

EXISTING	LEGEND	PROPOSED
	BUILDING	
	PROPERTY LINE	
	RIGHT-OF-WAY LINE	
	ADJACENT PROPERTY LINE	
	SETBACK LINE	
	EASEMENT LINE	
	WOOD FENCE	
	CONCRETE	
	RIP RAP	
	BIT. CONC. PAVEMENT	
	SIGN	
	BOLLARD	
	SPOT ELEVATION	
	CONTOUR	
	WATER LINE DOMESTIC	
	SANITARY SEWER	
	STORM SEWER	
	OVERHEAD ELECTRIC	
	UNDERGROUND GAS	
	UTILITY POLE	
	SANITARY MANHOLE	
	SANITARY SEWER CLEANOUT	
	STORM DRAIN MANHOLE	
	STORM DRAIN INLET	
	STORM DRAIN FLARED END SECTION	
	STORM DRAIN CLEANOUT	
	FIRE HYDRANT	
	WATER VALVE	
	TREE LINE	
	CONIFEROUS TREE	
	DECIDUOUS TREE	
	CONSTRUCTION ENTRANCE	
	SILT SACK	
	EROSION CONTROL	
	HANDICAP MARKING	
	DETECTABLE WARNING STRIP	
	STONE BOUND	
	BITUMINOUS BERM	

FLOOD ZONE INFORMATION

BY GRAPHIC PLOTTING ONLY, SUBJECT PARCEL IS LOCATED IN ZONE X OF THE FLOOD INSURANCE RATE MAP, COMMUNITY-PANEL NUMBER 25009C0217F WHICH BEARS AN EFFECTIVE DATE OF JULY 3, 2012. NO FIELD ELEVATION SURVEYING WAS PERFORMED TO DETERMINE THIS ZONE AND AN ELEVATION CERTIFICATE MAY BE NEEDED TO VERIFY THIS DETERMINATION.

SURVEYOR NOTES

- THE LOCUS IS SHOWN ON TOWN OF ANDOVER ASSESSOR'S MAP 18 LOT 104A, LOCATED IN ZONING DISTRICT OP - OFFICE PARK AND IS KNOWN AS 140 HAVERHILL STREET.
- DEED REFERENCE: BOOK 16214 PAGE 202, ESSEX NORTH REGISTRY OF DEEDS.
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE.
- THE BASIS OF BEARING FOR THIS PLAN IS THE MASSACHUSETTS STATE PLANE COORDINATES

REFERENCE DEEDS:

- BOOK 16214 PAGE 202 ESSEX NORTH REGISTRY OF DEEDS

REFERENCE PLANS:

- PL-8987
- PL-15440

EASEMENTS AND ENCUMBRANCES:

EXISTING 25' SEWER EASEMENT
BOOK 16214 PAGE 202
PLAN BOOK PL-8987

EXISTING 25' RIGHT OF WAY
BOOK 16214 PAGE 202
PLAN BOOK PL-8987

EXISTING DRAINAGE EASEMENT
BOOK 16214 PAGE 202
PLAN BOOK PL-8987

CONSTRUCTION NOTES:

- CONSTRUCTION**
 - TOPSOIL:**
EXISTING TOPSOIL AND SUBSOIL SHALL BE REMOVED FROM ROADWAY AND BUILDING AREAS AND STOCKPILED.
 - TREES AND STUMPS:**
TREES AND STUMPS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN AN APPROVED MANNER. STUMPS SHALL NOT BE BURIED ON SITE.
- MATERIALS**
 - BITUMINOUS CONCRETE PAVEMENT:**

PARKING AREAS:
SURFACE COURSE: 1 INCHES CLASS I BITUMINOUS CONCRETE PAVEMENT, TYPE I-1 WEARING COURSE
BINDER COURSE: 1-1/2 INCHES CLASS I BITUMINOUS CONCRETE PAVEMENT, TYPE I-1 BINDER COURSE
GRAVEL BASE COURSE: 4 INCHES COMPACTED DENSE GRADED CRUSHED STONE FOR SUB-BASE (M 2.01.7)
8 INCHES COMPACTED SUB-BASE, M1.030 TYPE C
 - LANDSCAPE AREAS:**
DISTURBED AREAS NOT COVERED BY STRUCTURES OR PAVEMENT AND NOT OTHERWISE SPECIFIED ON THE LANDSCAPE PLAN SHALL RECEIVE 6 INCHES OF TOPSOIL. THESE AREAS ARE TO BE SEEDED AND WATERED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED. LANDSCAPE AREAS ADJACENT TO THE BUILDING SHALL BE FINISHED WITH 3" OF 1-1/2" RIVER ROCK.
 - TRAFFIC CONTROLS:**
ALL SIGNAGE AND PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.)
 - ADA CONFORMANCE:**
ALL HANDICAPPED ACCESSIBLE RAMPS AND SIDEWALKS SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA) AND THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD (MAAB), WHICHEVER IS MORE RESTRICTIVE.
- UTILITIES**
 - EXISTING UTILITIES:**
THE LOCATION AND ELEVATIONS OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON THE SURVEY NOTED ABOVE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND PRIOR TO ORDERING STRUCTURES.
 - PRIVATE UTILITIES:**
THE LOCATION, SIZE, DEPTH, AND SPECIFICATIONS FOR CONSTRUCTION OF PROPOSED PRIVATE UTILITY SERVICES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS PROVIDED BY, AND APPROVED BY, THE RESPECTIVE UTILITY COMPANY (GAS, TELEPHONE OR ELECTRIC). FINAL DESIGN AND LOCATIONS AT THE BUILDING WILL BE PROVIDED BY THE ARCHITECT. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE UTILITY CONNECTIONS WITH THE RESPECTIVE UTILITY COMPANIES PRIOR TO ANY UTILITY CONSTRUCTION OR DEMOLITION.
 - STORM DRAINAGE:**
STORM DRAIN PIPING SHALL BE MIN 12" HIGH DENSITY POLYETHYLENE PIPE (HDPE) WITH CORRUGATED EXTERIOR, SMOOTH LINED (n=0.013) WITH SOIL TIGHT JOINTS OR REINFORCED CONCRETE PIPE.

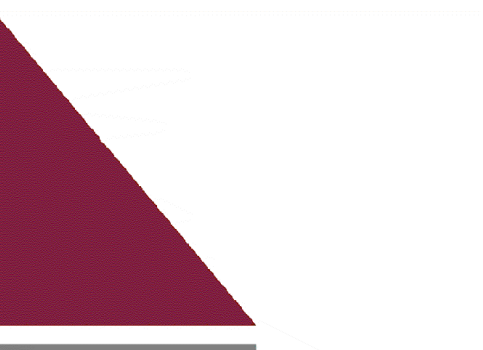
THE PROJECT'S STORMWATER MANAGEMENT SYSTEM SHALL COMPLY WITH THE DEPARTMENT OF ENVIRONMENTAL PROTECTION'S (DEP) STORMWATER MANAGEMENT POLICY AND REQUIREMENTS OF TOWN OF ANDOVER DEPARTMENT OF PUBLIC WORKS STREET OPENING/UTILITY CONNECTION RULES AND REGULATIONS.

THE STORM WATER BMP'S WILL BE INSPECTED BY DESIGN ENGINEER AND CERTIFIED THAT HAS BEEN BUILT IN COMPLIANCE WITH PLANS. DOCUMENTATION INCLUDING PHOTOS, FIELD BOOKS ENTRIES, AND ENGINEER'S DAILY REPORTS SHALL BE PROVIDED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY

STORMWATER SYSTEMS SHALL BE THE PROPERTY OF THE PROPERTY OWNER WHO IS RESPONSIBLE FOR COMPLETING THE REQUIRED ANNUAL INSPECTIONS, REPAIRS, AND MAINTENANCE OF THE SYSTEM.
 - PROPOSED STRUCTURES:**
RIM ELEVATIONS OF PROPOSED DRAINAGE MANHOLES AND ASSOCIATED STRUCTURES ARE APPROXIMATE; FINAL ELEVATIONS, ARE TO BE SET FLUSH AND CONSISTENT WITH THE GRADING PLAN. ADJUST ALL OTHER RIM ELEVATIONS OF MANHOLES, WATER GATES, GAS GATES AND OTHER UTILITIES TO FINISH GRADE WITHIN LIMITS OF WORK.
 - WATER**
 - ANY WATER METER GREATER THAN 5/8" WILL NEED TO BE PROPERLY RIGHT-SIZED AND THE CALCULATIONS SHOULD BE SUBMITTED BASED ON AWWA M22 STANDARDS TO SHOW THAT THE EXISTING OR PROPOSED WATER METER IS SIZED PROPERLY.
 - THE INSTALLATION OF THE WATER METER SHOULD BE INSTALLED IN A LOCATION THAT IS UN-OBSTRICTED AND EASILY ACCESSIBLE.
 - PRIOR TO THE ISSUANCE OF ANY UTILITY PERMIT, THE METER CONFIGURATION DIAGRAM MUST BE APPROVED BY THE DEPARTMENT OF PUBLIC WORKS.
 - THE DPW OFFICE MUST APPROVE ANY BACKFLOW PREVENTION DEVICE FOR IRRIGATION SYSTEMS, FIRE SUPPRESSION SYSTEMS, CHEMICAL INJECTION SYSTEMS, OR ANY OTHER CASE WHICH BACKFLOW PREVENTION IS REQUIRED.
 - ALL NEW WATER LINES WILL NEED TO BE PRESSURE TESTED TO THE TOWN OF ANDOVER STANDARDS.
 - PROPOSED WATER MAIN MUST BE CONSTRUCTED TO A MINIMUM DEPTH OF 5' OF COVER.
- SEWER**
 - SEWER LINES SHALL BE CONSTRUCTED OF SDR 35 PVC OR CEMENT LINED DUCTILE IRON PIPE AS INDICATED ON THE PLANS.

GENERAL NOTES

- AS-BUILT PLANS SHOULD BE SUBMITTED ON MYLAR UPON COMPLETION OF THE PROJECT, PRIOR TO THE CERTIFICATE OF COMPLIANCE.
- THE LONG TERM AND PERPETUAL CARE OF THE DUMPSTER, INCLUDING THE EMPTYING, AND THE ENCLOSURE WILL BE THE RESPONSIBILITY OF THE PROPERTY OWNER.
- ANY WORK THAT TAKES PLACE IN THE TOWN RIGHT OF WAY WILL REQUIRE BOTH A STREET OPENING AND TRENCH PERMIT.
- APPLICANT MUST SCHEDULE PRE-CONSTRUCTION MEETING WITH THE DPW/ ENGINEERING DIVISION PRIOR TO THE START OF WORK.



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SITE PLAN
140 HAVERHILL STREET
ANDOVER MA, 01810

NOTES AND LEGEND

MEDICO 140, LLC
355 MIDDLESEX AVE, SUITE 7
WILMINGTON, MA 01887

DATE	NO.	REVISIONS	BY
5/27/25	3	TRAFFIC REVIEW	BCO
3/31/25	2	FINAL PEER REVIEW COMMENTS	BCO
2/21/25	1	PEER REVIEW COMMENTS	BCO

PROJECT: 19-152
DATE: MAY 27, 2025
DRAWING SCALE: 1"= 40'
DRAWN BY: OMR
APPROVED BY: BCO

CS0002
SHEET 2 OF 20

TOP ELEV=90.5 ESHGW = 83.83

TP1				
DEPTH	SOIL HORIZON	SOIL TEXTURE	SOIL COLOR	SOIL MOTTLING
0'-88"	LOAM FILL			
88'-108"	B	S.L	Clay 4/5G	
108'-120"	C	S.L	10 YR 3/6	H20 @ 80"

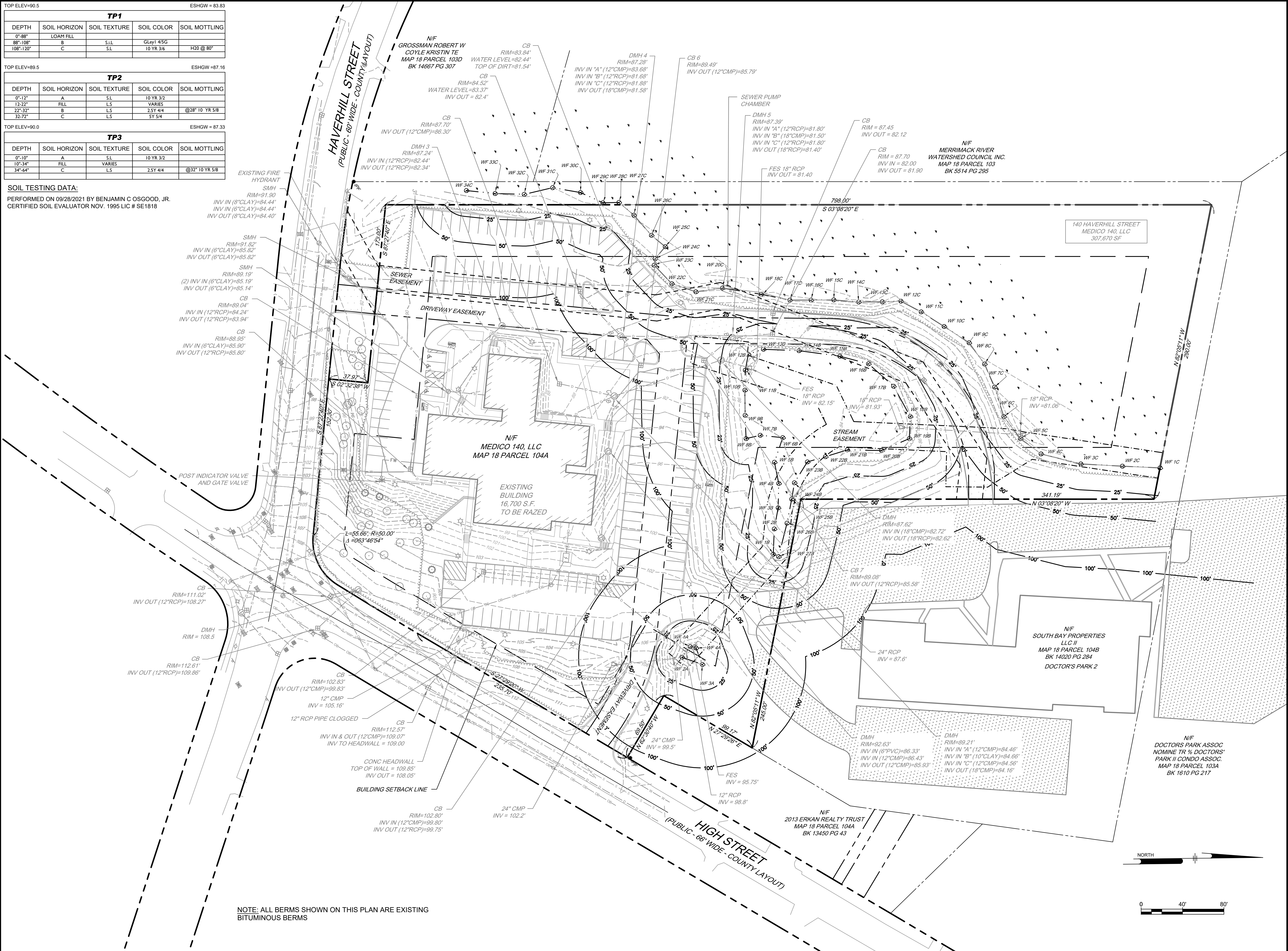
TOP ELEV=89.5 ESHGW = 87.16

TP2				
DEPTH	SOIL HORIZON	SOIL TEXTURE	SOIL COLOR	SOIL MOTTLING
0'-12"	A	S.L	10 YR 3/2	
12'-22"	FILL	LS	VARIABLE	
22'-32"	B	LS	2.5Y 4/4	@28" 10 YR 5/8
32'-72"	C	LS	5Y 5/4	

TOP ELEV=90.0 ESHGW = 87.33

TP3				
DEPTH	SOIL HORIZON	SOIL TEXTURE	SOIL COLOR	SOIL MOTTLING
0'-10"	A	S.L	10 YR 3/2	
10'-34"	FILL	VARIABLE		
34'-64"	C	LS	2.5Y 4/4	@32" 10 YR 5/8

SOIL TESTING DATA:
 PERFORMED ON 09/28/2021 BY BENJAMIN C OSGOOD, JR.
 CERTIFIED SOIL EVALUATOR NOV. 1995 LIC # SE1818



NOTE: ALL BERMS SHOWN ON THIS PLAN ARE EXISTING BITUMINOUS BERMS

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SITE PLAN
 140 HAVERHILL STREET
 ANDOVER MA, 01810

EXISTING CONDITIONS PLAN

MEDICO 140, LLC
 355 MIDDLESEX AVE SUITE 7
 WILMINGTON, MA 01897

DATE	NO.	REVISIONS	BY
5/27/25	3	TRAFFIC REVIEW	BCO
3/31/25	2	FINAL PEER REVIEW COMMENTS	BCO
2/21/25	1	PEER REVIEW COMMENTS	BCO

PROJECT: 19-152
 DATE: MAY 27, 2025
 DRAWING SCALE: 1"= 40'
 DRAWN BY: OMR
 APPROVED BY: BCO

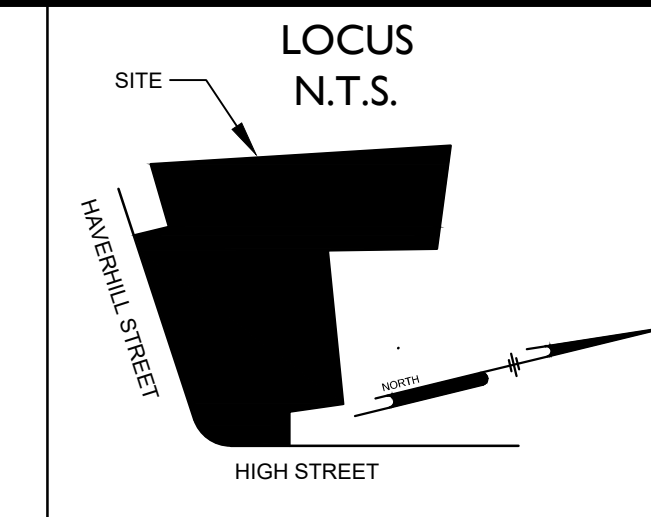
APPROVAL UNDER THE SUBDIVISION
CONTROL LAW NOT REQUIRED

TOWN OF ANDOVER PLANNING BOARD

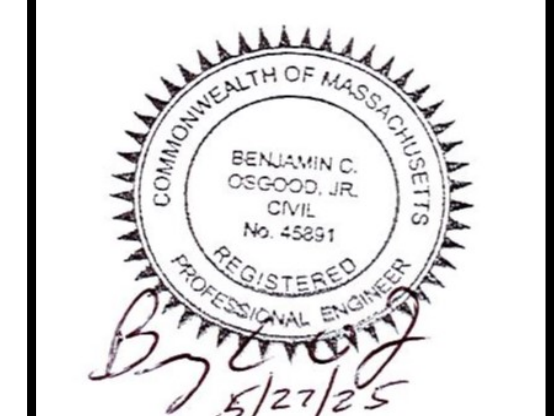
NAME _____ DATE _____

THE PLANNING BOARD'S ENDORSEMENT OF THE PLANS AS NOT REQUIRING APPROVAL UNDER THE SUBDIVISION CONTROL LAW IS NOT A DETERMINATION AS TO CONFORMANCE WITH THE TOWN OF ANDOVER ZONING BYLAW REGULATIONS

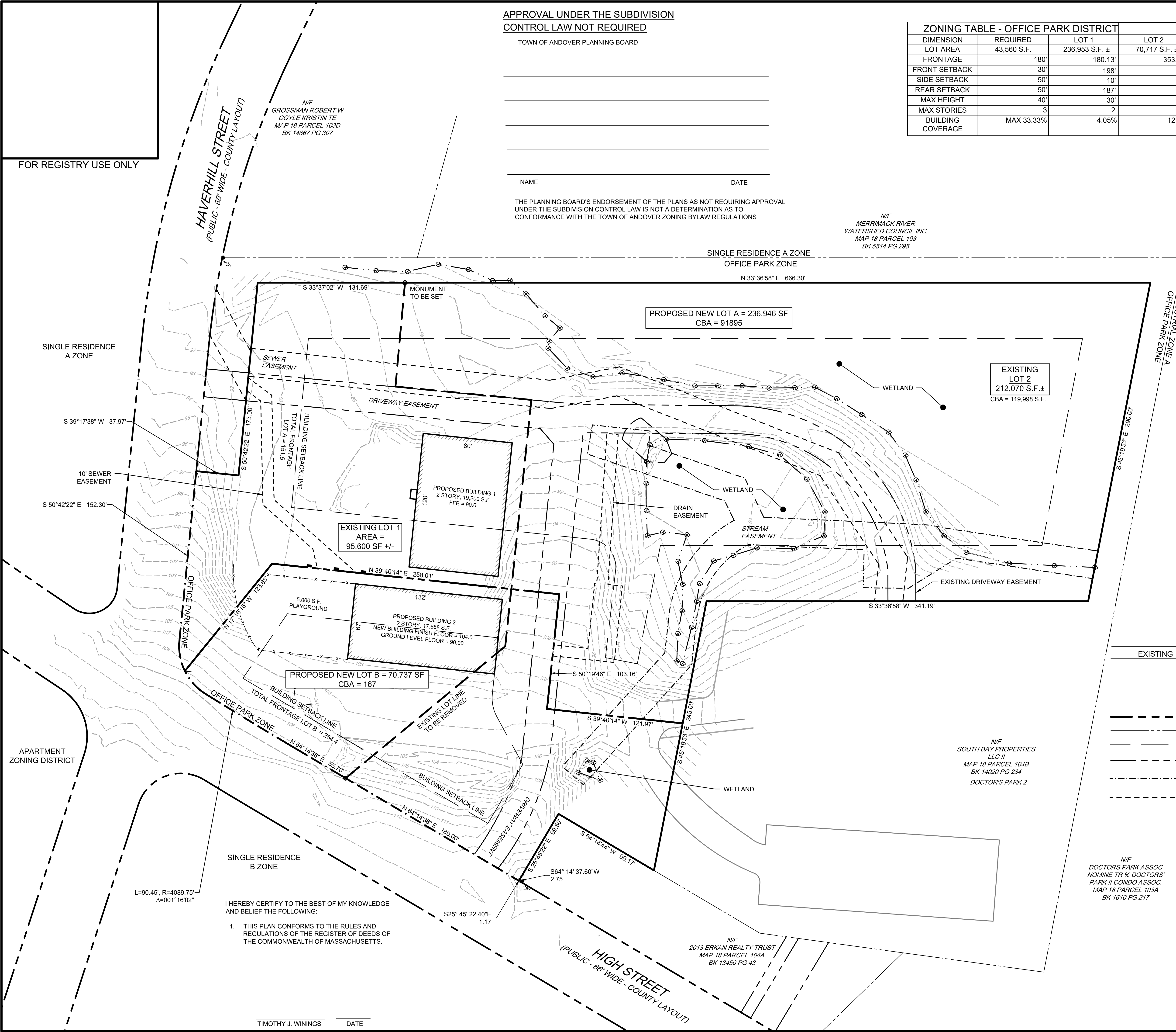
ZONING TABLE - OFFICE PARK DISTRICT			
DIMENSION	REQUIRED	LOT 1	LOT 2
LOT AREA	43,560 S.F.	236,953 S.F. ±	70,717 S.F. ±
FRONTAGE	180'	180.13'	353.98'
FRONT SETBACK	30'	198'	93'
SIDE SETBACK	50'	10'	10'
REAR SETBACK	50'	187'	50'
MAX HEIGHT	40'	30'	30'
MAX STORIES	3	2	2
BUILDING COVERAGE	MAX 33.33%	4.05%	12.5%



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FOR REGISTRY USE ONLY



- NOTES:**
- THE LOCUS IS SHOWN ON TOWN OF ANDOVER ASSESSOR'S MAP 18 LOT 104A, LOCATED IN ZONING DISTRICT OF - OFFICE PARK, AND IS KNOWN AS 140 HAVERHILL STREET.
 - THE BASIS OF BEARING FOR THIS PLAN IS THE MASSACHUSETTS STATE PLANE COORDINATES.
 - NO PORTION OF BUILDING IS LOCATED IN A FLOOD HAZARD ZONE AS MAPPED BY FEMA, (ESSEX COUNTY, MASSACHUSETTS, FIRM MAP NO. 25009C0217F, EFFECTIVE DATE JULY 3, 2012).
 - THE PURPOSE OF THIS PLAN IS TO DIVIDE THE EXISTING PROPERTY INTO TWO PARCELS.
 - SEE PLANS ON FILE AT THE TOWN OF ANDOVER PLANNING BOARD.
 - THE PROPOSED UTILITY EASEMENTS OVER LOT 1 ARE FOR THE BENEFIT OF LOT 2 AND THE UTILITY EASEMENTS OVER LOT 2 ARE FOR THE BENEFIT OF LOT 1.
 - THE WETLANDS SHOWN HAVE BEEN DELINEATED BY NORSE ENVIRONMENTAL IN NOVEMBER 2019.
 - EXISTING DRIVEWAY, STREAM, AND SEWER EASEMENTS TAKEN FROM PLAN #15440 ESSEX COUNTY NORTH REGISTRY OF DEEDS

- REFERENCE DEEDS:**
- BOOK 16214 PAGE 202 ESSEX NORTH REGISTRY OF DEEDS (OWNER OF RECORD FOR THE SUBJECT PARCEL)

- REFERENCE PLANS:**
- PL-8987
 - PL-15440
 - PL-18377

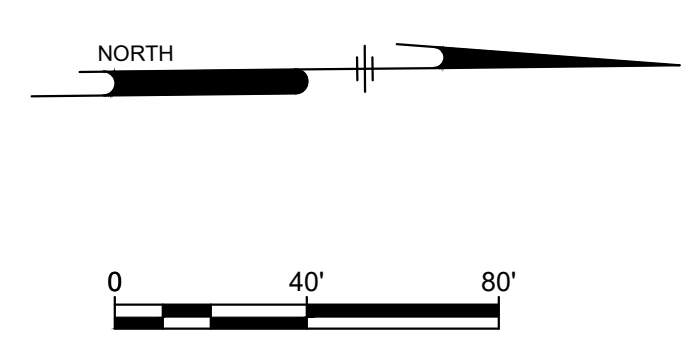
LEGEND

EXISTING	PROPOSED
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I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THE FOLLOWING:

- THIS PLAN CONFORMS TO THE RULES AND REGULATIONS OF THE REGISTER OF DEEDS OF THE COMMONWEALTH OF MASSACHUSETTS.

TIMOTHY J. WININGS _____ DATE _____



SITE PLAN
140 HAVERHILL STREET
ANDOVER MA, 01810

FORM A PLAN
MEDICO 140, LLC
355 MIDDLESEX AVE. SUITE 7
WILMINGTON, MA 01887

NO.	DATE	REVISIONS	BY
3	5/27/25	TRAFFIC REVIEW	BCO
2	3/31/25	FINAL PEER REVIEW COMMENTS	BCO
1	2/21/25	PEER REVIEW COMMENTS	BCO

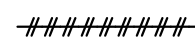

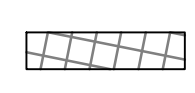
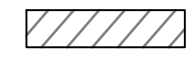
PROJECT: 19-152
DATE: MAY 27, 2025
DRAWING SCALE: 1"= 40'
DRAWN BY: OMR
APPROVED BY: BCO

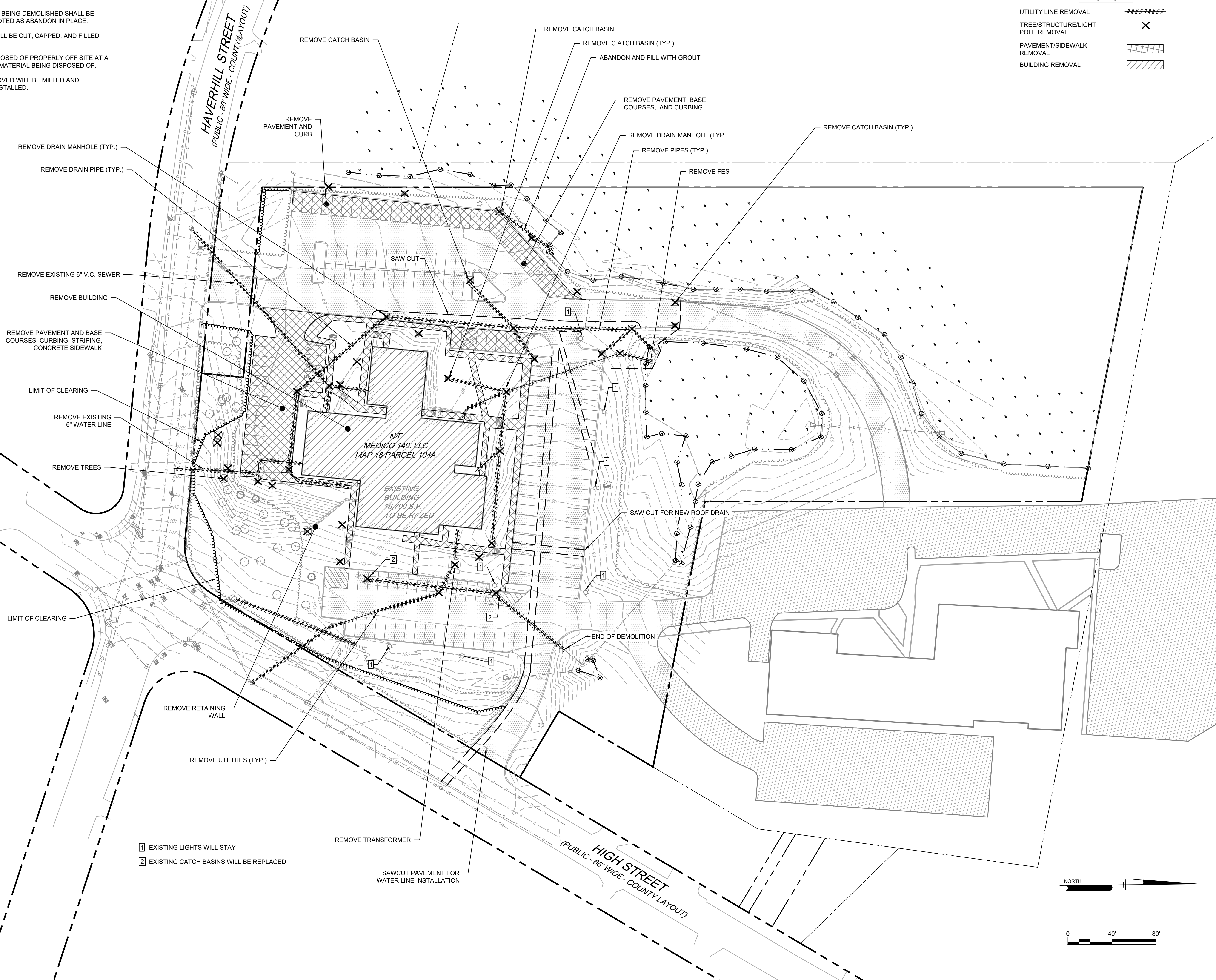
CS0202
SHEET 4 OF 20

NOTES:

1. DRAIN AND SEWER LINES SHOWN AS BEING DEMOLISHED SHALL BE REMOVED, UNLESS SPECIFICALLY NOTED AS ABANDON IN PLACE.
2. UTILITIES ABANDONED IN PLACE SHALL BE CUT, CAPPED, AND FILLED WITH GROUT.
3. ANY ITEMS REMOVED SHALL BE DISPOSED OF PROPERLY OFF SITE AT A FACILITY LICENSED TO ACCEPT THE MATERIAL BEING DISPOSED OF.
4. PAVEMENT THAT IS NOT BEING REMOVED WILL BE MILLED AND OVERLAYED AFTER UTILITIES ARE INSTALLED.

DEMO LEGEND

- UTILITY LINE REMOVAL 
- TREE/STRUCTURE/LIGHT POLE REMOVAL 
- PAVEMENT/SIDEWALK REMOVAL 
- BUILDING REMOVAL 



- 1 EXISTING LIGHTS WILL STAY
- 2 EXISTING CATCH BASINS WILL BE REPLACED

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SITE PLAN
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 ANDOVER MA, 01810

DEMOLITION PLAN

MEDICO 140, LLC
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 WILMINGTON, MA 01897

NO.	DATE	REVISIONS	BY
3	5/27/25	TRAFFIC REVIEW	BCO
2	3/31/25	FINAL PEER REVIEW COMMENTS	BCO
1	2/21/25	PEER REVIEW COMMENTS	BCO

PROJECT 19-152
 DATE MAY 27, 2025
 DRAWING SCALE 1"= 40'
 DRAWN BY OMR
 APPROVED BY BCO

CS0501
 SHEET 5 OF 20

NO DISTURB ZONE AREAS		
AREA	EXISTING	PROPOSED
PARKING 0-25' NDZ	1030 S.F.	0 S.F.
DRIVE AISLE 0-25' NDZ	146 S.F.	76 S.F.
PARKING 25-50' NDZ	4450 S.F.	2520 S.F.
DRIVE AISLE 25-50' NDZ	3519 S.F.	1746 S.F.

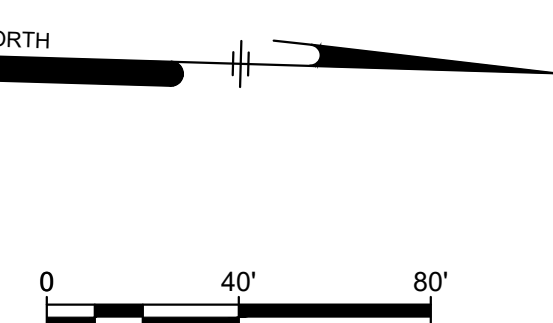
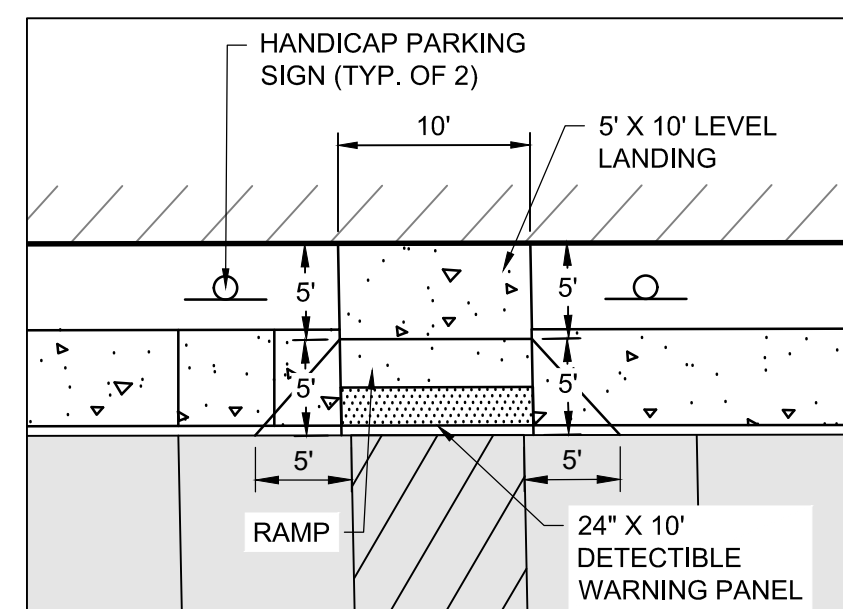
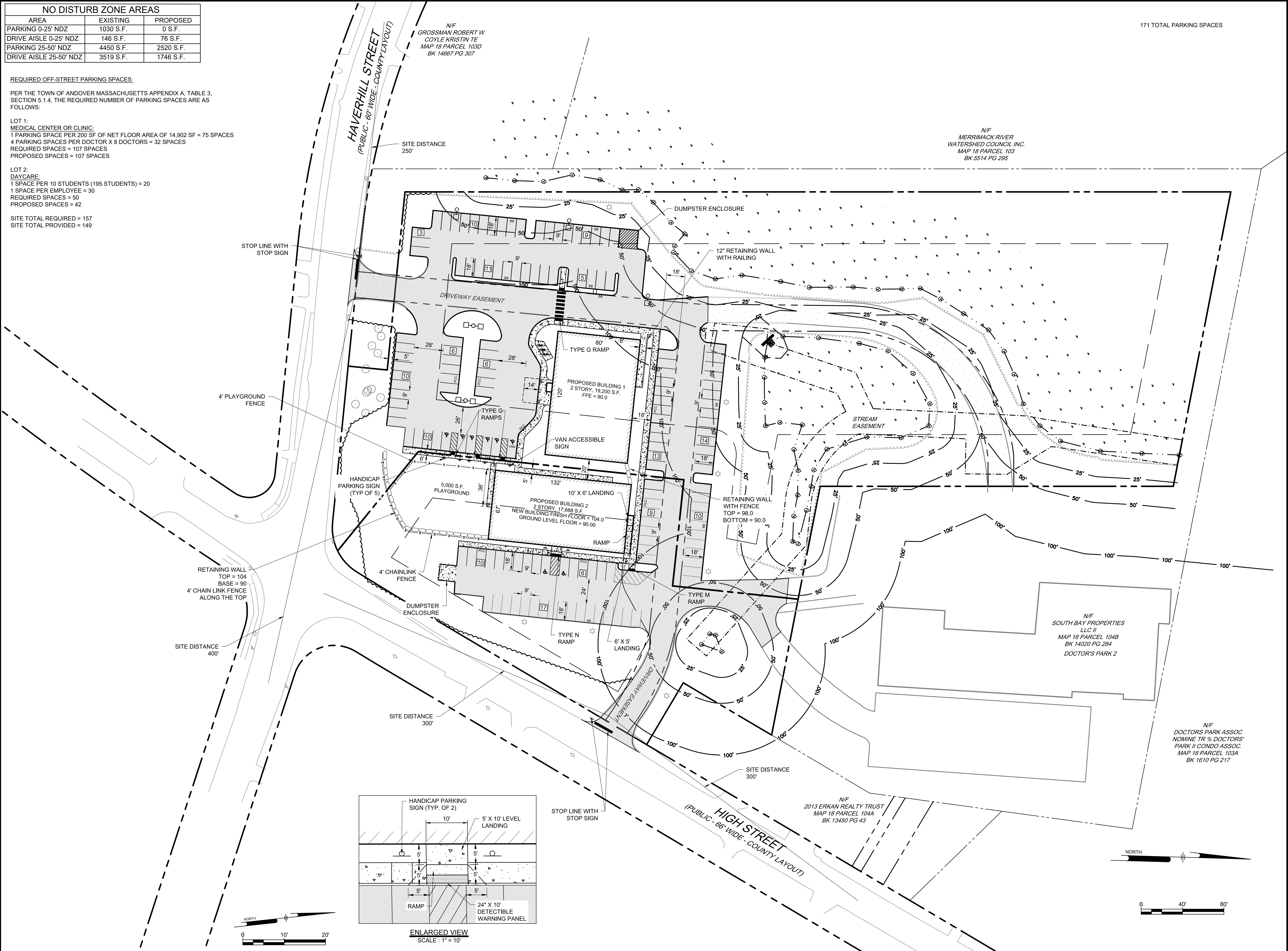
REQUIRED OFF-STREET PARKING SPACES:

PER THE TOWN OF ANDOVER MASSACHUSETTS APPENDIX A, TABLE 3, SECTION 5.1.4, THE REQUIRED NUMBER OF PARKING SPACES ARE AS FOLLOWS:

LOT 1:
 MEDICAL CENTER OR CLINIC:
 1 PARKING SPACE PER 200 SF OF NET FLOOR AREA OF 14,902 SF = 75 SPACES
 4 PARKING SPACES PER DOCTOR X 8 DOCTORS = 32 SPACES
 REQUIRED SPACES = 107 SPACES
 PROPOSED SPACES = 107 SPACES

LOT 2:
 DAYCARE:
 1 SPACE PER 10 STUDENTS (195 STUDENTS) = 20
 1 SPACE PER EMPLOYEE = 30
 REQUIRED SPACES = 50
 PROPOSED SPACES = 42

SITE TOTAL REQUIRED = 157
 SITE TOTAL PROVIDED = 149



171 TOTAL PARKING SPACES

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B. Osgood, Jr.
 5/27/25

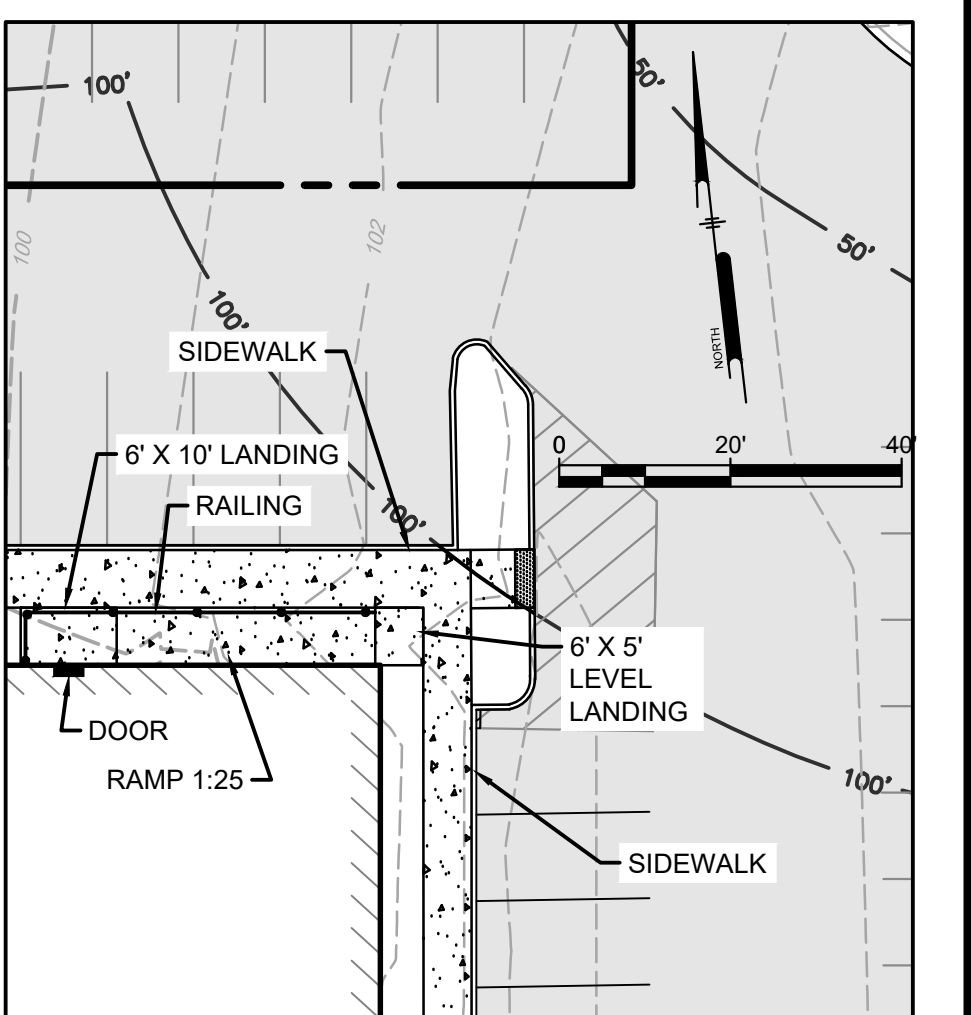
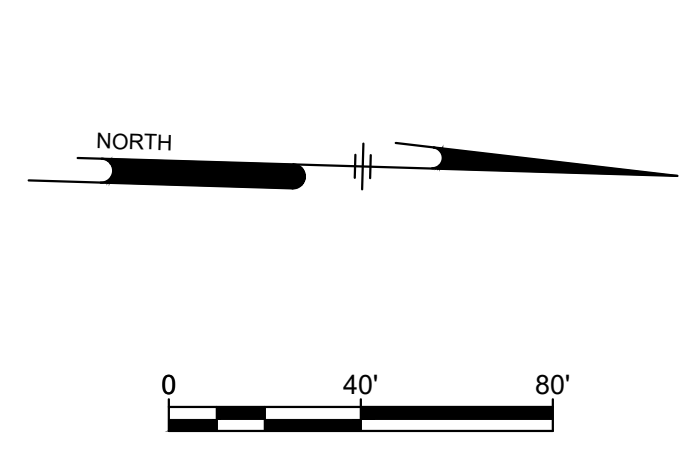
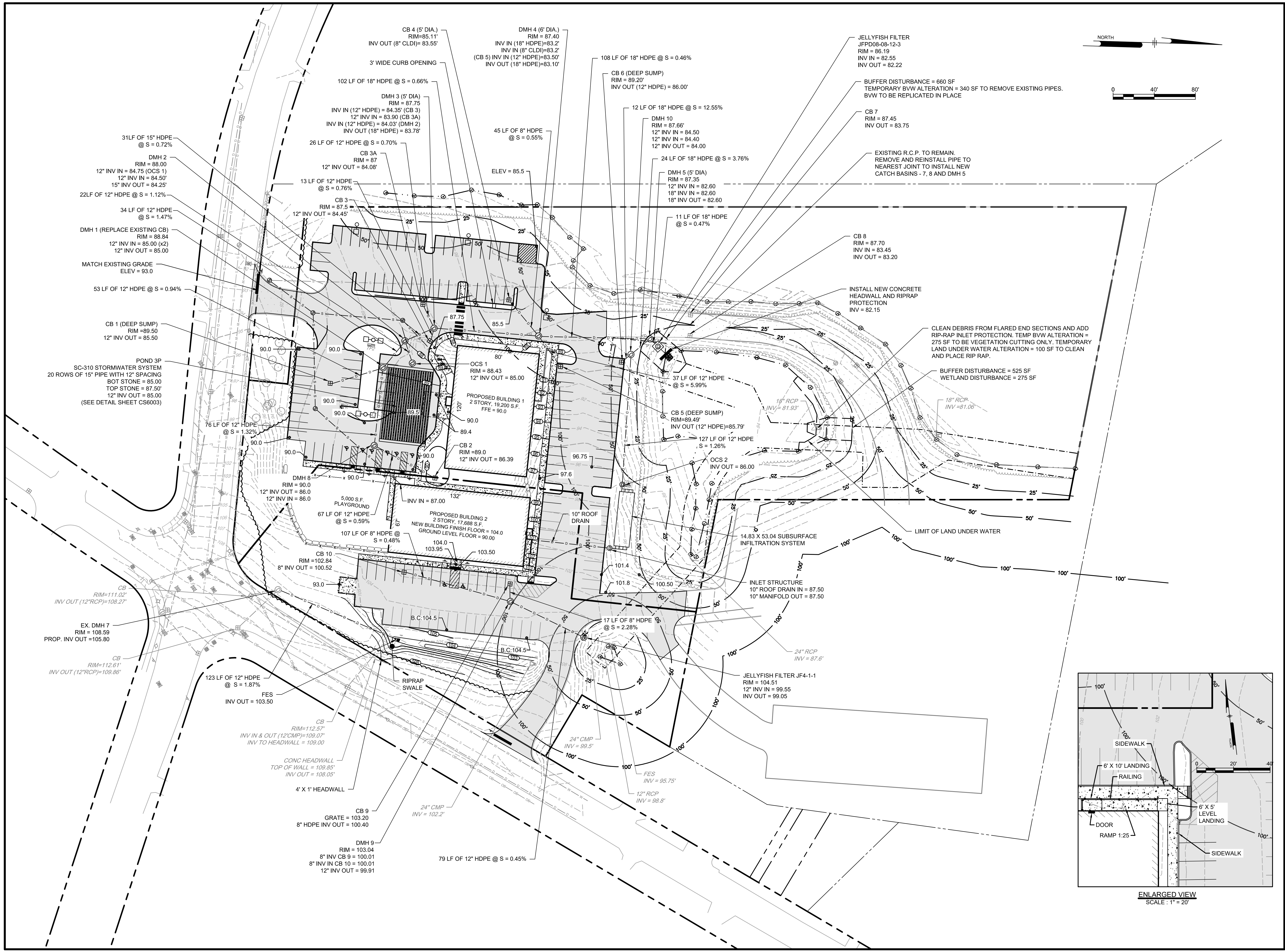
SITE PLAN
 140 HAVERHILL STREET
 ANDOVER MA, 01810

LAYOUT AND MATERIALS PLAN

MEDICO 140, LLC
 355 MIDDLESEX AVE, SUITE 7
 WILMINGTON, MA 01897

NO.	DATE	REVISIONS	BY
3	5/27/25	TRAFFIC REVIEW	BCO
2	3/31/25	FINAL PEER REVIEW COMMENTS	BCO
1	2/21/25	PEER REVIEW COMMENTS	BCO

PROJECT	19-152
DATE	MAY 27, 2025
DRAWING SCALE	1" = 40'
DRAWN BY	OMR
APPROVED BY	BCO



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SITE PLAN
140 HAVERHILL STREET
ANDOVER MA, 01810

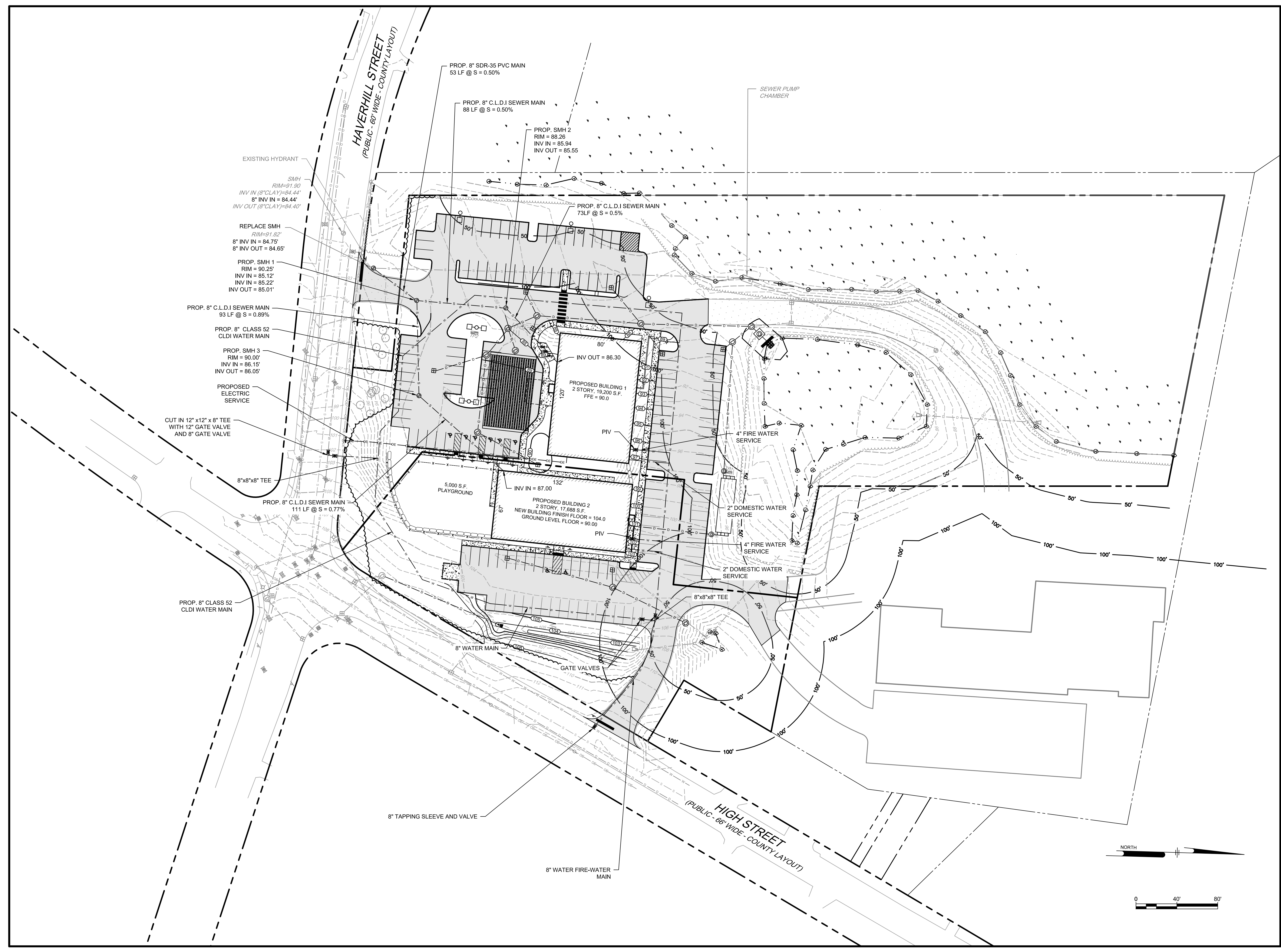
GRADING AND DRAINAGE PLAN

MEDICO 140, LLC
355 MIDDLESEX AVE, SUITE 7
WILMINGTON, MA 01887

NO.	DATE	REVISIONS	BY
3	5/27/25	TRAFFIC REVIEW	BCO
2	3/31/25	FINAL PEER REVIEW COMMENTS	BCO
1	2/21/25	PEER REVIEW COMMENTS	BCO

PROJECT: 19-152
DATE: MAY 27, 2025
DRAWING SCALE: 1" = 40'
DRAWN BY: OMR
APPROVED BY: BCO

CS1501
SHEET 7 OF 20



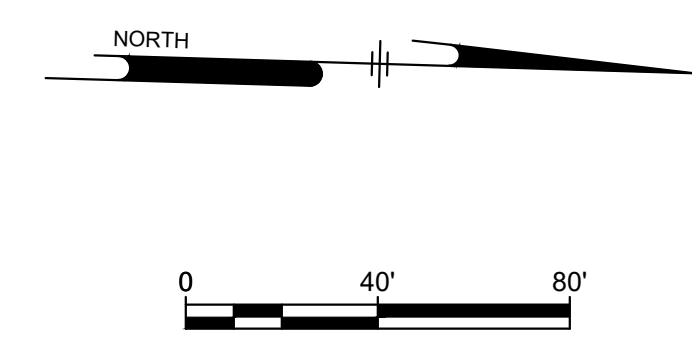
SITE PLAN
 140 HAVERHILL STREET
 ANDOVER MA, 01810

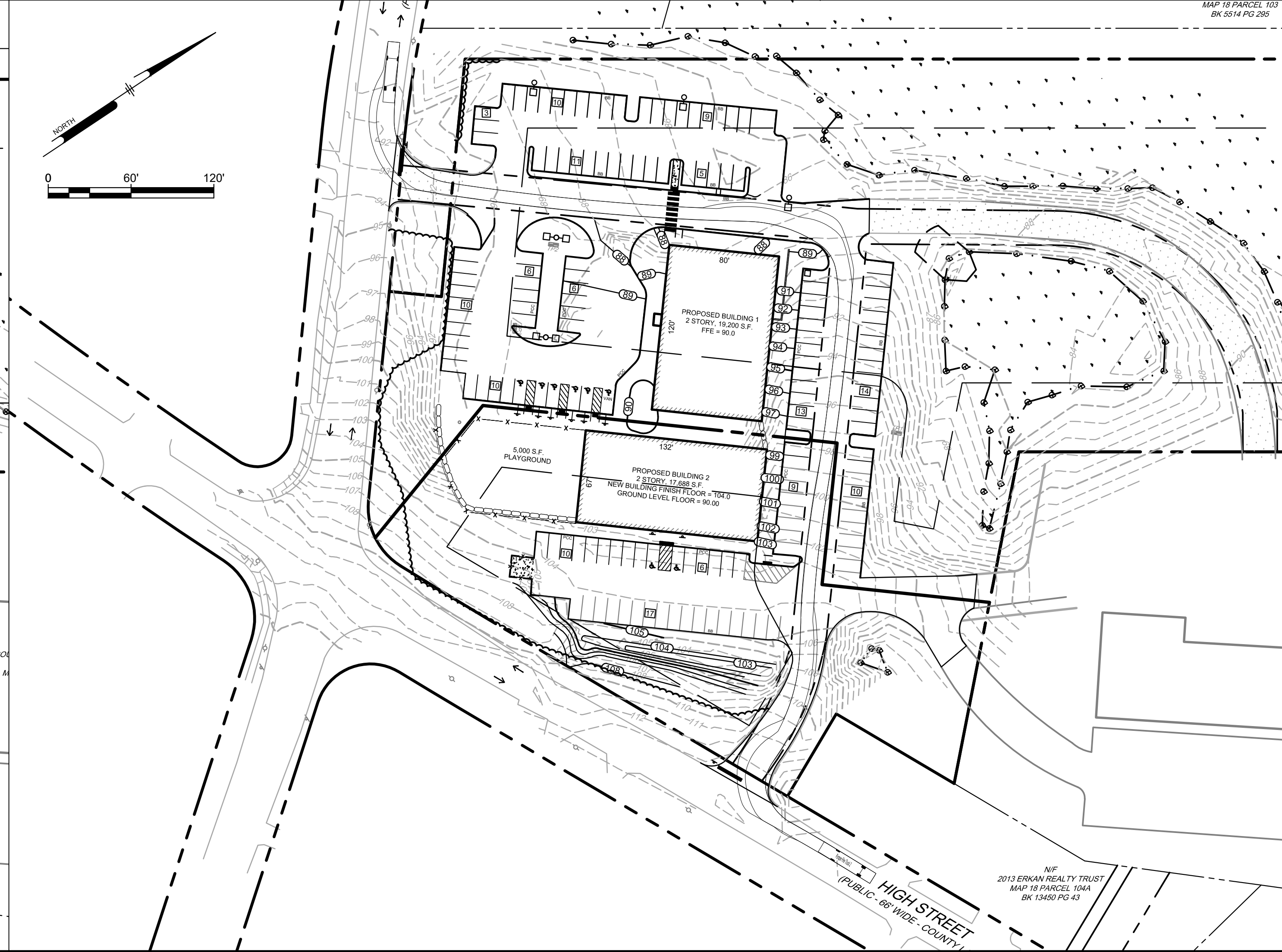
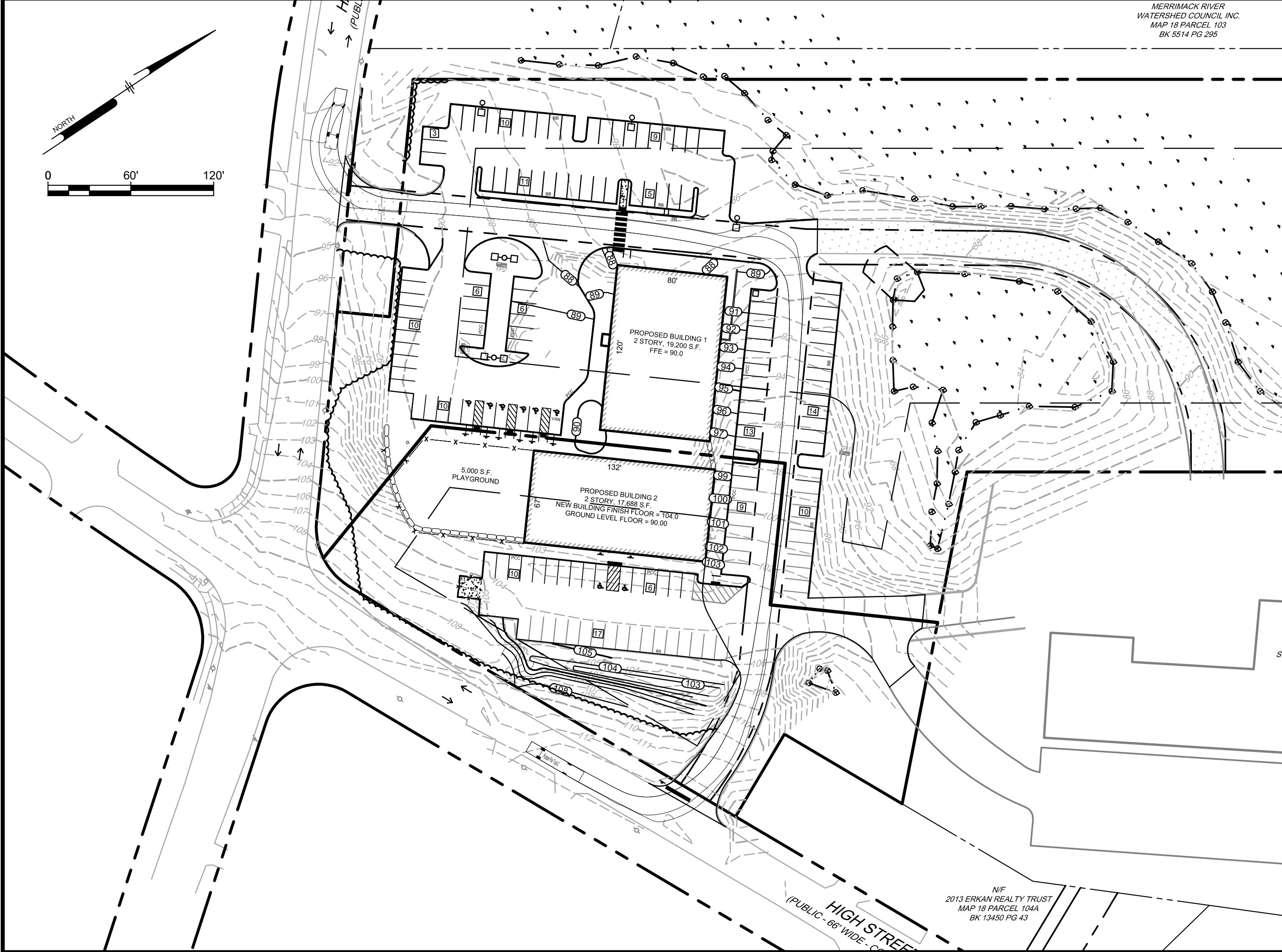
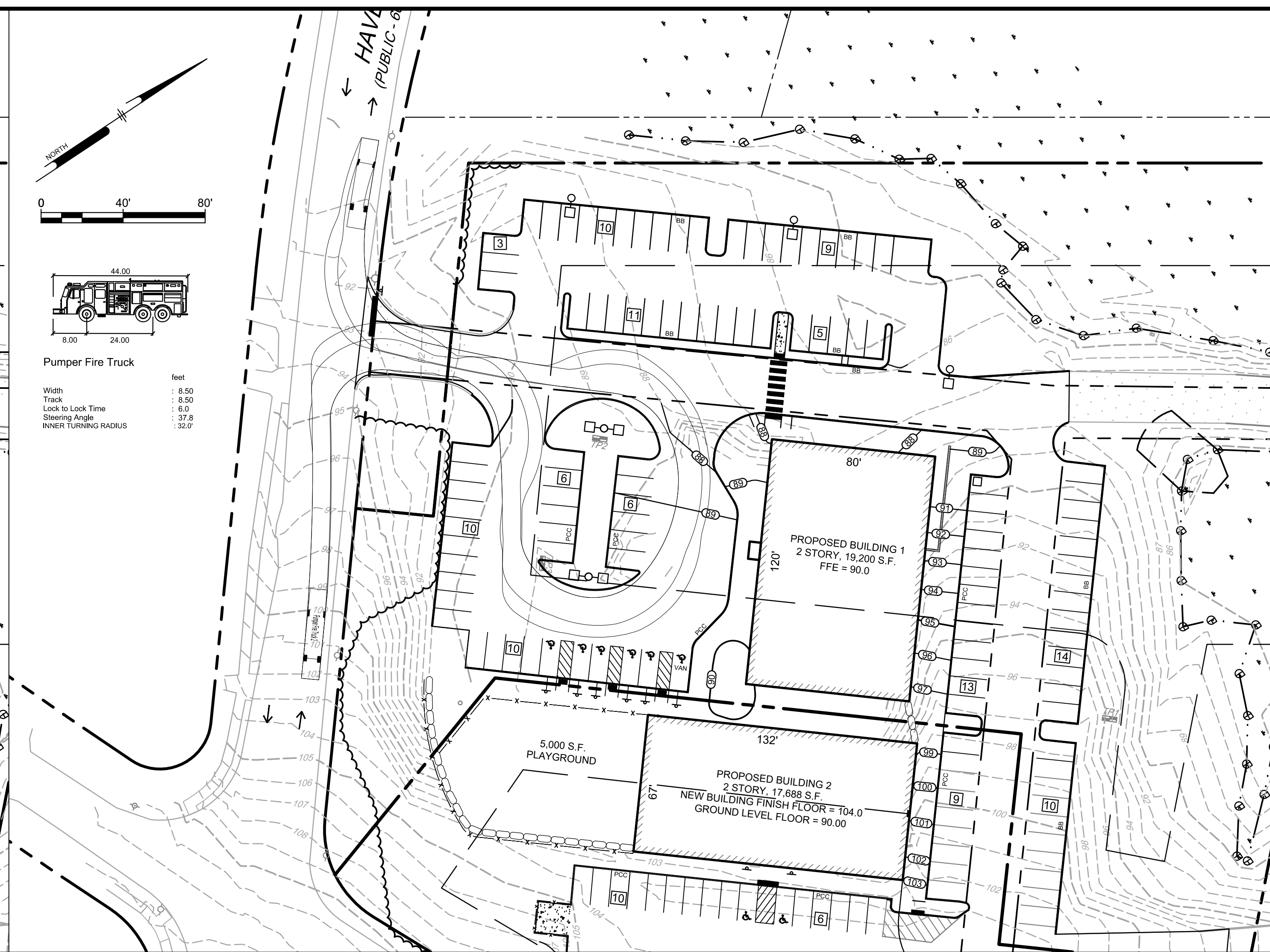
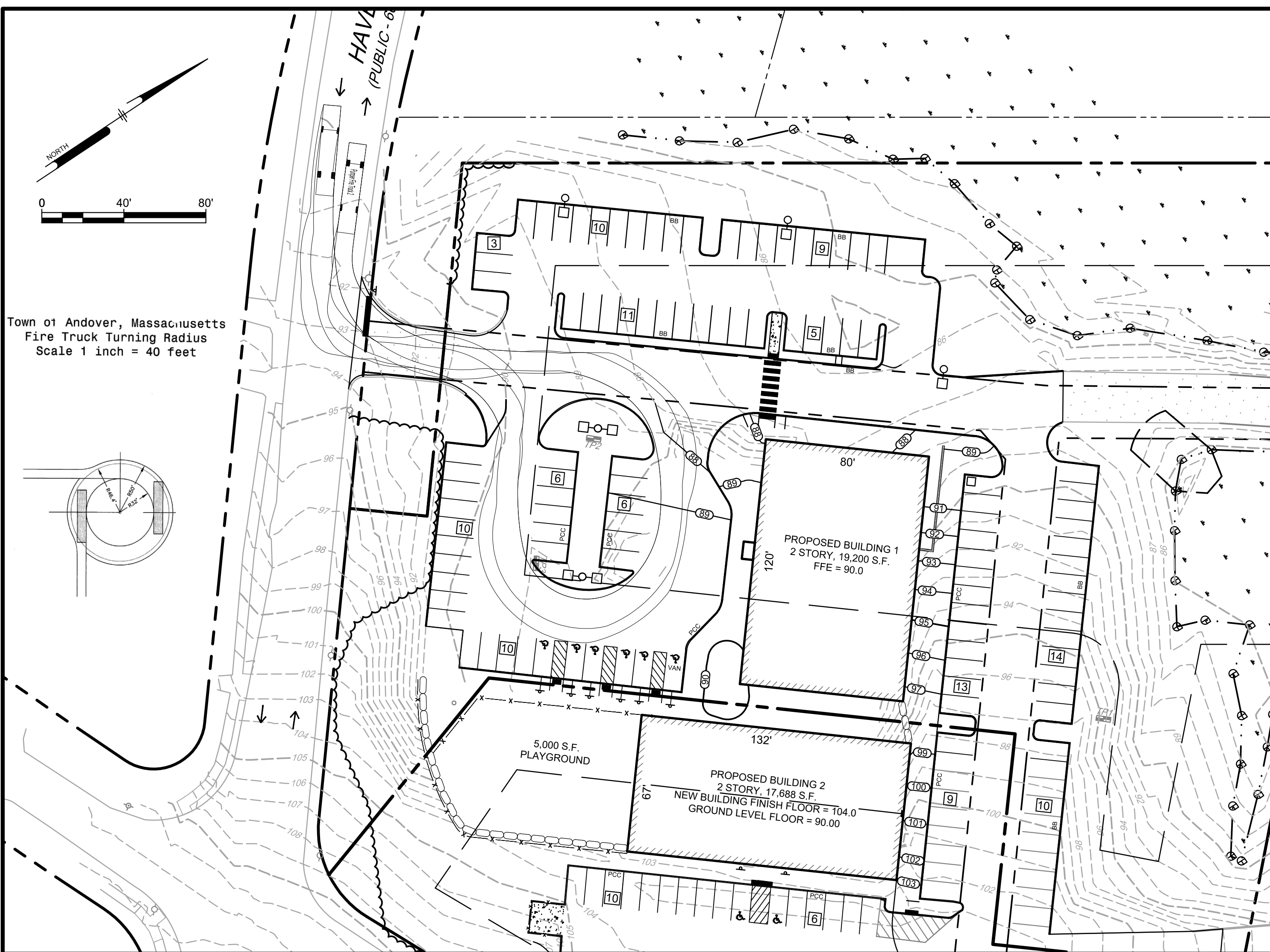
UTILITY PLAN

MEDICO 140, LLC
 355 MIDDLESEX AVE SUITE 7
 WILMINGTON, MA 01897

NO.	DATE	REVISIONS	BY
3	5/27/25	TRAFFIC REVIEW	BCO
2	3/31/25	FINAL PEER REVIEW COMMENTS	BCO
1	2/21/25	PEER REVIEW COMMENTS	BCO

PROJECT	19-152
DATE	MAY 27, 2025
DRAWING SCALE	1" = 40'
DRAWN BY	OMR
APPROVED BY	BCO





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 130 Main Street, Suite 202
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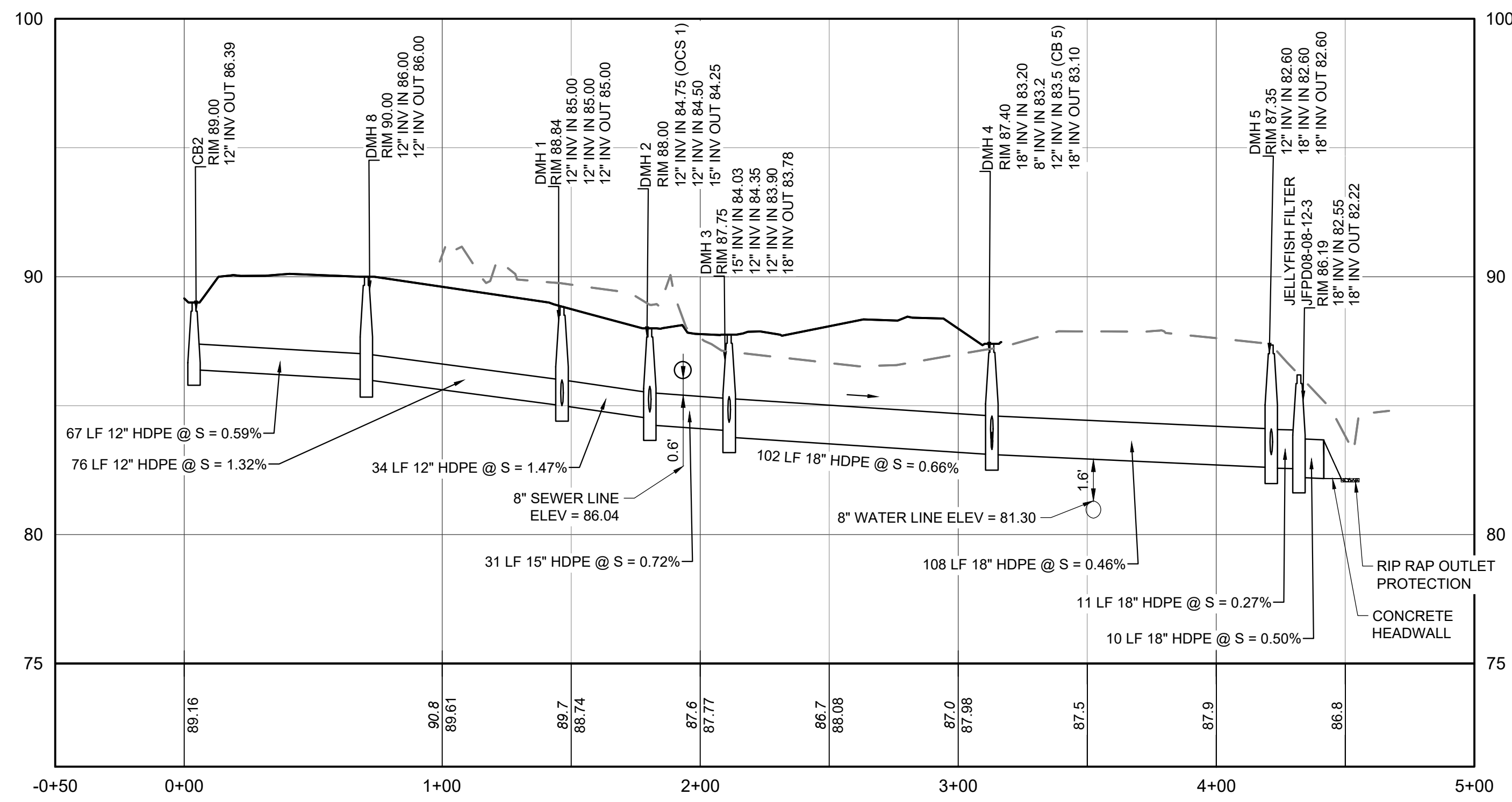
SITE PLAN
 140 HAVERHILL STREET
 ANDOVER MA, 01810

TURNING PLAN
 MEDICO 140, LLC
 355 MIDDLESEX AVE SUITE 7
 WILMINGTON, MA 01897

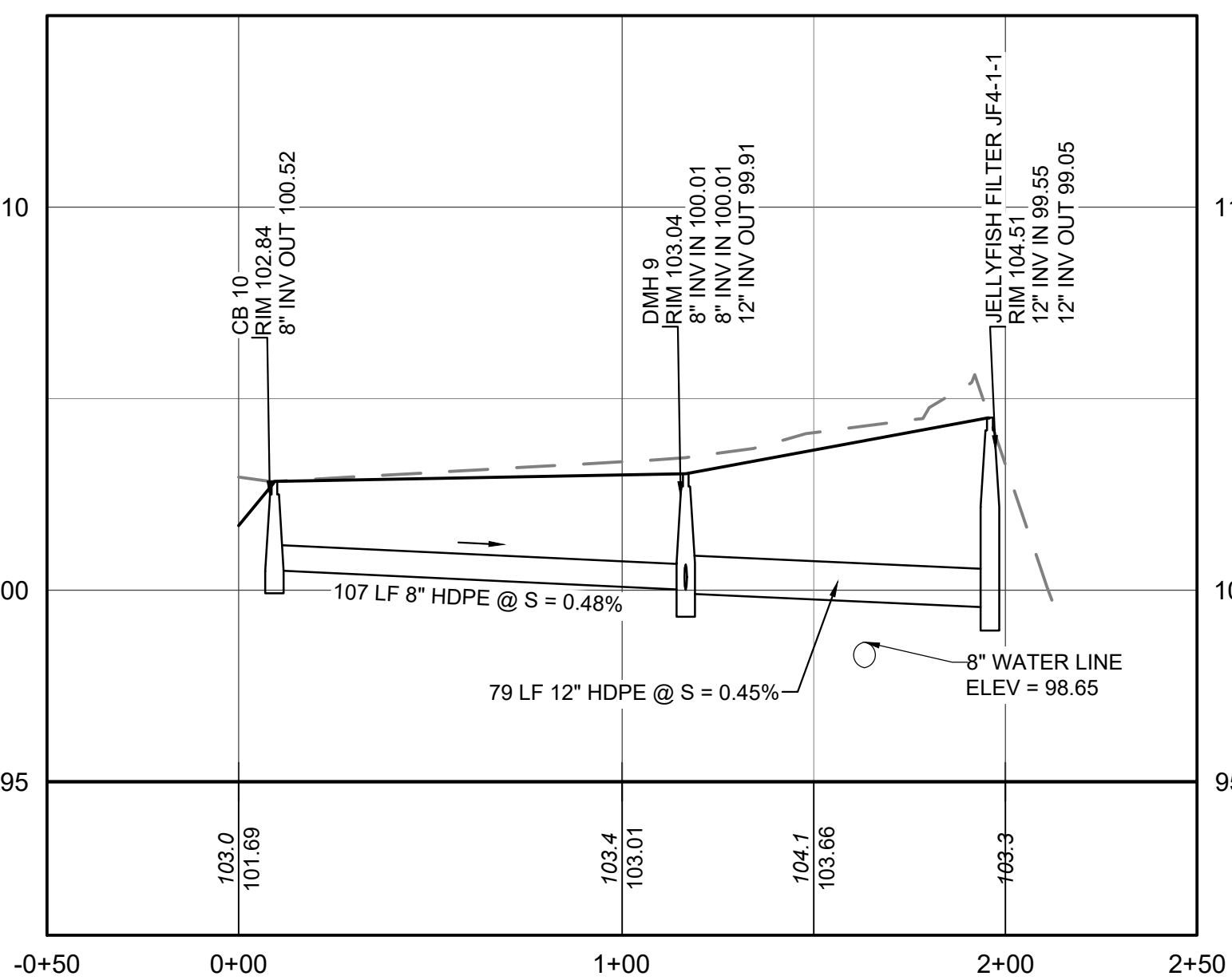
DATE	NO.	REVISIONS	BY
5/27/25	3	TRAFFIC REVIEW	BCO
3/31/25	2	FINAL PEER REVIEW COMMENTS	BCO
2/21/25	1	PEER REVIEW COMMENTS	BCO

PROJECT: 19-152
 DATE: MAY 27, 2025
 DRAWING SCALE: 1" = 40'
 DRAWN BY: OMR
 APPROVED BY: BCO

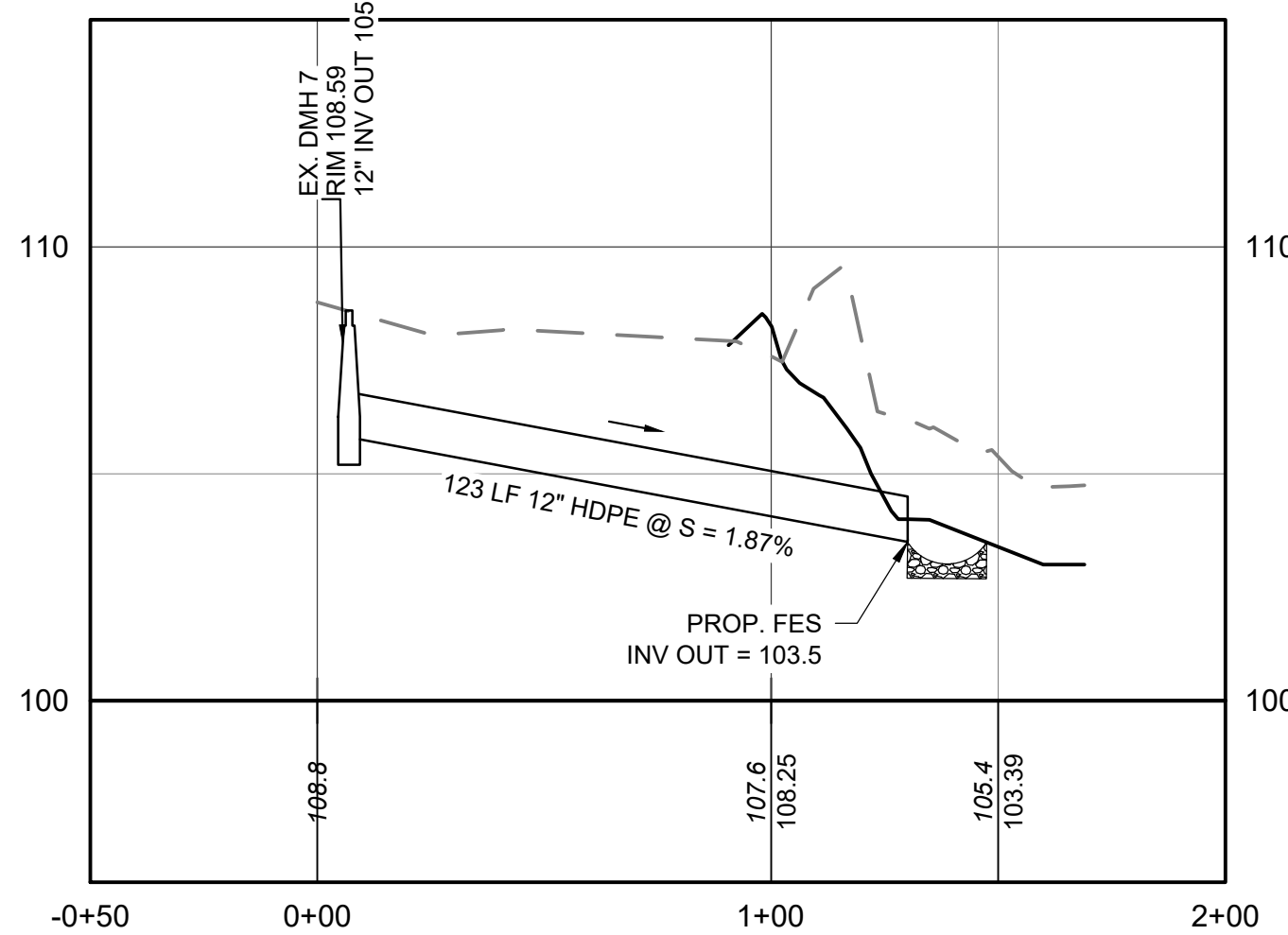
CS2701
 SHEET 9 OF 20



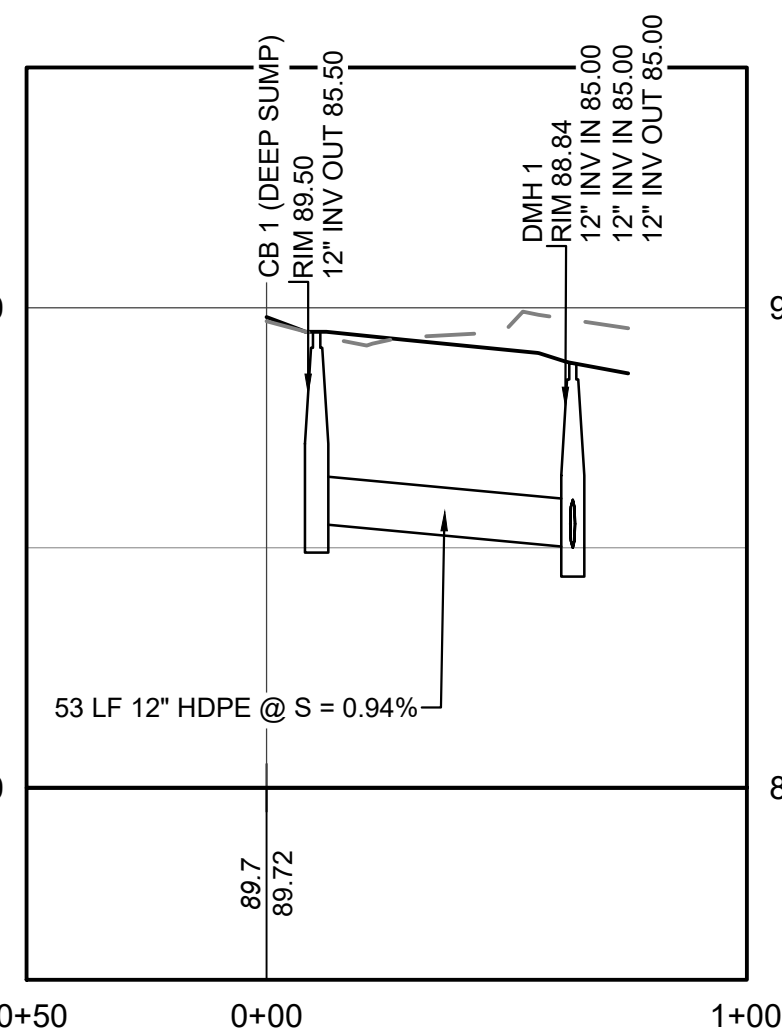
DRAIN LINE 1
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'



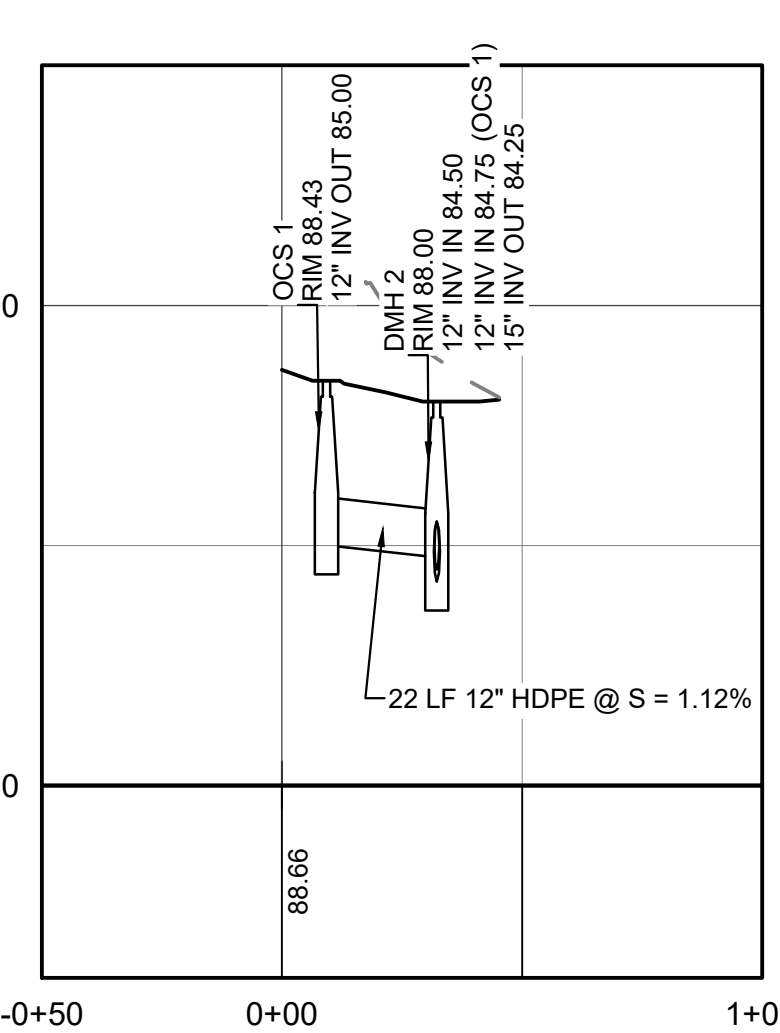
DRAIN LINE 2
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'



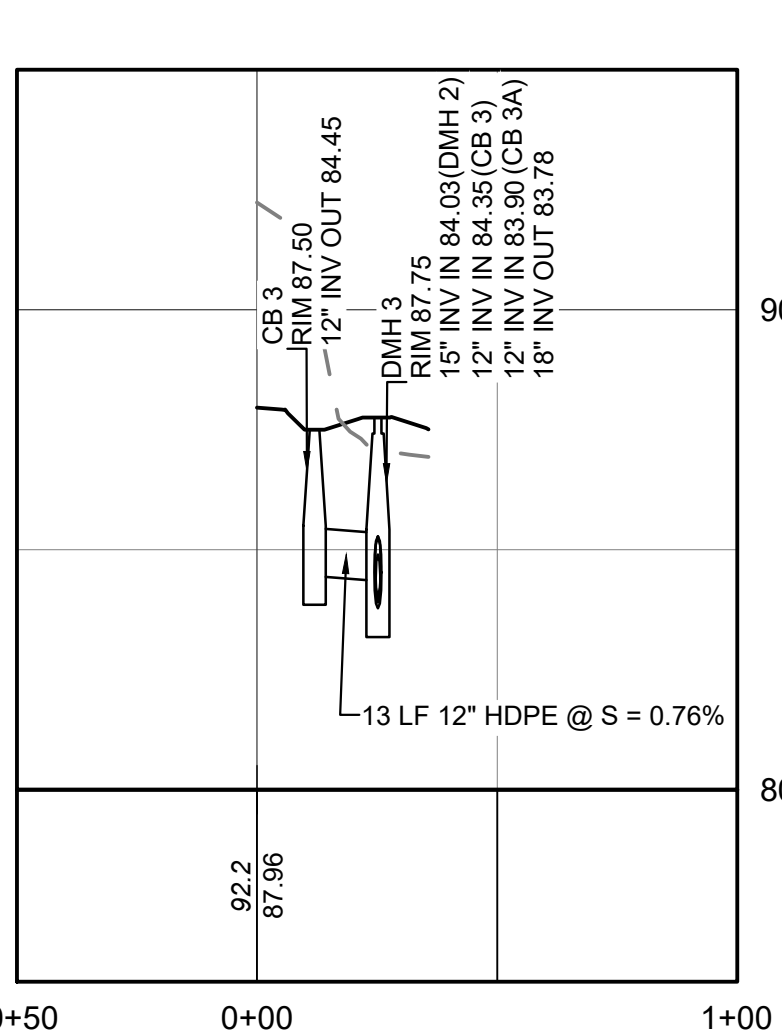
DRAIN LINE 3
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'



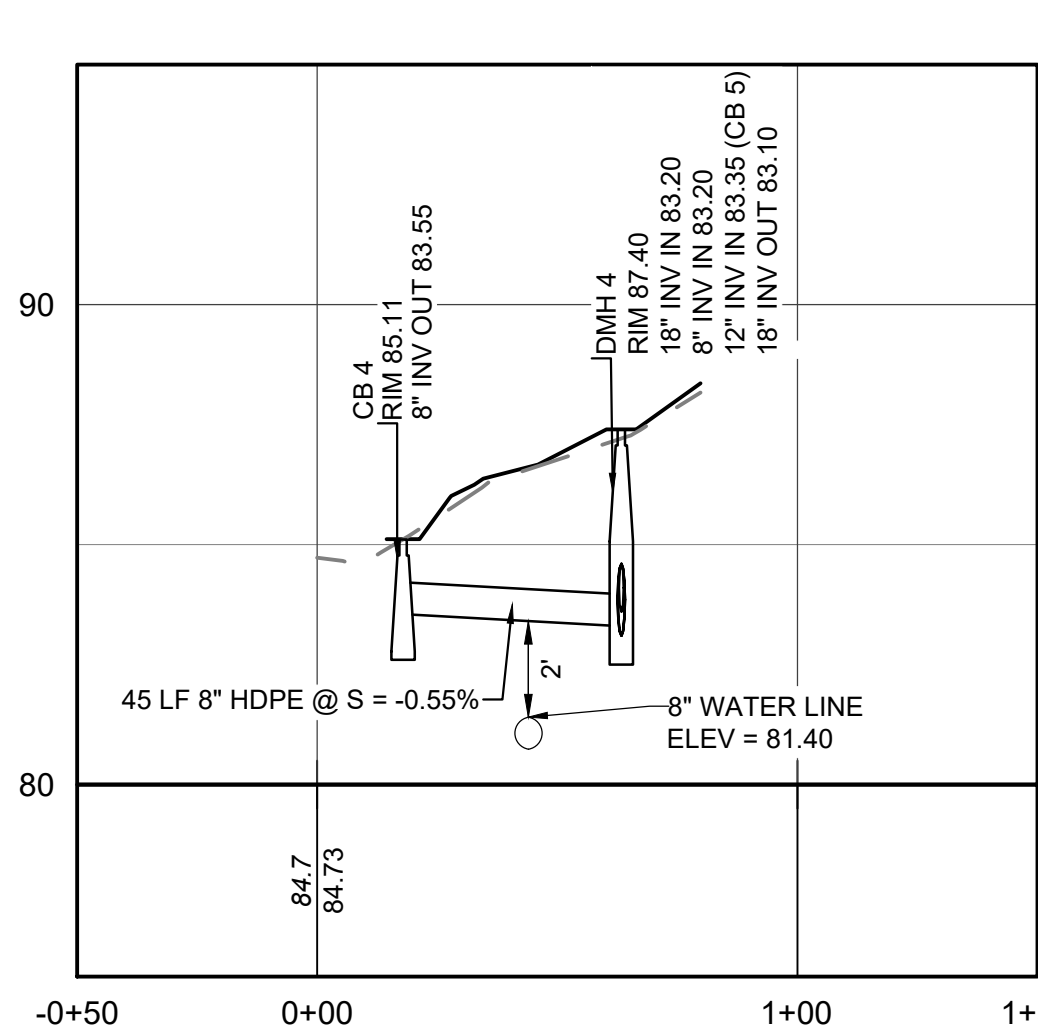
DRAIN LINE A
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'



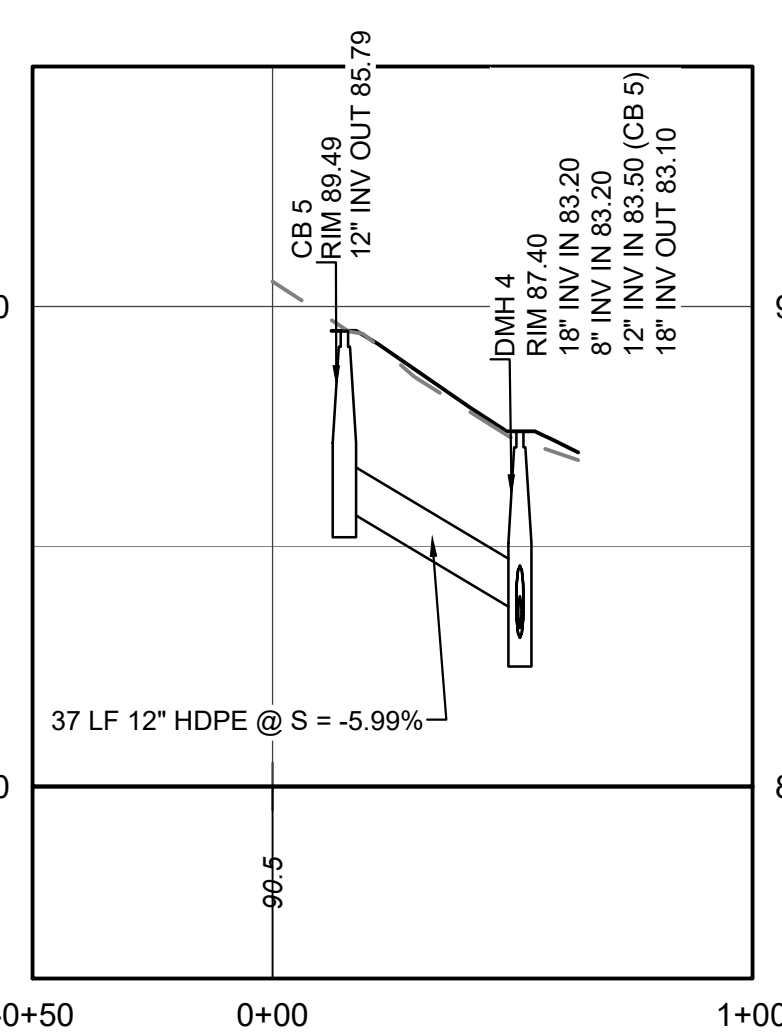
DRAIN LINE B
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'



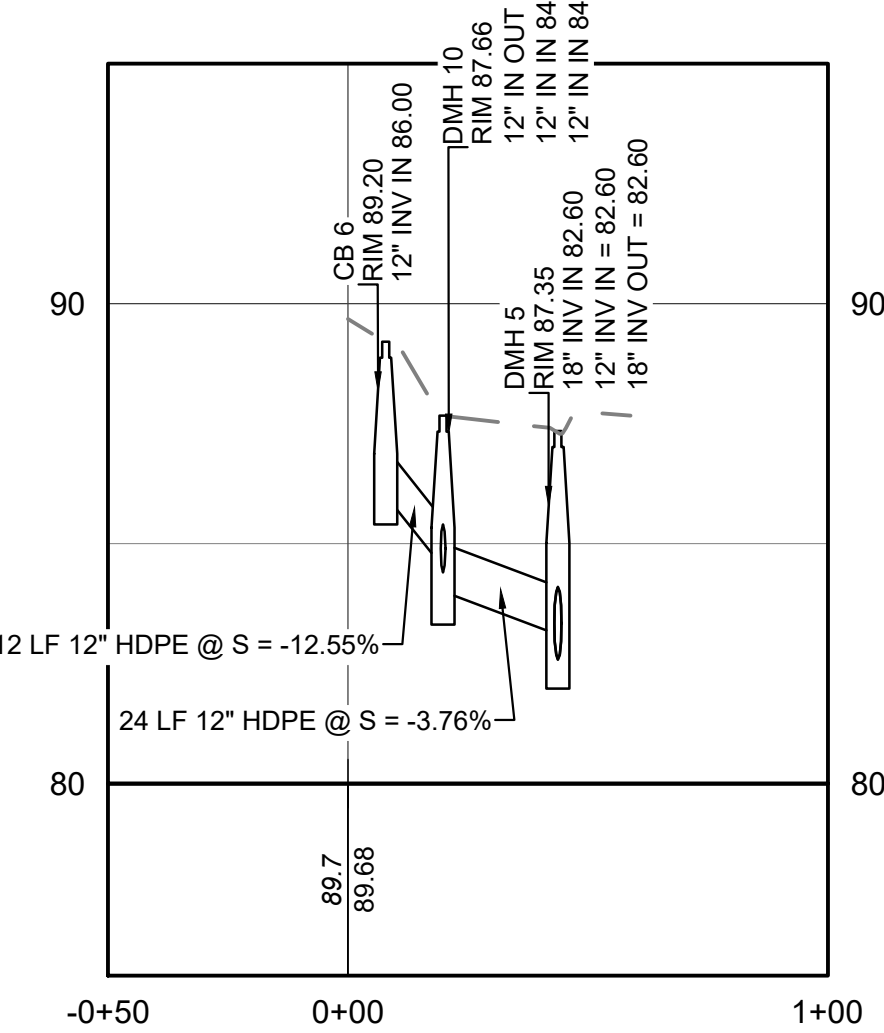
DRAIN LINE C
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'



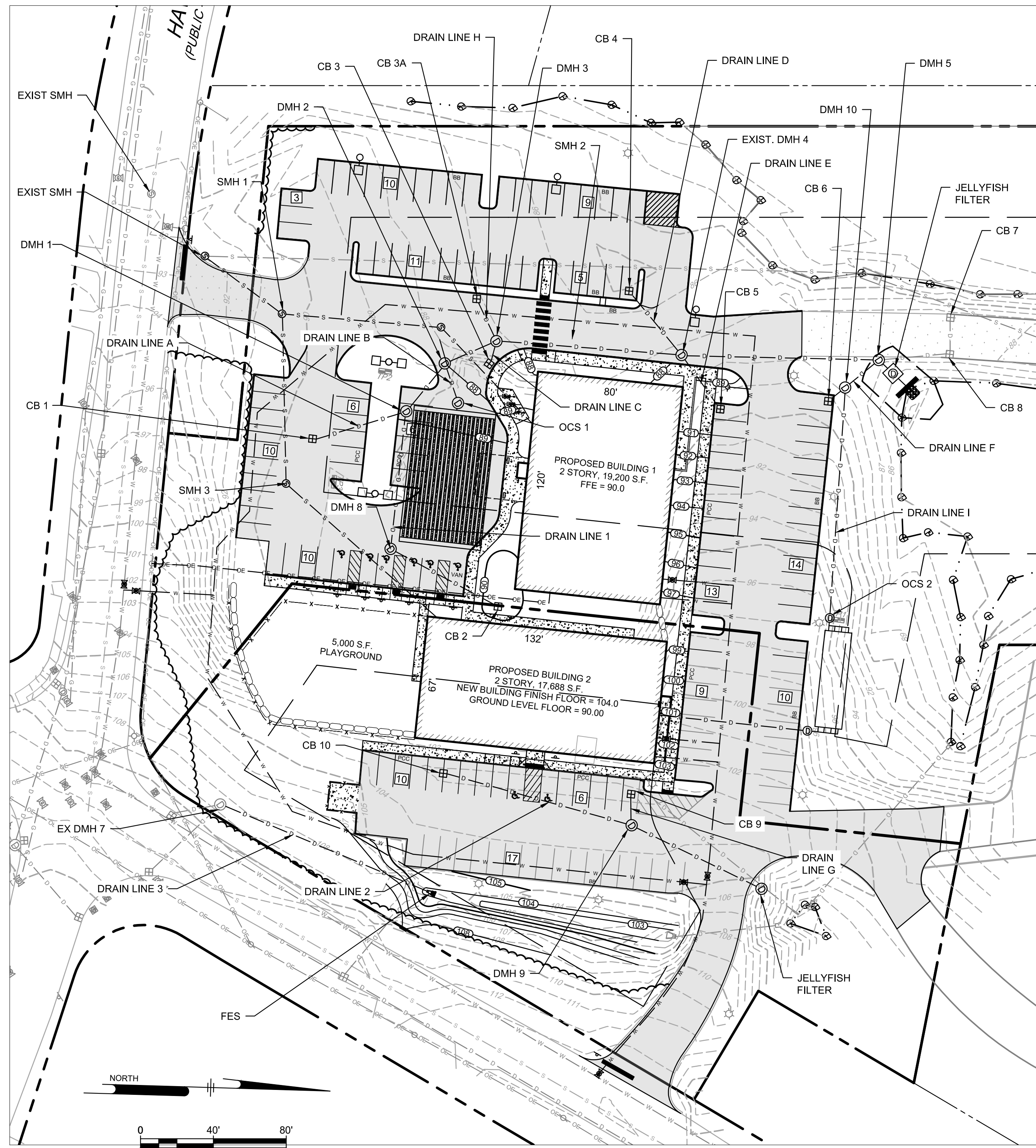
DRAIN LINE D
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'



DRAIN LINE E
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

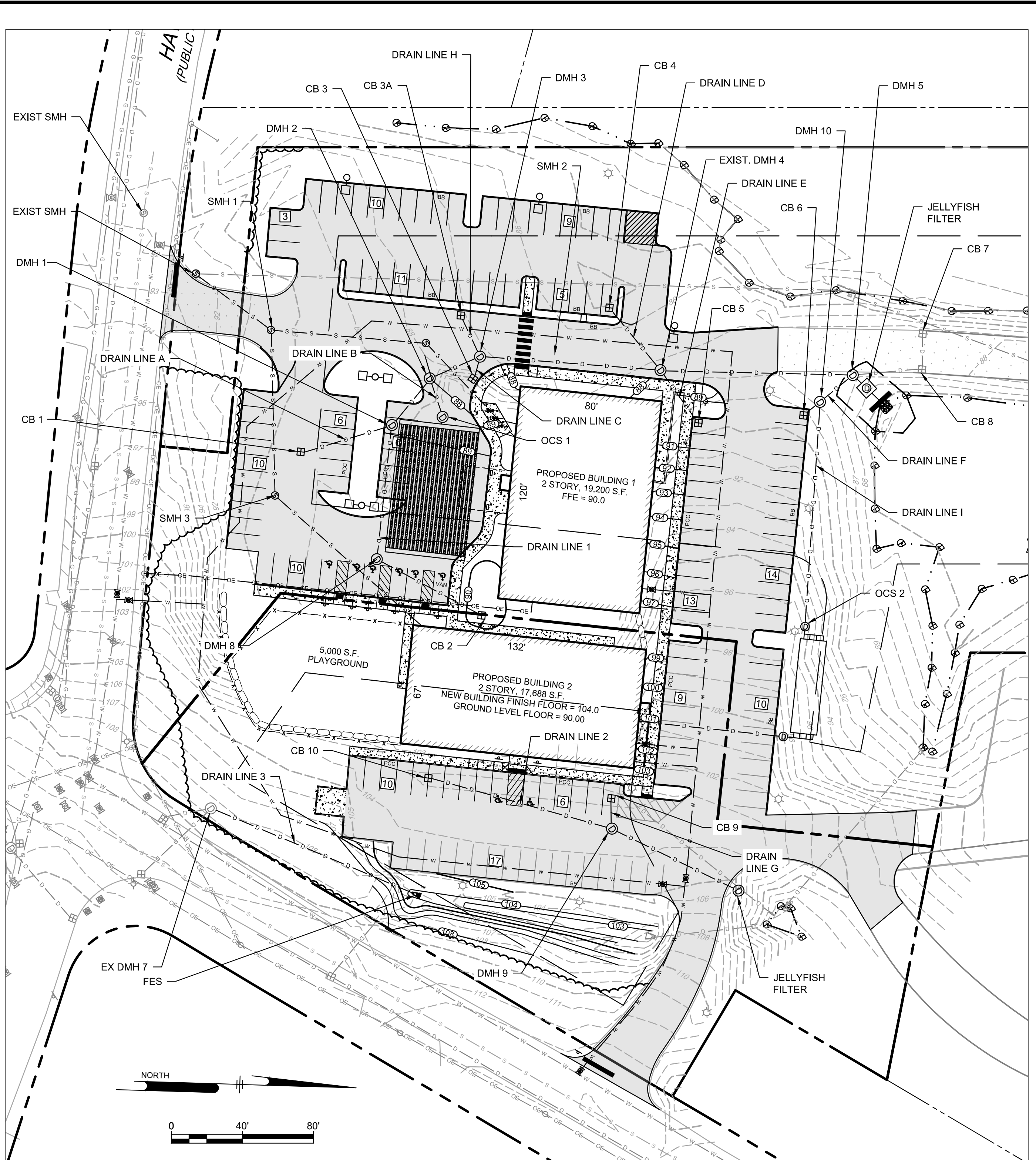
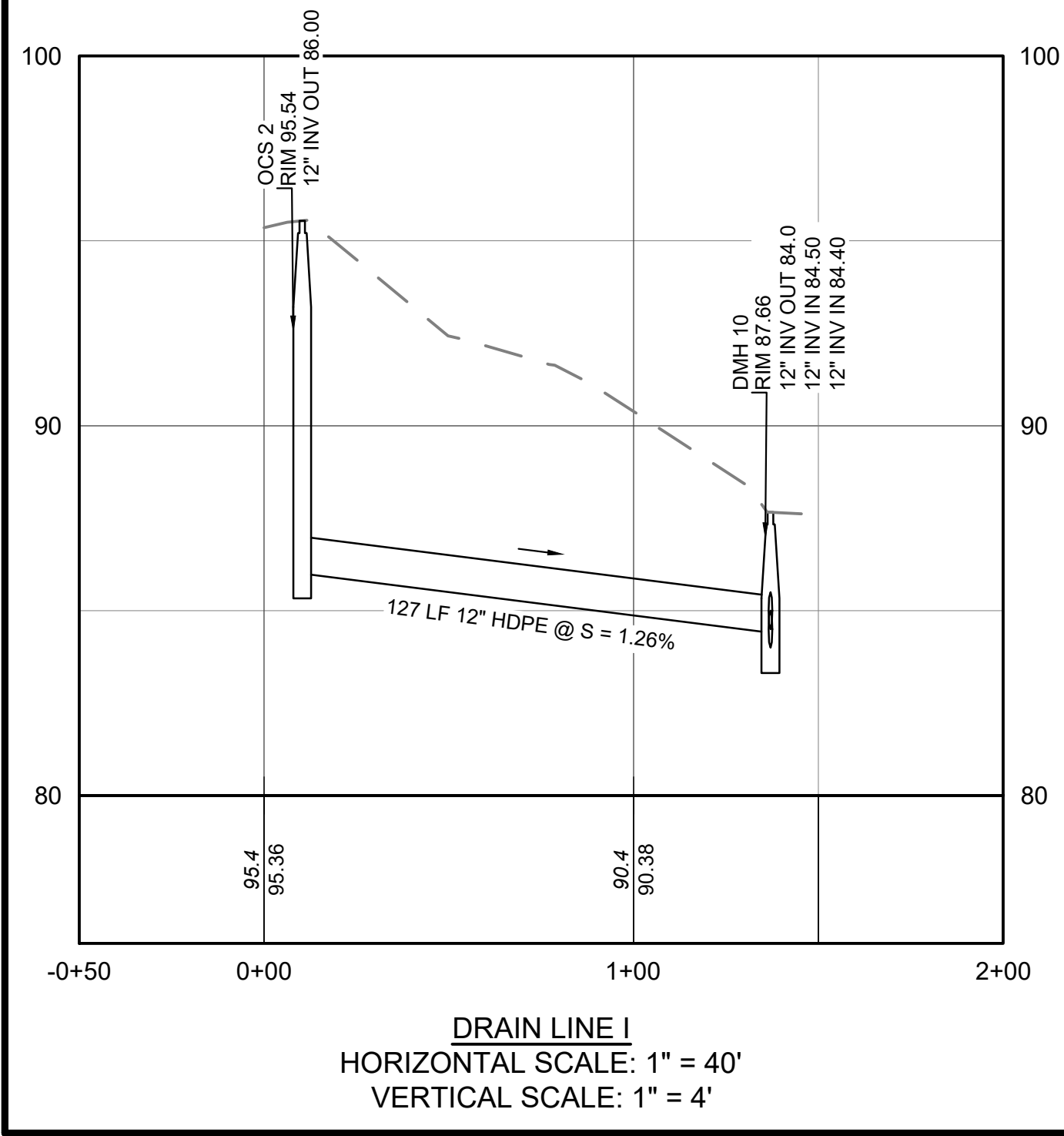
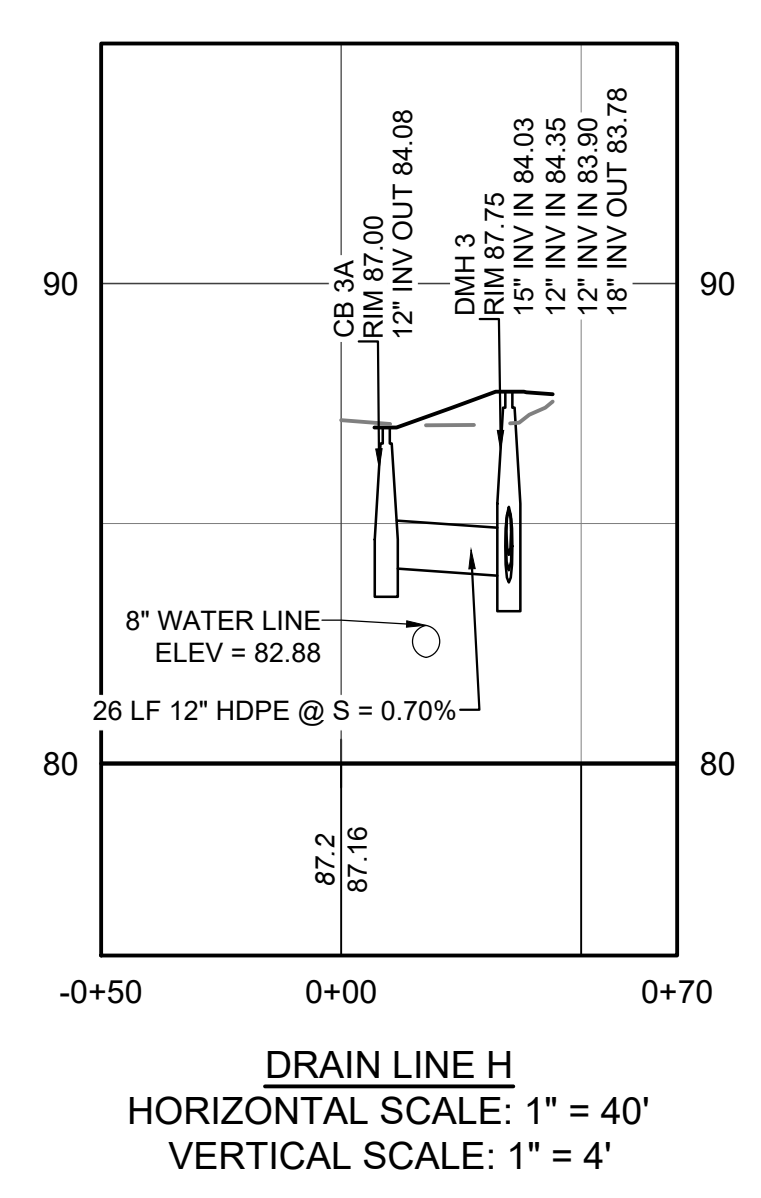
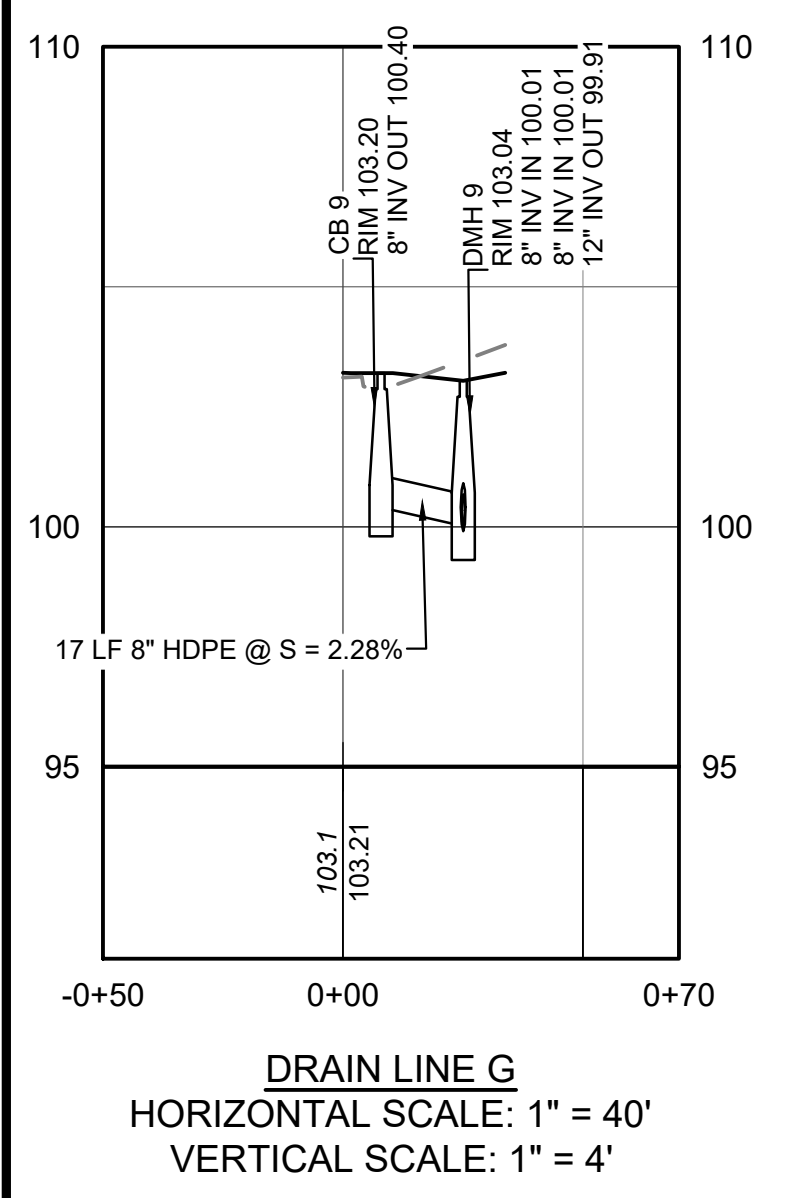
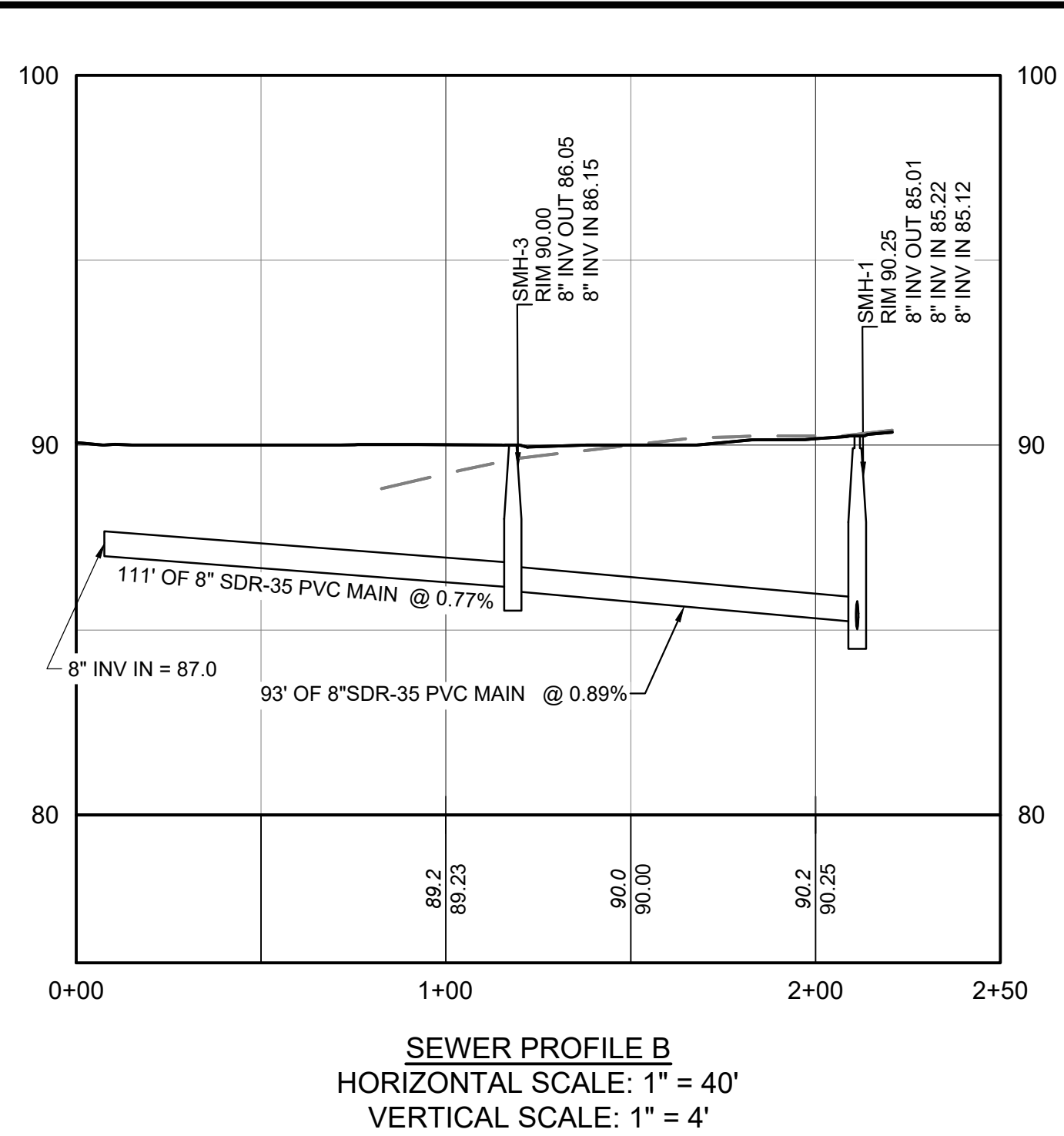
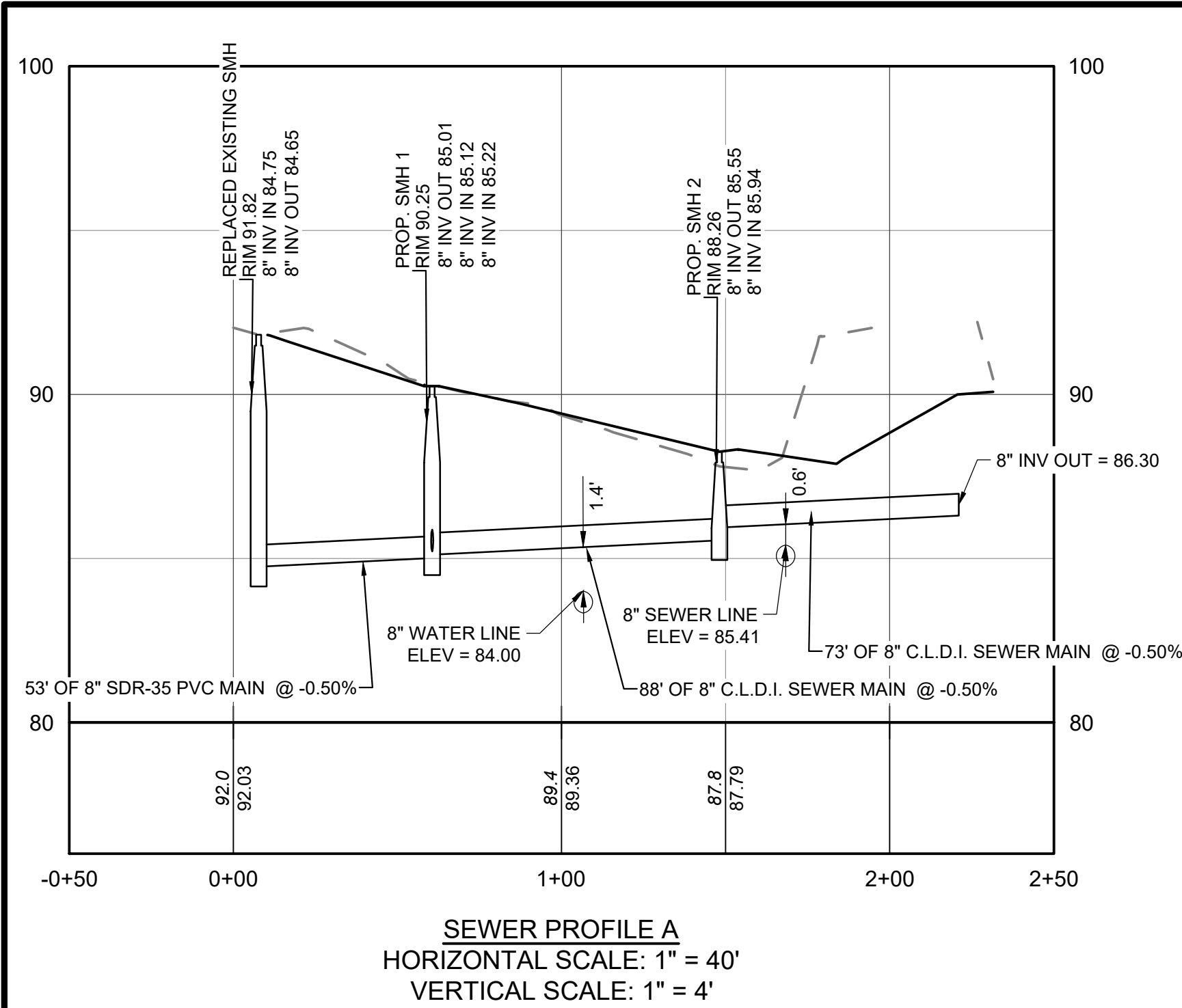


DRAIN LINE F
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'



NO.	DATE	REVISIONS	BY
3	5/27/25	TRAFFIC REVIEW	BCO
2	3/31/25	FINAL PEER REVIEW COMMENTS	BCO
1	2/21/25	PEER REVIEW COMMENTS	BCO

PROJECT	19-152
DATE	MAY 27, 2025
DRAWING SCALE	1" = 40'
DRAWN BY	OMR
APPROVED BY	BCO



Ranger Engineering Group, Inc.
 130 Main Street, Suite 202
 Salem NH, 03079
 Tel: 978-208-1762
 rangereng.com



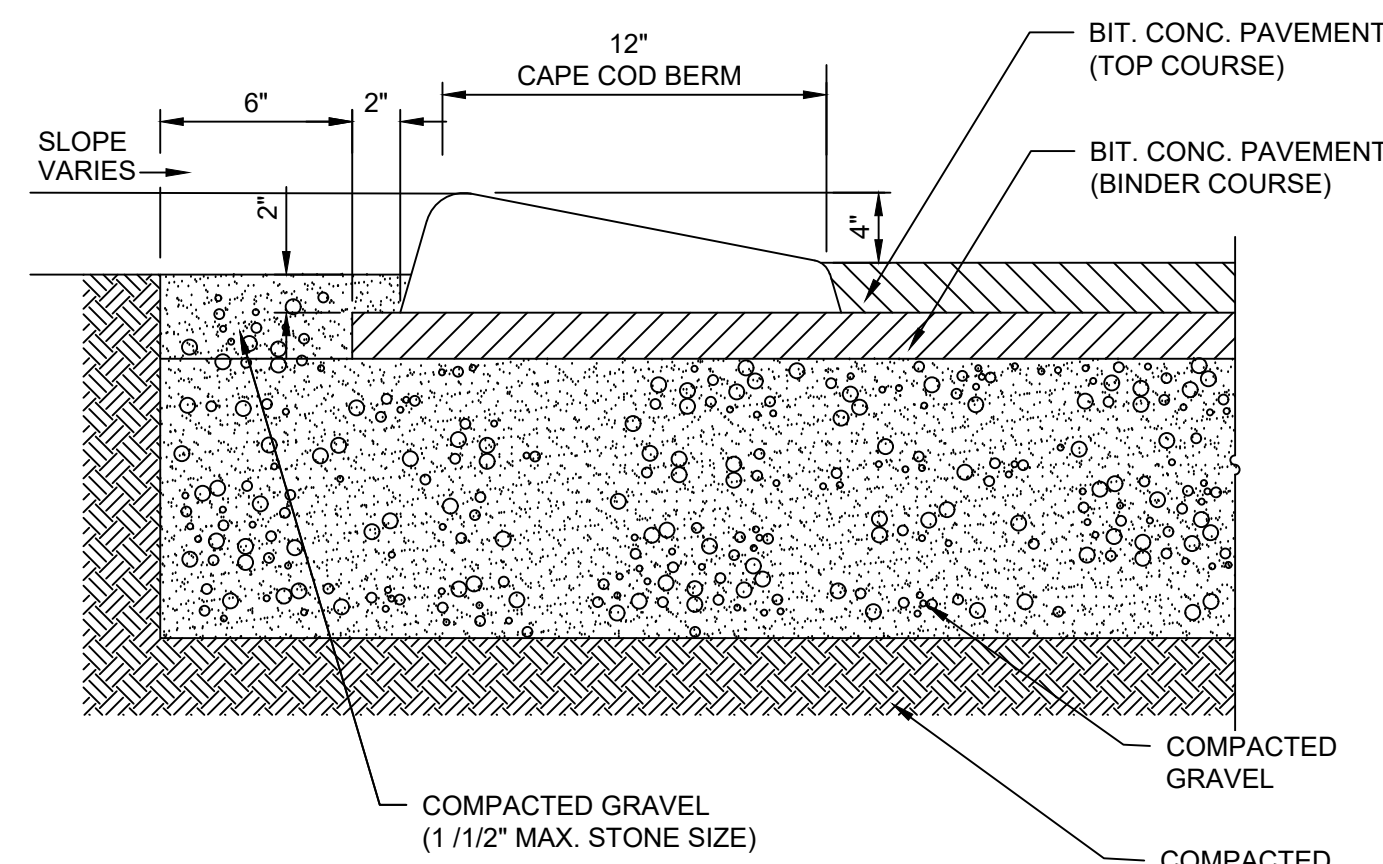
SITE PLAN
 140 HAVERHILL STREET
 ANDOVER MA, 01810

SEWER AND DRAIN PROFILES

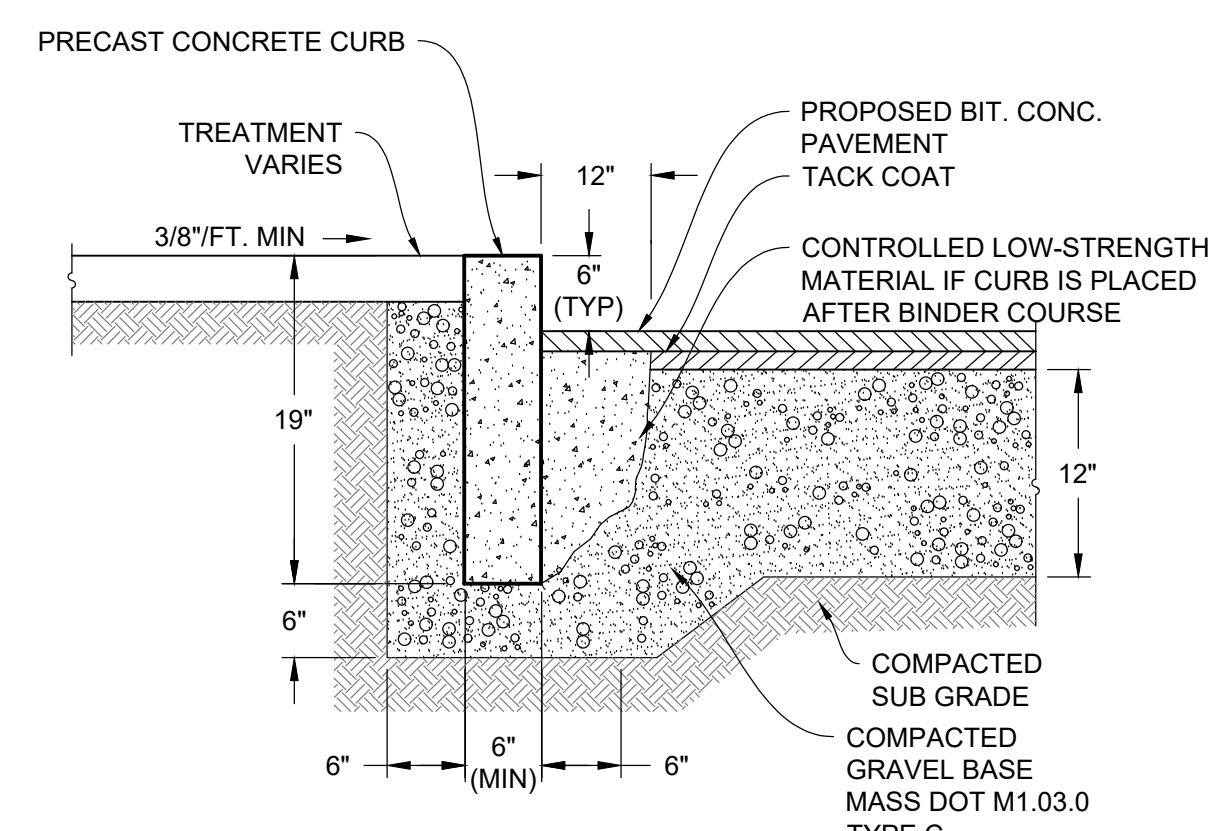
MEDICO 140, LLC
 355 MIDDLESEX AVE SUITE 7
 WILMINGTON, MA 01897

NO.	DATE	REVISIONS	BY
3	5/27/25	TRAFFIC REVIEW	BCO
2	3/31/25	FINAL PEER REVIEW COMMENTS	BCO
1	2/21/25	PEER REVIEW COMMENTS	BCO

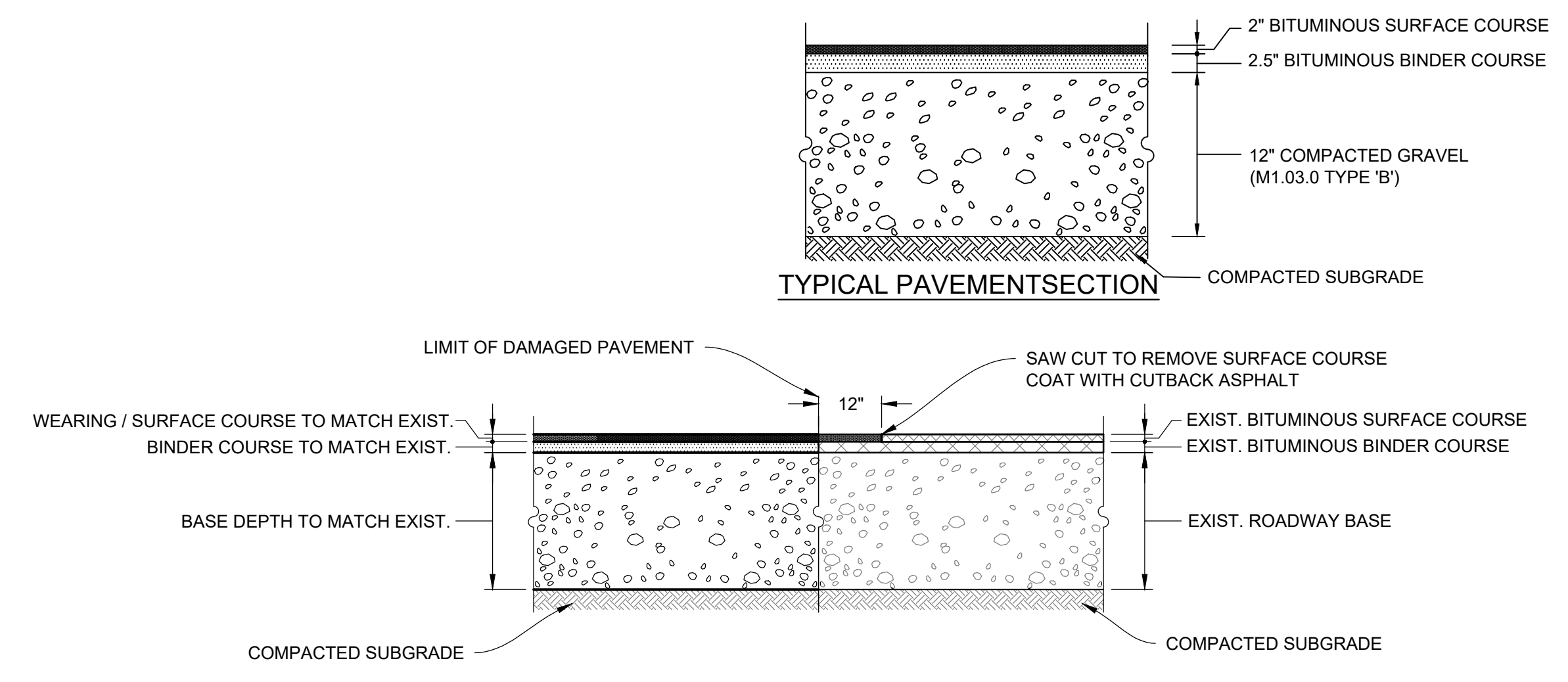
PROJECT: 19-152
 DATE: MAY 27, 2025
 DRAWING SCALE: 1" = 40'
 DRAWN BY: OMR
 APPROVED BY: BCO



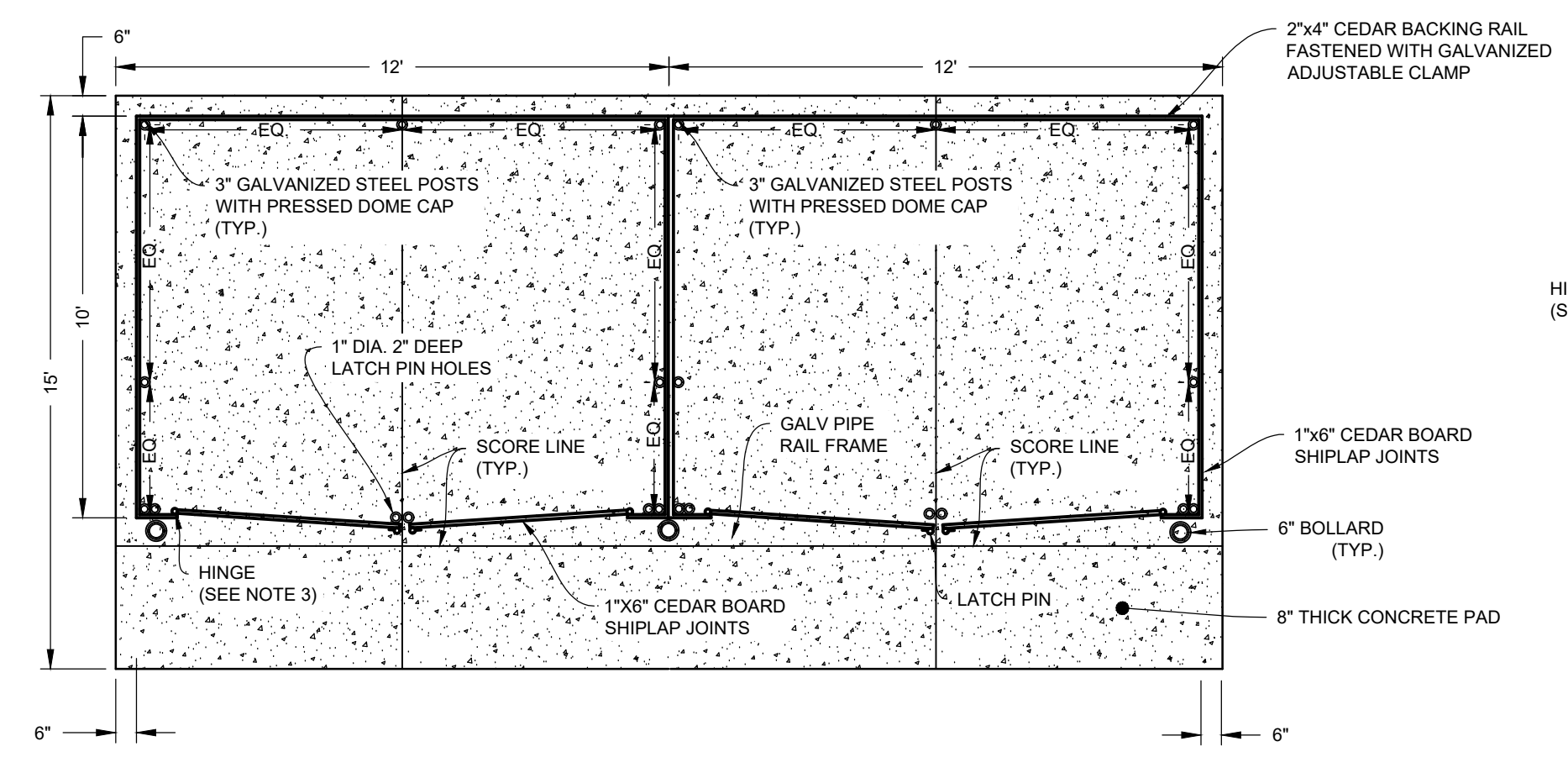
1 CAPECOD BERM
NOT TO SCALE



2 PRECAST CONCRETE CURB
NOT TO SCALE



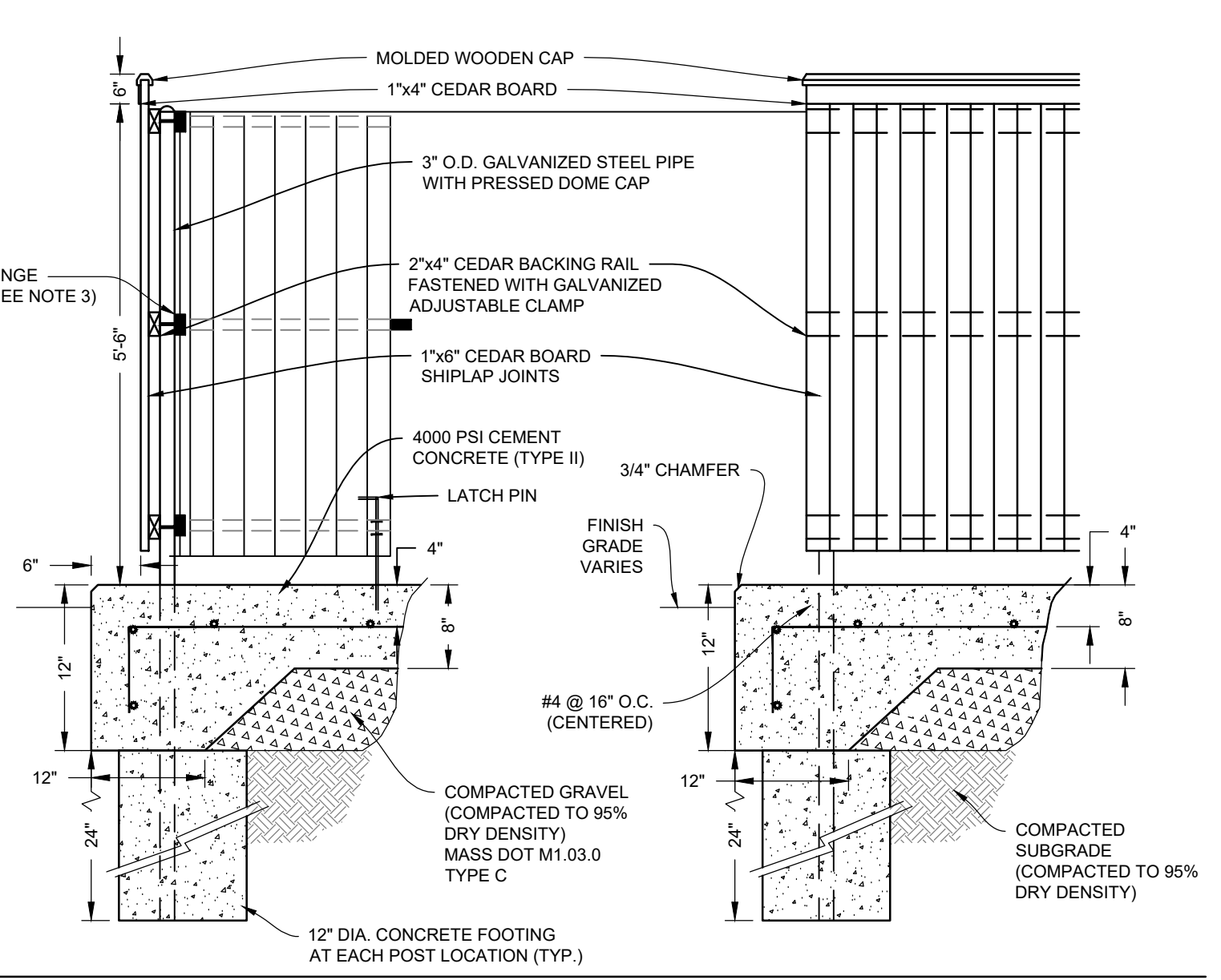
3 BIT. CONC. PAVEMENT REPAIR DETAIL
NOT TO SCALE



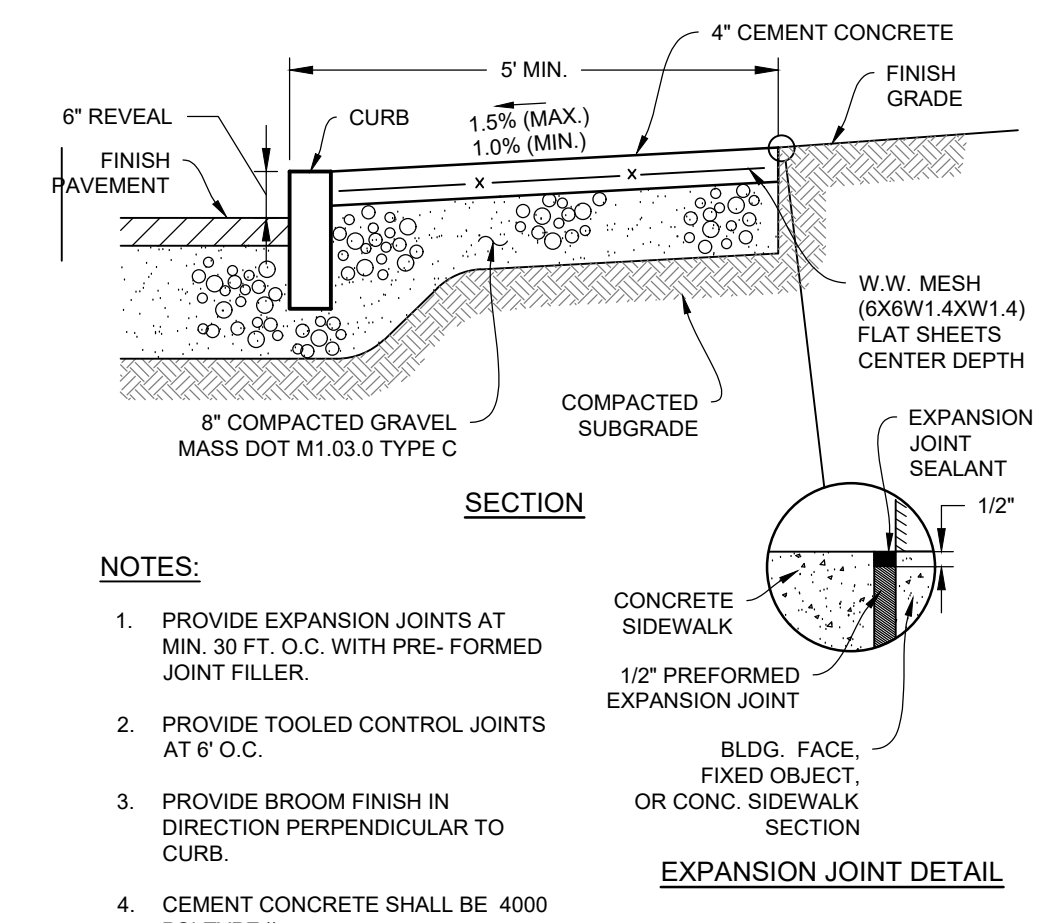
4 DUMPSTER PAD WITH ENCLOSURE
NOT TO SCALE

DUMPSTER PAD NOTES

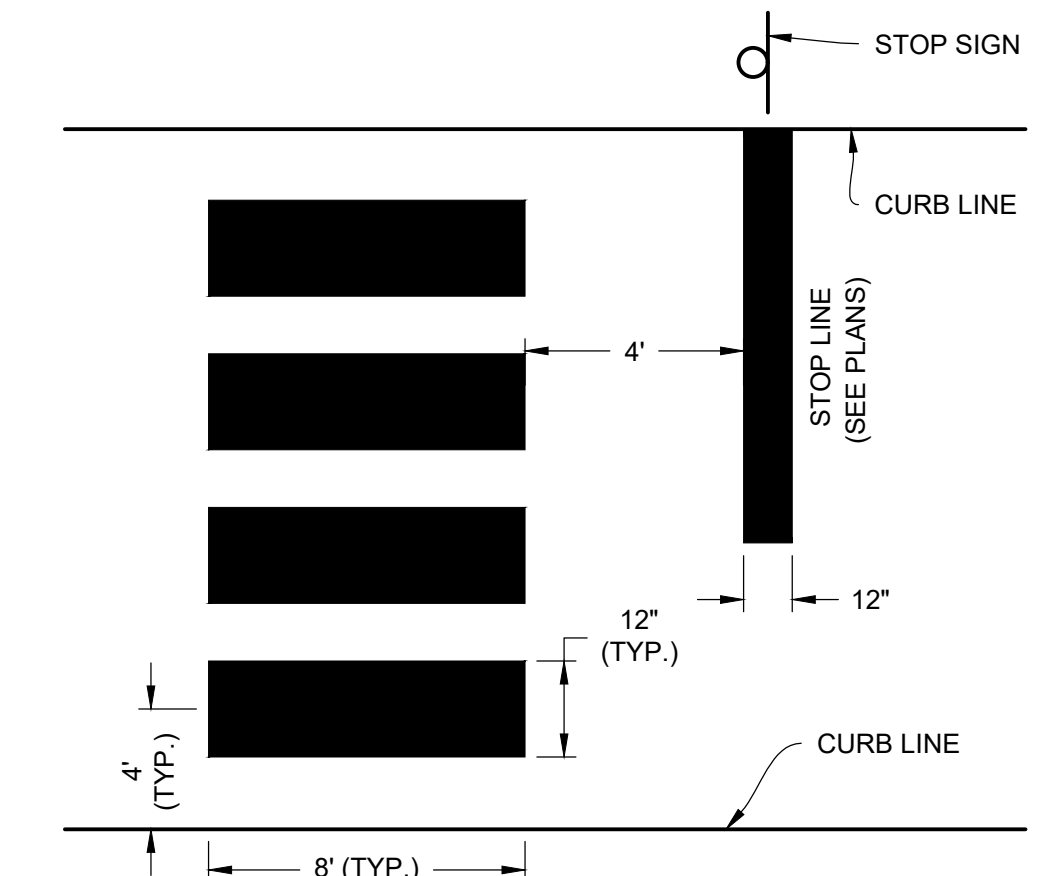
- SIZE OF DUMPSTER PAD TO BE AS INDICATED ON PLANS.
- CONSTRUCTION JOINTS SHALL BE PLACED NO MORE THAN 40 FEET ON CENTER AND SHALL BE EQUALLY SPACED OVER THE LENGTH AND WIDTH OF PAD.
- ALL HINGES TO BE SELF CLOSING SPRING HINGE FOR A MINIMUM 300 LB GATE CARRYING A 700LB POINT LOAD.



5 CONCRETE SIDEWALK
NOT TO SCALE



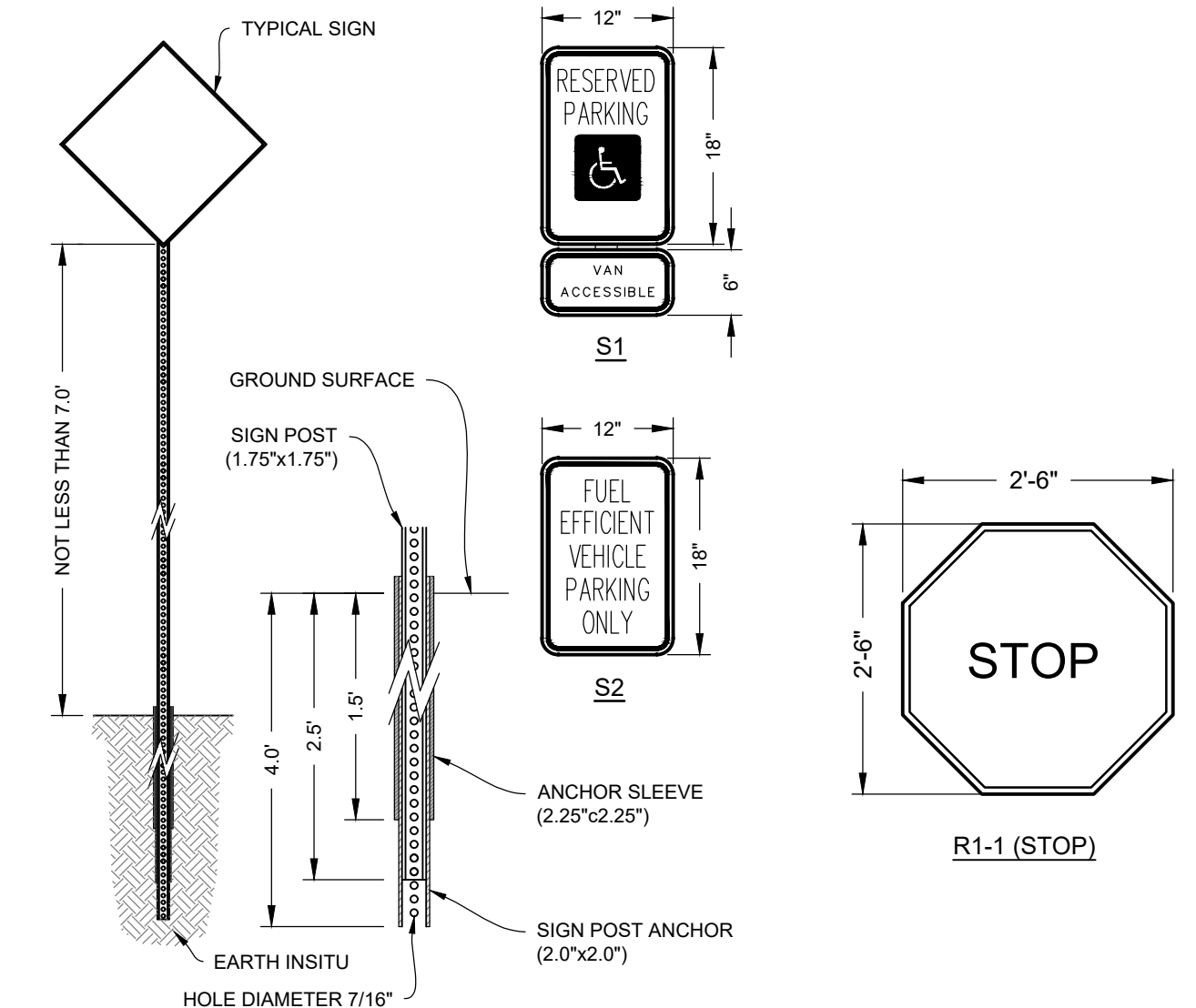
6 CHAIN LINK FENCE FOOTING DETAIL
NOT TO SCALE



7 CROSSWALK
NOT TO SCALE

NOTES:

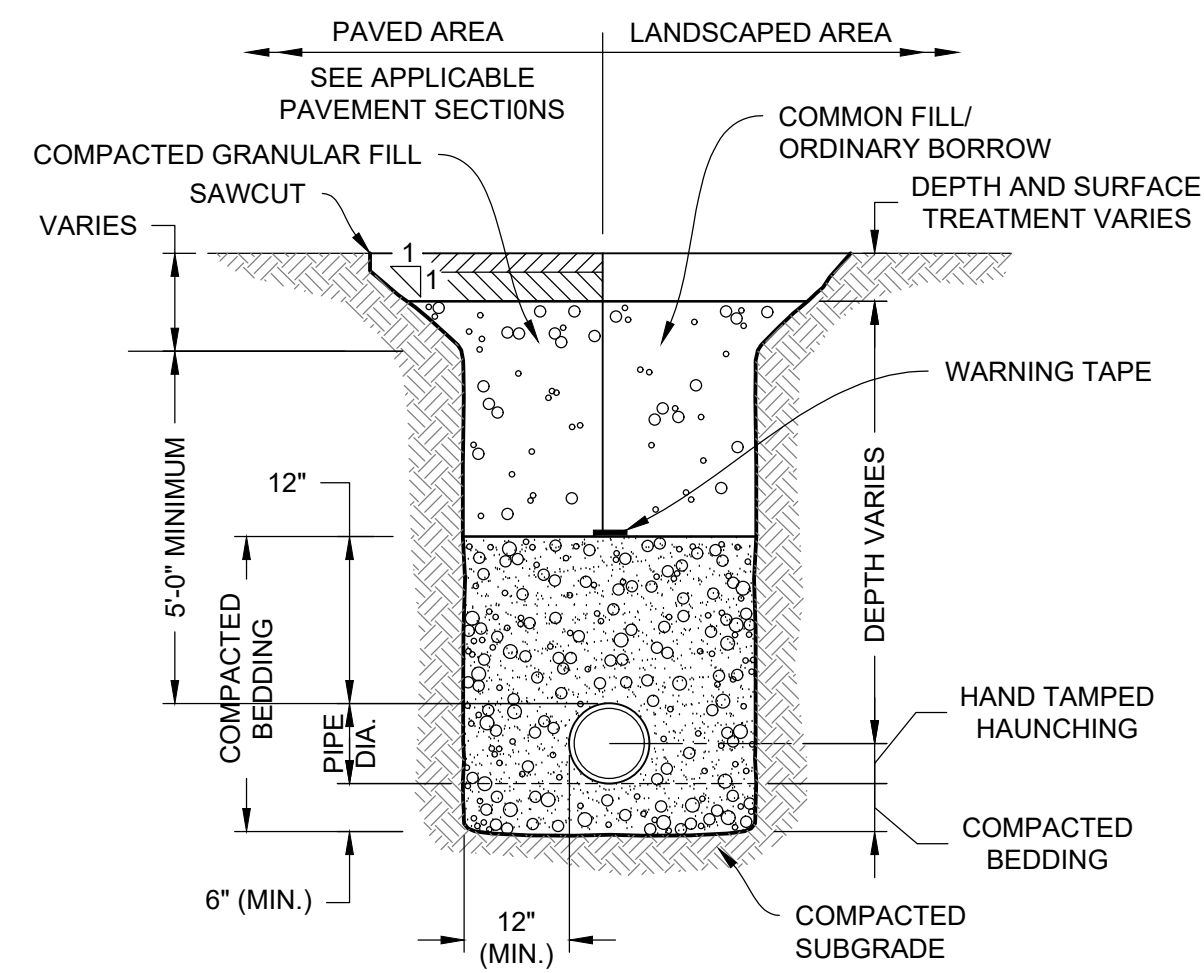
- TWELVE INCH (12") LINES SHALL BE APPLIED IN ONE APPLICATION, NO COMBINATION OF LINES (TWO - 6 INCH LINES) WILL BE ACCEPTED.
- LONGITUDINAL CROSSWALK LINES TO BE PARALLEL TO CURB LINE.
- ALL LONGITUDINAL CROSSWALK LINES TO BE THE SAME LENGTH AND PROPERLY ALIGNED.
- CROSS WALK SIDE SLOPE SHALL NOT EXCEED 1.5%.



8 SIGN POST DETAIL
NOT TO SCALE



NO.	DATE	REVISIONS	BY
1	2/21/25	PIER REVIEW COMMENTS	BCO
2	3/31/25	FINAL PEER REVIEW COMMENTS	BCO
3	5/27/25	TRAFFIC REVIEW	BCO

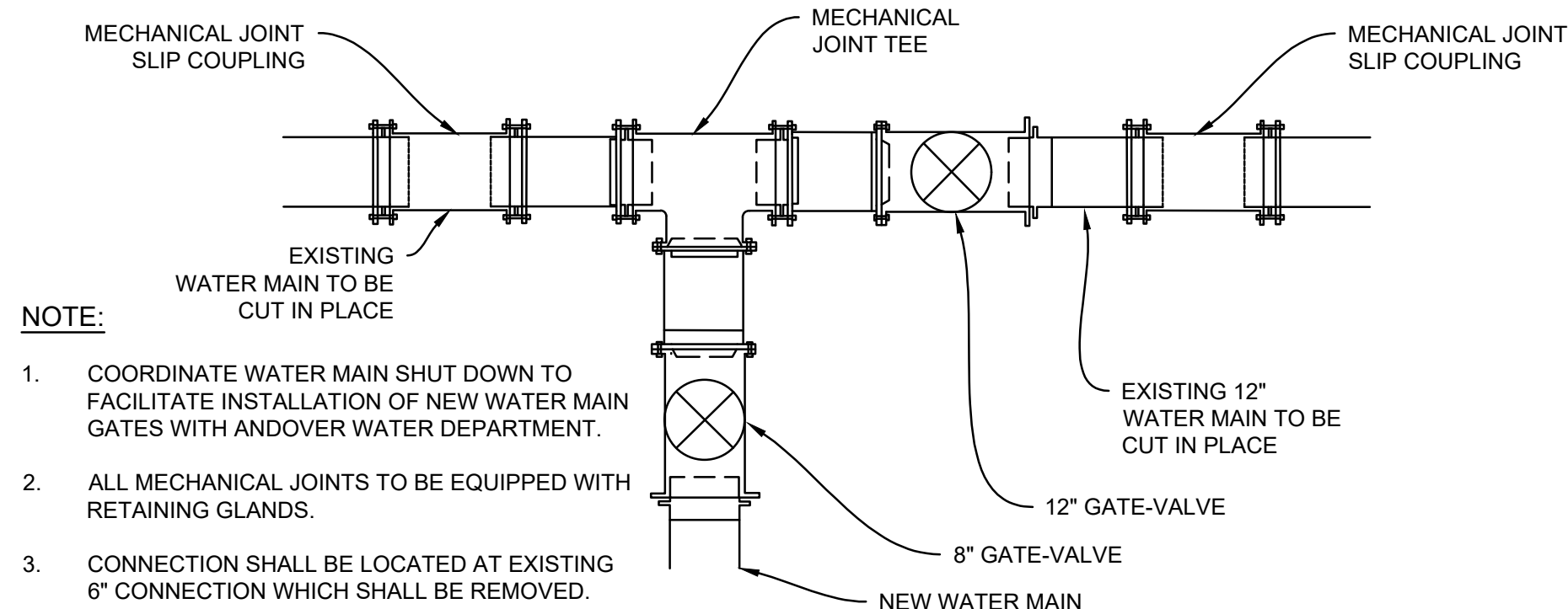


- NOTES:**
- WHERE UTILITY TRENCHES ARE CONSTRUCTED THROUGH DETENTION BASIN BERMS OR OTHER SUCH SPECIAL SECTIONS, PLACE TRENCH BACKFILL WITH MATERIALS SIMILAR TO THE SPECIAL SECTION REQUIREMENTS.
 - USE METALLIC TRACING/WARNING TAPE OVER ALL PIPES.

1 WATER TRENCH
NOT TO SCALE

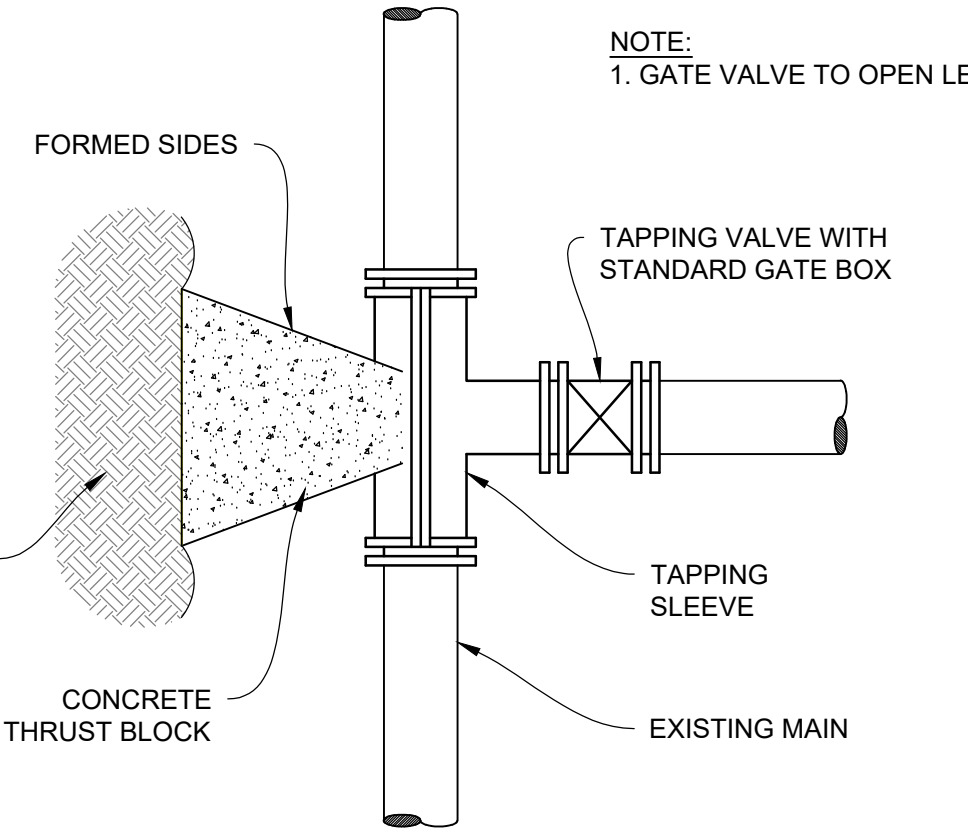
LIMITS OF RESTRAINED JOINTS	
FITTING	MIN. LINEAR FEET TO BE RESTRAINED
6"-1/4 BEND	21 (EACH SIDE OF FITTING)
6"-1/8 BEND	9 (EACH SIDE OF FITTING)
6"-1/16 BEND	4 (EACH SIDE OF FITTING)
6"-1/32 BEND	2 (EACH SIDE OF FITTING)
8"-1/4 BEND	27 (EACH SIDE OF FITTING)
8"-1/8 BEND	11 (EACH SIDE OF FITTING)
8"-1/16 BEND	6 (EACH SIDE OF FITTING)
8"-1/32 BEND	3 (EACH SIDE OF FITTING)
8"x6" REDUCER	32 (EACH SIDE OF FITTING)
8"x6" TEE	54 (ALONG BRANCH)
8"x8" TEE	27 (ALONG BRANCH)
12"-1/4 BEND	38 (EACH SIDE OF FITTING)
12"-1/8 BEND	16 (EACH SIDE OF FITTING)
12"-1/16 BEND	8 (EACH SIDE OF FITTING)
12"-1/32 BEND	4 (EACH SIDE OF FITTING)
12"x6" REDUCER	75 (EACH SIDE OF FITTING)
12"x8" REDUCER	62 (EACH SIDE OF FITTING)
12"x12" TEE	96 (ALONG BRANCH)
12"x6" TEE	52 (ALONG BRANCH)
12"x8" TEE	72 (ALONG BRANCH)
HYDRANT	ENTIRE BRANCH RESTRAINED

2 RESTRAINED JOINT DUCTILE IRON PIPE FITTINGS
NOT TO SCALE

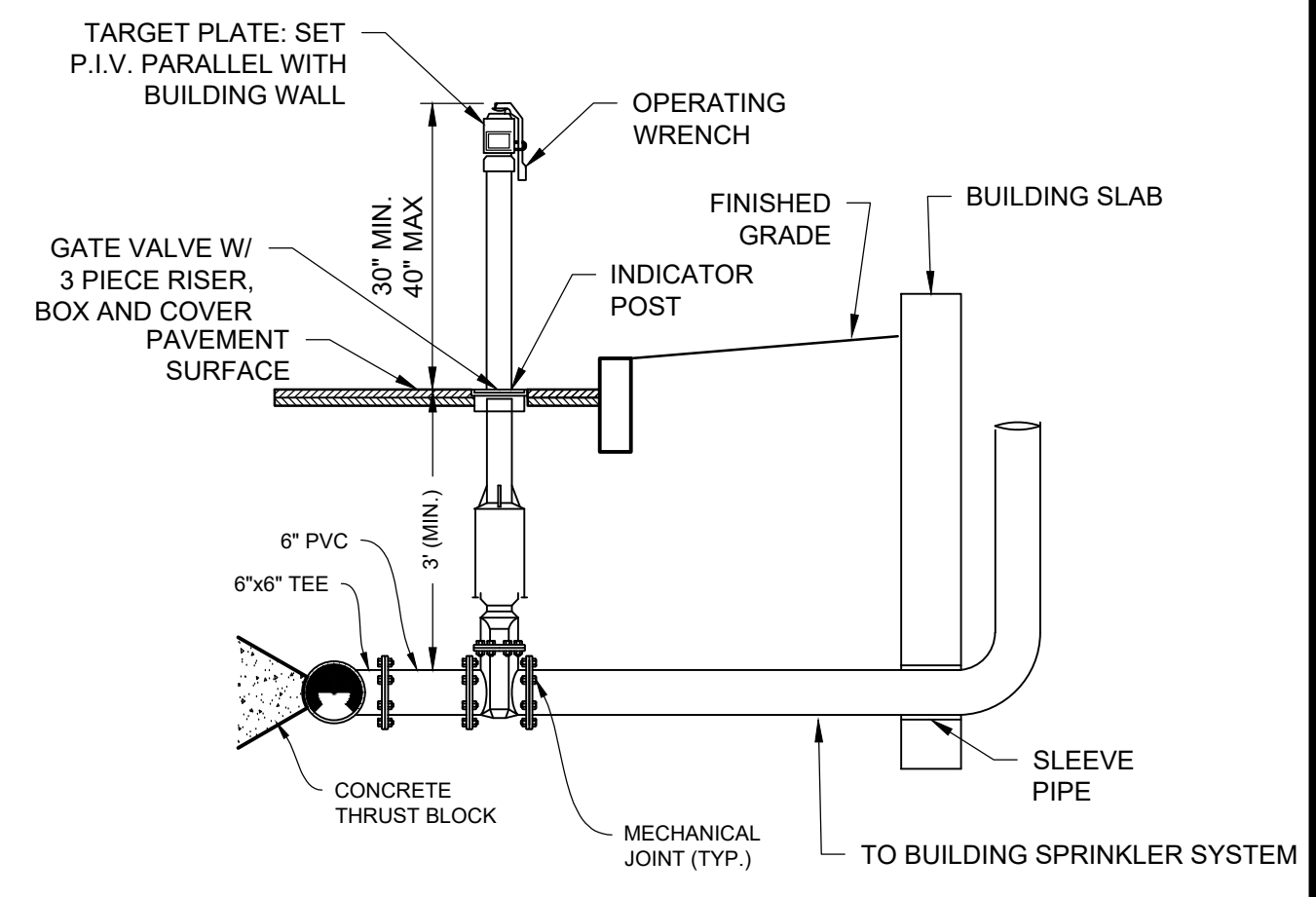


- NOTE:**
- COORDINATE WATER MAIN SHUT DOWN TO FACILITATE INSTALLATION OF NEW WATER MAIN GATES WITH ANDOVER WATER DEPARTMENT.
 - ALL MECHANICAL JOINTS TO BE EQUIPPED WITH RETAINING GLANDS.
 - CONNECTION SHALL BE LOCATED AT EXISTING 6" CONNECTION WHICH SHALL BE REMOVED.

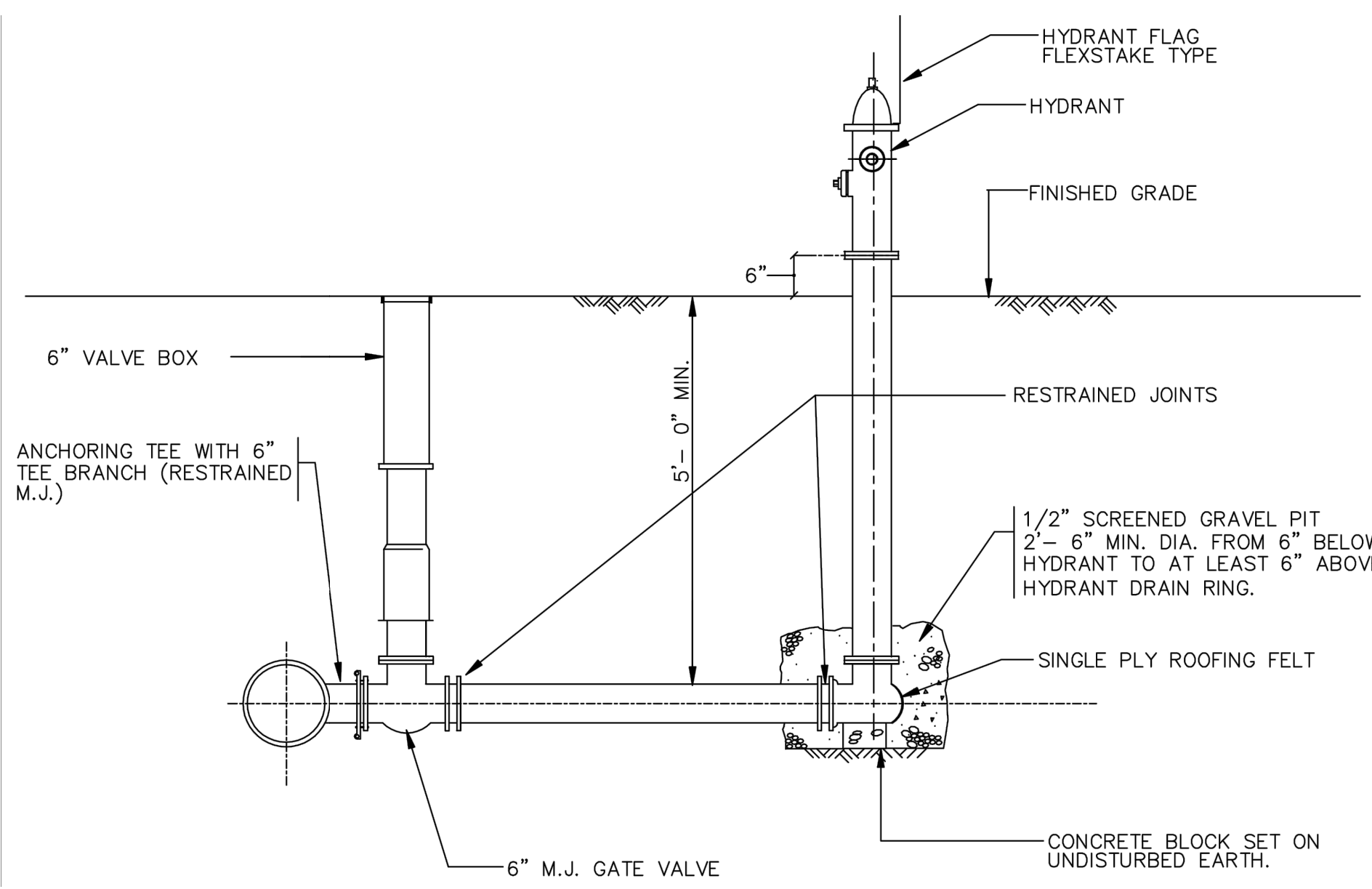
3 WATER MAIN CONNECTION HAVERHILL STREET
NOT TO SCALE



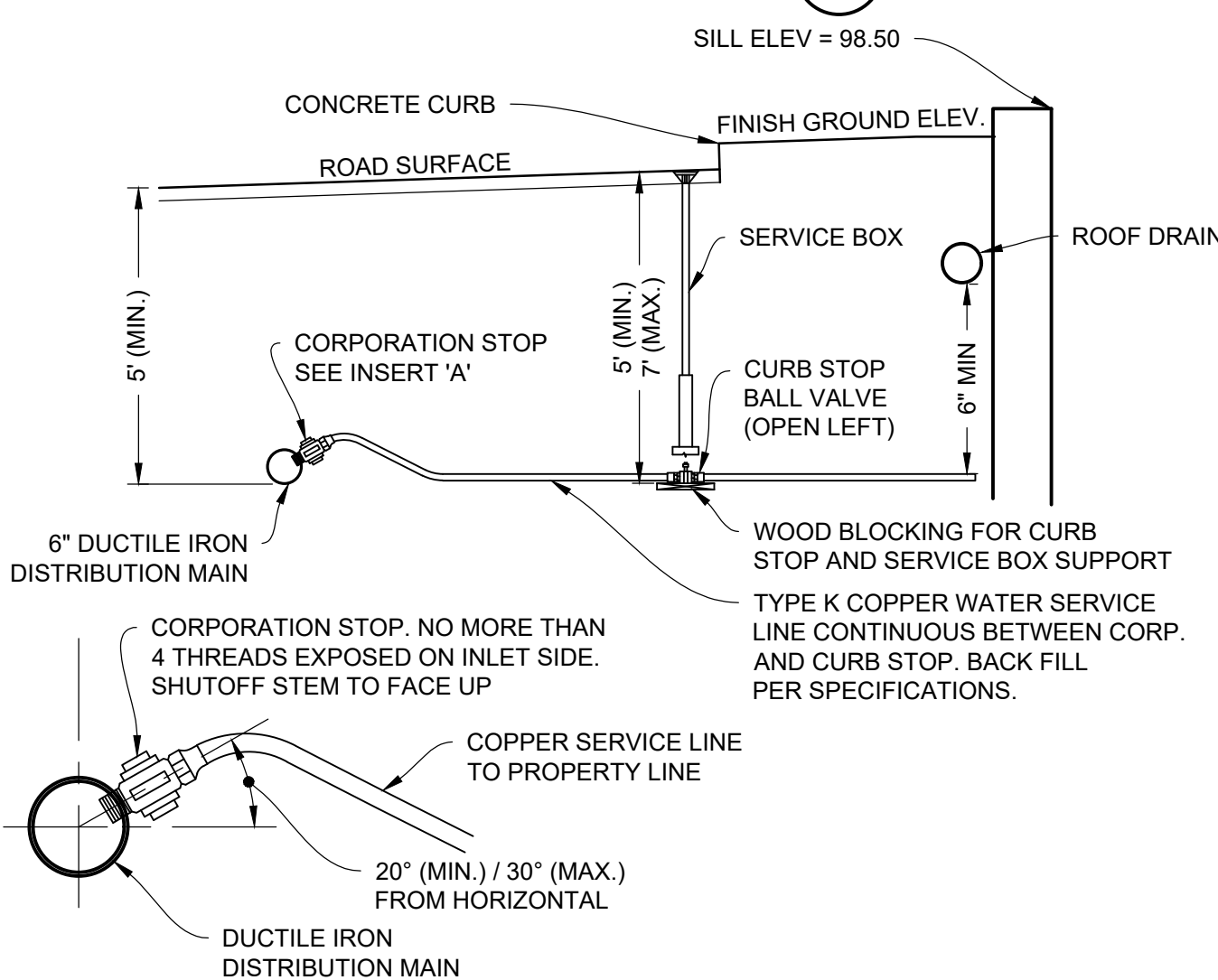
4 TAPPING SLEEVE & VALVE CONNECTION
NOT TO SCALE



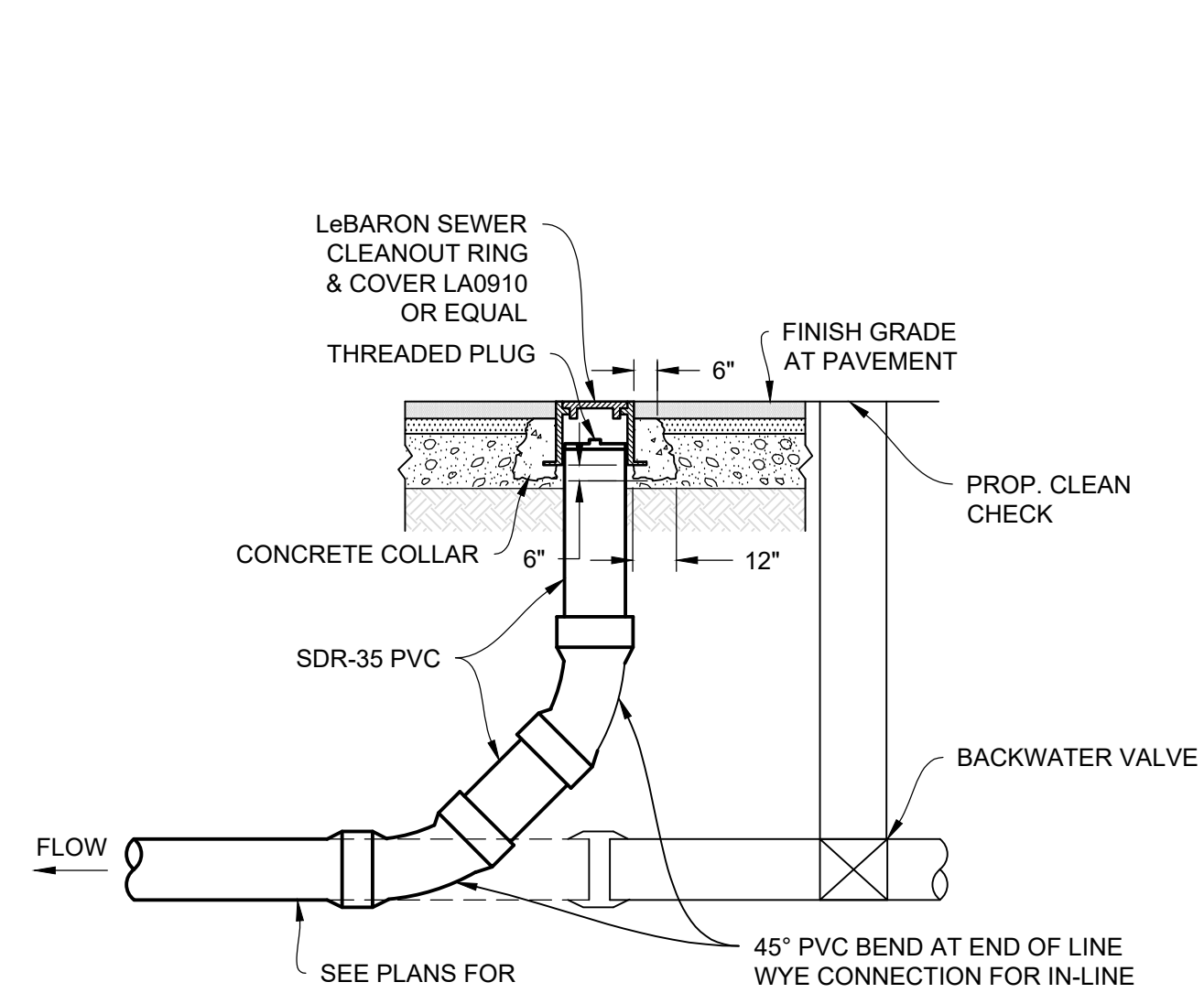
5 SPRINKLER CONNECTION DETAIL
NOT TO SCALE



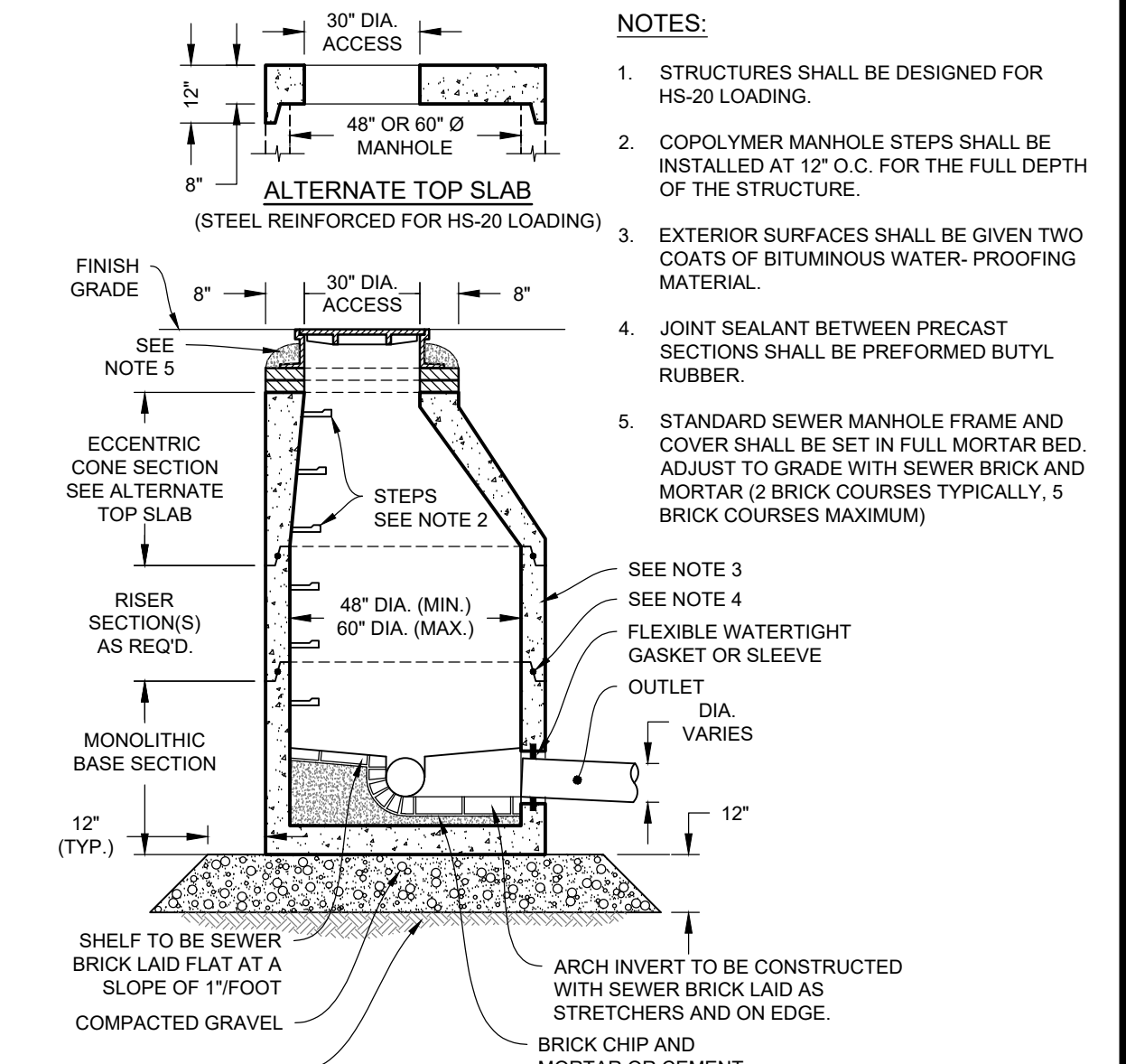
6 HYDRANT
NOT TO SCALE



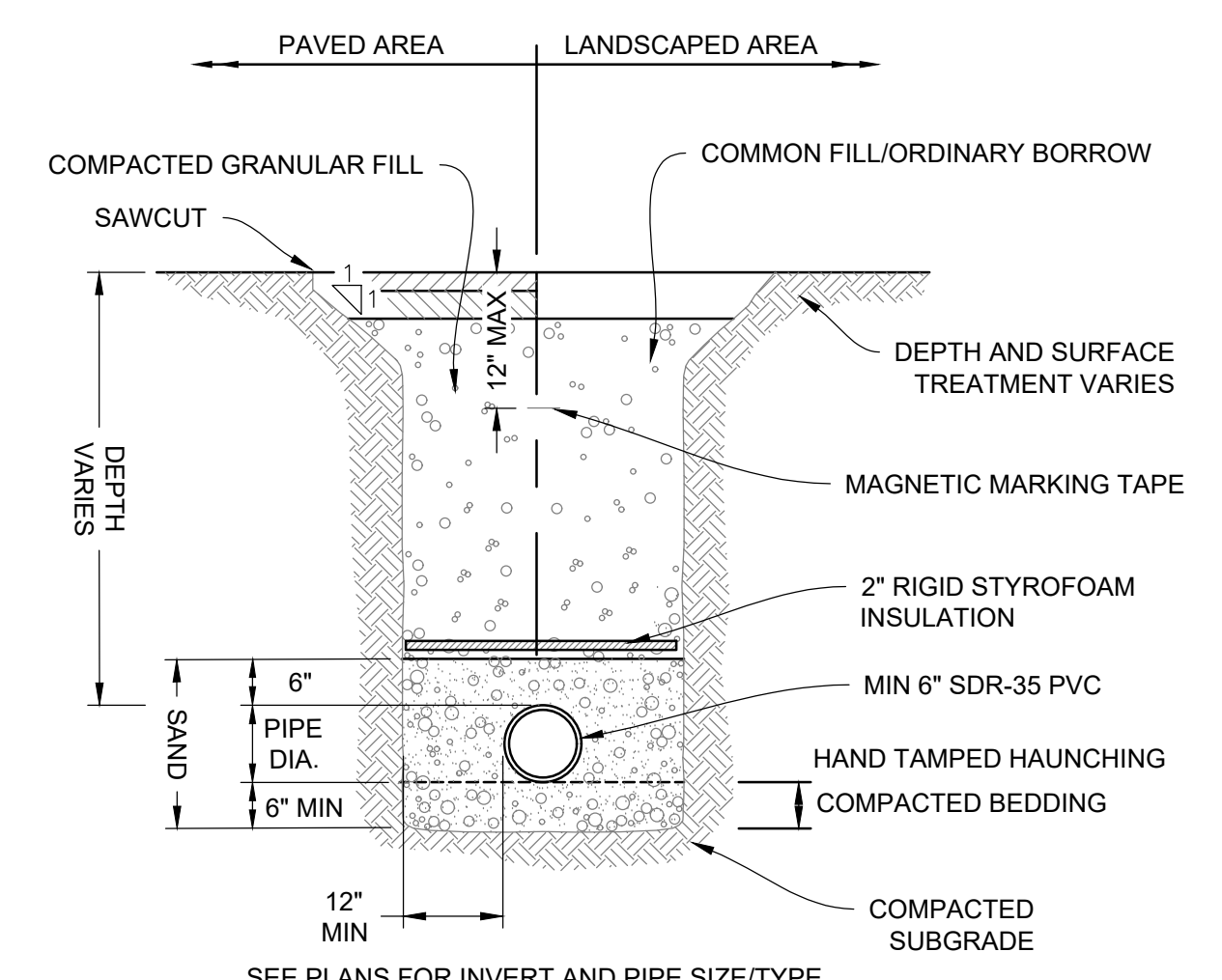
7 WATER SERVICE INSTALLATION
NOT TO SCALE



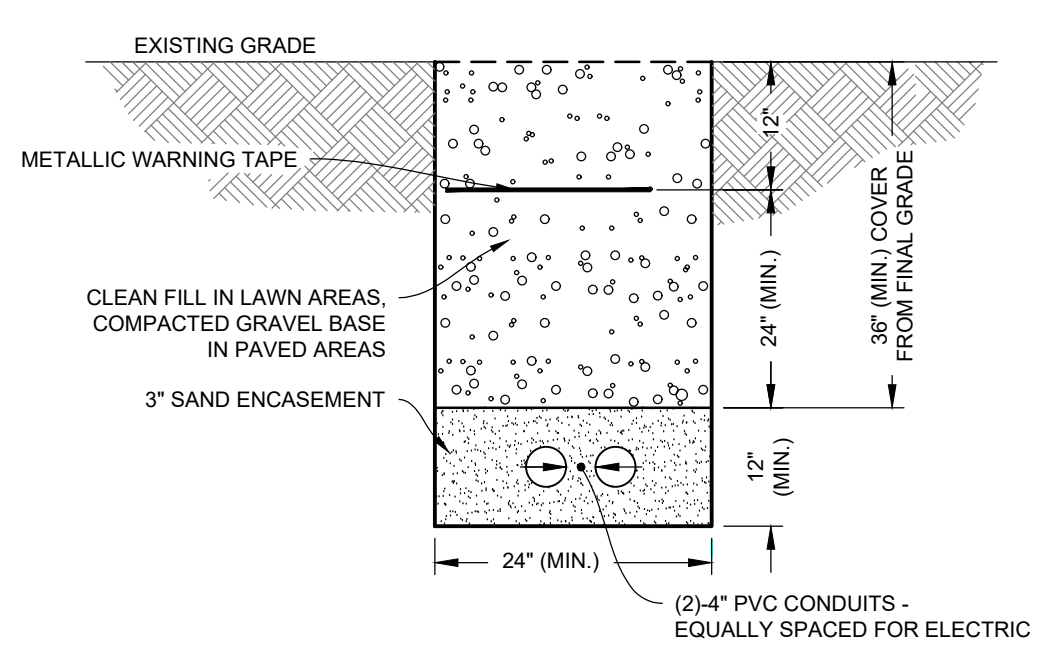
8 SEWER CLEANOUT - PAVED AREA
NOT TO SCALE



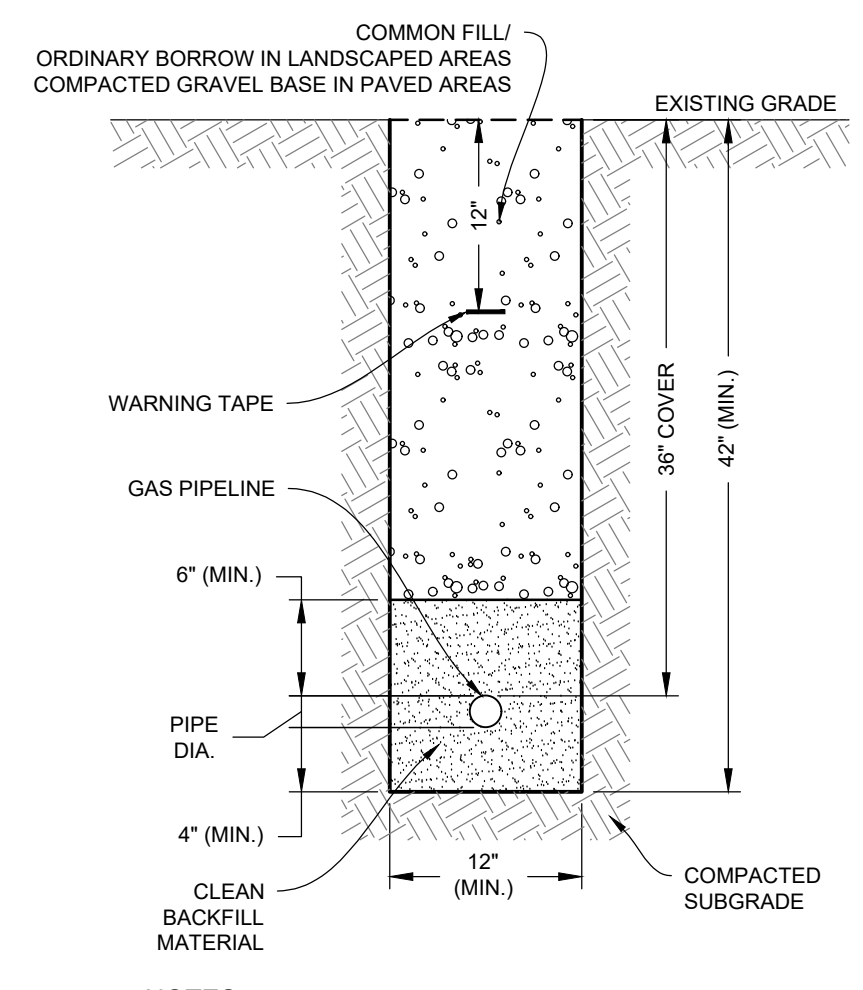
9 SANITARY SEWER MANHOLE (SMH)
NOT TO SCALE



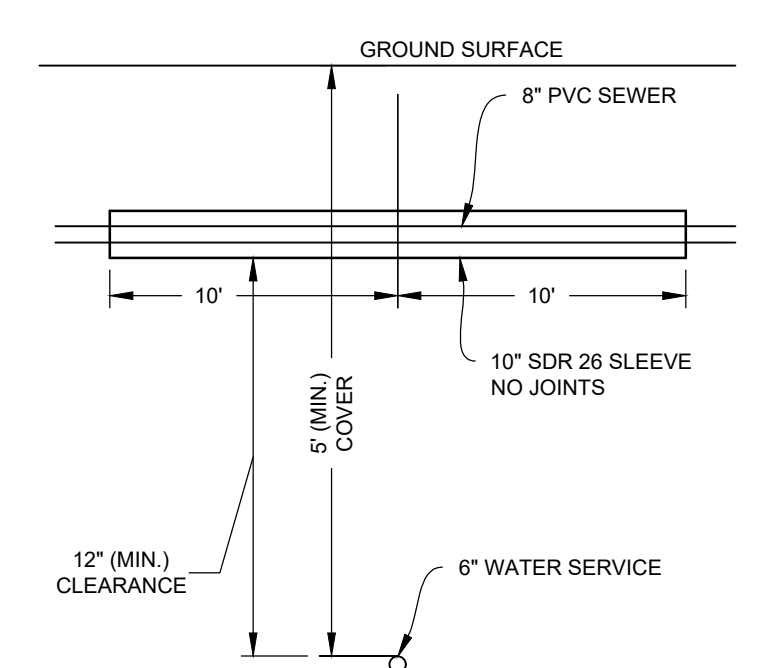
10 SEWER MAIN TRENCH
NOT TO SCALE



11 ELECTRIC/ TELECOMMUNICATION DUCT BANK
NOT TO SCALE



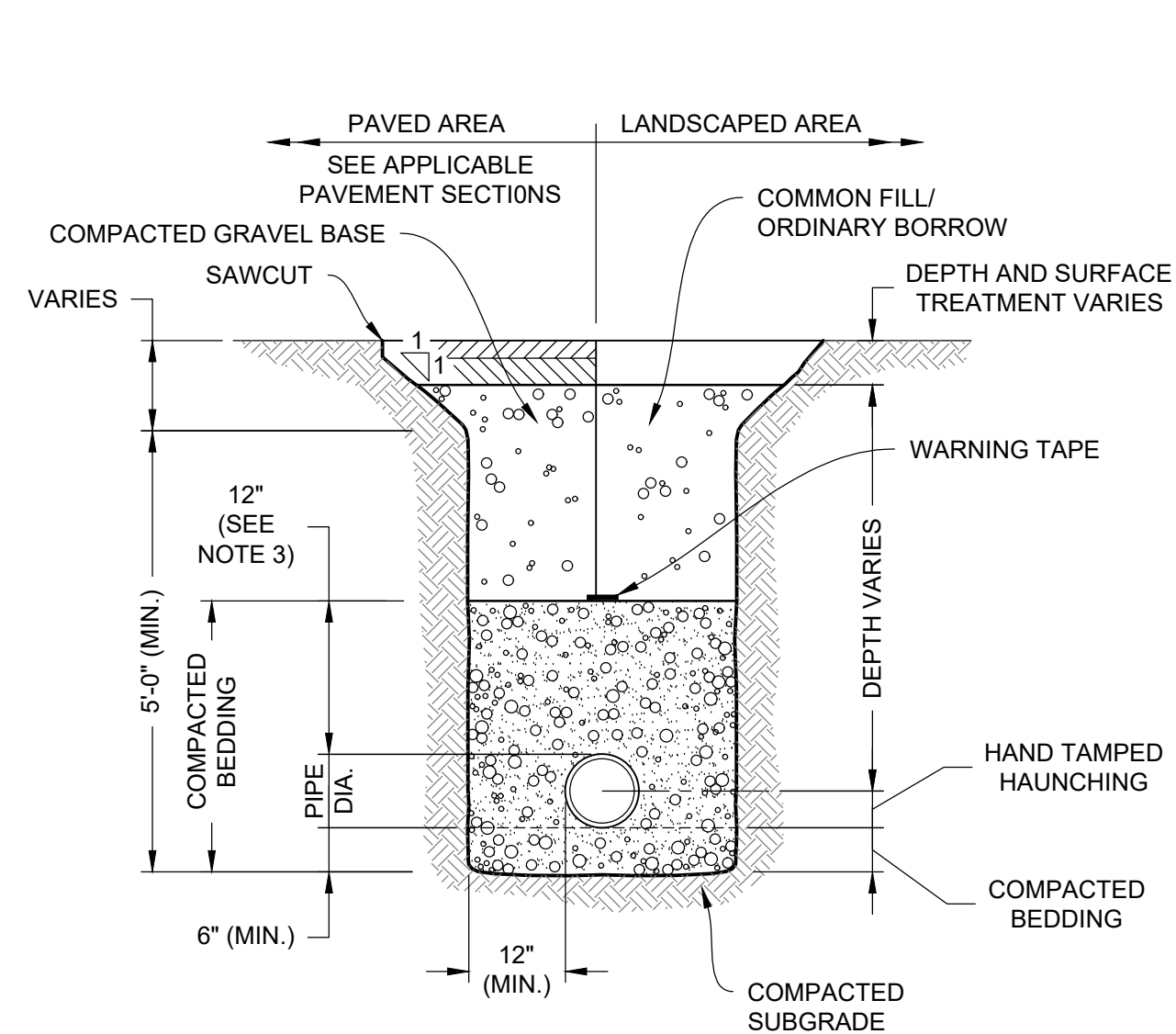
12 GAS LINE TRENCH
NOT TO SCALE



13 SEWER/WATER LINE CROSSING DETAIL
NOT TO SCALE

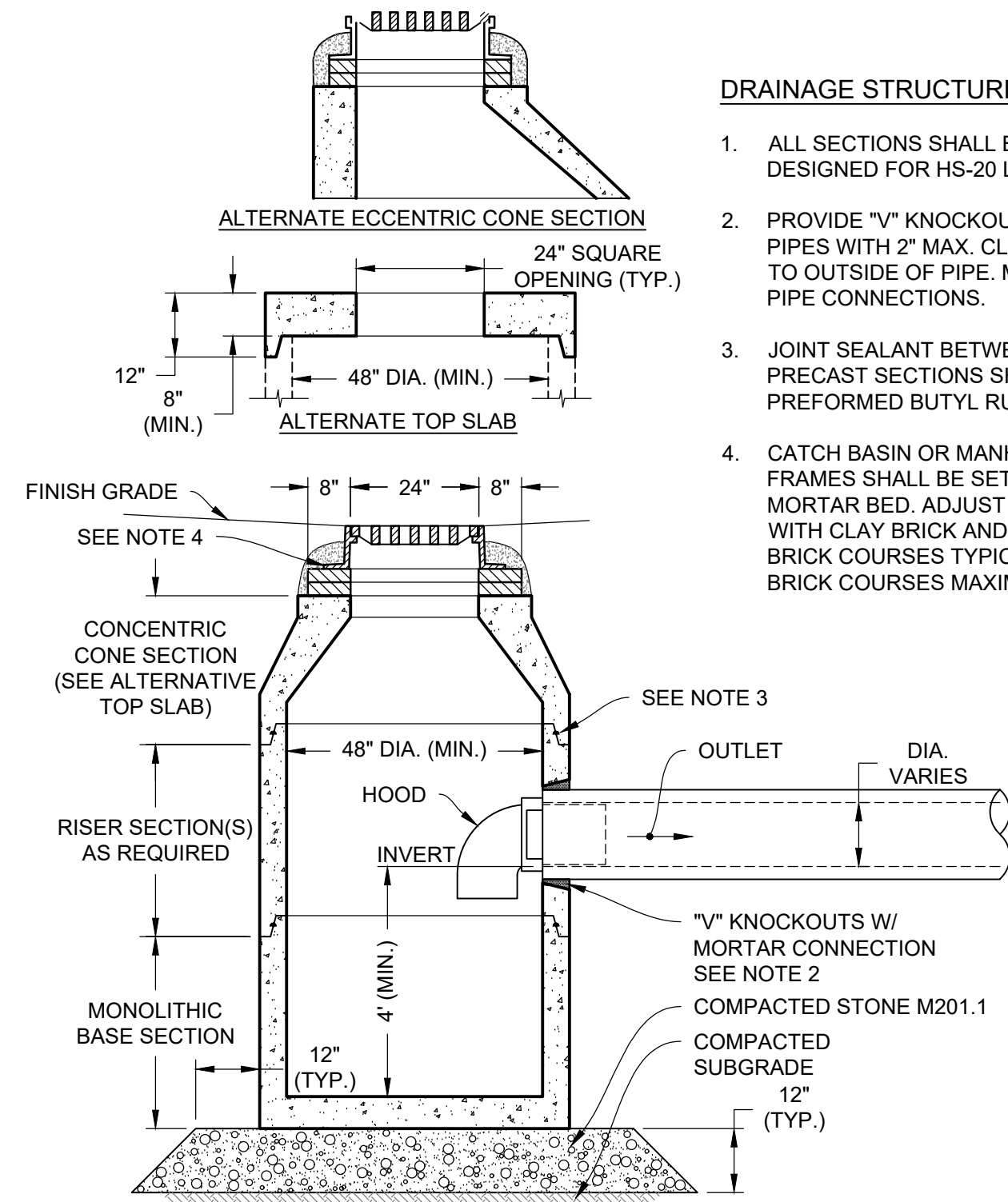


NO.	DATE	REVISIONS	BY
3	5/27/25	TRAFFIC REVIEW	BCO
2	3/31/25	FINAL PEER REVIEW COMMENTS	BCO
1	2/21/25	PEER REVIEW COMMENTS	BCO



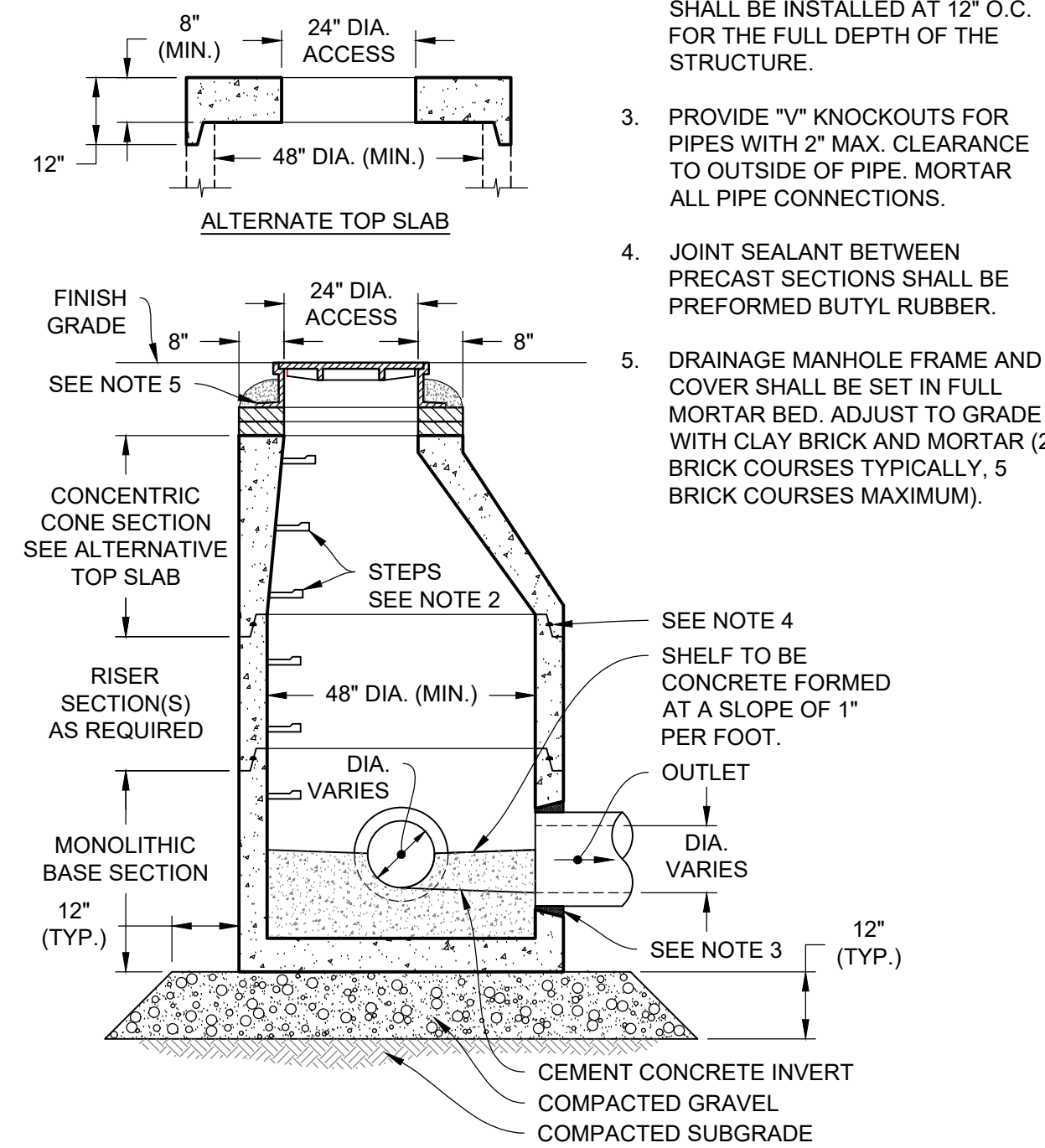
- NOTES:**
- WHERE UTILITY TRENCHES ARE CONSTRUCTED THROUGH DETENTION BASIN BERMS OR OTHER SUCH SPECIAL SECTIONS, PLACE TRENCH BACKFILL WITH MATERIALS SIMILAR TO THE SPECIAL SECTION REQUIREMENTS.
 - USE METALLIC TRACING/WARNING TAPE OVER ALL PIPES.
 - FOR HDPE PIPE, DIMENSION IS 24 INCHES.

1 DRAINAGE TRENCH
NOT TO SCALE



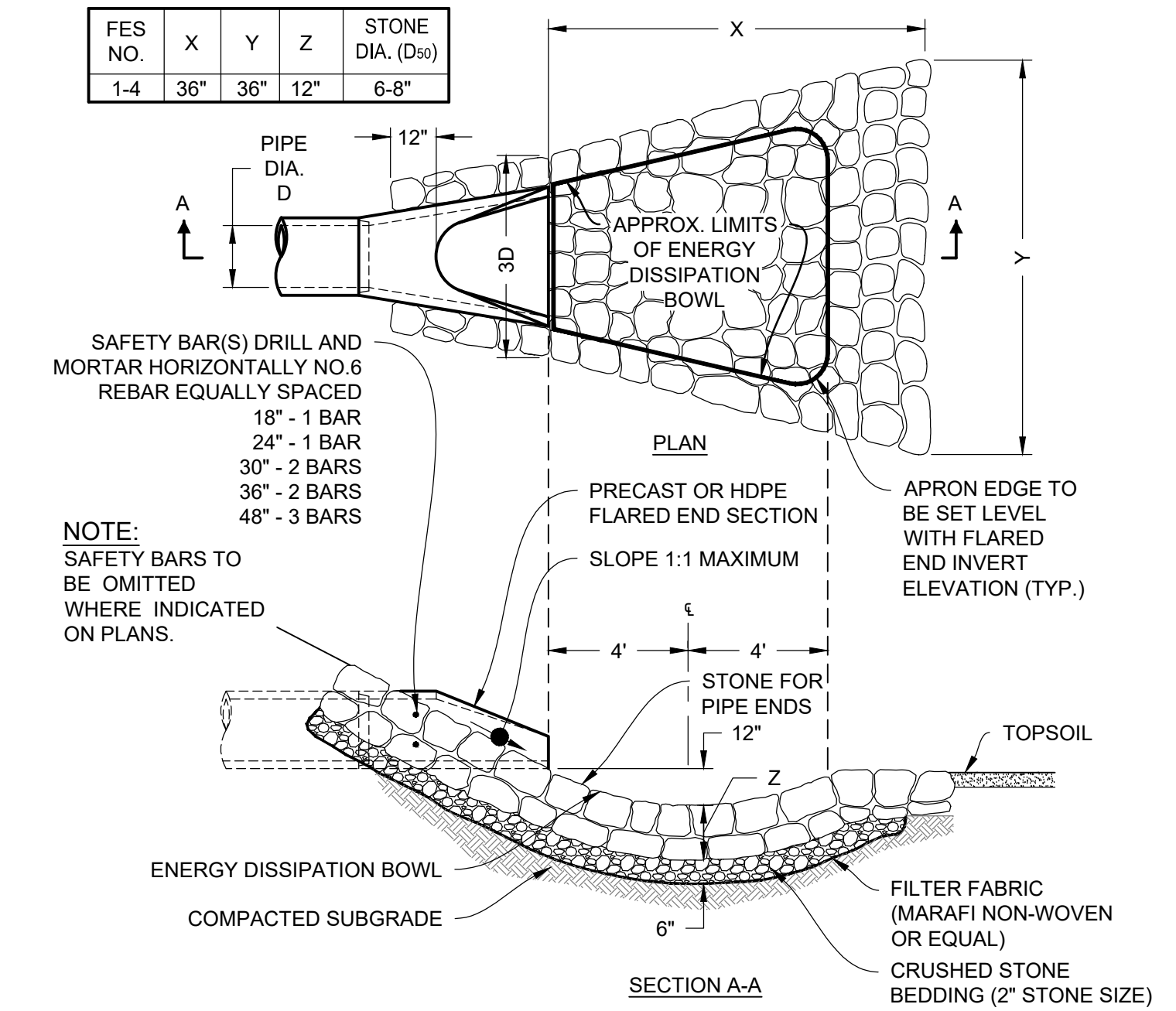
- DRAINAGE STRUCTURE NOTES:**
- ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
 - PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
 - JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
 - CATCH BASIN OR MANHOLE FULL FRAMES SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM).

2 CATCH BASIN (CB) WITH HOOD
NOT TO SCALE

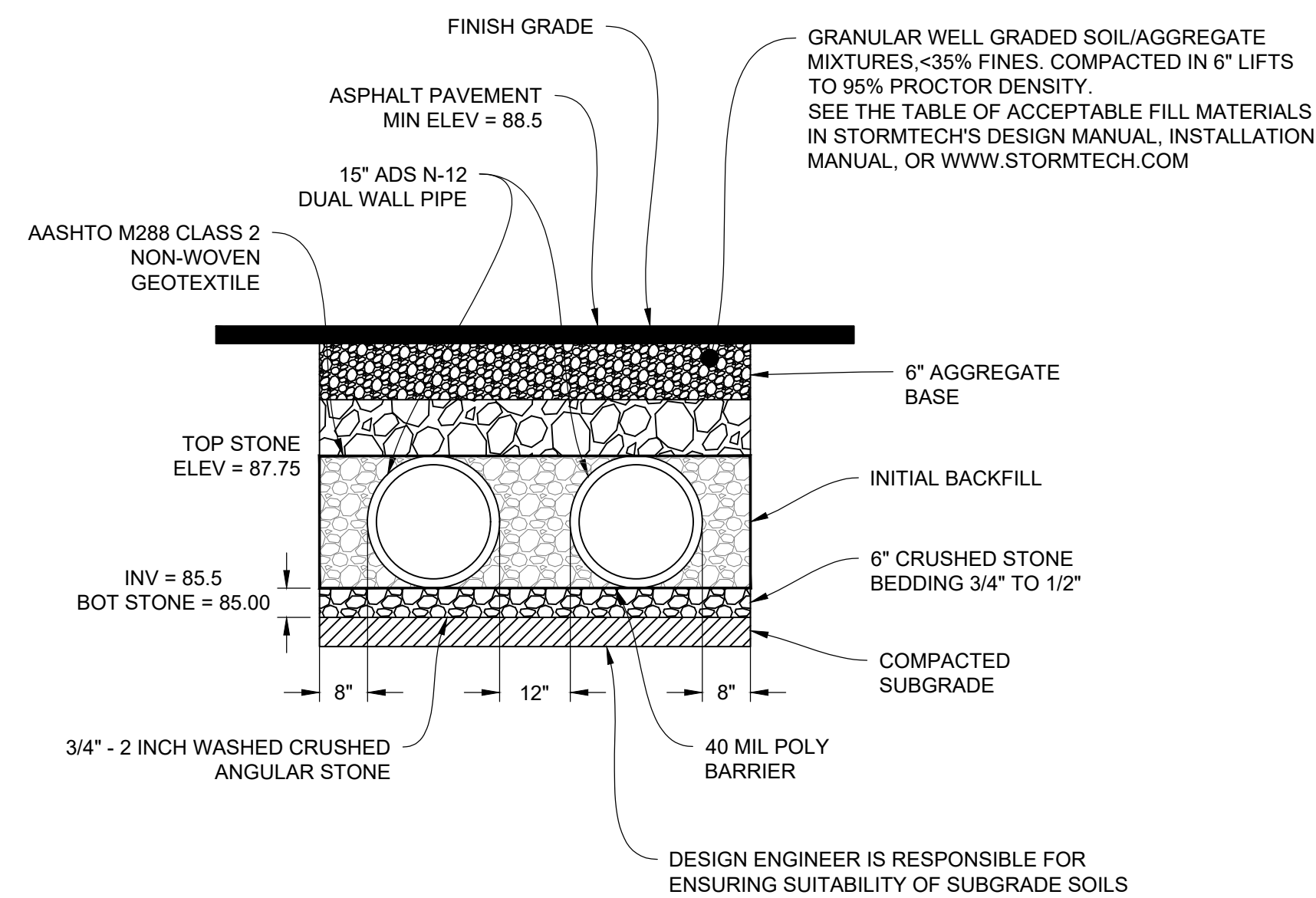


- NOTES:**
- ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
 - COPOLYMER MANHOLE STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.
 - PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
 - JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
 - DRAINAGE MANHOLE FRAME AND COVER SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM).

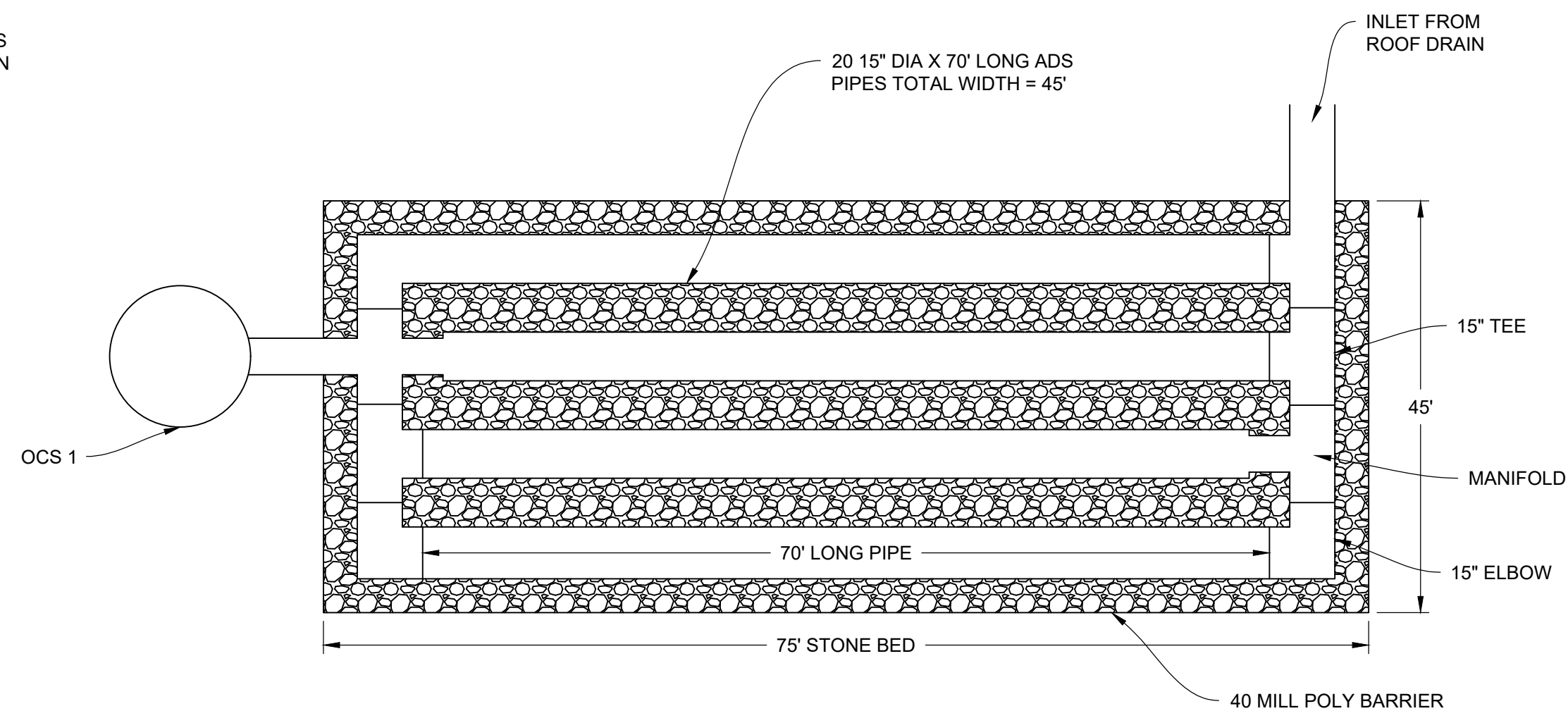
3 DRAINAGE MANHOLE (DMH)
NOT TO SCALE



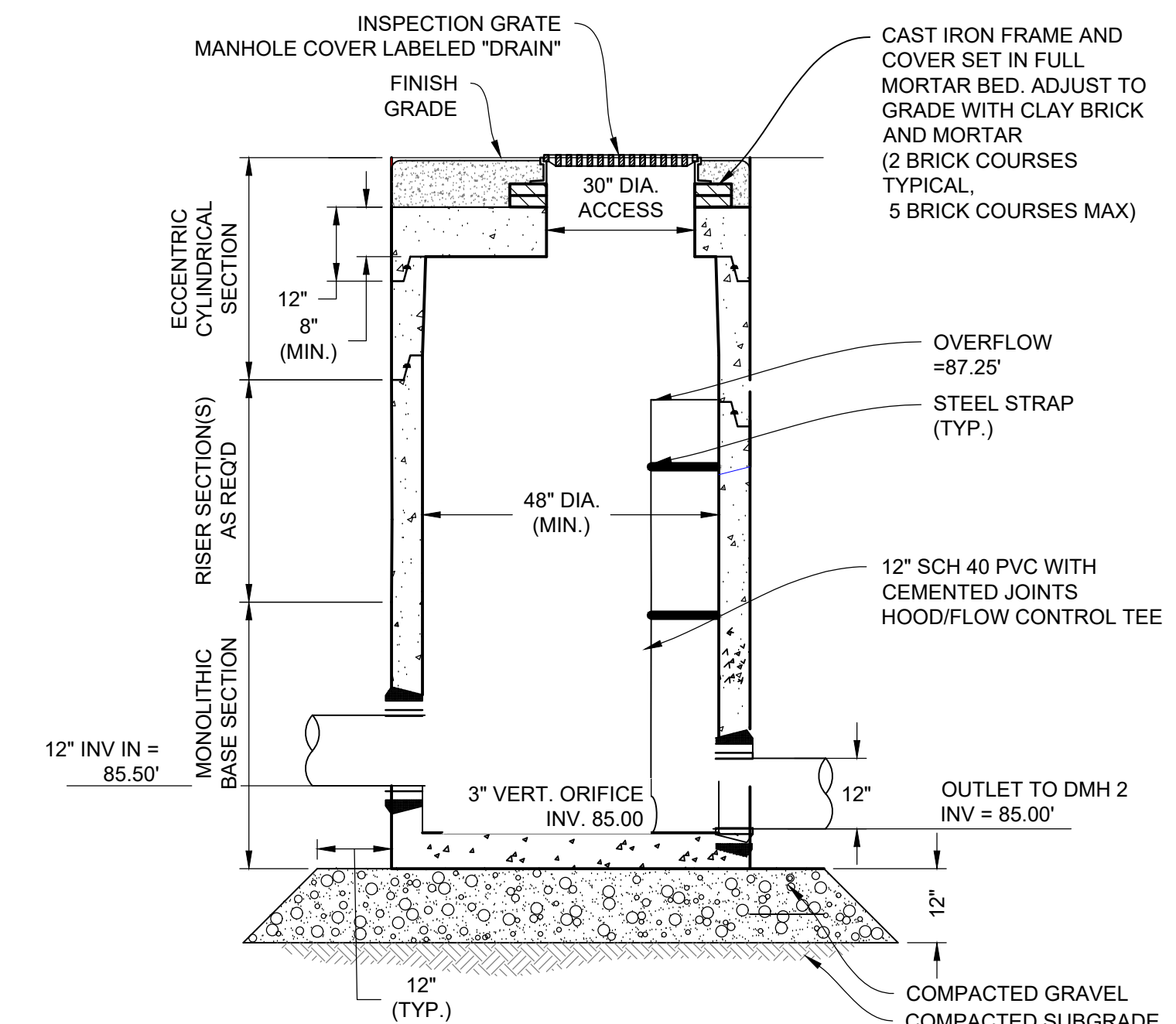
4 FLARED END SECTION (FES) WITH STONE PROTECTION
NOT TO SCALE



8 STORMTECH SC-310 CHAMBER SYSTEM - POND 3P
NOT TO SCALE



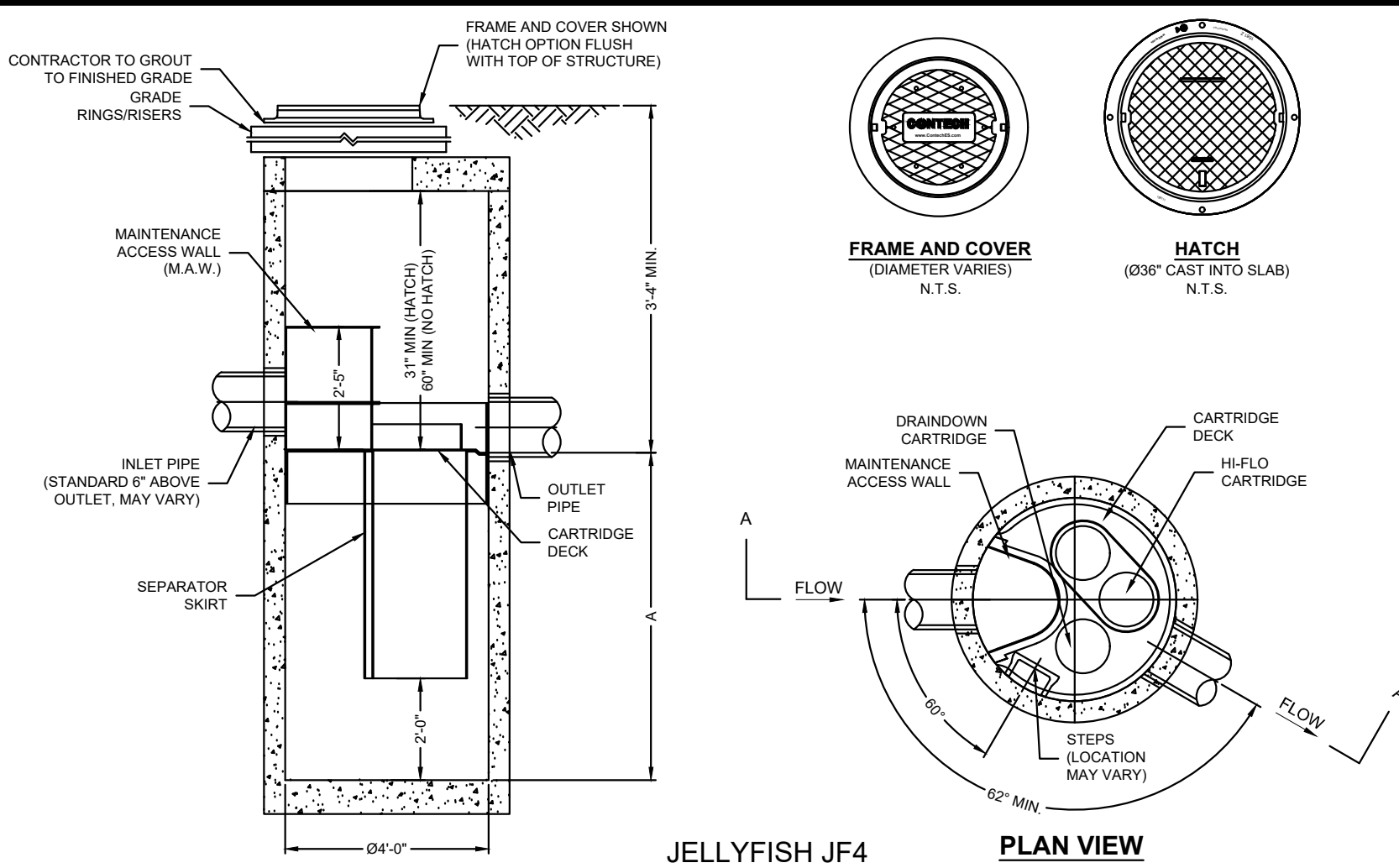
6 STORMTECH SC-310 CHAMBER DETAIL (PLAN VIEW) - POND 3P
NOT TO SCALE



7 OCS 1 - POND P1
NOT TO SCALE



NO.	DATE	REVISIONS	BY
3	5/27/25	TRAFFIC REVIEW	BCO
2	3/31/25	FINAL PEER REVIEW COMMENTS	BCO
1	2/21/25	PEER REVIEW COMMENTS	BCO



JELLYFISH JF4
STANDARD DETAIL
OFFLINE CONFIGURATION

JELLYFISH DESIGN NOTES

JELLYFISH TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. THE STANDARD MANHOLE STYLE IS SHOWN. Ø48" MANHOLE JELLYFISH PEAK TREATMENT CAPACITY IS 0.45 CFS. IF THE SITE CONDITIONS EXCEED 0.45 CFS AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

CARTRIDGE SELECTION

CARTRIDGE DEPTH	54"	40"	27"	15"
OUTLET INVERT TO STRUCTURE INVERT (A)	6'-5"	5'-3"	4'-2"	3'-2"
FLOW RATE HIGH-FLO / DRAINDOWN (cfs) (per cart)	0.18 / 0.09	0.13 / 0.065	0.09 / 0.045	0.05 / 0.025
MAX. CARTS HIGH-FLO / DRAINDOWN	2 / 1			

- GENERAL NOTES:**
- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
 - FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS REPRESENTATIVE. www.ContechES.com
 - JELLYFISH WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
 - STRUCTURE SHALL MEET AASHTO HS-20 OR PER APPROVING JURISDICTION REQUIREMENTS, WHICHEVER IS MORE STRINGENT, ASSUMING EARTH COVER OF 0' - 3', AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 LOAD RATING AND BE CAST WITH THE CONTECH LOGO.
 - STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.
 - NO PRODUCT SUBSTITUTIONS SHALL BE ACCEPTED UNLESS SUBMITTED 10 DAYS PRIOR TO PROJECT BID DATE, OR AS DIRECTED BY THE ENGINEER OF RECORD.
- INSTALLATION NOTES:**
- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
 - CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE (LIFTING CLUTCHES PROVIDED)
 - CONTRACTOR WILL INSTALL AND LEVEL THE STRUCTURE, SEALING THE JOINTS, LINE ENTRY AND EXIT POINTS (NON-SHRINK GROUT WITH APPROVED WATERSTOP OR FLEXIBLE BOOT)
 - CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.
 - CARTRIDGE INSTALLATION, BY CONTECH, SHALL OCCUR ONLY AFTER SITE HAS BEEN STABILIZED AND THE JELLYFISH UNIT IS CLEAN AND FREE OF DEBRIS. CONTACT CONTECH TO COORDINATE CARTRIDGE INSTALLATION WITH SITE STABILIZATION AT (866) 740-3318.

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	ID
WATER QUALITY FLOW RATE (cfs)	WQFLOW
PEAK FLOW RATE (cfs)	PEAK
RETURN PERIOD OF PEAK FLOW (yrs)	RETURN
# OF CARTRIDGES REQUIRED (HF / DD)	CART
CARTRIDGE SIZE	SIZE
PIPE DATA:	I.E. MATERIAL DIAMETER
INLET PIPE #1	99.90 HDPE 12"
OUTLET PIPE	99.65 RCP 12"
RIM ELEVATION	103.5
ANTI-FLOTATION BALLAST	WIDTH HEIGHT
	WIDTH HEIGHT
NOTES/SPECIAL REQUIREMENTS:	
* PER ENGINEER OF RECORD	

SITE SPECIFIC DATA REQUIREMENTS

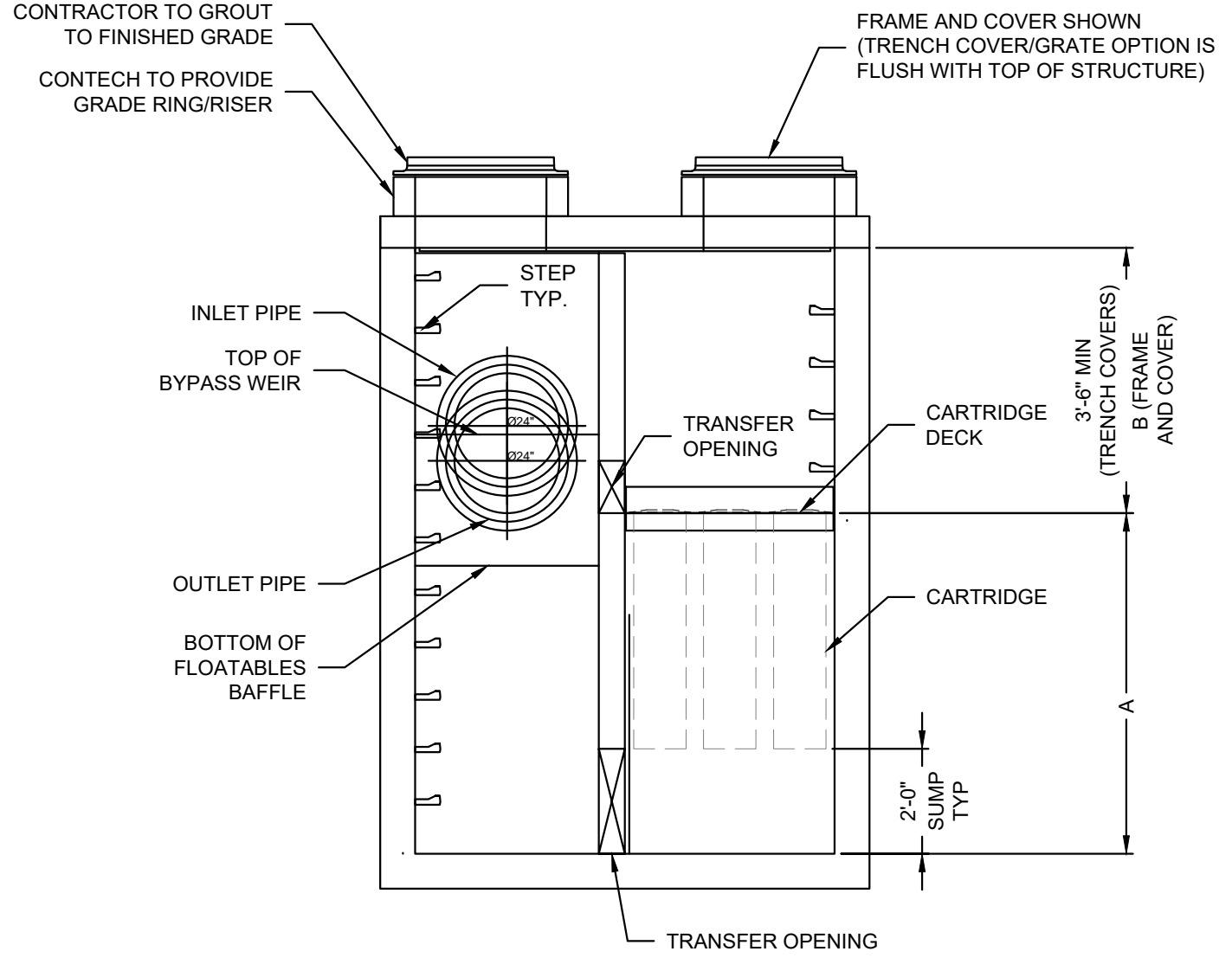
STRUCTURE ID	ID
WATER QUALITY FLOW RATE (cfs)	WQFLOW
PEAK FLOW RATE (cfs)	PEAK
RETURN PERIOD OF PEAK FLOW (yrs)	RETURN
# OF CARTRIDGES REQUIRED (HF / DD)	CART
CARTRIDGE LENGTH	SIZE
PIPE DATA:	I.E. MATTL DIA SLOPE % HGL
INLET #1	82.55 HDPE 18" 0.5% HGL
OUTLET	82.22 HDPE 18" 0.5% HGL
RIM ELEVATION	86.25
ANTI-FLOTATION BALLAST	WIDTH HEIGHT
	WIDTH HEIGHT
NOTES/SPECIAL REQUIREMENTS:	
* PER ENGINEER OF RECORD	

JELLYFISH DESIGN NOTES

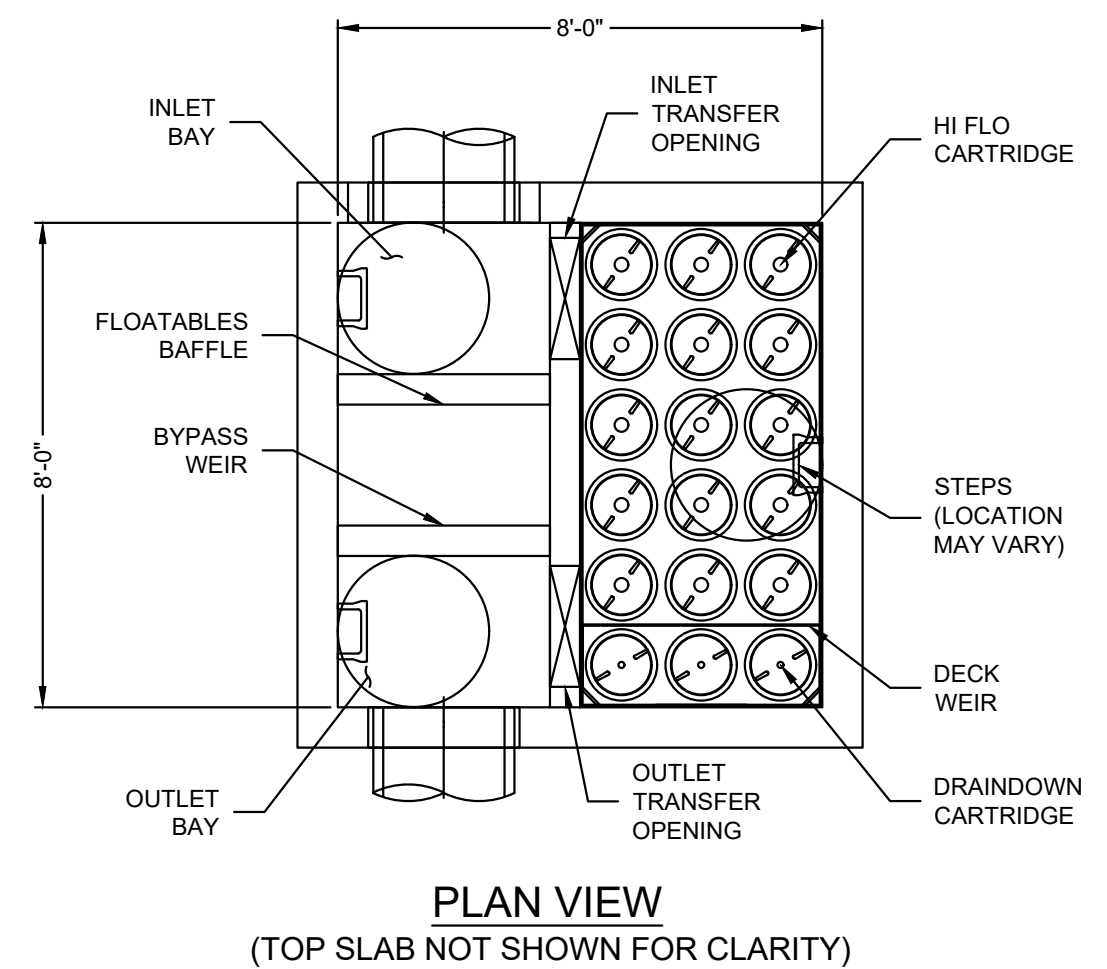
JELLYFISH TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE LENGTH AND THE NUMBER OF CARTRIDGES. THE STANDARD PEAK DIVERSION STYLE WITH PRECAST TOP SLAB IS SHOWN. ALTERNATE OFFLINE VAULT AND/OR SHALLOW ORIENTATIONS ARE AVAILABLE. PEAK CONVEYANCE CAPACITY TO BE DETERMINED BY ENGINEER OF RECORD

CARTRIDGE SELECTION

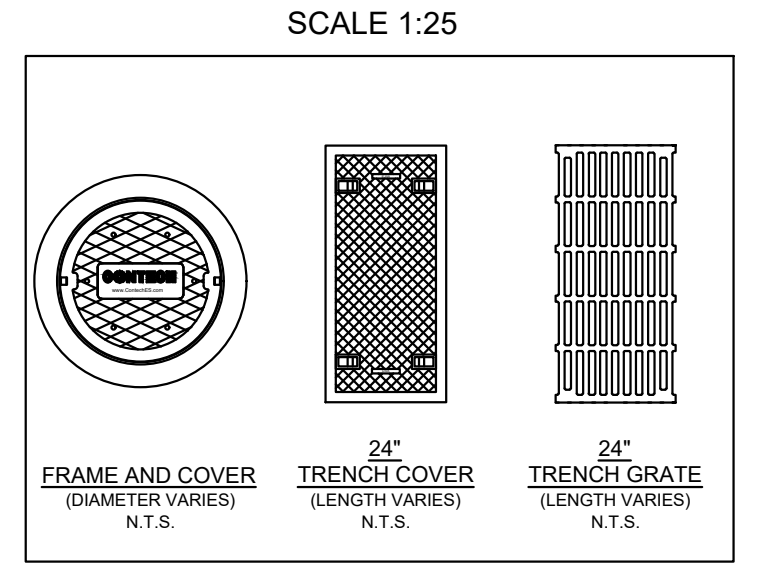
CARTRIDGE LENGTH	54"	40"	27"	15"
OUTLET INVERT TO STRUCTURE INVERT (A)	6'-6"	5'-4"	4'-3"	3'-3"
FLOW RATE HI-FLO / DRAINDOWN (CFS) (PER CART)	0.178 / 0.089	0.133 / 0.067	0.089 / 0.045	0.049 / 0.025
MAX. TREATMENT (CFS)	2.94	2.21	1.47	0.81
DECK TO INSIDE TOP (MIN) (B)	5.00	4.00	4.00	4.00



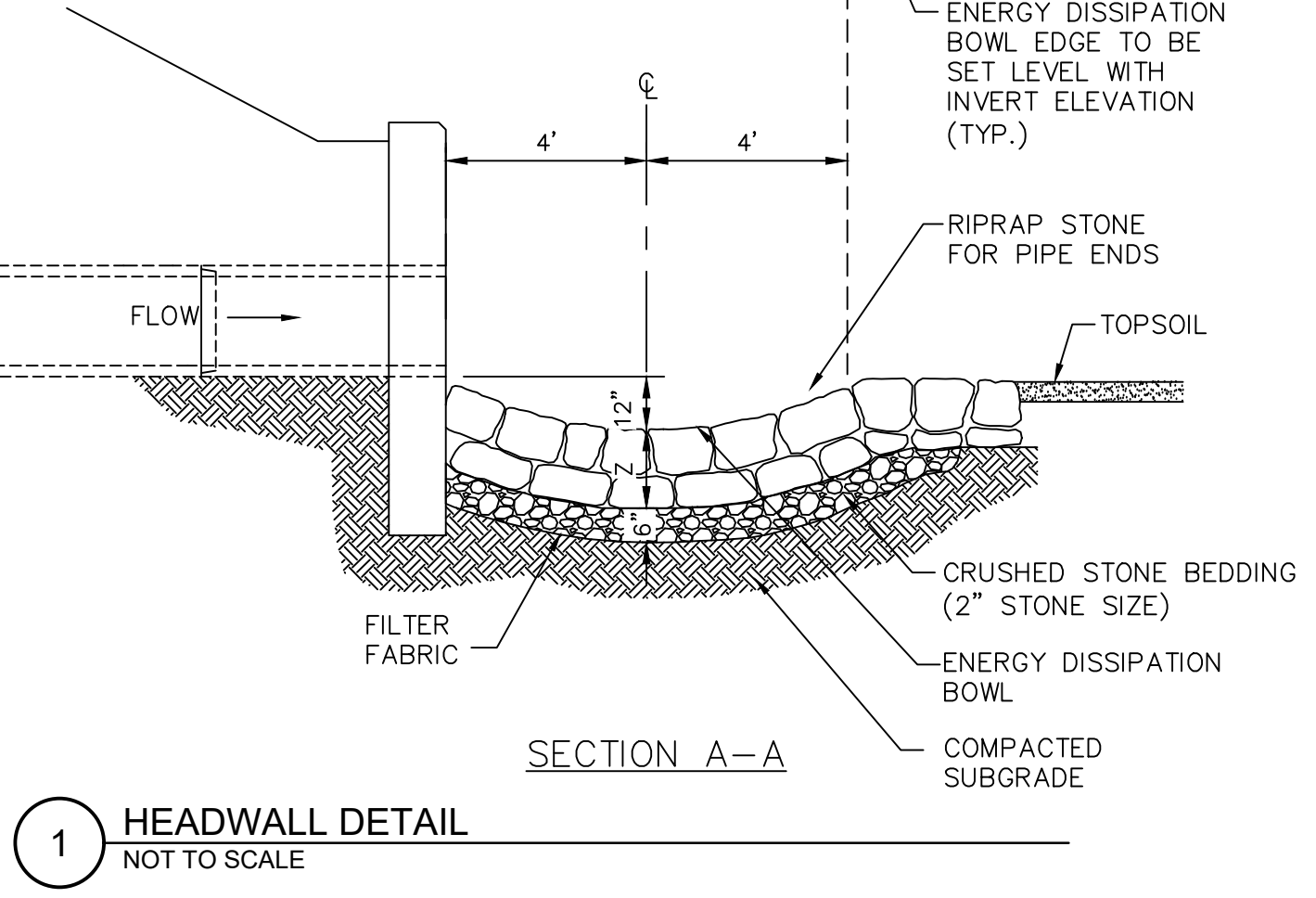
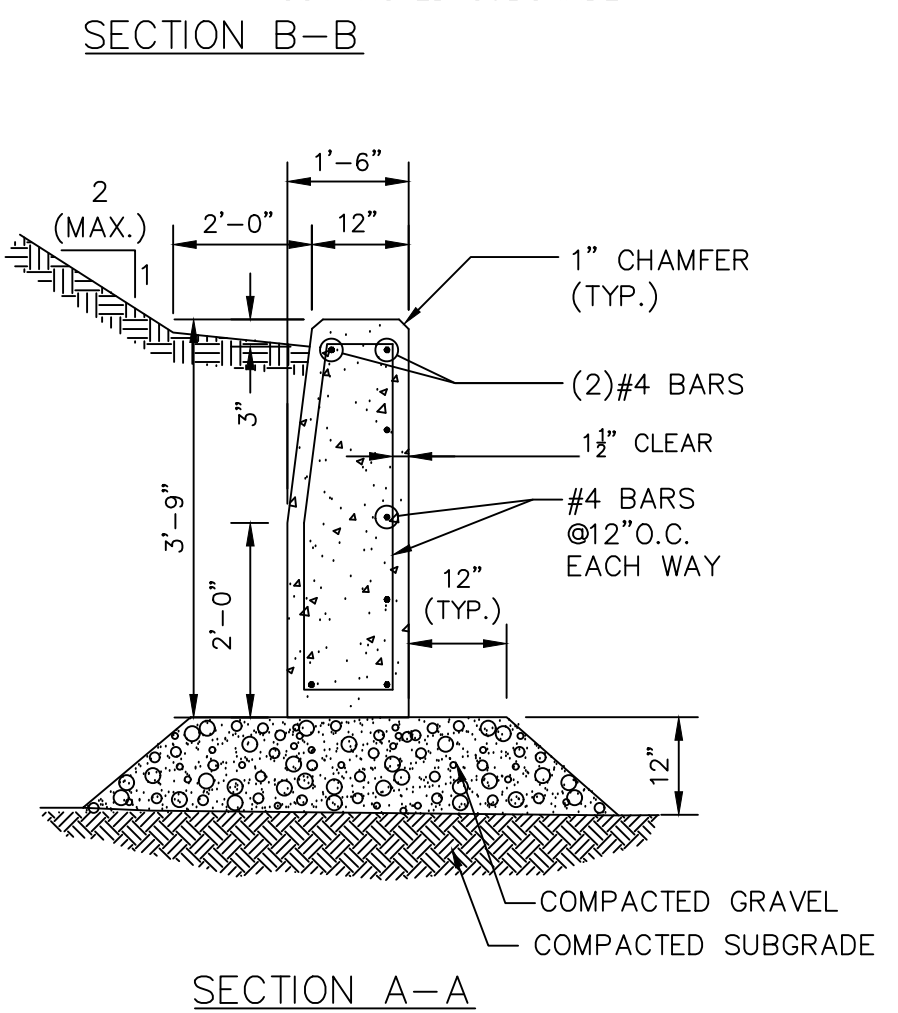
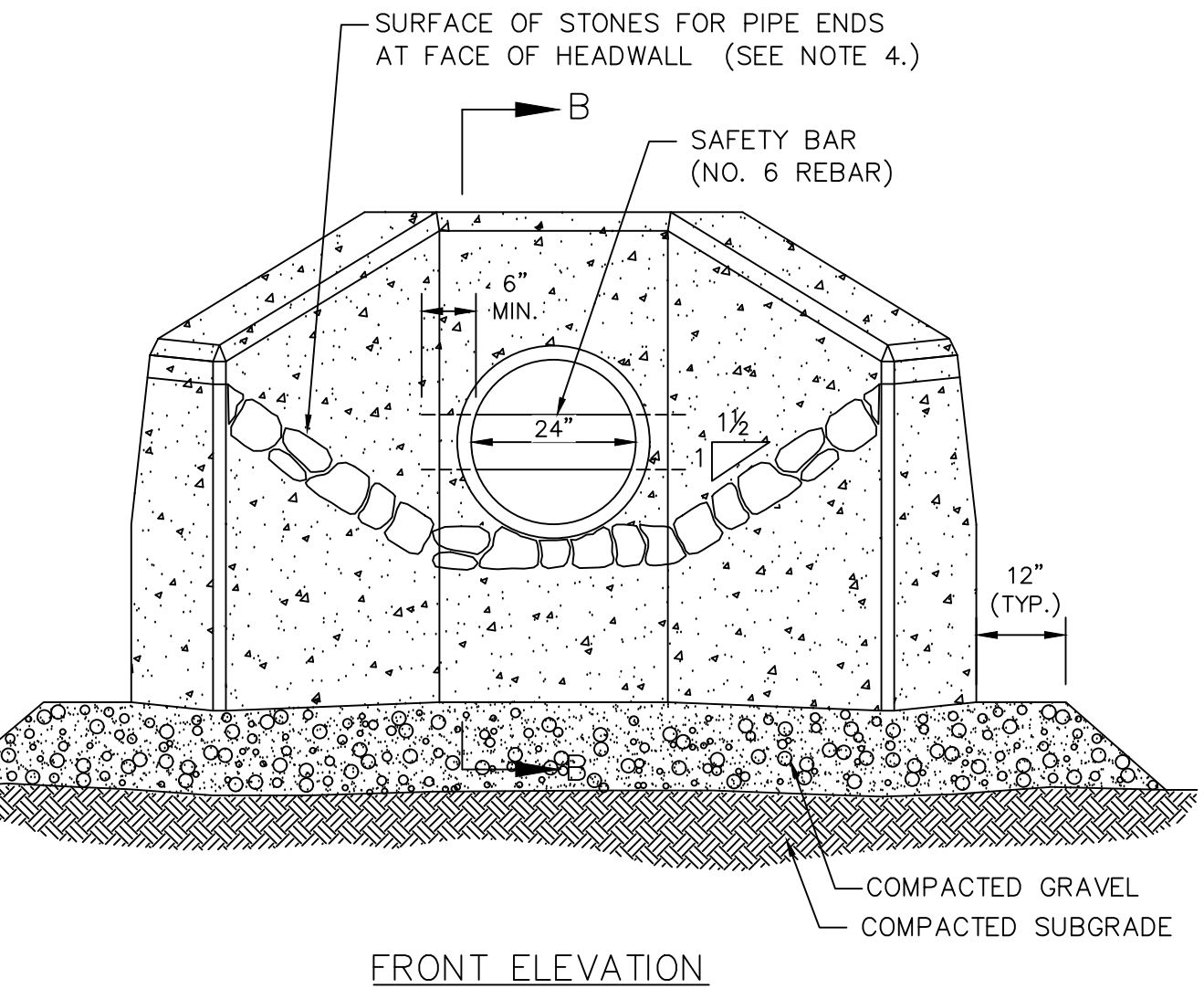
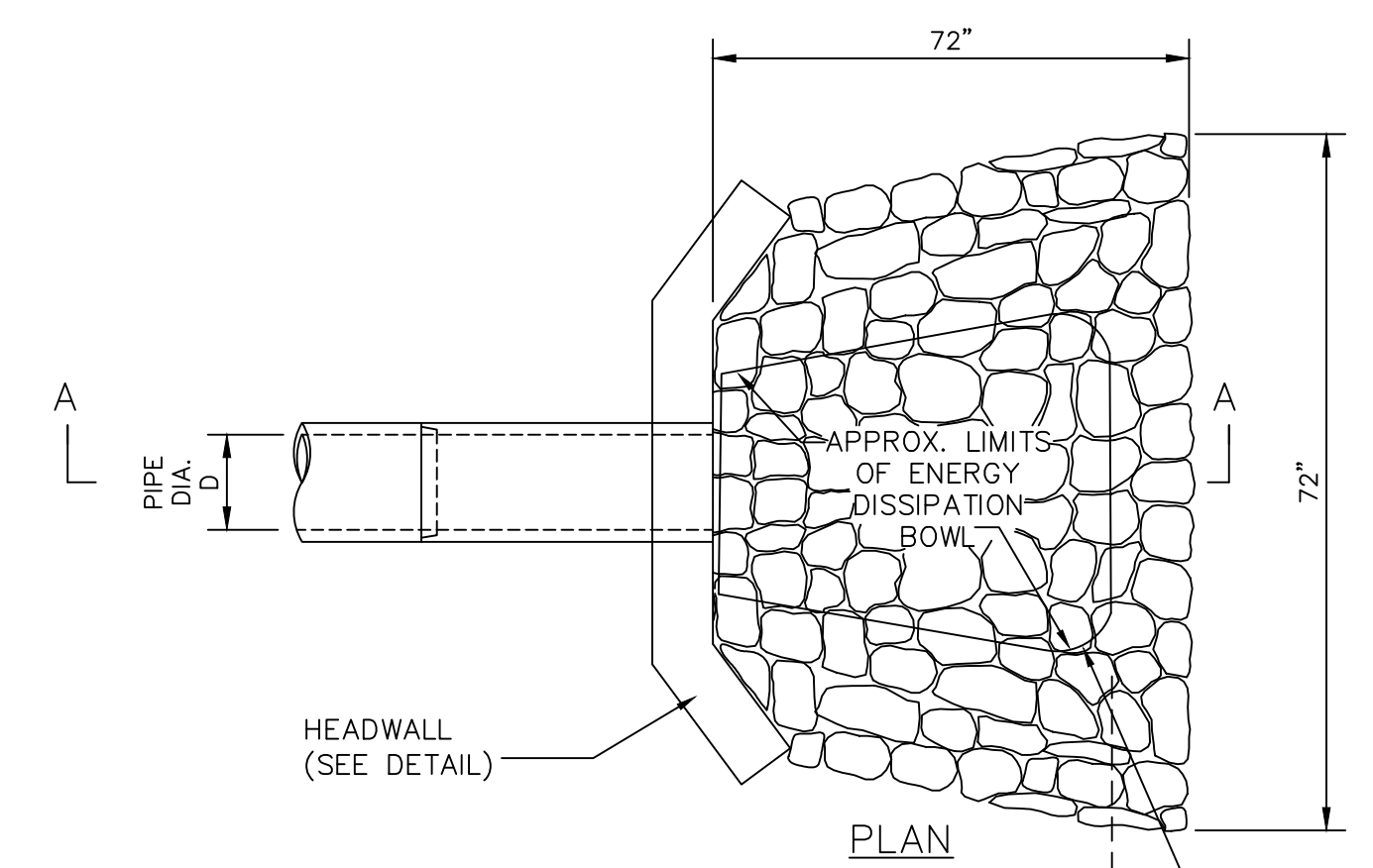
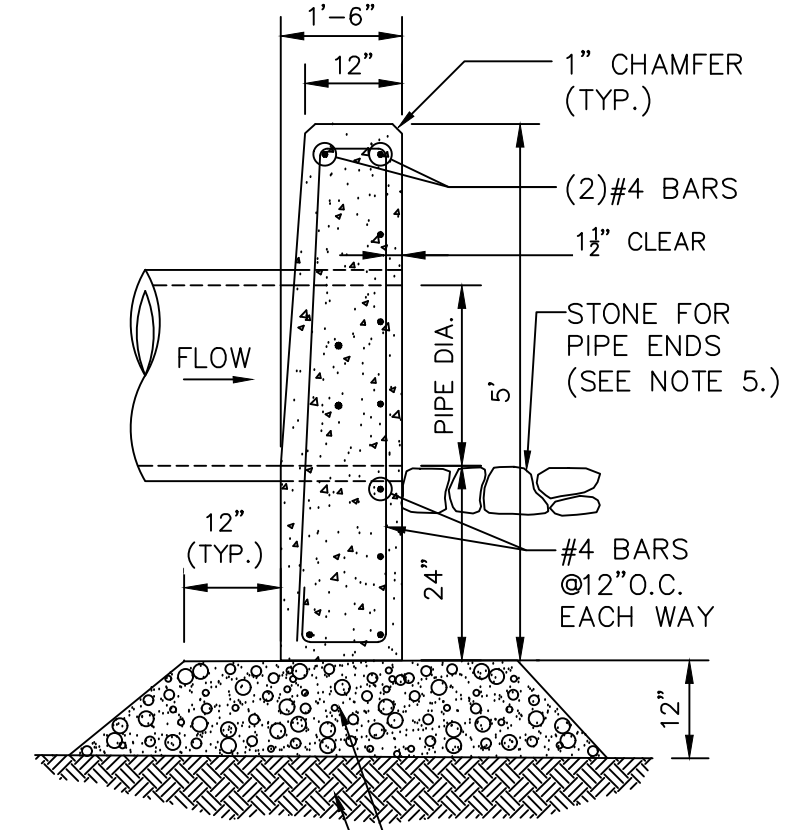
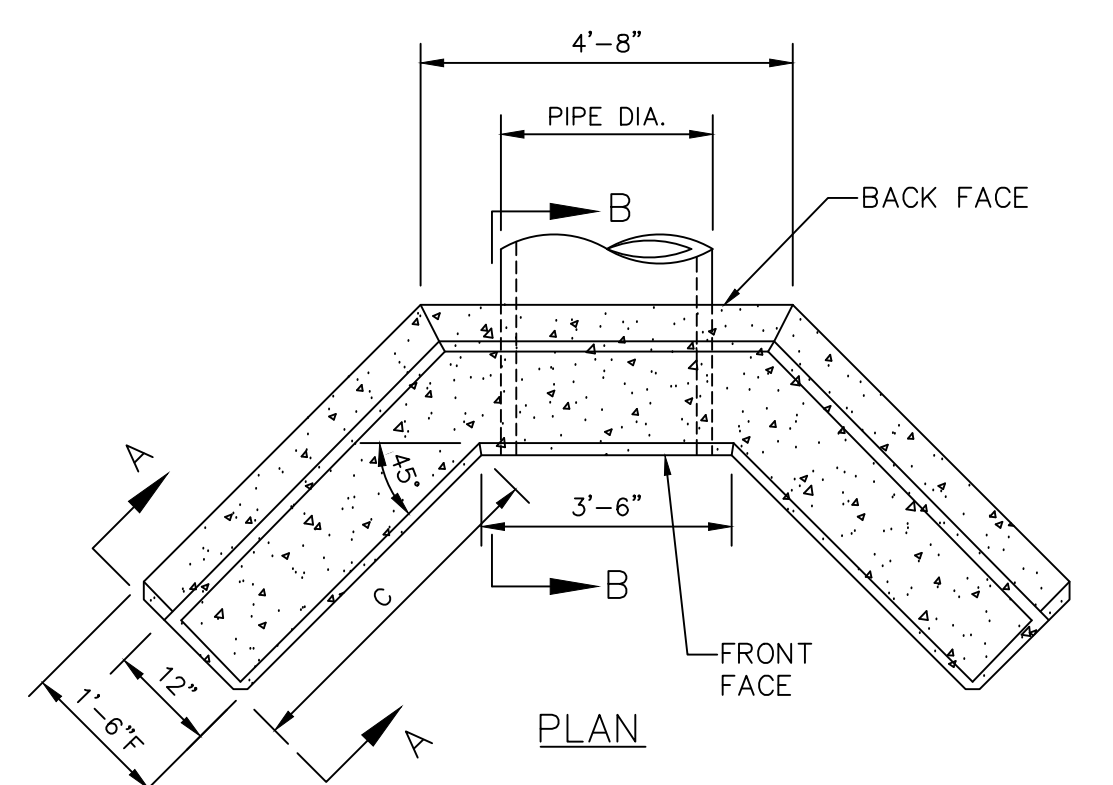
ELEVATION VIEW



JELLYFISH JFPD0808
STANDARD DETAIL
PEAK DIVERSION CONFIGURATION



- GENERAL NOTES:**
- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
 - FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS REPRESENTATIVE. www.ContechES.com
 - JELLYFISH WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
 - STRUCTURE SHALL MEET AASHTO HS-20 OR PER APPROVING JURISDICTION REQUIREMENTS, WHICHEVER IS MORE STRINGENT, ASSUMING EARTH COVER OF 0' - 10', AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 LOAD RATING AND BE CAST WITH THE CONTECH LOGO.
 - STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-857, ASTM C-918, AND AASHTO LOAD FACTOR DESIGN METHOD.
 - OUTLET PIPE INVERT IS EQUAL TO THE CARTRIDGE DECK ELEVATION.
 - THE OUTLET PIPE DIAMETER FOR NEW INSTALLATIONS IS RECOMMENDED TO BE ONE PIPE SIZE LARGER THAN THE INLET PIPE AT EQUAL OR GREATER SLOPE.
 - NO PRODUCT SUBSTITUTIONS SHALL BE ACCEPTED UNLESS SUBMITTED 10 DAYS PRIOR TO PROJECT BID DATE, OR AS DIRECTED BY THE ENGINEER OF RECORD.
- INSTALLATION NOTES:**
- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
 - CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE.
 - CONTRACTOR WILL INSTALL AND LEVEL THE STRUCTURE, SEALING THE JOINTS, LINE ENTRY AND EXIT POINTS (NON-SHRINK GROUT WITH APPROVED WATERSTOP OR FLEXIBLE BOOT).
 - CARTRIDGE INSTALLATION, BY CONTECH, SHALL OCCUR ONLY AFTER SITE HAS BEEN STABILIZED AND THE JELLYFISH UNIT IS CLEAN AND FREE OF DEBRIS. CONTACT CONTECH TO COORDINATE CARTRIDGE INSTALLATION WITH SITE STABILIZATION.



1 HEADWALL DETAIL
NOT TO SCALE

Ranger Engineering Group, Inc.
130 Main Street, Suite 202
Salem NH, 03079
Tel: 978-208-1762
rangereng.com



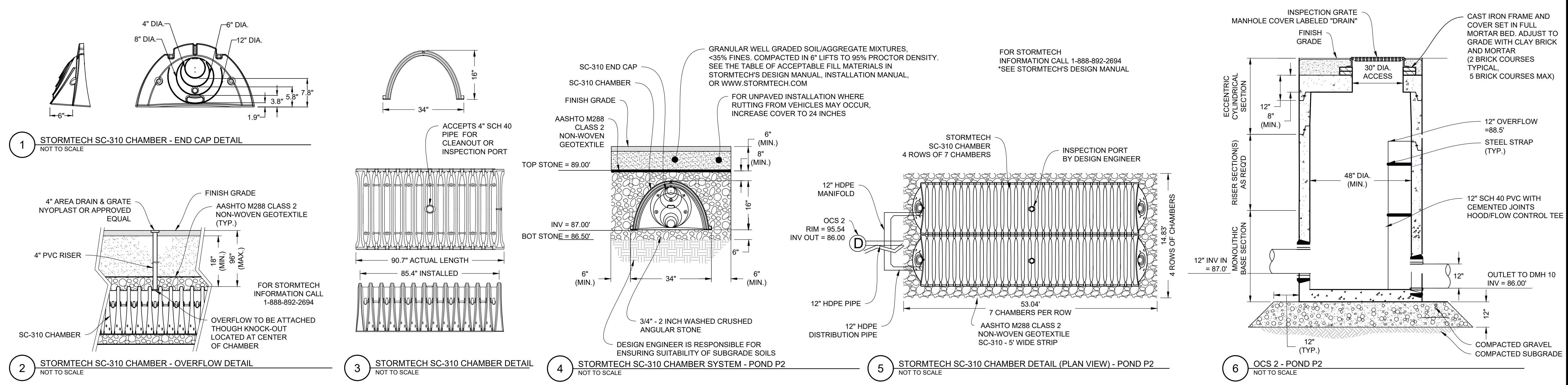
SITE PLAN
140 HAVERHILL STREET
ANDOVER MA, 01810

DRAINAGE DETAILS

MEDICO 140, LLC
355 MIDDLESEX AVE. SUITE 7
WILMINGTON, MA 01887

NO.	DATE	REVISIONS	BY
3	5/27/25	TRAFFIC REVIEW	BCO
2	3/31/25	FINAL PEER REVIEW COMMENTS	BCO
1	2/21/25	PEER REVIEW COMMENTS	BCO

PROJECT: 19-152
DATE: MAY 27, 2025
DRAWING SCALE: 1"= 40'
DRAWN BY: OMR
APPROVED BY: BCO



1 STORMTECH SC-310 CHAMBER - END CAP DETAIL
 NOT TO SCALE

2 STORMTECH SC-310 CHAMBER - OVERFLOW DETAIL
 NOT TO SCALE

3 STORMTECH SC-310 CHAMBER DETAIL
 NOT TO SCALE

4 STORMTECH SC-310 CHAMBER SYSTEM - POND P2
 NOT TO SCALE

5 STORMTECH SC-310 CHAMBER DETAIL (PLAN VIEW) - POND P2
 NOT TO SCALE

6 OCS 2 - POND P2
 NOT TO SCALE

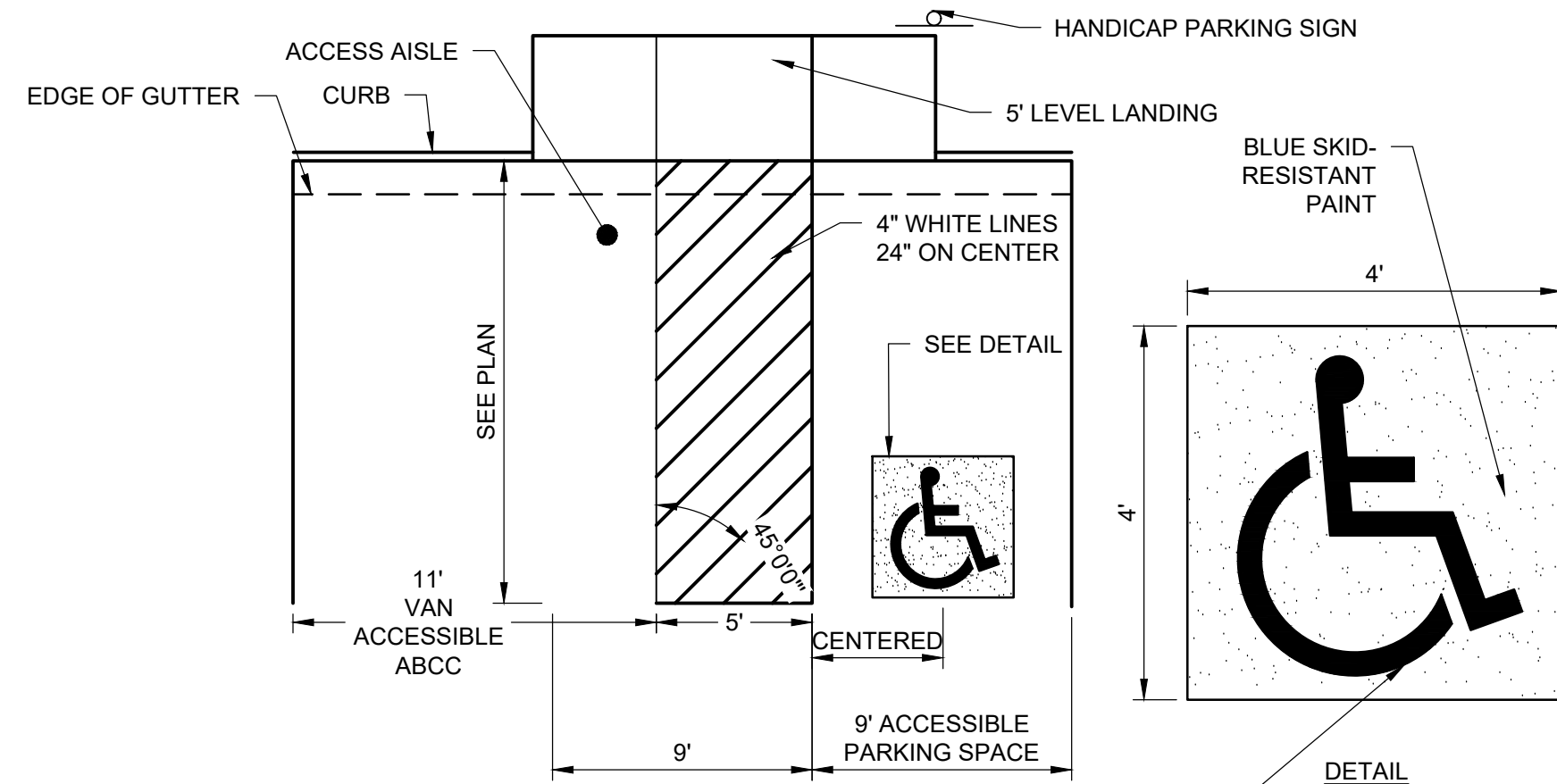
SITE PLAN
 140 HAVERHILL STREET
 ANDOVER MA, 01810

DRAINAGE DETAILS

MEDICO 140, LLC
 355 MIDDLESEX AVE, SUITE 7
 WILMINGTON, MA 01897

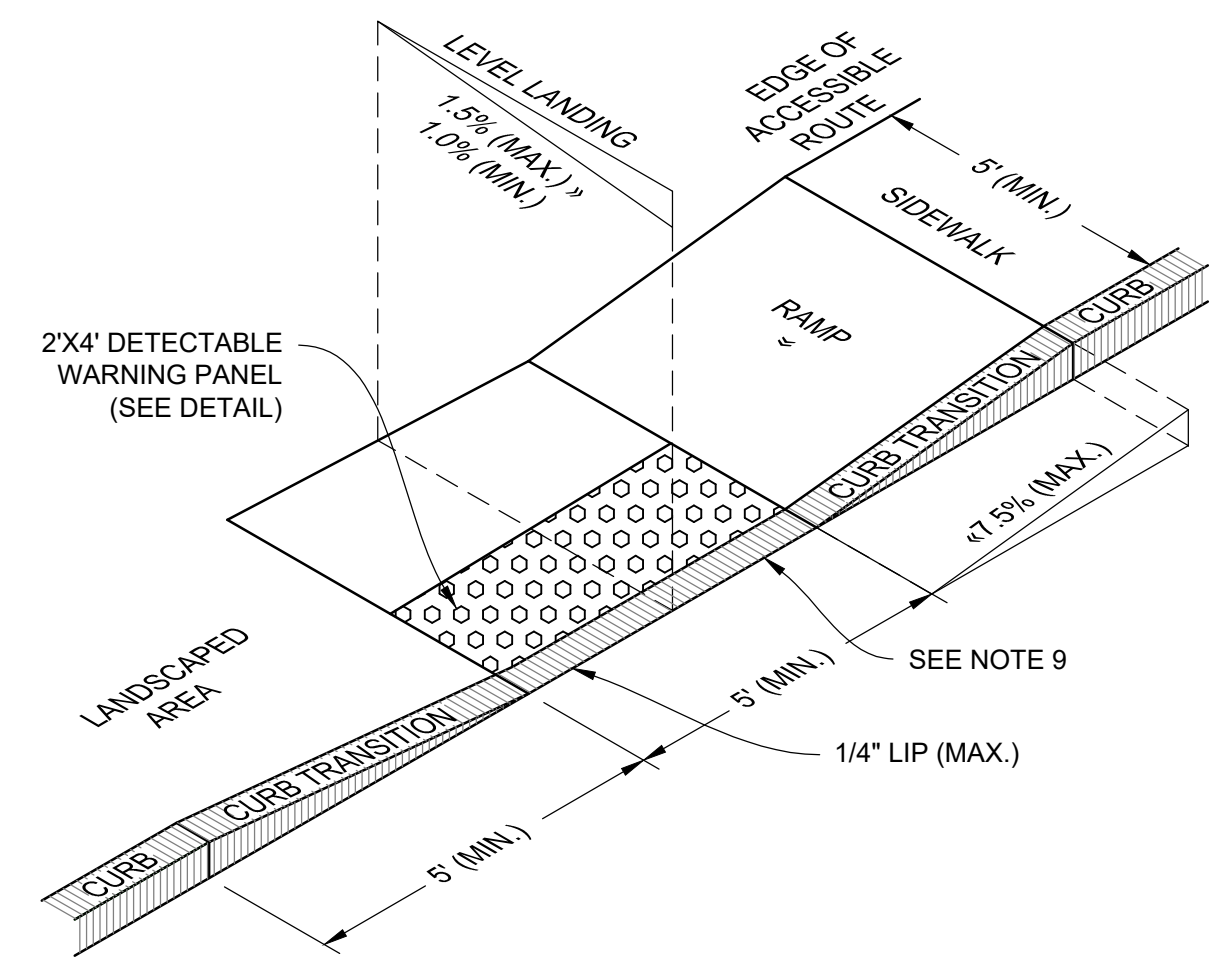
NO.	DATE	REVISIONS	BY
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2	3/31/25	FINAL PEER REVIEW COMMENTS	BCO
1	2/21/25	PEER REVIEW COMMENTS	BCO

PROJECT	19-152
DATE	MAY 27, 2025
DRAWING SCALE	1"= 40'
DRAWN BY	OMR
APPROVED BY	BCO



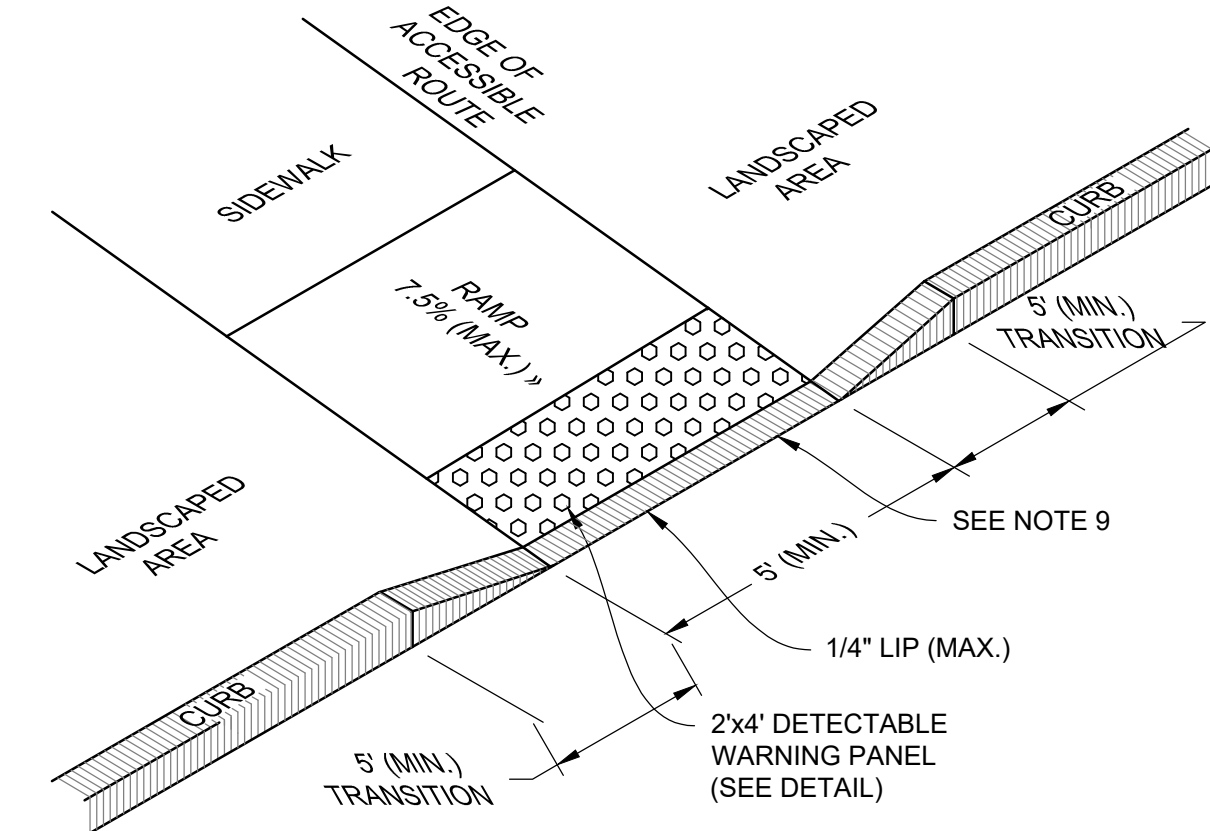
- NOTES:**
1. ALL DIMENSIONS TO EDGES OF 4\"/>
 - 2. ALL STRIPING SHALL BE 4\"/>

1 ACCESSIBLE PARKING SPACE
NOT TO SCALE



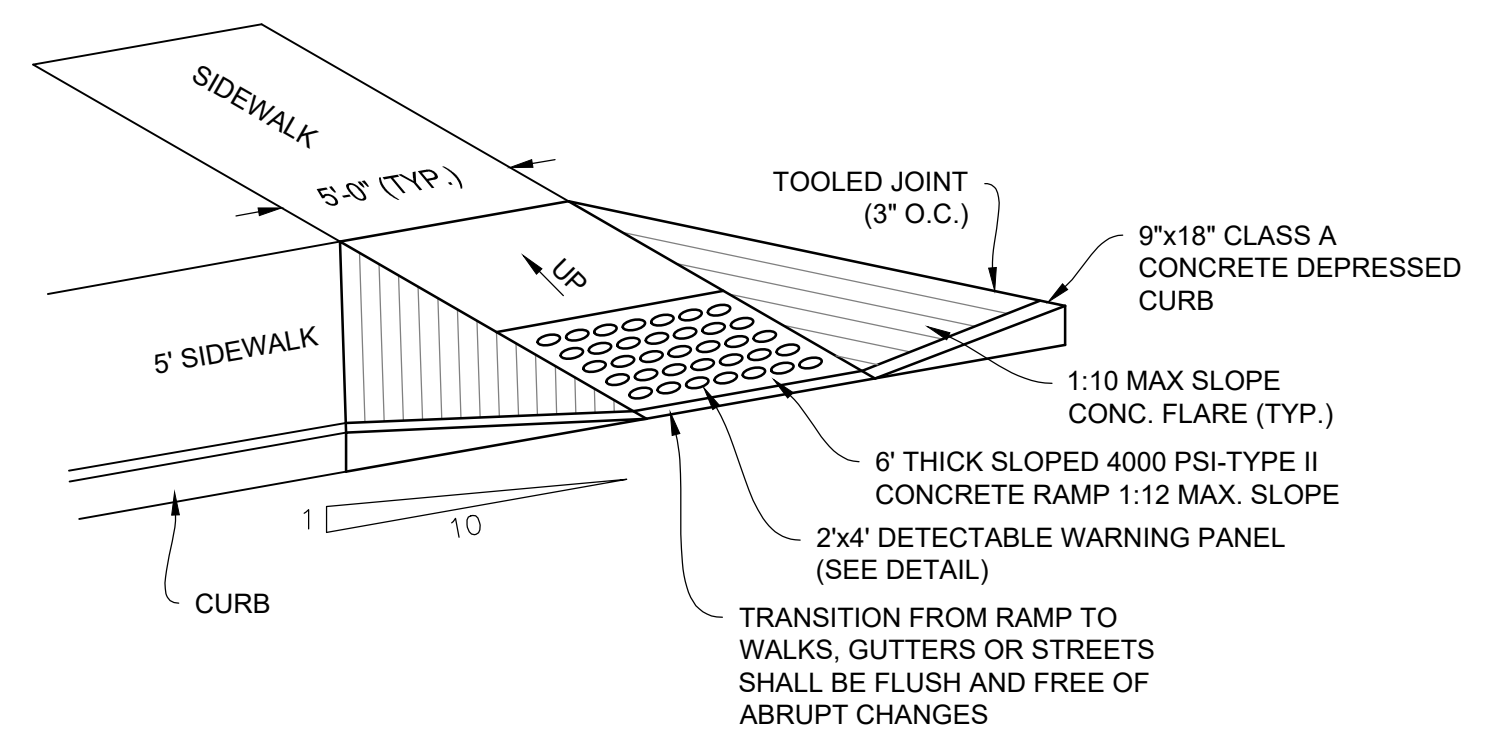
- NOTES:**
1. THE MAXIMUM ALLOWABLE SIDEWALK AND RAMP CROSS SLOPES SHALL BE 1.5% (1% MIN).
 2. THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE EXCLUDING CURB RAMPS SHALL BE 5%.
 3. THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE CURB RAMPS SHALL BE 7.5%.
 4. A MINIMUM OF 3 FEET CLEAR SHALL BE MAINTAINED AT ANY PERMANENT OBSTACLE IN ACCESSIBLE ROUTE (I.E., HYDRANTS, UTILITY POLES, TREE WELLS, SIGNS, ETC.)
 5. CURB TREATMENT VARIES, SEE PLAN FOR CURB TYPE.
 6. RAMP, CURB AND ADJACENT PAVEMENTS SHALL BE GRADED TO PREVENT PONDING.
 7. SEE TYPICAL SIDEWALK SECTION FOR RAMP CONSTRUCTION.
 8. WHERE ACCESSIBLE ROUTES ARE LESS THAN 5' IN WIDTH (EXCLUDING CURBING) A 5'x5' PASSING AREA SHALL BE PROVIDED AT INTERVALS NOT TO EXCEED 200 FEET.
 9. ELIMINATE CURBING AT RAMP WHERE IT ABUTS ROADWAY, EXCEPT WHERE VERTICAL CURBING IS INDICATED ON THE DRAWINGS TO BE INSTALLED AND SET FLUSH.

2 ACCESSIBLE CURB RAMP (ACR) - TYPE 'G' WITH DETECTABLE WARNING PANEL
NOT TO SCALE

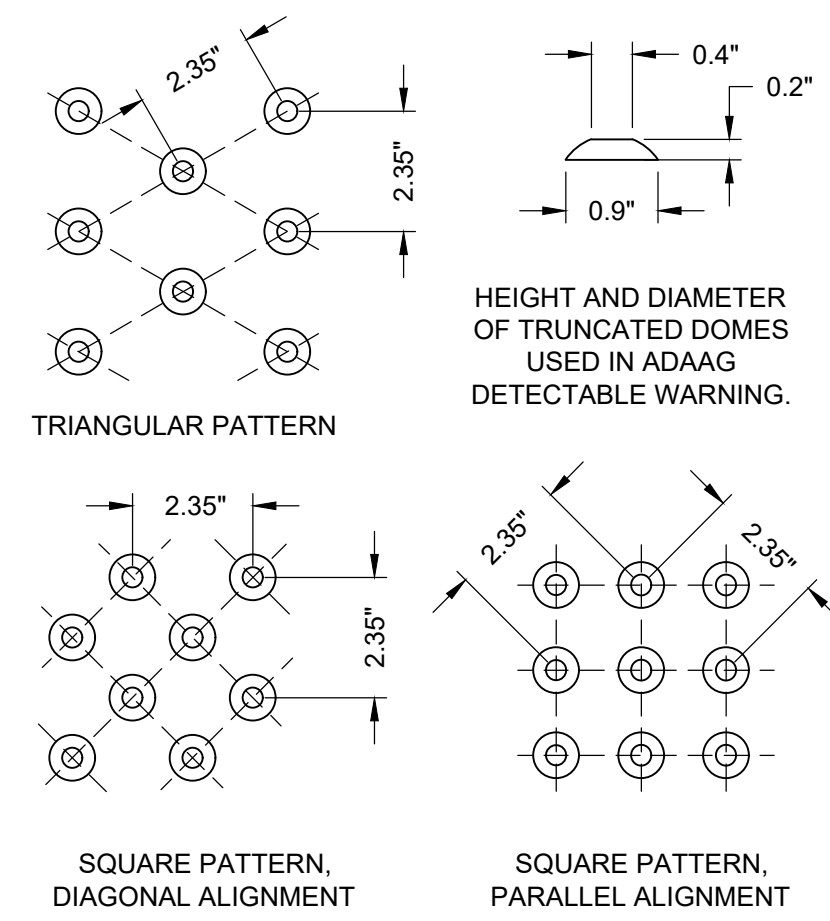


- NOTES:**
1. THE MAXIMUM ALLOWABLE SIDEWALK AND RAMP CROSS SLOPES SHALL BE 1.5% (1% MIN).
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 5. CURB TREATMENT VARIES, SEE PLAN FOR CURB TYPE.
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 9. ELIMINATE CURBING AT RAMP WHERE IT ABUTS ROADWAY, EXCEPT WHERE VERTICAL CURBING IS INDICATED ON THE DRAWINGS TO BE INSTALLED AND SET FLUSH.

3 ACCESSIBLE CURB RAMP (ACR) - TYPE 'M' WITH DETECTABLE WARNING PANEL
NOT TO SCALE



4 ACCESSIBLE CURB RAMP (ACR) - TYPE 'N' W/ DETECTABLE WARNING PANEL
NOT TO SCALE



- NOTE:**
- PANELS MAY BE CONCRETE PRECAST OR CAST IN PLACE OR OTHER SUITABLE MATERIAL PERMANENTLY APPLIED TO THE RAMP. DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT.

5 DETECTABLE WARNING PANEL
NOT TO SCALE



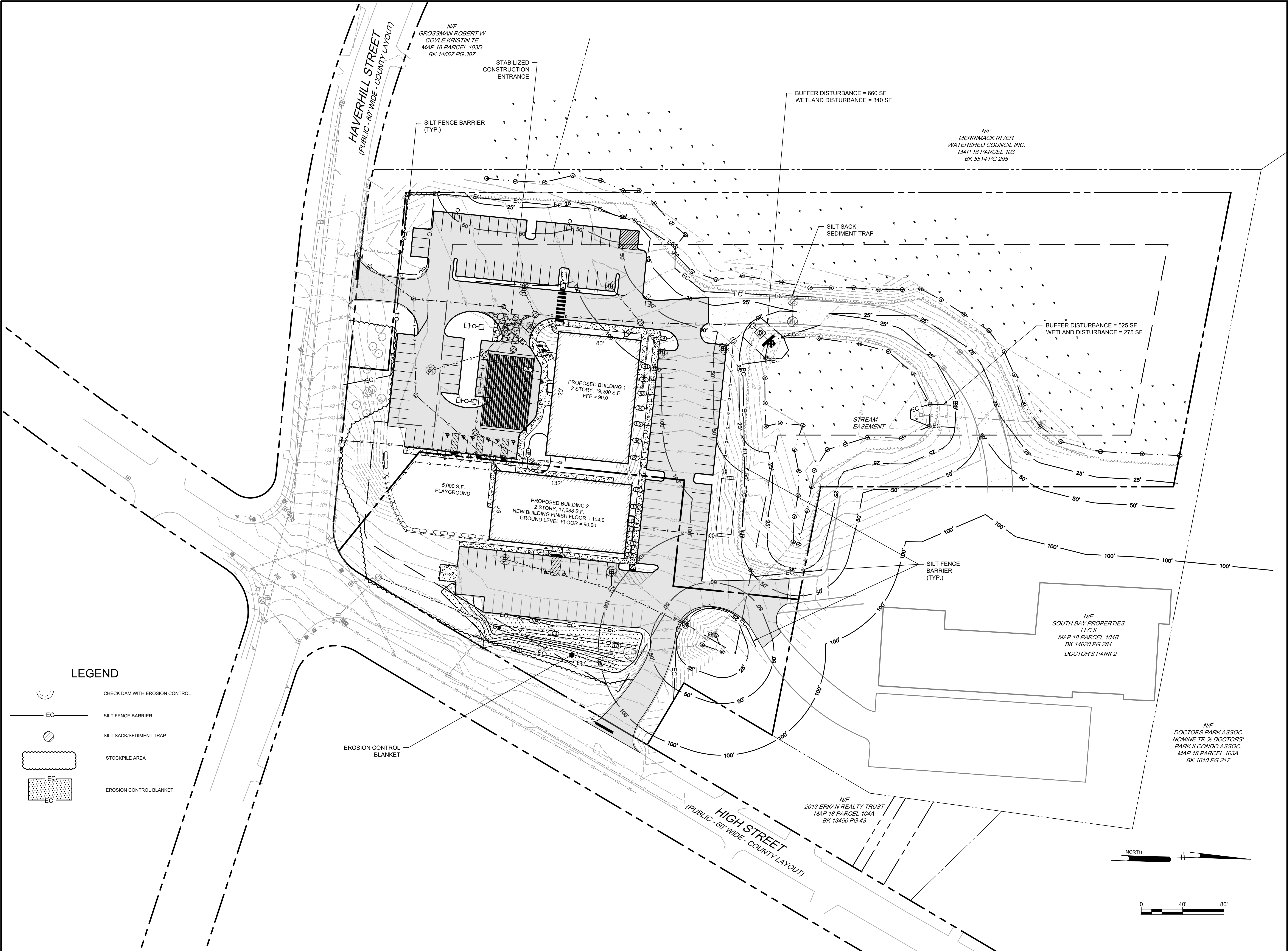
SITE PLAN
140 HAVERHILL STREET
ANDOVER MA, 01810

ADA RAMPS AND PARKING SPACES


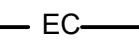


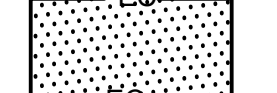
MEDICO 140, LLC
355 MIDDLESEX AVE, SUITE 7
WILMINGTON, MA 01897

NO.	DATE	REVISIONS	BY
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2	3/31/25	FINAL PEER REVIEW COMMENTS	BCO
1	2/21/25	PEER REVIEW COMMENTS	BCO

PROJECT	19-152
DATE	MAY 27, 2025
DRAWING SCALE	1"= 40'
DRAWN BY	OMR
APPROVED BY	BCO



LEGEND

-  CHECK DAM WITH EROSION CONTROL
-  SILT FENCE BARRIER
-  SILT SACK/SEDIMENT TRAP
-  STOCKPILE AREA
-  EROSION CONTROL BLANKET

Ranger Engineering Group, Inc.
 130 Main Street, Suite 202
 Salem NH, 03079
 Tel: 978-208-1762
 rangereng.com



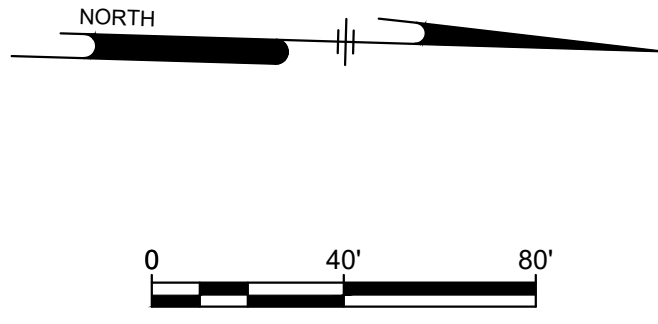
SITE PLAN
 140 HAVERHILL STREET
 ANDOVER MA, 01810

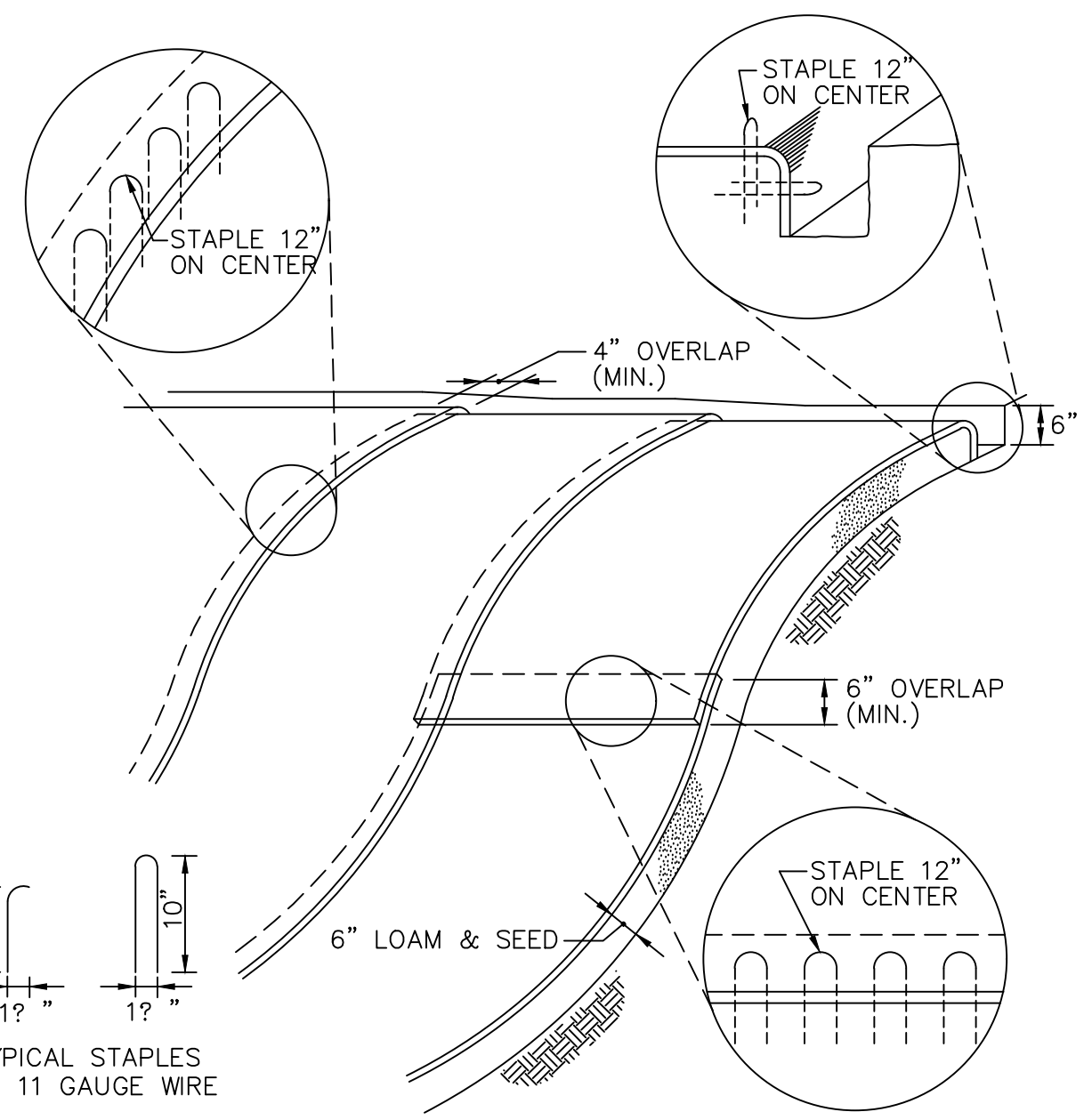
EROSION AND SEDIMENT CONTROL PLAN

MEDICO 140, LLC
 355 MIDDLESEX AVE. SUITE 7
 WILMINGTON, MA 01897

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1	2/21/25	PEER REVIEW COMMENTS	BCO

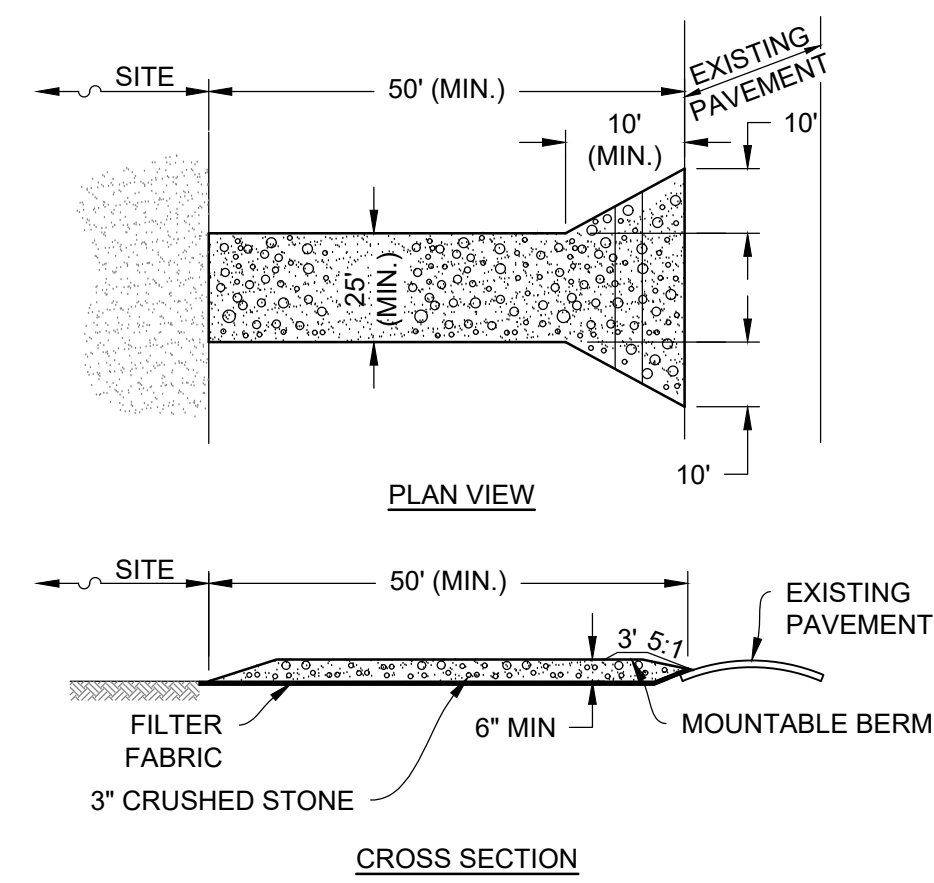
PROJECT: 19-152
 DATE: MAY 27, 2025
 DRAWING SCALE: 1" = 40'
 DRAWN BY: OMR
 APPROVED BY: BCO





- Notes:**
- BEGIN AT THE TOP OF BLANKET INSTALLATION AREA BY ANCHORING BLANKET IN A 6" DEEP TRENCH BACKFILL AND COMPACT TRENCH AFTER STAPLING.
 - ROLL THE BLANKET DOWN THE SWALE IN THE DIRECTION OF THE WATER FLOW. THE EDGES OF BLANKETS MUST BE STAPLED WITH APPROX. 4 INCH OVERLAP WHERE 2 OR MORE STRIP WIDTHS ARE REQUIRED.
 - WHEN BLANKETS MUST BE SPICED DOWN THE SWALE, PLACE UPPER BLANKET END OVER LOWER END WITH 6 INCH (MIN.) OVERLAP AND STAPLE BOTH TOGETHER.
 - EROSION CONTROL BLANKET SHALL NOT CONTAIN PLASTIC MESH. NATURAL FIBER BIODEGRADABLE MESH SHALL BE USED
 - HYDRO SEEDING MULCH SHALL BE USED ON ALL DISTURBED AREAS UPON COMPLETION OF ROUGH OR FINAL GRADING ACTIVITIES. GRADING WILL BE CONSIDERED COMPLETE WHEN THE AREA WILL REMAIN UNDISTURBED FOR 30 OR MORE DAYS.
 - EROSION CONTROL BLANKET WILL BE USED TO COVER PROBLEM AREAS WHERE STABILIZATION IS NOT ACHIEVED WITH HYDRO SEED MULCH AND IN THE BOTTOM OF STORMWATER CHANNELS. THE BOTTOM AND SIDE SLOPES WILL BE MULCHED BEFORE THE BLANKET IS APPLIED

1 EROSION CONTROL BLANKET
NOT TO SCALE



- NOTES:**
- ENTRANCE WIDTH SHALL BE A TWENTY-FIVE (25) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
 - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. BERM SHALL BE PERMITTED. PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AS NEEDED.

2 STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

EROSION CONTROL NOTES (DURING CONSTRUCTION)

- THE CONTRACTOR MUST INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND IN THE DETAILS PRIOR TO STARTING ANY OTHER WORK ON THE SITE. EROSION CONTROL MUST BE INSTALLED AT EVERY INLET STRUCTURE (EXISTING AND PROPOSED) AND MAINTAINED FOR THE DURATION OF THE PROJECT.
- EROSION CONTROLS AS SHOWN ON PLANS SHALL BE INSPECTED, REPAIRED AND/OR MAINTAINED BY THE CONTRACTOR DAILY AND WITHIN 12 HOURS OF EACH STORM EVENT.
- SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THEY REACH A DEPTH OF 1/4 TO 1/2 THE HEIGHT OF THE SILT FENCE OR SEDIMENT SOCK.
- SEDIMENT SHALL BE CONTAINED WITHIN THE CONSTRUCTION SITE. AWAY FROM DRAINAGE STRUCTURES. SEDIMENT REACHING THE PUBLIC WAY SHALL BE REMOVED BY STREET SWEEPING AND NOT BY FLUSHING.
- STABILIZE SLOPES STEEPER THAN 3:1 (HORIZONTAL TO VERTICAL) WITH SEED, SECURED GEOTEXTILE FABRIC, OR ROCK RIP-RAP AS REQUIRED TO PREVENT EROSION DURING CONSTRUCTION.
- CLEAN OUT CATCH BASINS, DRAIN MANHOLES AND STORM DRAIN PIPES AFTER COMPLETION OF CONSTRUCTION.
- LOAM AND SEED ALL DISTURBED AREAS. PERMANENT SEEDING SHALL OCCUR IN THE SPRING FROM LATE MARCH THROUGH MAY AND IN LATE SUMMER OR EARLY FALL BETWEEN AUGUST AND OCTOBER
- DUST SHALL BE CONTROLLED AT THE SITE WITH MECHANICAL WATER SPRAYING AS NECESSARY AND DURING EXTENDED DRY PERIODS.
- UPON ESTABLISHMENT OF PERMANENT VEGETATION OVER DISTURBED AREAS, REMOVE AND DISPOSE OF STRAW WATTLES AND STAKES.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN AND SUPPLEMENT THE SPECIFIED SEDIMENTATION CONTROLS AS NECESSARY TO PREVENT SEDIMENTATION OF OFF-SITE AREAS AND/OR ANY REGULATED RESOURCE AREAS. FAILURE BY THE CONTRACTOR TO CONTROL EROSION, POLLUTION AND/OR SILTATION SHALL BE CAUSE FOR THE OWNER TO EMPLOY OUTSIDE ASSISTANCE OR TO USE HIS OWN MEANS TO PROVIDE THE NECESSARY CORRECTIVE MEASURE. THE COST OF SUCH ASSISTANCE PLUS PROJECT ENGINEERING COSTS WILL BE THE CONTRACTOR'S RESPONSIBILITY.
- THE CONTRACTOR SHALL CHECK THE CONDITION OF EROSION CONTROLS WEEKLY TO KEEP THEM IN GOOD OPERATING CONDITION. EROSION CONTROLS SHALL ALSO BE INSPECTED, REPAIRED AND MAINTAINED BY THE CONTRACTOR WITHIN 12 HOURS OF ANY STORM EVENT PRODUCING 1/2 INCH OF RAINFALL OR MORE. EROSION CONTROLS SHALL BE REPLACED WHEN DETRIORATED, OR WHEN ORDERED BY THE ENGINEER. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THEY REACH A DEPTH OF 6 INCHES.
- IN ADDITION TO THOSE LOCATIONS SHOWN ON THIS PLAN AND ON THE GRADING AND DRAINAGE PLANS, EROSION CONTROLS SHALL BE INSTALLED AT THE FOLLOWING LOCATIONS: TOE OF SLOPE OF EMBANKMENT CONSTRUCTION, TOE OF TEMPORARY EARTHWORK STOCKPILES. STOCKPILE SIDE SLOPES SHALL NOT EXCEED 2:1.
- EROSION AND SEDIMENTATION CONTROL SHALL BE IN COMPLIANCE WITH MASSACHUSETTS STORMWATER POLICY.

CONSTRUCTION SEQUENCE NOTES:

- INSTALL EROSION AND SEDIMENT CONTROLS AS SHOWN ON PLAN.
- COMMENCE CLEARING, GRUBBING AND EARTHWORK. DEMOLISH EXISTING STRUCTURES AND PAVEMENT/CURBING.
- CUT AND DISPOSE OF ANY DEBRIS PRODUCED DURING EARTHWORK.
- INSTALL BUILDING FOUNDATION.
- INSTALL SITE DRAINAGE AND UTILITIES.
- FILL SITE TO SUBGRADE.
- CONSTRUCT PAVED AREA BASE COURSES.
- STABILIZE SIDE SLOPES. SIDE SLOPES MUST BE FULLY STABILIZED BEFORE ANY STORMWATER DISCHARGE.
- DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED WITHIN 72 HOURS OF THE ESTABLISHMENT OF FINAL GRADE.
- CONSTRUCT BUILDING.
- FINAL PAVING OF DRIVEWAY AND PARKING AREAS.
- INSPECT ALL SEDIMENT AND EROSION CONTROL MEASURES.
- INSTALL SITE LANDSCAPING AND PERMANENT SEEDING OF ALL DISTURBED AREAS.
- AFTER ALL SEEDED AREAS HAVE ESTABLISHED STABLE GROWTH, ALL TEMPORARY EROSION CONTROL CAN BE REMOVED.
- CONTRACTOR SHALL NOTIFY AND COORDINATE WITH ALL AUTHORITIES RESPONSIBLE FOR INSPECTIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL REQUIRED INSPECTION SIGN-OFFS.

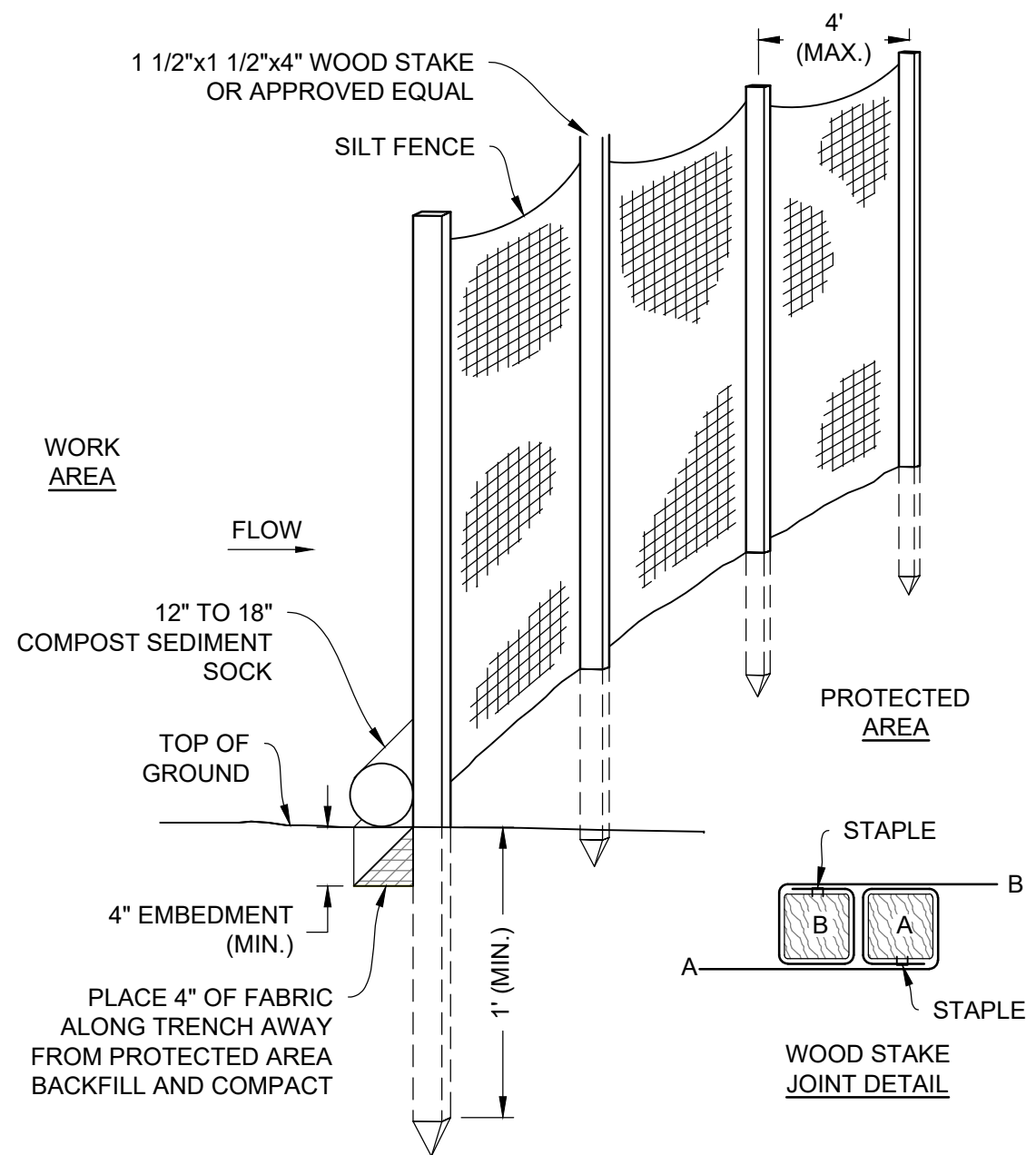
OPERATION AND MAINTENANCE:

CONSTRUCTION PHASE

- THE BMP'S ASSOCIATED WITH THIS PROJECT WILL BE OWNED BY THE CONTRACTOR, WHO WILL BE RESPONSIBLE FOR INSPECTION, OPERATION AND MAINTENANCE.
- PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL PHYSICALLY MARK THE LIMITS OF NO LAND DISTURBANCE ON THE SITE.
 - THE CONTRACTOR IS TO INSTALL AND MAINTAIN DRAINAGE FACILITIES AS SHOWN ON THE SITE PLANS.
 - PRIOR TO CONSTRUCTION, ALL EROSION/SILTATION CONTROL DEVICES SHOWN ON ABOVE PLAN ARE TO BE INSTALLED. TO PREVENT SILT INTRUSION INTO THE DRAINAGE SYSTEM DURING CONSTRUCTION, THE CONTRACTOR IS TO INSTALL AND MAINTAIN INLET PROTECTION AT ALL CATCH BASINS, AND SET A SILT FENCE OR SEDIMENT SOCK AT ALL SLOPES WHICH MAY ERODE IN THE DIRECTION OF ANY OPEN DRAINAGE FACILITIES. SUCH PREVENTIVE MEASURES ARE TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS. TEMPORARY CONTROLS SHALL BE INSTALLED TO REDUCE DUST AND SEDIMENT TRANSPORT.
 - CONSTRUCTION OF DRAINAGE FACILITIES IS TO BE INSPECTED BY DESIGN ENGINEER. TO VERIFY CONFORMANCE TO THE DESIGN PLAN.
 - THE SEQUENCE OF DRAINAGE CONSTRUCTION SHALL BE AS FOLLOWS:
 - CLEAR, GRUB, EXCAVATE AREAS FOR DRAINAGE SYSTEMS.
 - TRENCH AND INSTALL PIPES, CATCH BASINS MANHOLES
 - INSTALL INLET PROTECTION.
 - EROSION CONTROLS ARE TO BE INSPECTED AND MAINTAINED ON A DAILY BASIS. UPON DISCOVERY OF SILT BUILD-UP IN ANY CATCH BASIN SUMPS, OR ANY OTHER STRUCTURES, THEY ARE TO BE CLEANED.
 - ALL EXPOSED SOILS SHALL BE IMMEDIATELY STABILIZED WITH A LAYER OF MULCH HAY OR JUTE BLANKETS-AS NEEDED FOR SLOPES STEEPER THAN 3:1.
 - PRIOR TO CONSTRUCTION OF IMPERVIOUS AREAS, ALL DRAINAGE STRUCTURES AND PIPES SHALL BE INSTALLED AND INSPECTED FOR PROPER FUNCTION. DURING CONSTRUCTION OF OTHER SITE FEATURES, ALL DRAINAGE FACILITIES SHALL BE INSPECTED ON A WEEKLY BASIS AND CLEANED/REPAIRED IMMEDIATELY UPON DISCOVERY OF SEDIMENT BUILD-UP OR DAMAGE.
 - AFTER PAVING IS INSTALLED, IT SHALL BE SWEEPED CLEAN ON A REGULAR BASIS.
 - IF DEWATERING IS NECESSARY DURING CONSTRUCTION, THE WATER WILL BE TREATED FOR TOTAL SUSPENDED SOLIDS (TSS) REMOVAL PRIOR TO DISCHARGE TO RECEIVING WATER.

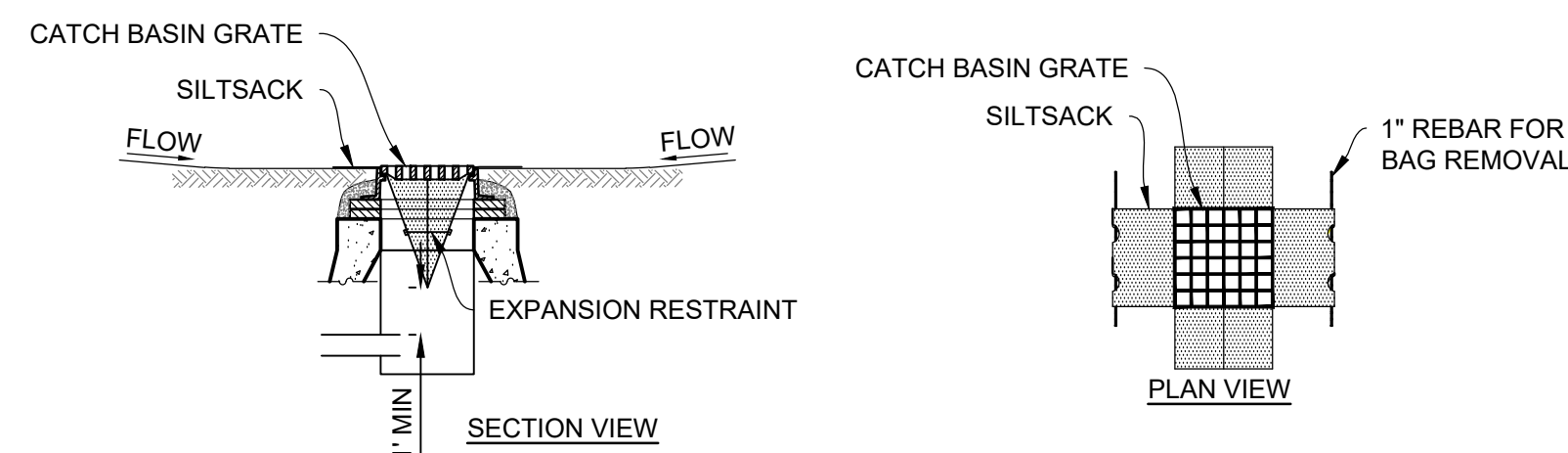
POST-DEVELOPMENT PHASE

- THE OWNER(S) IS TO BE RESPONSIBLE FOR MAINTENANCE OF ALL DRAINAGE STRUCTURES IN THE PROJECT - INCLUDING ROOF DRAINS, DRAIN PIPES, CATCH BASINS, AND DRAIN MANHOLES.
- REGULAR MAINTENANCE IS TO INCLUDE THE FOLLOWING:
- INSPECTION OF ALL DRAINAGE FACILITIES (CATCH BASINS, PIPES, OUTLET CONTROL STRUCTURES, AND DETENTION BASINS) EVERY THREE MONTHS. DURING THESE INSPECTIONS, THE INSPECTOR (A REGISTERED PROFESSIONAL CIVIL ENGINEER QUALIFIED IN DRAINAGE SYSTEMS) SHALL LOOK FOR EVIDENCE OF THE FOLLOWING: STRUCTURAL DAMAGE, SILT ACCUMULATION (NEAR INLET INVERTS ON CATCH BASINS AND OUTLET CONTROL STRUCTURES), AND IMPROPER FUNCTION. A REPORT ON THE SYSTEM SHALL BE DELIVERED TO THE OWNER.
 - AFTER INSPECTION, IF ANY OF THE ABOVE CONDITIONS EXIST, THE INSPECTOR SHALL NOTIFY THE OWNER, WHO SHALL IMMEDIATELY ARRANGE FOR ALL NECESSARY REPAIRS AND/OR SEDIMENT REMOVAL.
 - THE PAVEMENT AREA IS TO BE SWEEPED CLEAN, AS REQUIRED (I.E., VISUALLY NOTICEABLE DEBRIS BUILD-UP), A MINIMUM OF ONCE PER YEAR.
 - ALL GRADED SLOPES SHALL BE INSPECTED EVERY SPRING FOR EROSION. UPON DISCOVERY OF ANY FAILURE (IE. EROSION), LOAM AND SEED SHALL BE PUT IN PLACE AND NURTURED.
 - DURING THE WINTER MONTHS, ALL SNOW IS TO BE STORED SUCH THAT SNOW MELT IS CONTROLLED WITHIN THE PAVED AREA.



- NOTE:**
- SILT FENCE WITH SOCK TO BE USED AROUND STOCKPILES

3 SILT FENCE BARRIER
NOT TO SCALE



- NOTES:**
- INSTALL SILTSACK IN ALL CATCH BASINS WHERE INDICATED ON THE PLAN BEFORE COMMENCING WORK OR IN PAVED AREAS AFTER BINDER COURSE IS PLACED AND HAY BALES HAVE BEEN REMOVED.
 - GRATE TO BE PLACED OVER SILTSACK.
 - SILTSACK SHALL BE INSPECTED WEEKLY AND AFTER ALL STORM EVENTS AND CLEANING OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED. MAINTAIN UNTIL UPSTREAM AREAS HAVE BEEN PERMANENTLY STABILIZED. MAXIMUM VOLUME OF SILT ALLOWED BEFORE CLEANING OF THE VOLUME OF THE SILT TRAP.
 - MATERIALS REMOVED FROM THE TRAP SHALL BE PROPERLY DISPOSED OF AND STABILIZED.

4 SILTSACK SEDIMENT TRAP
NOT TO SCALE

Ranger Engineering Group, Inc.
130 Main Street, Suite 202
Salem NH, 03079
Tel: 978-208-1762
rangereg.com



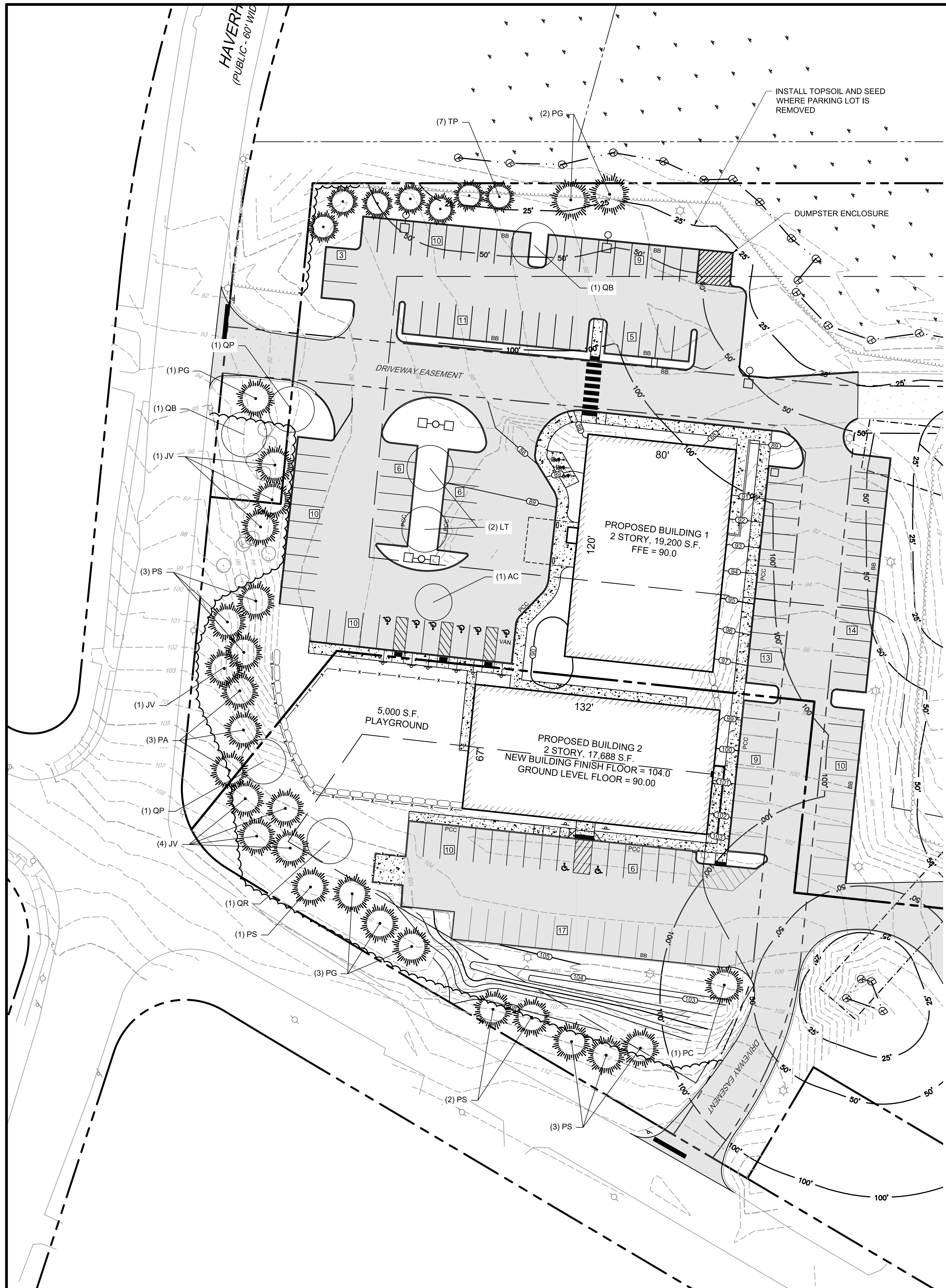
SITE PLAN
140 HAVERHILL STREET
ANDOVER MA, 01810

EROSION AND SEDIMENT CONTROL DETAILS

MEDICO 140, LLC
355 MIDDLESEX AVE. SUITE 7
WILMINGTON, MA 01897

NO.	DATE	REVISIONS	BY
3	5/7/25	TRAFFIC REVIEW	BCO
2	3/31/25	FINAL PEER REVIEW COMMENTS	BCO
1	2/21/25	PEER REVIEW COMMENTS	BCO

PROJECT: 19-152
DATE: MAY 27, 2025
DRAWING SCALE: 1"= 40'
DRAWN BY: OMR
APPROVED BY: BCO



PLANT SCHEDULE

EVERGREEN TREE:

TREES KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE
IV	8	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	5-6' HT
PA	3	PICEA ABIES	NORWAY SPRUCE	5-6' HT
PG	7	PICEA GLAUCA	WHITE SPRUCE	5-6' HT
PS	8	PINUS STROBUS	EASTERN WHITE PINE	5-6' HT
TP	7	THUJA PLICATA	GREEN GIANT ARBORVITAE	5-6' HT

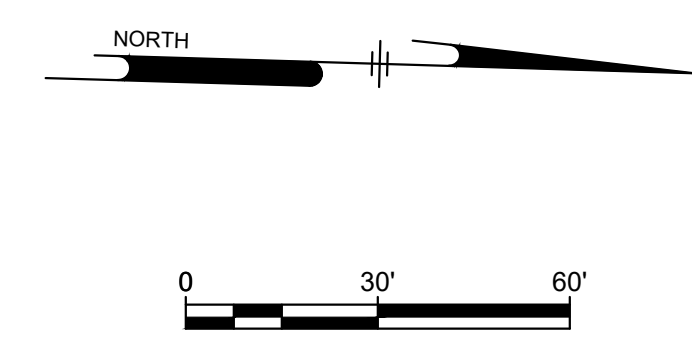
DECIDUOUS TREE:

TREES KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE
AR	1	ACER RUBRUM 'AUTUMN BLAZI	AUTUMN BLAZE MAPLE	3" CAL.
AC	1	AMELANCHIER CAN. 'AUTUMN BRILLIANCE	SHADBLOW SERVICEBERRY	12' B&B
CC	3	CERCIS CANADENSIS 'MINNESOTA STRAIN	MINN. STRAIN EASTERN REDBUD	3" CAL.
CK	1	CLADRASTIS KENTUCKEA	YELLOWWOOD	3" CAL.
CF	2	CORNUS FLORIDA	FLOWERING DOGWOOD	2.5" CAL.
LS	1	LIDQUIDAMBAR STYRACIFLUA 'ROTUNDILOBA	FRUITLESS SWEETGUM	3" CAL.
LT	2	LIRIODENDRON TULIPIFERA	TULIPTREE	3" CAL.
NS	1	NYSSA SYLVATICA	WHITE SPRUCE	3" CAL.
OB	4	QUERCUS BICOLOR	SWAMP WHITE OAK	3" CAL.
QP	3	QUERCUS PALUSTRIS	PIN OAK	3" CAL.
QR	1	QUERCUS RUBRA	NORTHERN RED OAK	3" CAL.
SJ	1	SOPHORA JAPONICA	SCHOLAR TREE	2.5" CAL.
SP	1	STEWARTIA PSEUDOCAMELLIA	JAPANESE STEWARTIA	2.5" CAL.

THE EASTERN RED CEDAR WILL GROW TO A MATURE SIZE OF 15-20 WIDE AND 40-50 TALL
 THE EASTERN WHITE PINE WILL GROW TO A MATURE SIZE OF 20-40 WIDE AND 50-80 TALL.
 THE NORWAY SPRUCE WILL GROW TO A MATURE SIZE OF 25-30 WIDE AND 40-60 TALL.
 THE WHITE SPRUCE WILL GROW TO A MATURE SIZE OF 10-20' WIDE AND 40-60 TALL.
 THE LANDSCAPE INSTALLER SHALL MAKE EVERY EFFORT TO REMOVE INVASIVE SPECIES SUCH AS ORIENTAL BITTERSWEET FROM LANDSCAPE AREAS AND ADJOINING WOODLANDS. THE PROPERTY OWNER SHALL DEVELOP A PLAN TO PERIODICALLY INSPECT AND REMOVE INVASIVE SPECIES THAT RE-EMERGES AS PART OF THE REGULAR LANDSCAPE MANAGEMENT PLAN

LEGEND

- LAWN
- POLLINATOR SEED MIX



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SITE PLAN
 140 HAVERHILL STREET
 ANDOVER MA, 01810

LANDSCAPE AND LIGHTING PLAN

MEDICO 140, LLC
 355 MIDDLESEX AVE. SUITE 7
 WILMINGTON, MA 01897

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