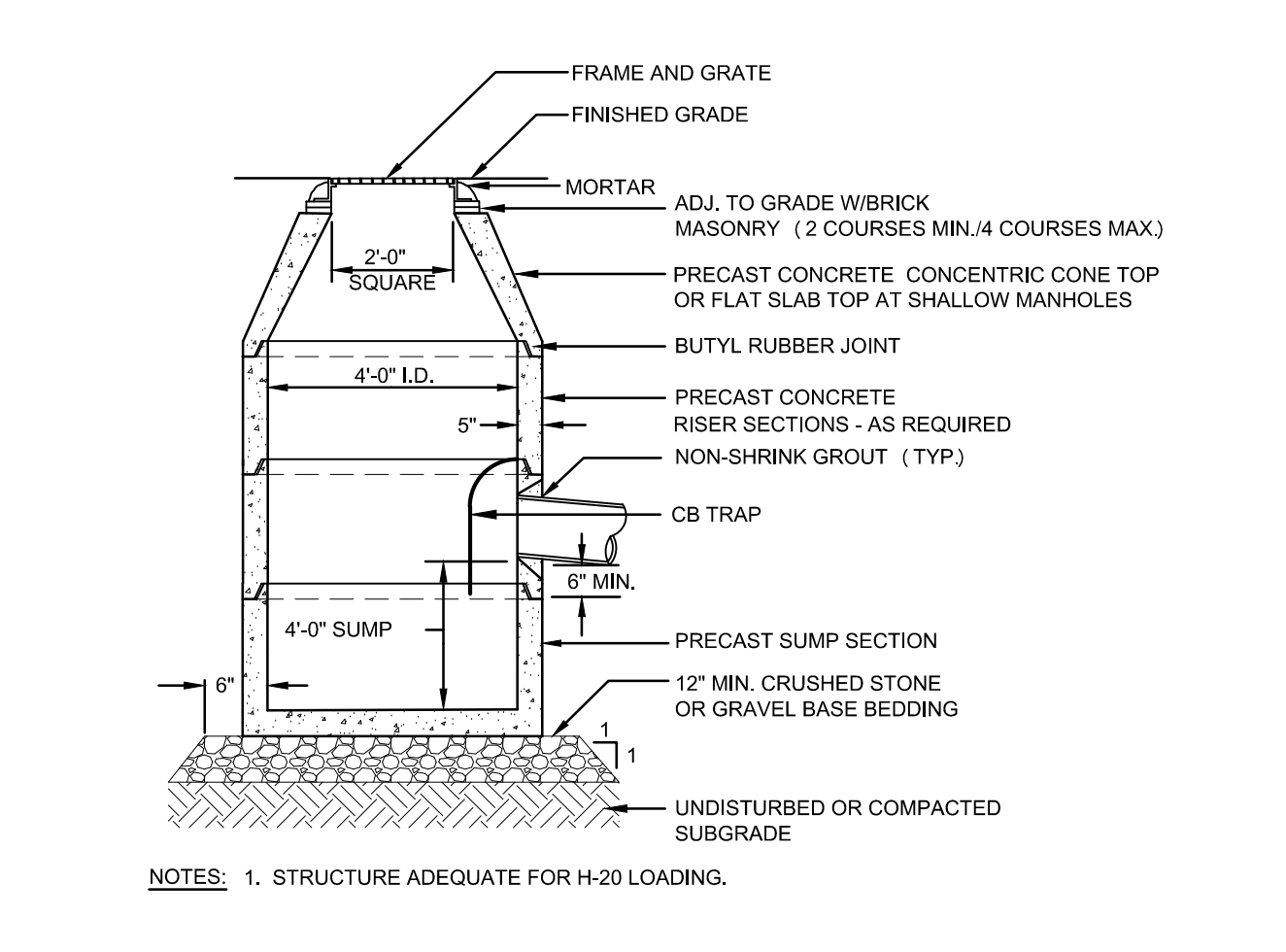
E1 THRUST BLOCKS - FORCE MAIN
N.T.S.



C1 CONCRETE SEWER MANHOLE
N.T.S.



A1 CLEANOUT
N.T.S.

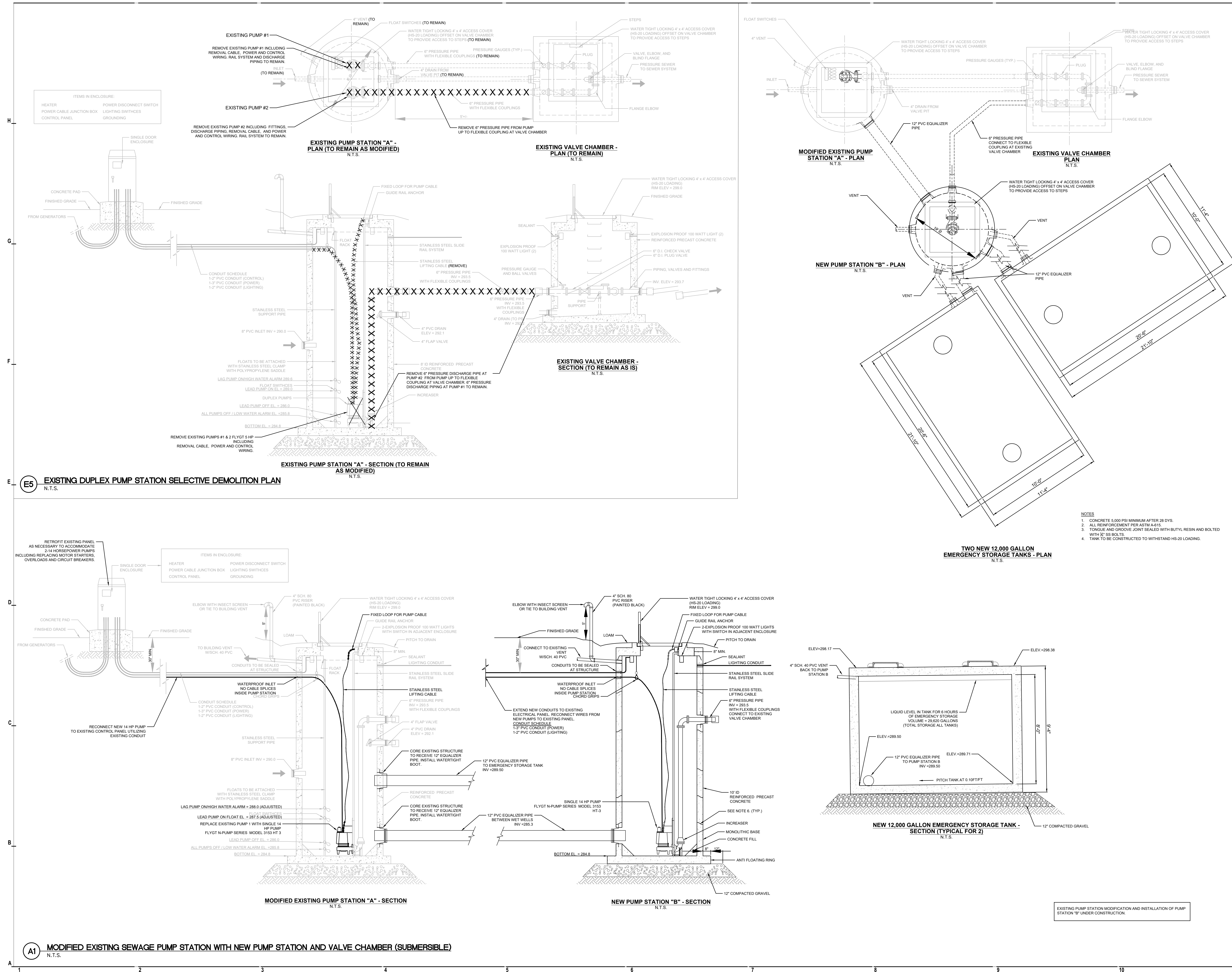


A3 PRECAST CONCRETE CATCHBASIN
N.T.S.

**THE
GUTIERREZ
COMPANY**

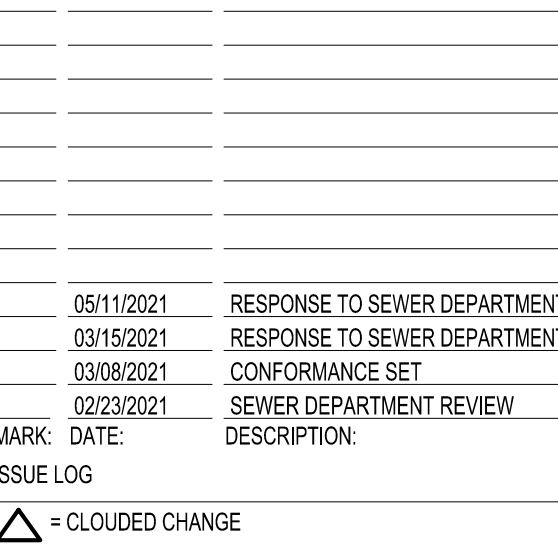
RESIDENCES AT STONE RIDGE PHASE II

300 - 400 DEER STREET
MILFORD, MA





300 - 400 DEER STREET
MILFORD, MA



SCALE	VARIATION
DRAWN BY	DATE
CHECK BY	
PROJ. ARCH./ENGR.	JAN
PROJ. MGR.	SAT
JOB NO.	1916

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SEWER PROFILE PLAN I

C-601