

Z:\PROJECTS\CHC_CHANNEL_BUILDING\142_Drawing\142_Architect\ADVANCE_CORRESPONDENCE\2024\19_DRS_PARK_TURKS_PARK\TURKS_PARK\BIBLISH2_CS000.dwg PLOTTED: 2025/08/12 08:58 AM BY: JAH FOR STYLE: ITTERR_NCS.dwg PROJECT STATUS: —

| 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 | |

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: 1-1/2 INCHES CLASS I BITUMINOUS CONCRETE PAVEMENT, TYPE I-1 WEARING COURSE
BINDER COURSE: 2-1/2 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 BMPS 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.



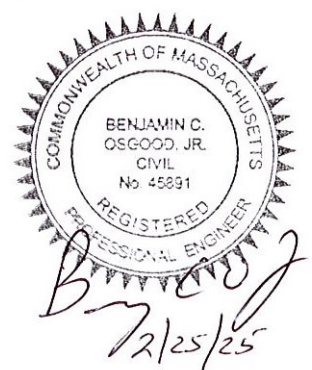
SITE PLAN
140 HAVERHILL STREET
ANDOVER MA, 01810

NOTES AND LEGEND

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

| NO. | DATE | REVISIONS |
|-----|---------|----------------------|
| 1. | 2/21/25 | PEER REVIEW COMMENTS |

| | |
|---------------|-------------------|
| PROJECT | 19-152 |
| DATE | DECEMBER 18, 2024 |
| DRAWING SCALE | 1"= 40' |
| DRAWN BY | OMR |
| APPROVED BY | BCO |



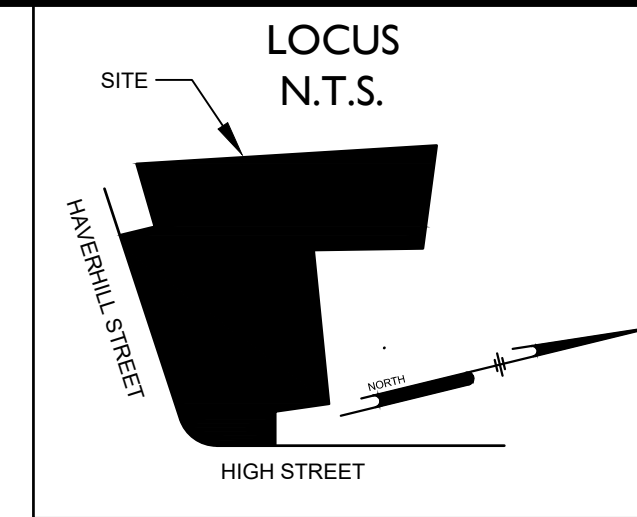
APPROVAL UNDER THE SUBDIVISION
CONTROL LAW NOT REQUIRED

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% |



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

FOR REGISTRY USE ONLY

N/F
GROSSMAN ROBERT W
COYLE KRISTIN TE
MAP 18 PARCEL 103D
BK 14667 PG 307

N/F
MERRIMACK RIVER
WATERSHED COUNCIL, INC.
MAP 18 PARCEL 103
BK 5514 PG 295

SINGLE RESIDENCE A ZONE
OFFICE PARK ZONE

NOTES:

1. 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.
2. THE BASIS OF BEARING FOR THIS PLAN IS THE MASSACHUSETTS STATE PLANE COORDINATES.
3. 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).
4. THE PURPOSE OF THIS PLAN IS TO DIVIDE THE EXISTING PROPERTY INTO TWO PARCELS.
5. SEE PLANS ON FILE AT THE TOWN OF ANDOVER PLANNING BOARD.
6. 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.
7. THE WETLANDS SHOWN HAVE BEEN DELINEATED BY NORSE ENVIRONMENTAL IN NOVEMBER 2019.
8. EXISTING DRIVEWAY, STREAM, AND SEWER EASEMENTS TAKEN FROM PLAN #15440 ESSEX COUNTY NORTH REGISTRY OF DEEDS

REFERENCE DEEDS:

1. BOOK 16214 PAGE 202 ESSEX NORTH REGISTRY OF DEEDS (OWNER OF RECORD FOR THE SUBJECT PARCEL)

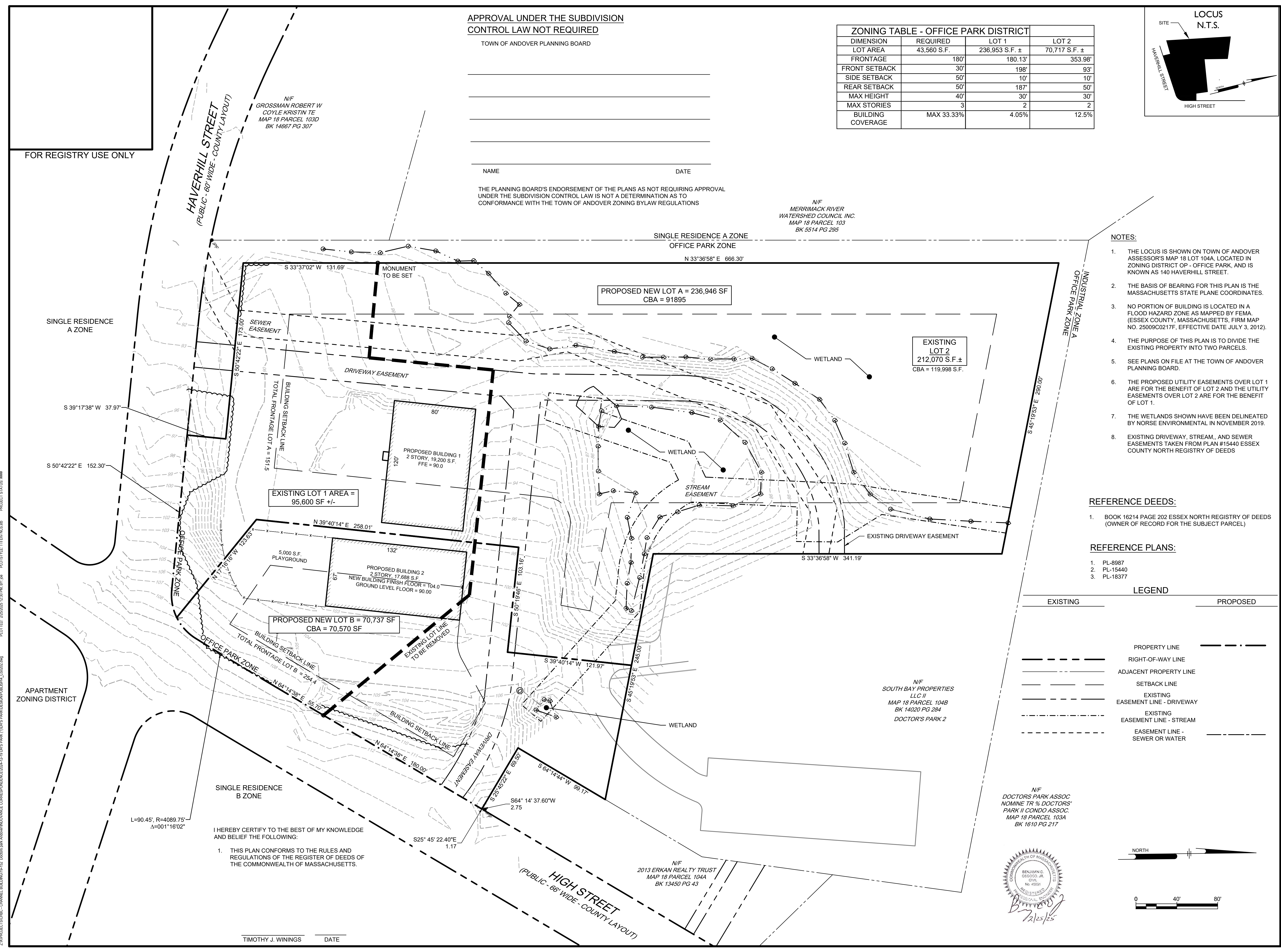
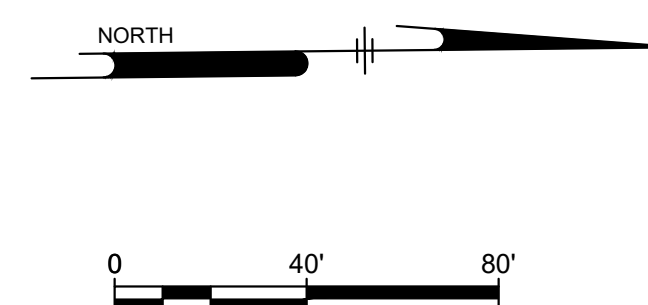
REFERENCE PLANS:

1. PL-8987
2. PL-15440
3. PL-18377

LEGEND

| EXISTING | PROPOSED |
|----------|----------|
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |

N/F
DOCTORS PARK ASSOC
NOMINE TR % DOCTORS'
PARK II CONDO ASSOC.
MAP 18 PARCEL 103A
BK 1610 PG 217



Z:\PROJECTS\CHC_CHANNEL_BUILDING\1812_Documents\Andover\INVOICE_CORRESPONDENCE\2024\1812_PARK_PARK_1100'S_PARCELS\BUSH_CS0202.dwg PLOTTED: 2024/08/13 10:30 AM BY: JAW PROJECT STATUS: N/A

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

1. 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 |
|-----|---------|----------------------|-----|
| 1. | 2/21/25 | PEER REVIEW COMMENTS | BCO |

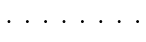


PROJECT: 19-152
DATE: DECEMBER 18, 2024
DRAWING SCALE: 1"= 40'
DRAWN BY: OMR
APPROVED BY: BCO

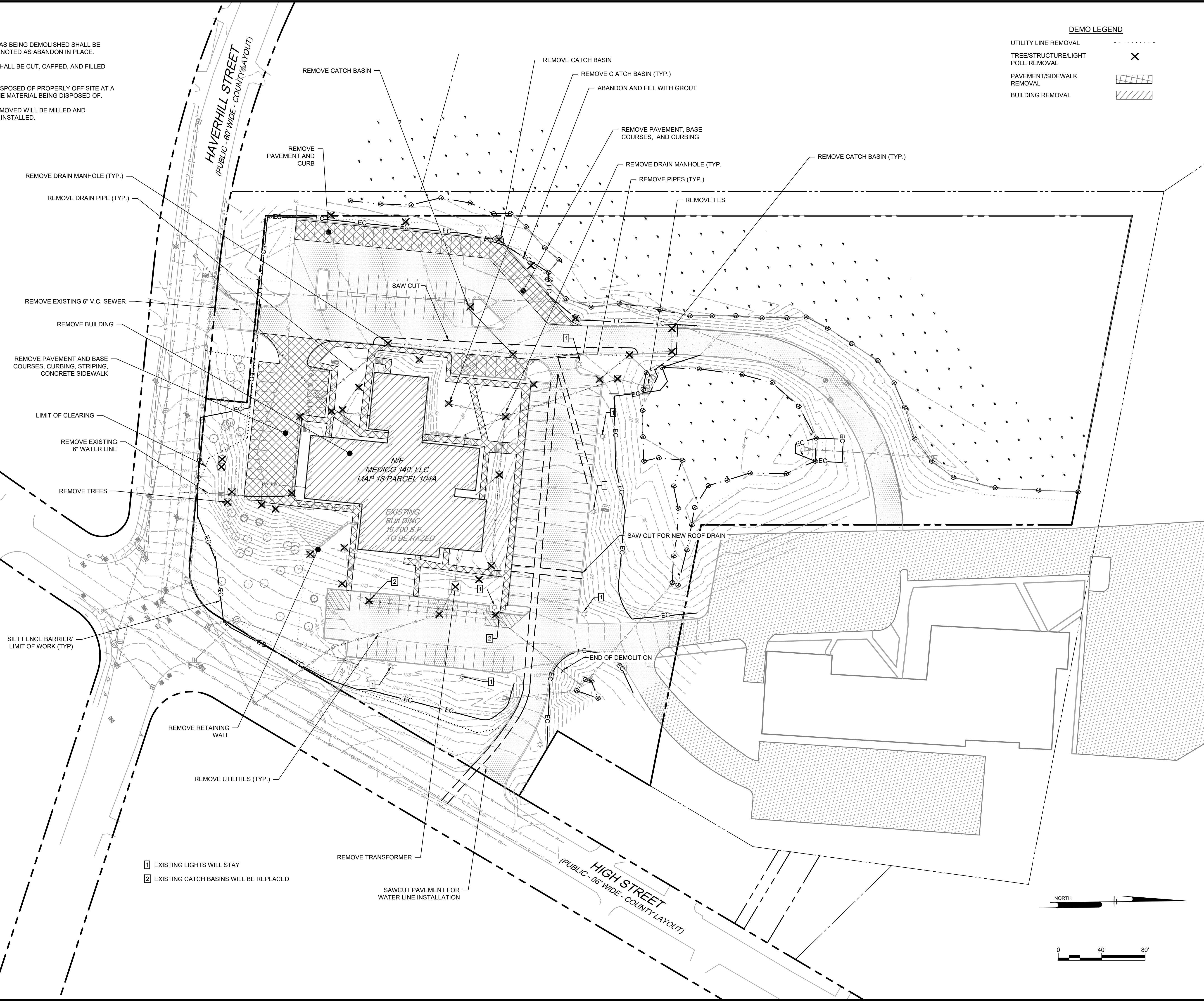
CS0202
SHEET 4 OF 19

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 



REMOVE DRAIN MANHOLE (TYP.)
REMOVE DRAIN PIPE (TYP.)

REMOVE EXISTING 6" V.C. SEWER
REMOVE BUILDING

REMOVE PAVEMENT AND BASE COURSES, CURBING, STRIPING, CONCRETE SIDEWALK

LIMIT OF CLEARING
REMOVE EXISTING 6" WATER LINE

REMOVE TREES

SILT FENCE BARRIER/
LIMIT OF WORK (TYP.)

REMOVE RETAINING WALL
REMOVE UTILITIES (TYP.)

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

REMOVE TRANSFORMER
SAWCUT PAVEMENT FOR WATER LINE INSTALLATION

REMOVE CATCH BASIN
REMOVE CATCH BASIN (TYP.)
ABANDON AND FILL WITH GROUT

REMOVE PAVEMENT, BASE COURSES, AND CURBING
REMOVE DRAIN MANHOLE (TYP.)
REMOVE PIPES (TYP.)
REMOVE FES

REMOVE CATCH BASIN (TYP.)

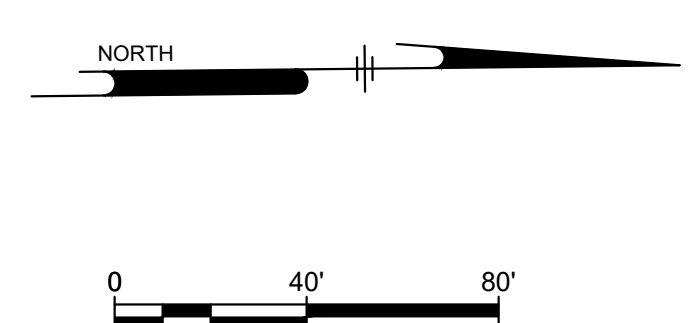
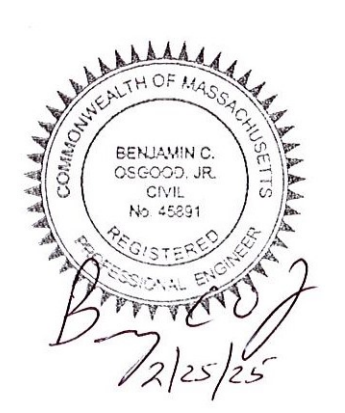
SAWCUT FOR NEW ROOF DRAIN

END OF DEMOLITION

HAVERHILL STREET
(PUBLIC - 60' WIDE - COUNTY LAYOUT)

HIGH STREET
(PUBLIC - 66' WIDE - COUNTY LAYOUT)

N/F
MEDICO 140, LLC
MAP 18 PARCEL 104A
EXISTING BUILDING
16,700 S.F.
TO BE RAZED



Ranger Engineering Group, Inc.
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SITE PLAN
140 HAVERHILL STREET
ANDOVER MA, 01810

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

| NO. | DATE | REVISIONS | BY |
|-----|---------|----------------------|-----|
| 1. | 2/21/25 | PEER REVIEW COMMENTS | BCO |

PROJECT 19-152
DATE DECEMBER 18, 2024
DRAWING SCALE 1"= 40'
DRAWN BY OMR
APPROVED BY BCO

CS0501
SHEET 5 OF 19

Z:\PROJECTS\CHC CHANNEL BUILDING\142 Dotted and Annotations\CORRESPONDENCE\CS0501.dwg PLOTTED: 2/23/25 12:38 PM BY: JAC BOSTYLE TITEN, NSJ:AB PROJECT STATUS: ---

| 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:

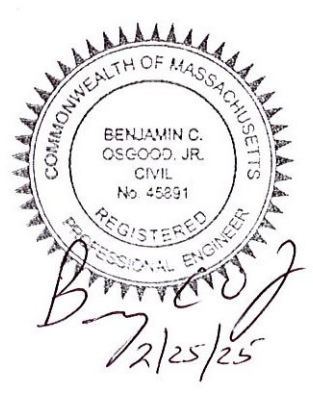
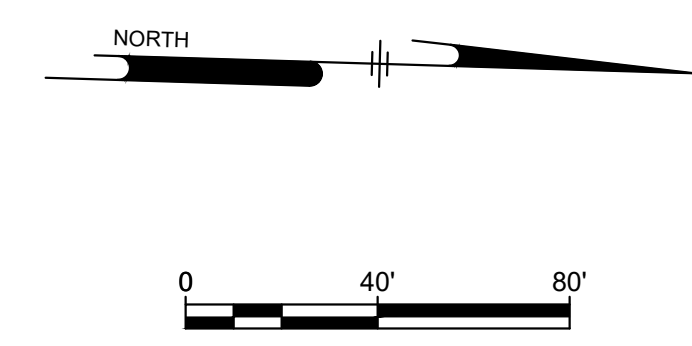
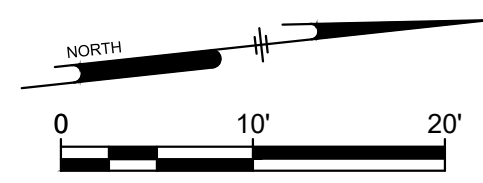
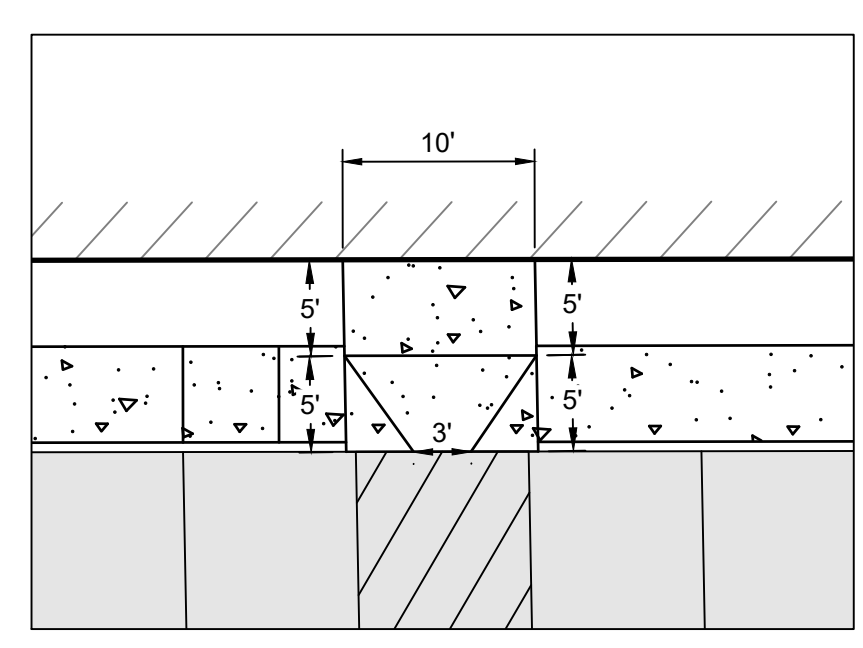
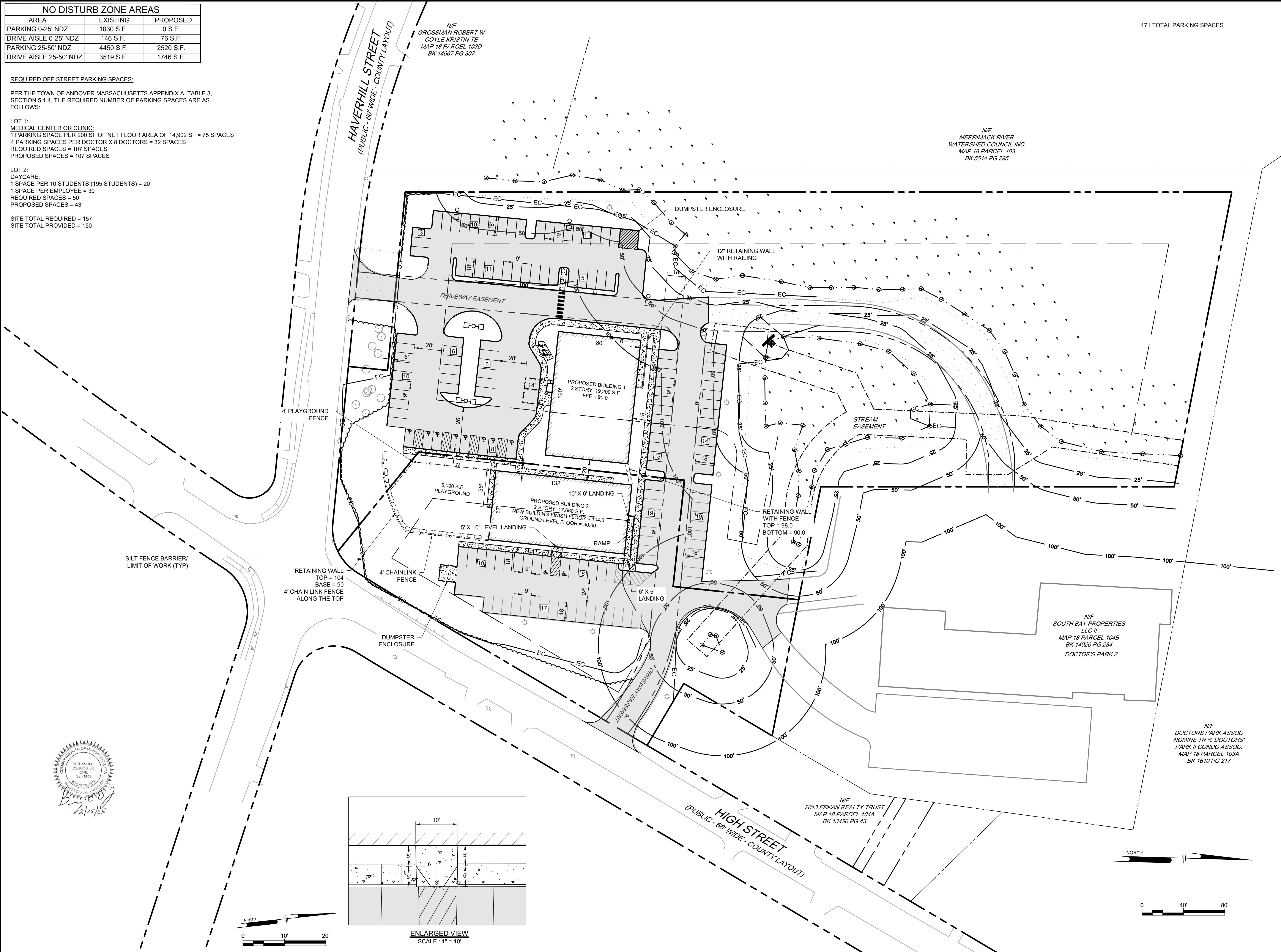
PER THE TOWN OF ANDOVER MASSACHUSETTS APPENDIX A, TABLE 3, SECTION 5.1.4, THE REQUIRED NUMBER OF PARKING SPACES ARE AS FOLLOWS:

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 = 43

SITE TOTAL REQUIRED = 157
 SITE TOTAL PROVIDED = 150

171 TOTAL PARKING SPACES



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

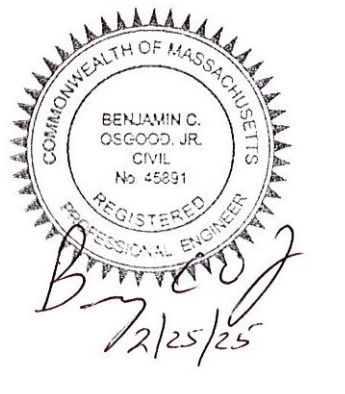
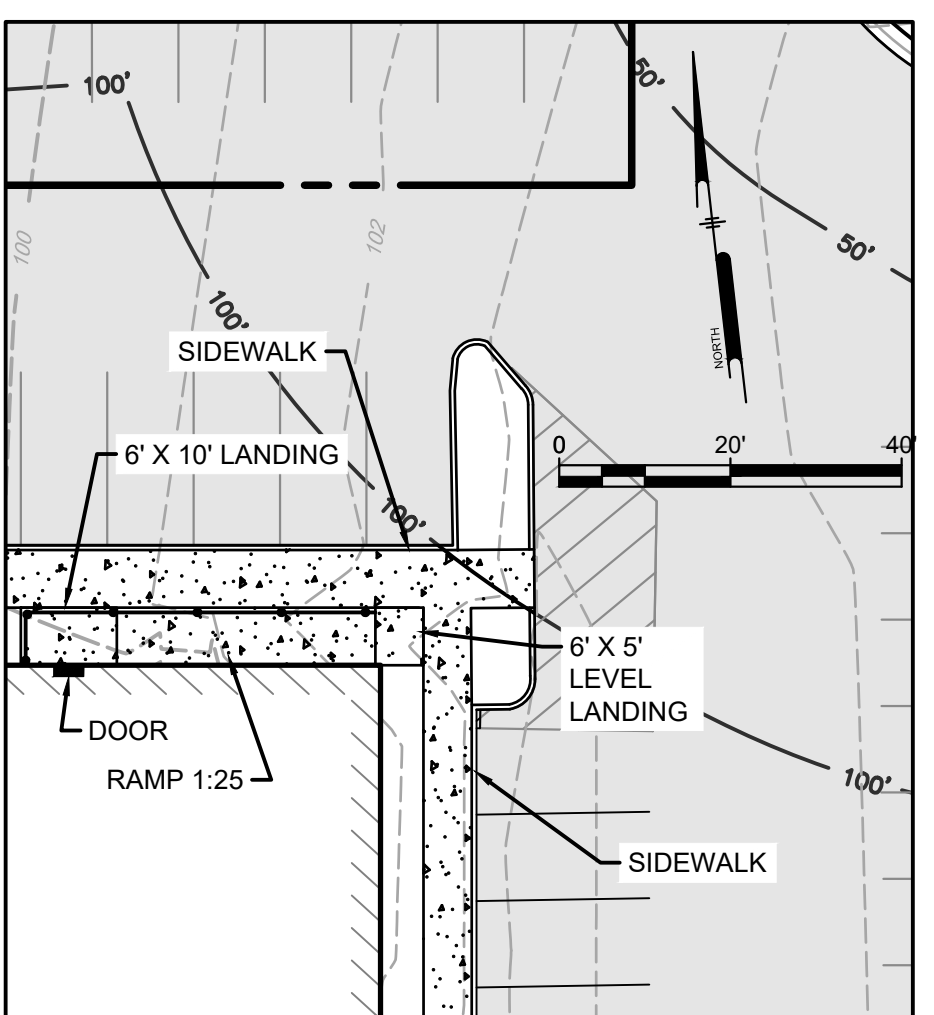
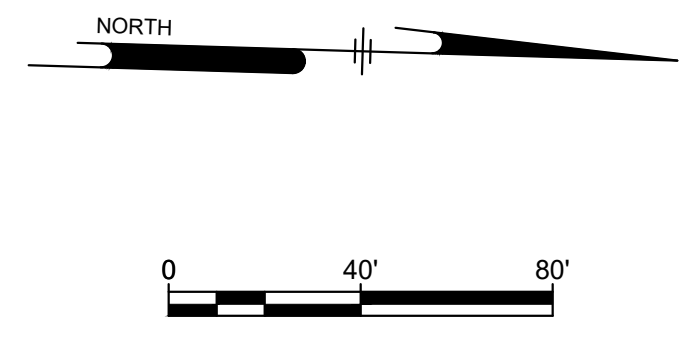
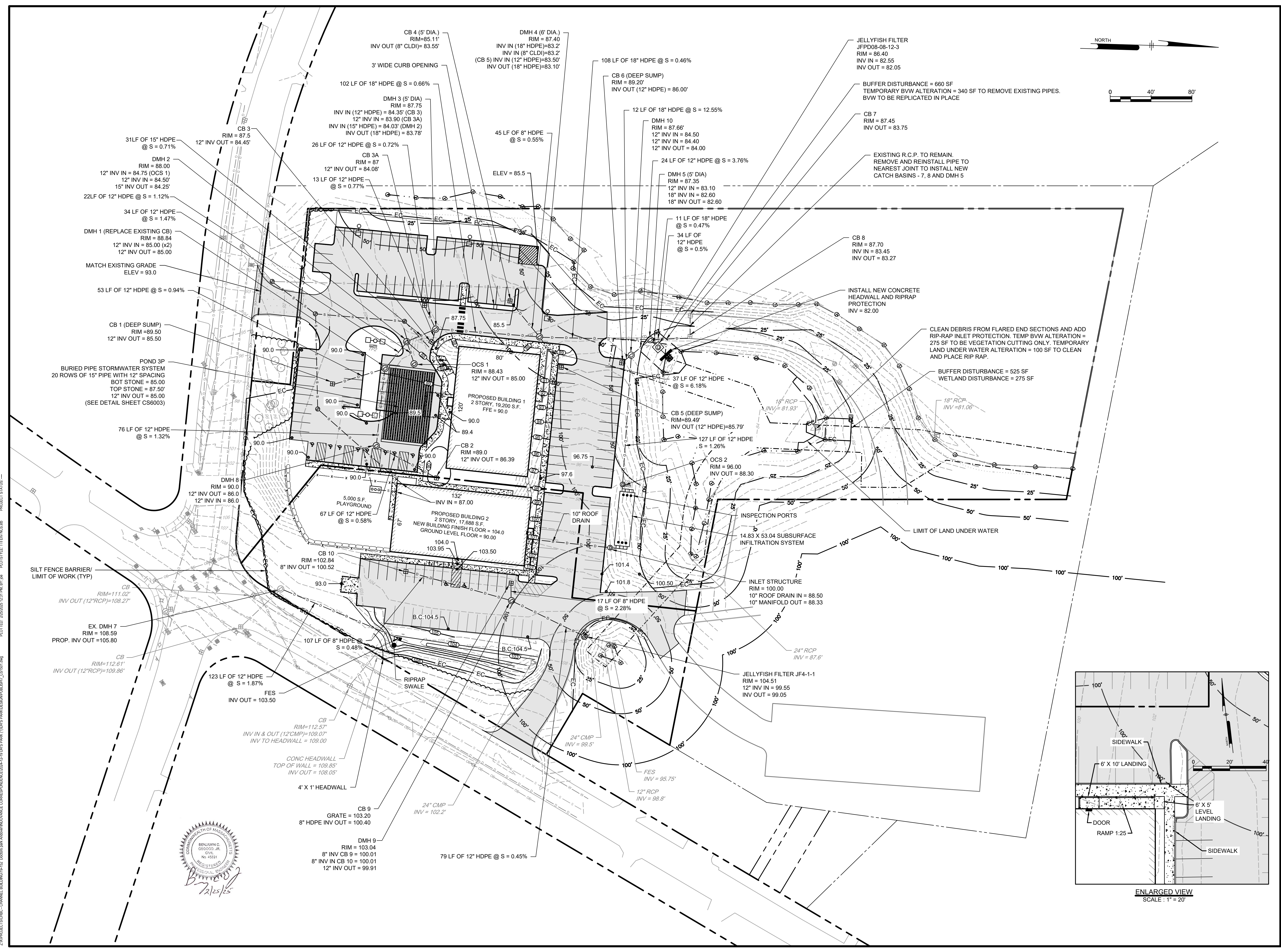
SITE PLAN
 140 HAVERHILL STREET
 ANDOVER MA, 01810

LAYOUT AND MATERIALS PLAN
 MEDICO 140, LLC
 355 MIDDLESEX AVE SUITE 7
 WILMINGTON, MA 01887

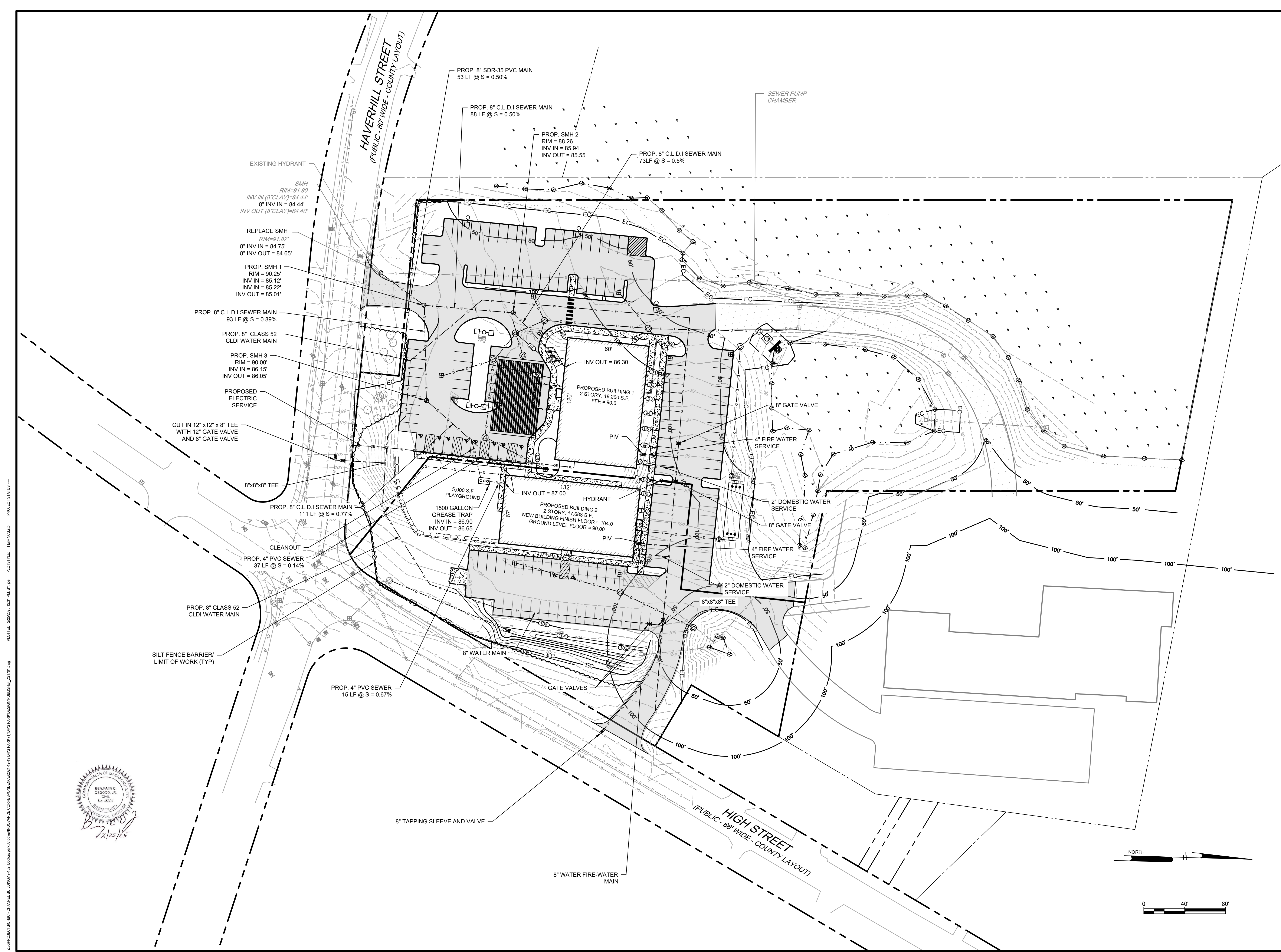
| DATE | NO. | REVISIONS | BY |
|---------|-----|----------------------|-----|
| 2/21/25 | 1. | PEER REVIEW COMMENTS | BCO |

PROJECT: 19-152
 DATE: DECEMBER 18, 2024
 DRAWING SCALE: 1" = 40'
 DRAWN BY: OMR
 APPROVED BY: BCO

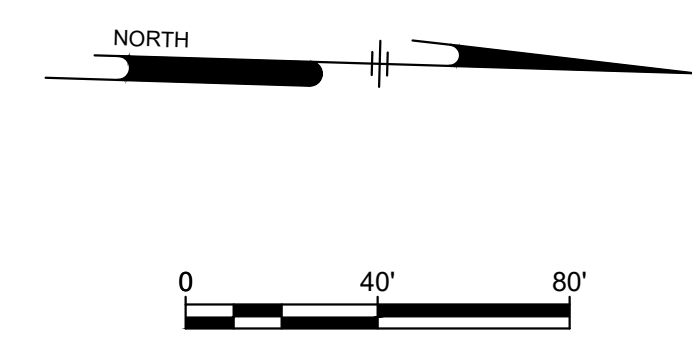
CS1001
 SHEET 6 OF 19



| NO. | DATE | REVISIONS | BY |
|-----|---------|----------------------|-----|
| 1. | 2/21/25 | PEER REVIEW COMMENTS | BCO |



Z:\PROJECTS\CHC - CHANNEL BUILDING\142 - DOWNSIDE AND ADJACENT DRAINAGE CORRESPONDENCE\19-152 - DREW PARK (100'S AND 200'S)\BIBLISHA_CS1701.dwg
 PLOTTED: 2024/08/13 11:31 AM BY: JAH
 E:\DSTYLE\TITEN.NCS
 PROJECT STATUS:



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

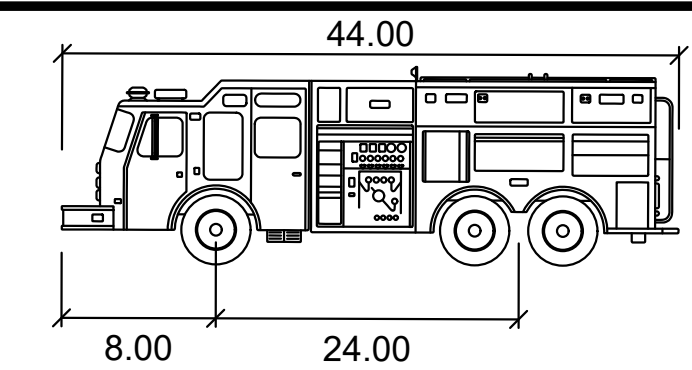
UTILITY PLAN
 MEDICO 140, LLC
 355 MIDDLESEX AVE SUITE 7
 WILMINGTON, MA 01887

| NO. | DATE | REVISIONS | BY |
|-----|---------|----------------------|-----|
| 1. | 2/21/25 | PEER REVIEW COMMENTS | BCO |

PROJECT: 19-152
 DATE: DECEMBER 18, 2024
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 DRAWN BY: OMR
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CS1701
 SHEET 8 OF 19

Town of Andover, Massachusetts
 Fire Truck Turning Radius
 Scale 1 inch = 40 feet

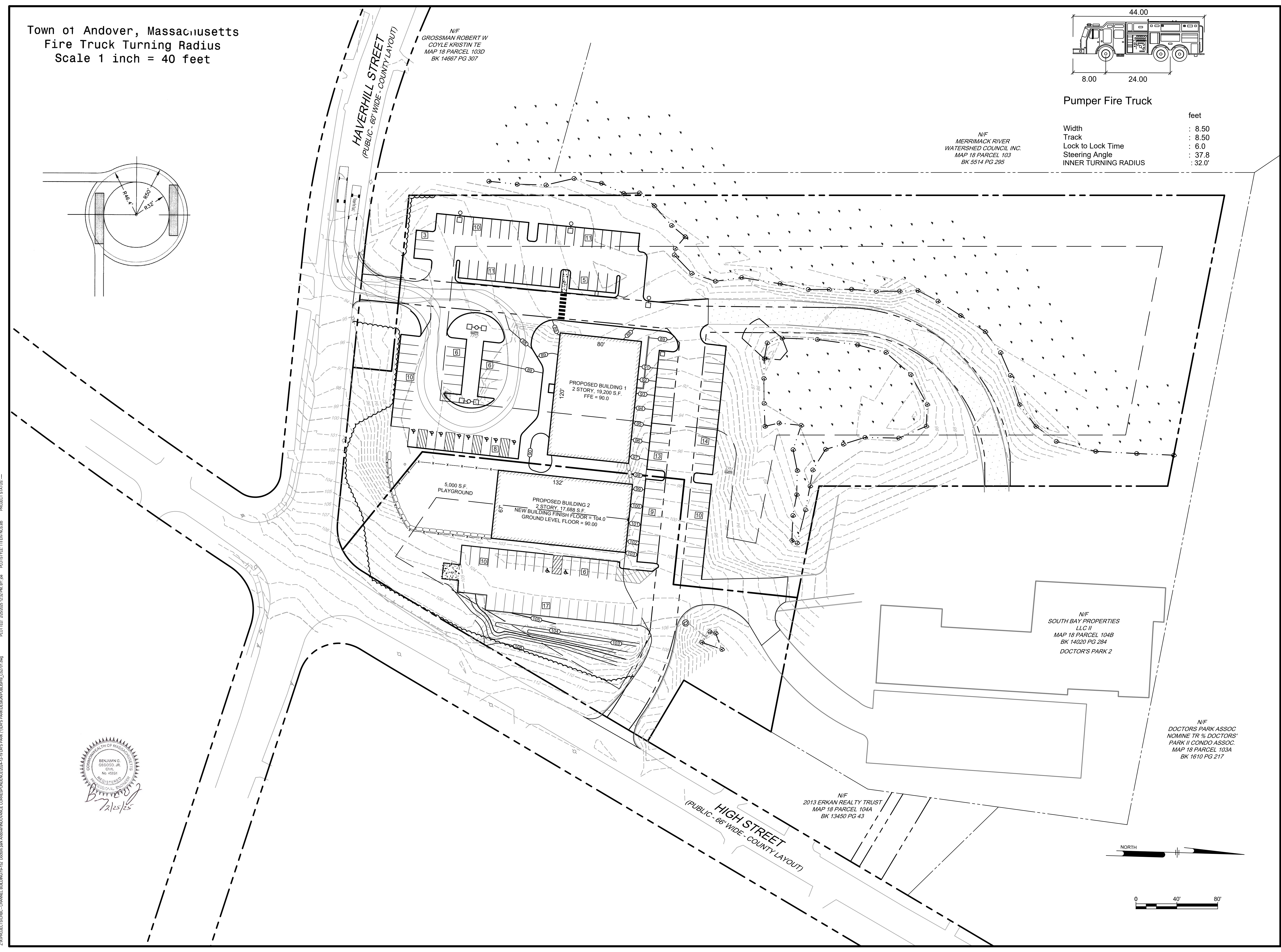
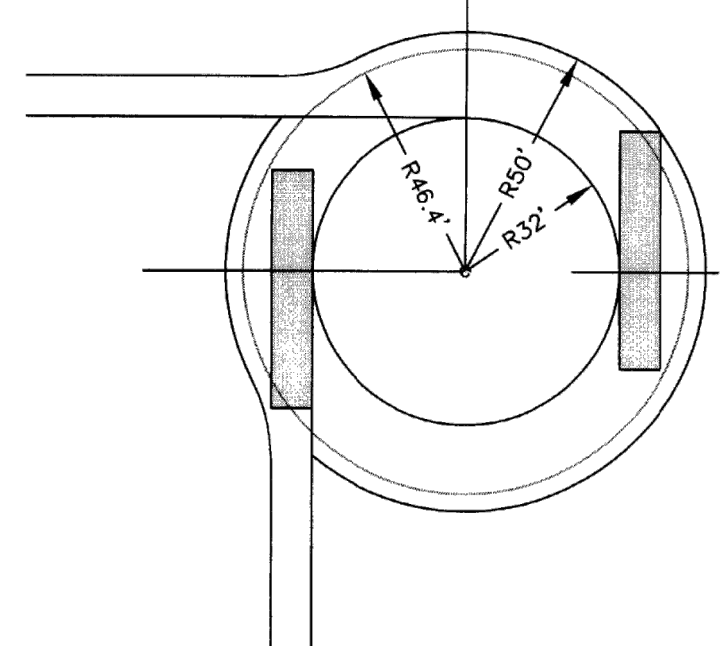


Pumper Fire Truck

| | feet |
|----------------------|---------|
| Width | : 8.50 |
| Track | : 8.50 |
| Lock to Lock Time | : 6.0 |
| Steering Angle | : 37.8 |
| INNER TURNING RADIUS | : 32.0' |

N/F
 MERRIMACK RIVER
 WATERSHED COUNCIL INC.
 MAP 18 PARCEL 103
 BK 5514 PG 295

N/F
 GROSSMAN ROBERT W
 COYLE KRISTIN TE
 MAP 18 PARCEL 103D
 BK 14667 PG 307



PROPOSED BUILDING 1
 2 STORY, 19,200 S.F.
 FFE = 90.0

PROPOSED BUILDING 2
 2 STORY, 17,688 S.F.
 NEW BUILDING FINISH FLOOR = 104.0
 GROUND LEVEL FLOOR = 90.00

5,000 S.F.
 PLAYGROUND

N/F
 SOUTH BAY PROPERTIES
 LLC II
 MAP 18 PARCEL 104B
 BK 14020 PG 284
 DOCTOR'S PARK 2

N/F
 DOCTORS PARK ASSOC
 NOMINE TR % DOCTORS'
 PARK II CONDO ASSOC.
 MAP 18 PARCEL 103A
 BK 1610 PG 217

N/F
 2013 ERKAN REALTY TRUST
 MAP 18 PARCEL 104A
 BK 13450 PG 43



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

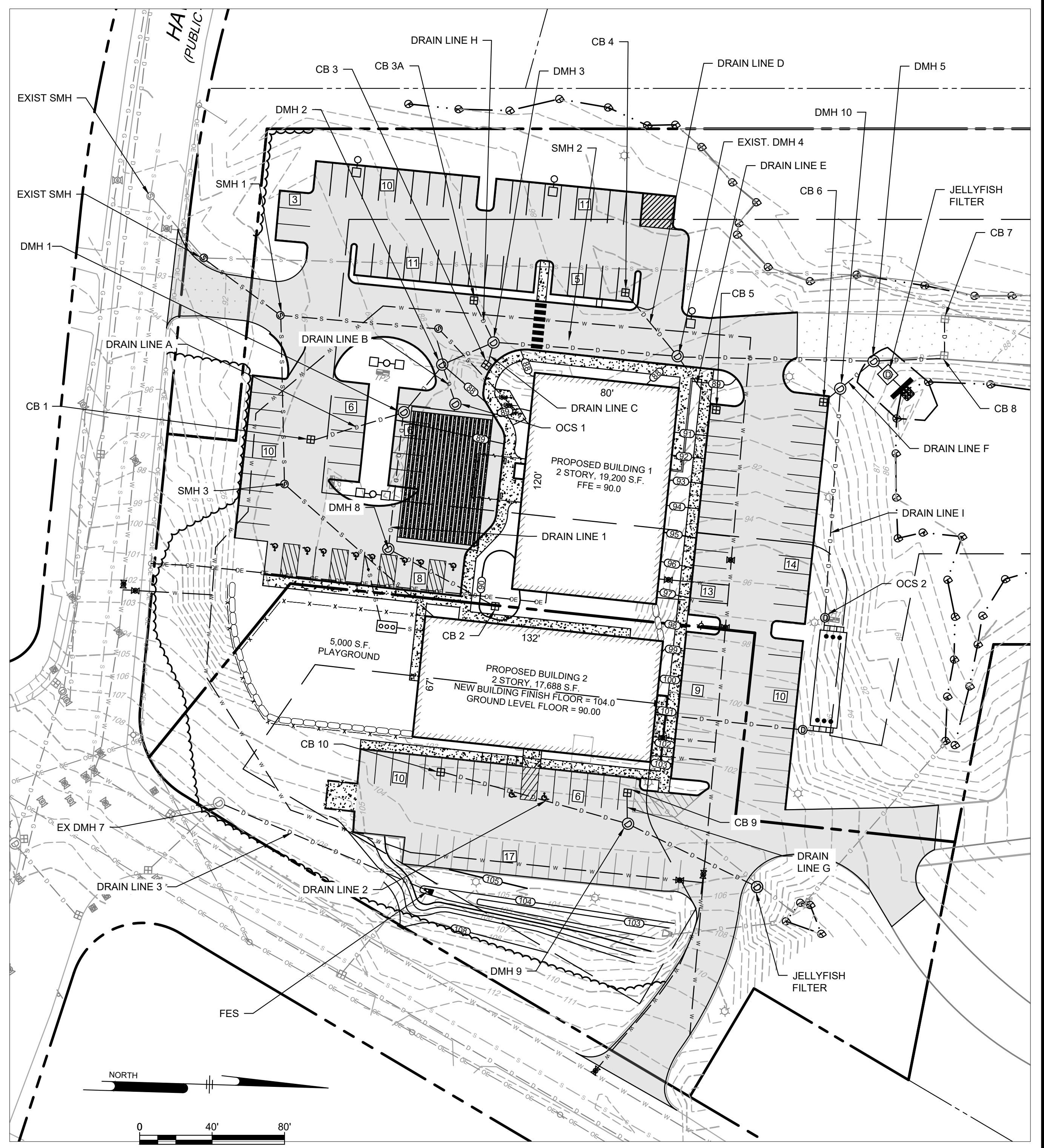
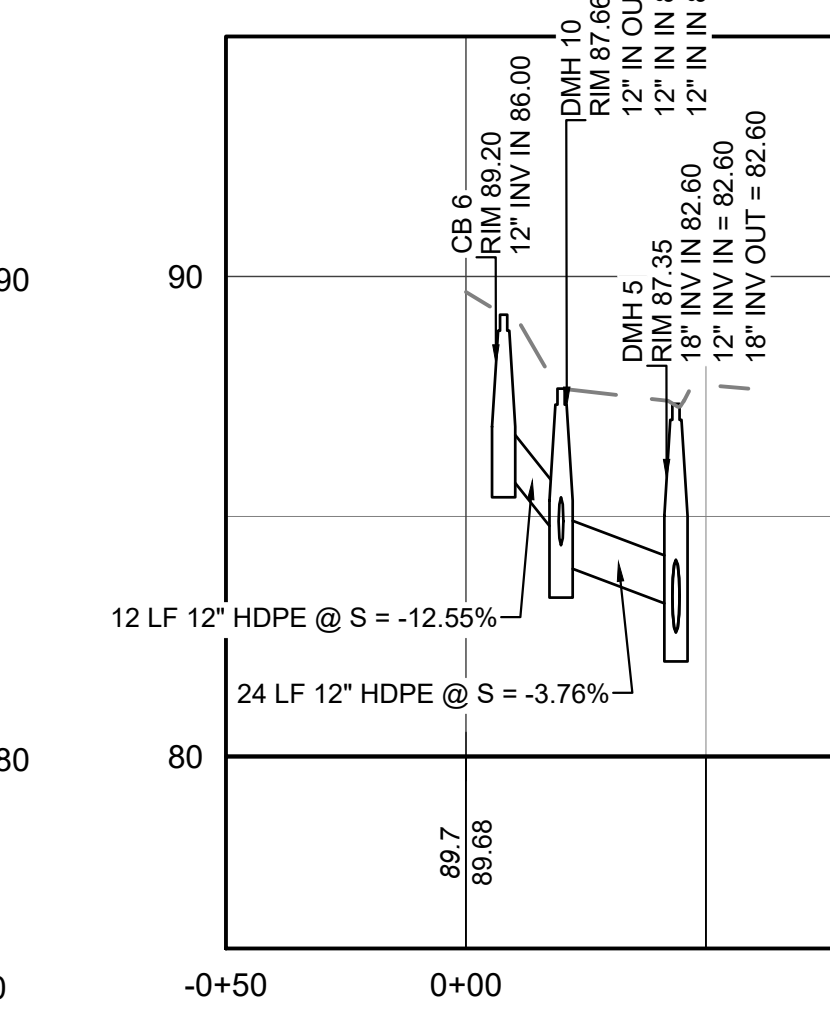
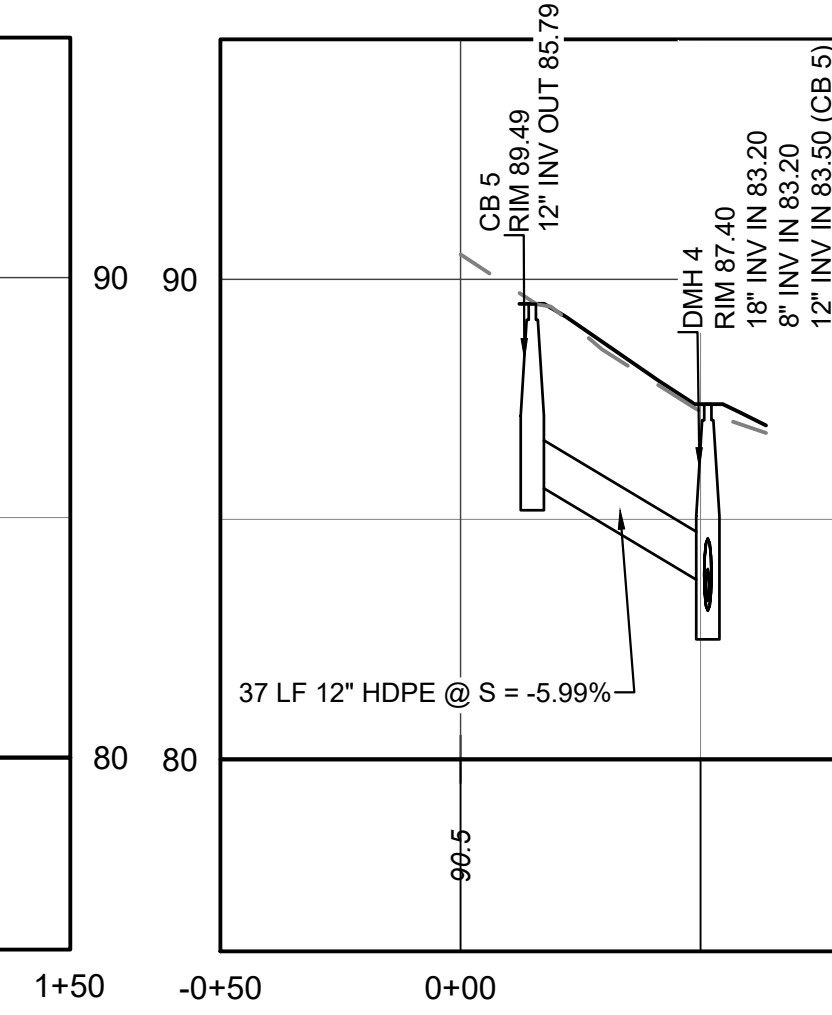
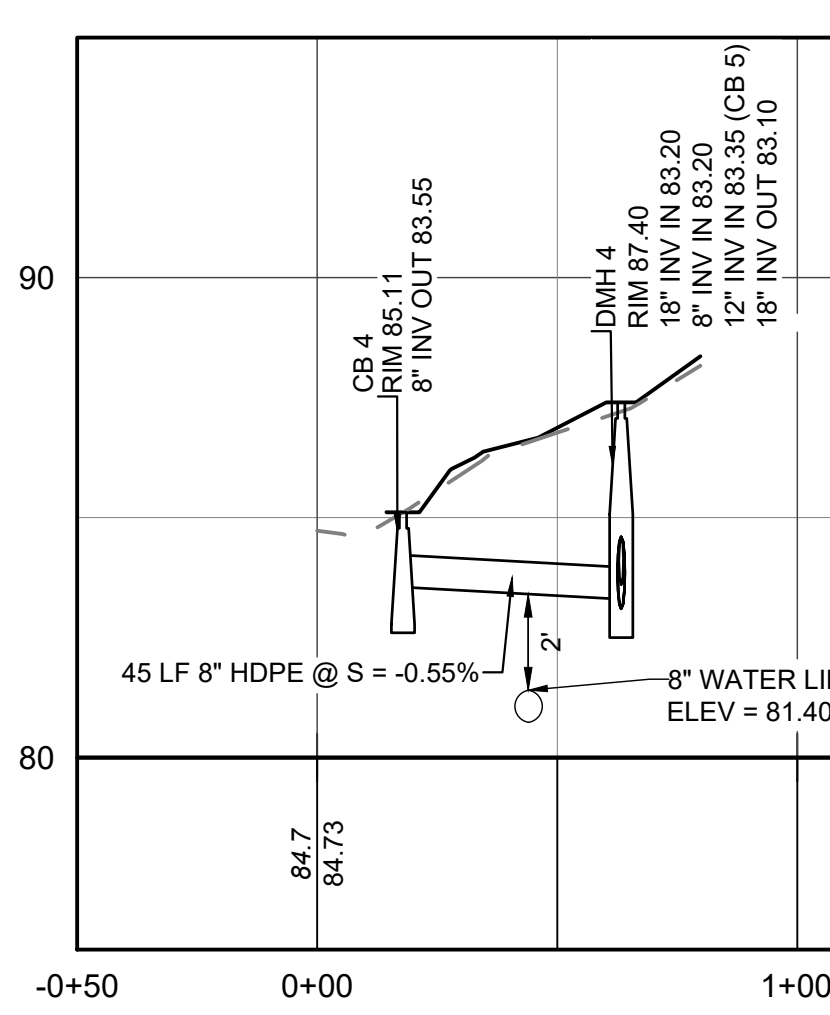
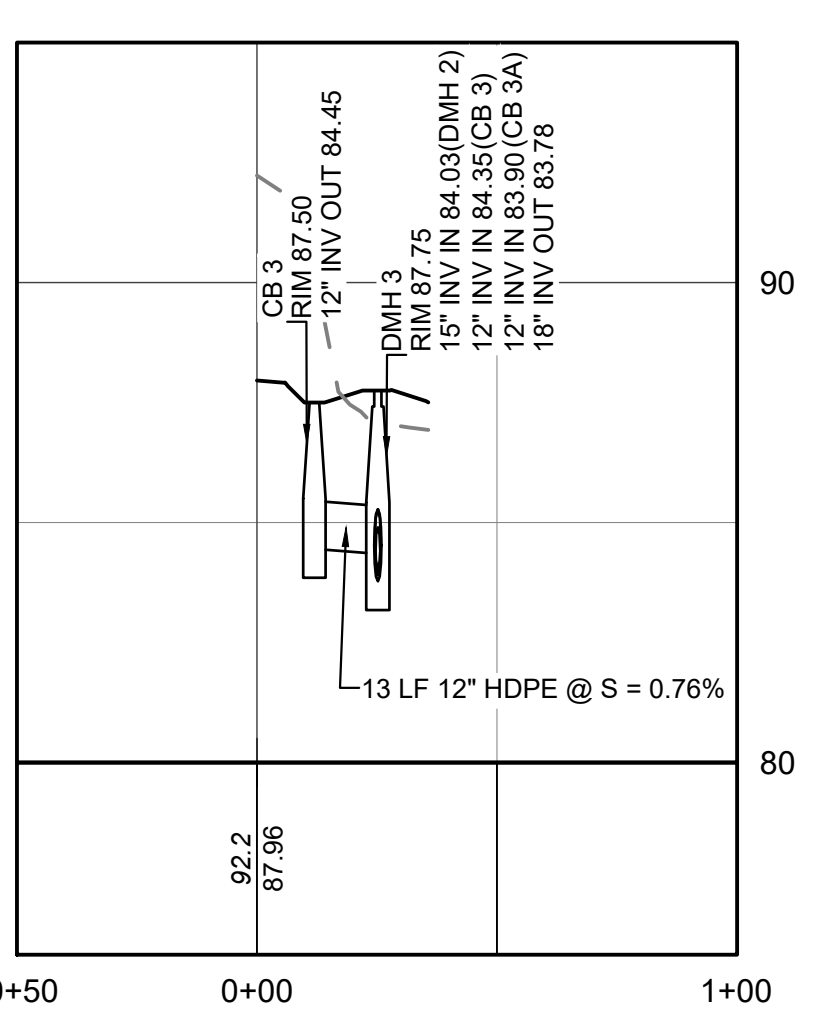
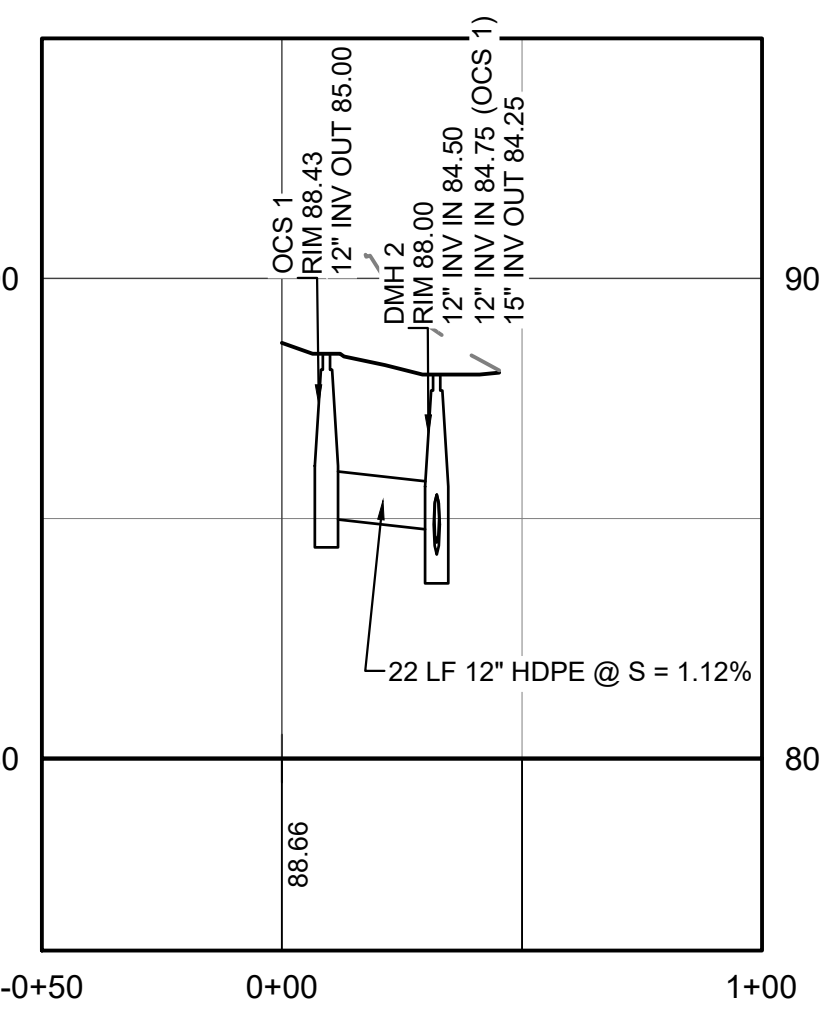
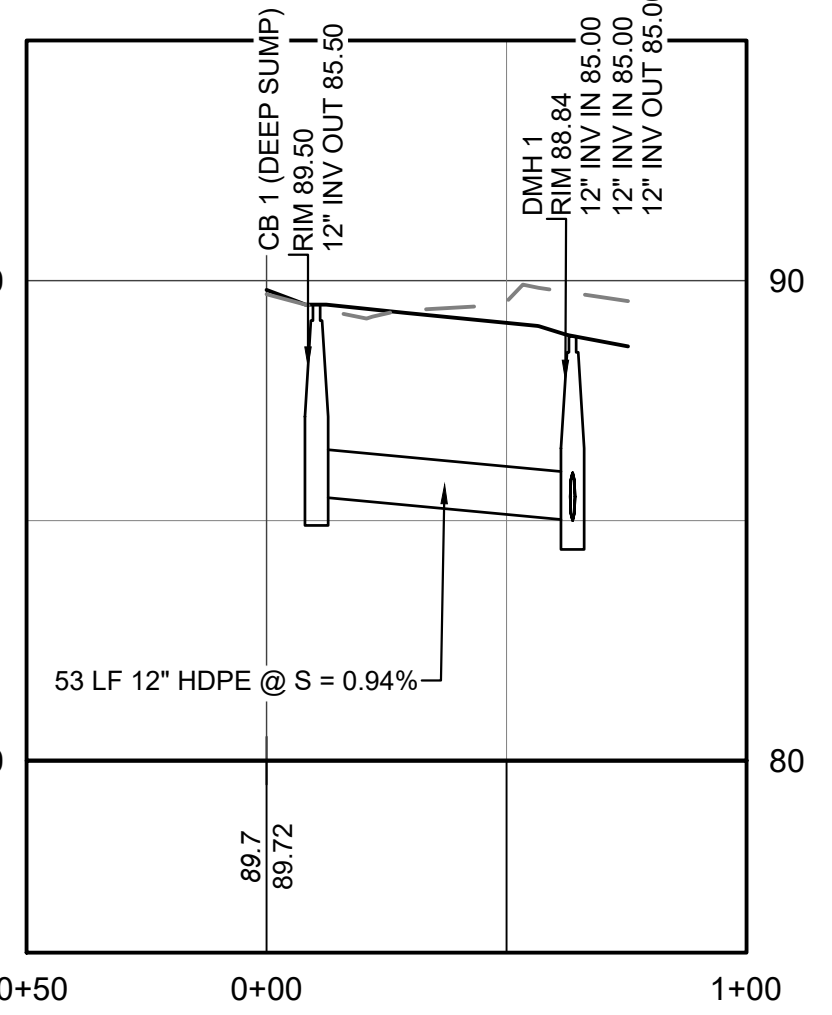
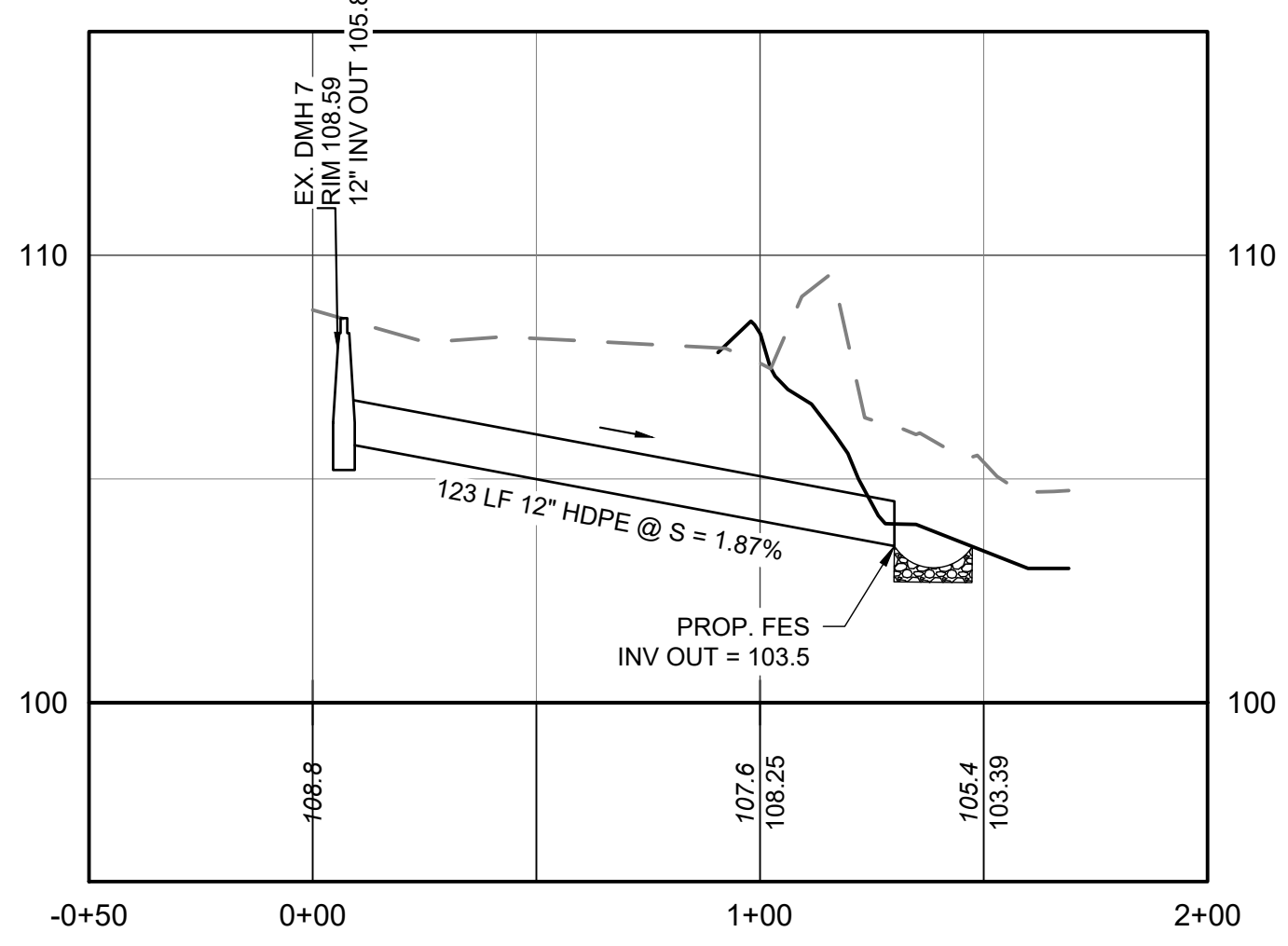
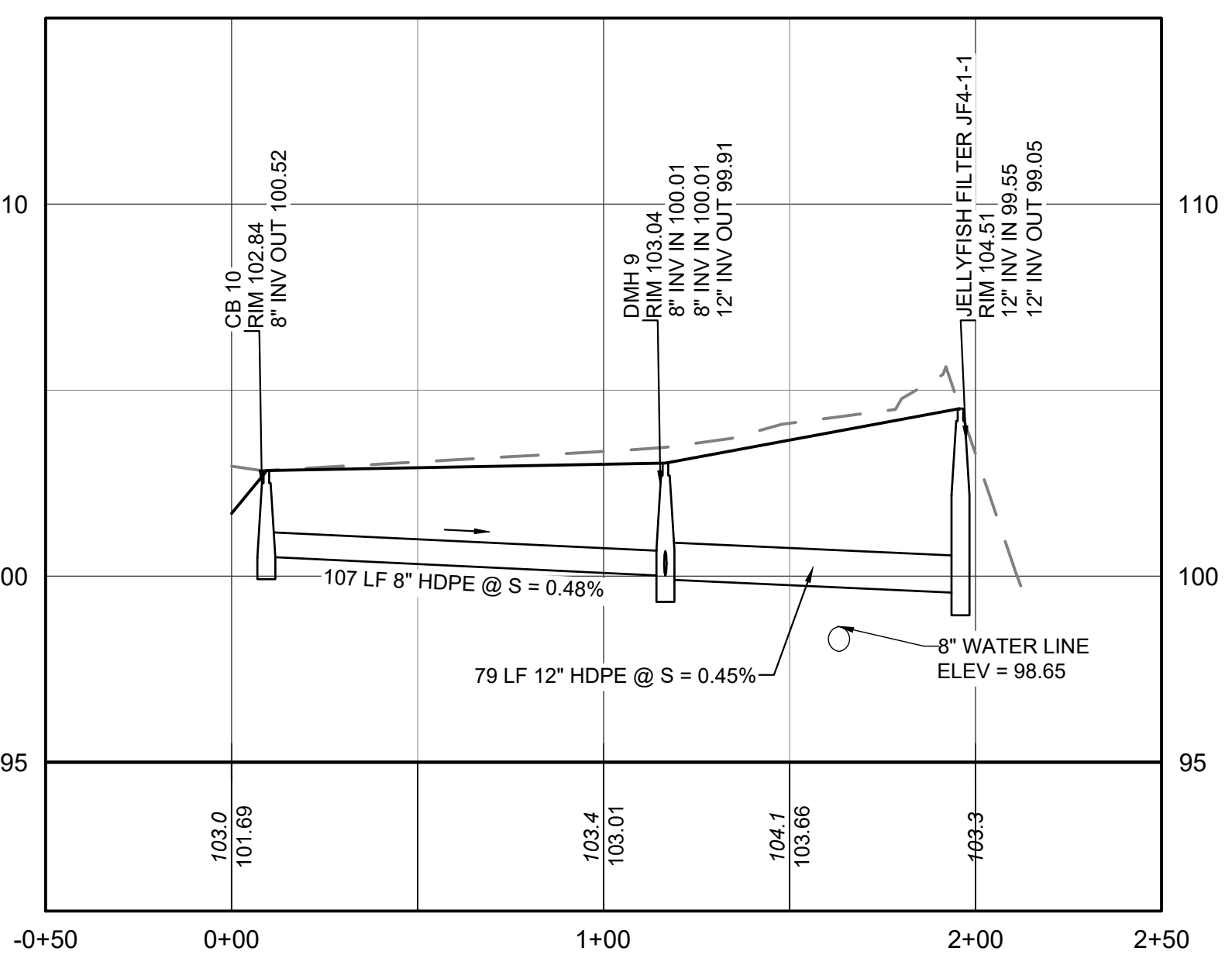
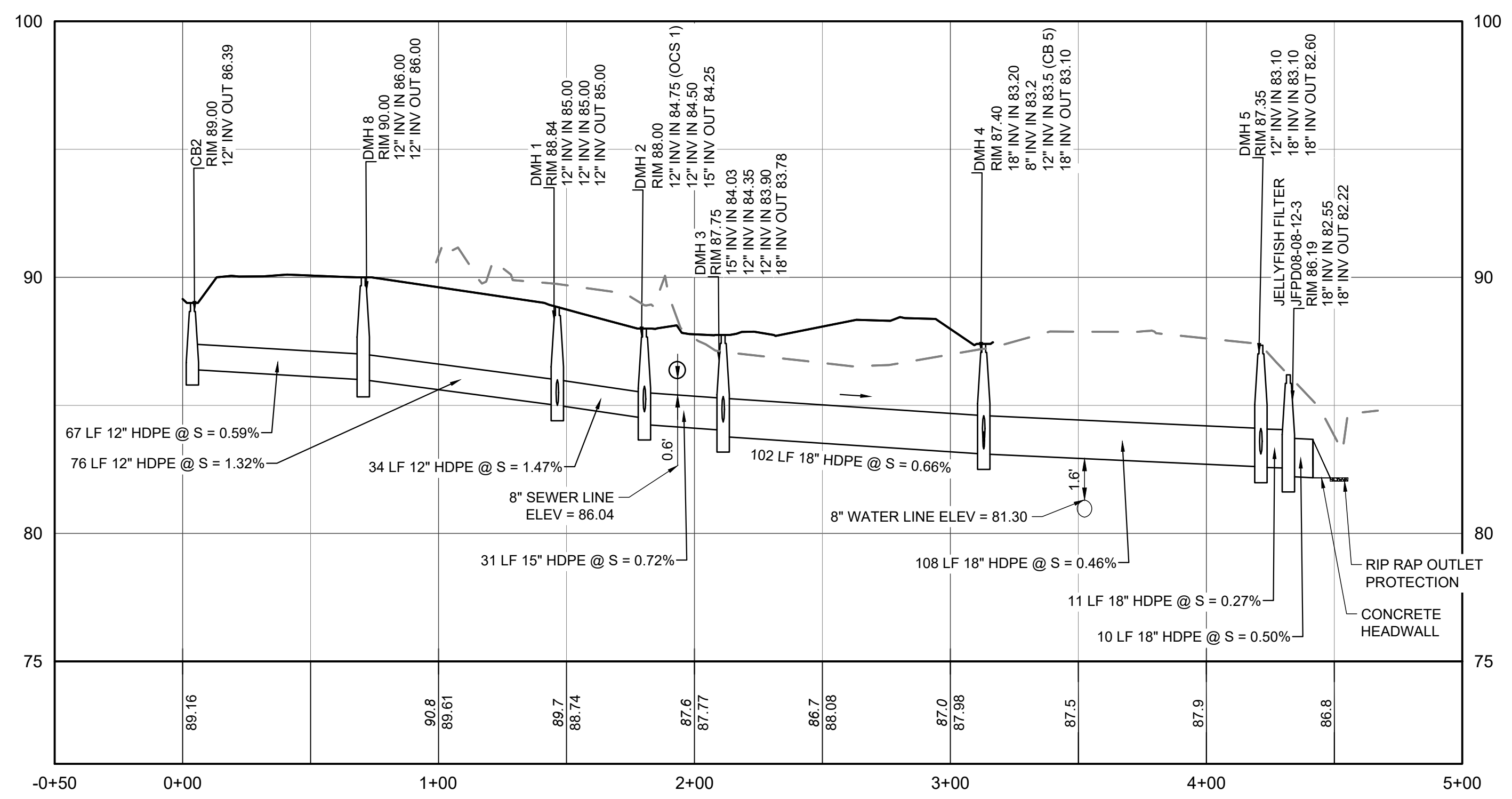
TURNING PLAN

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

| DATE | NO. | REVISIONS | BY |
|---------|-----|----------------------|-----|
| 2/21/25 | 1. | PEER REVIEW COMMENTS | BCO |

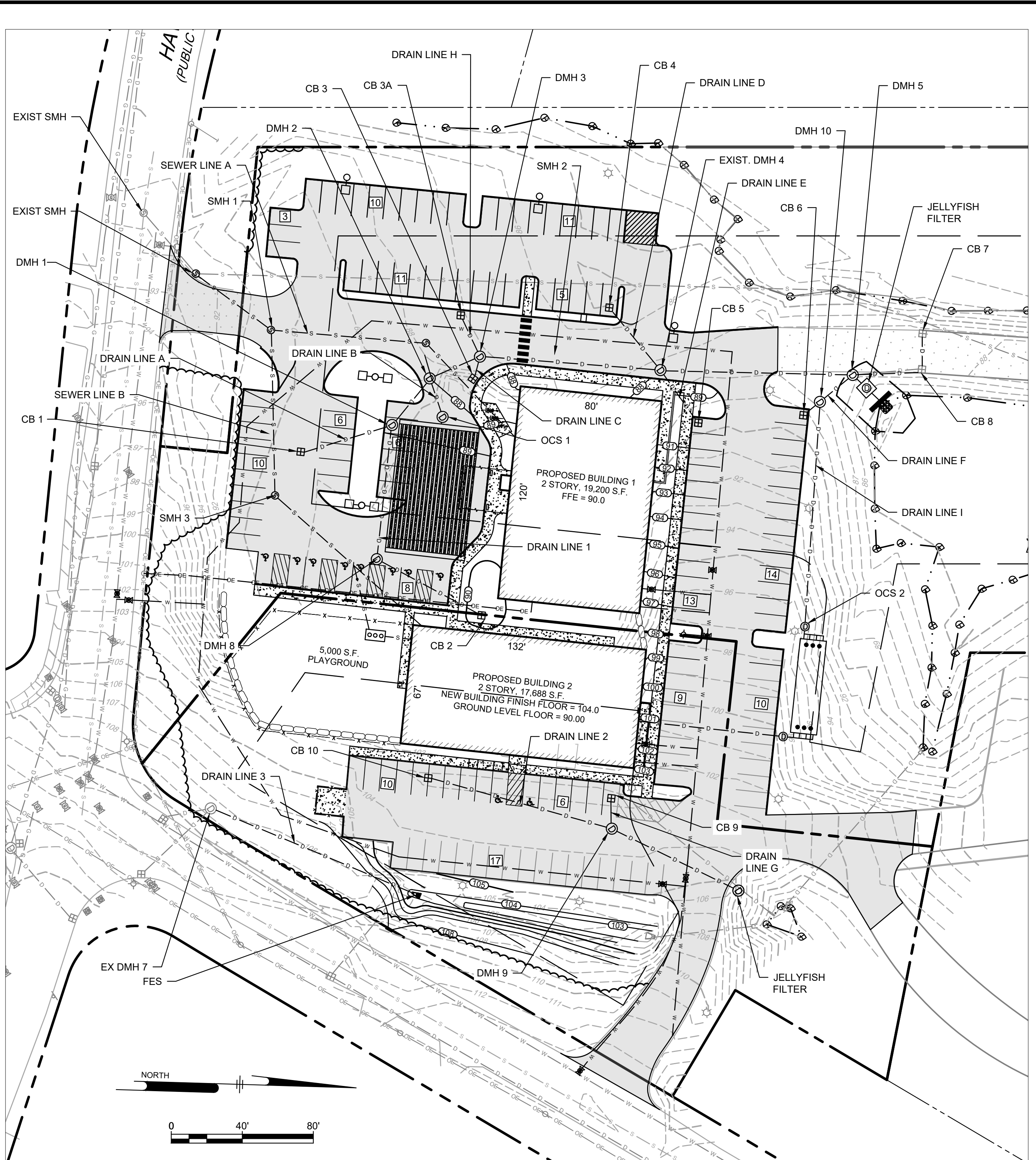
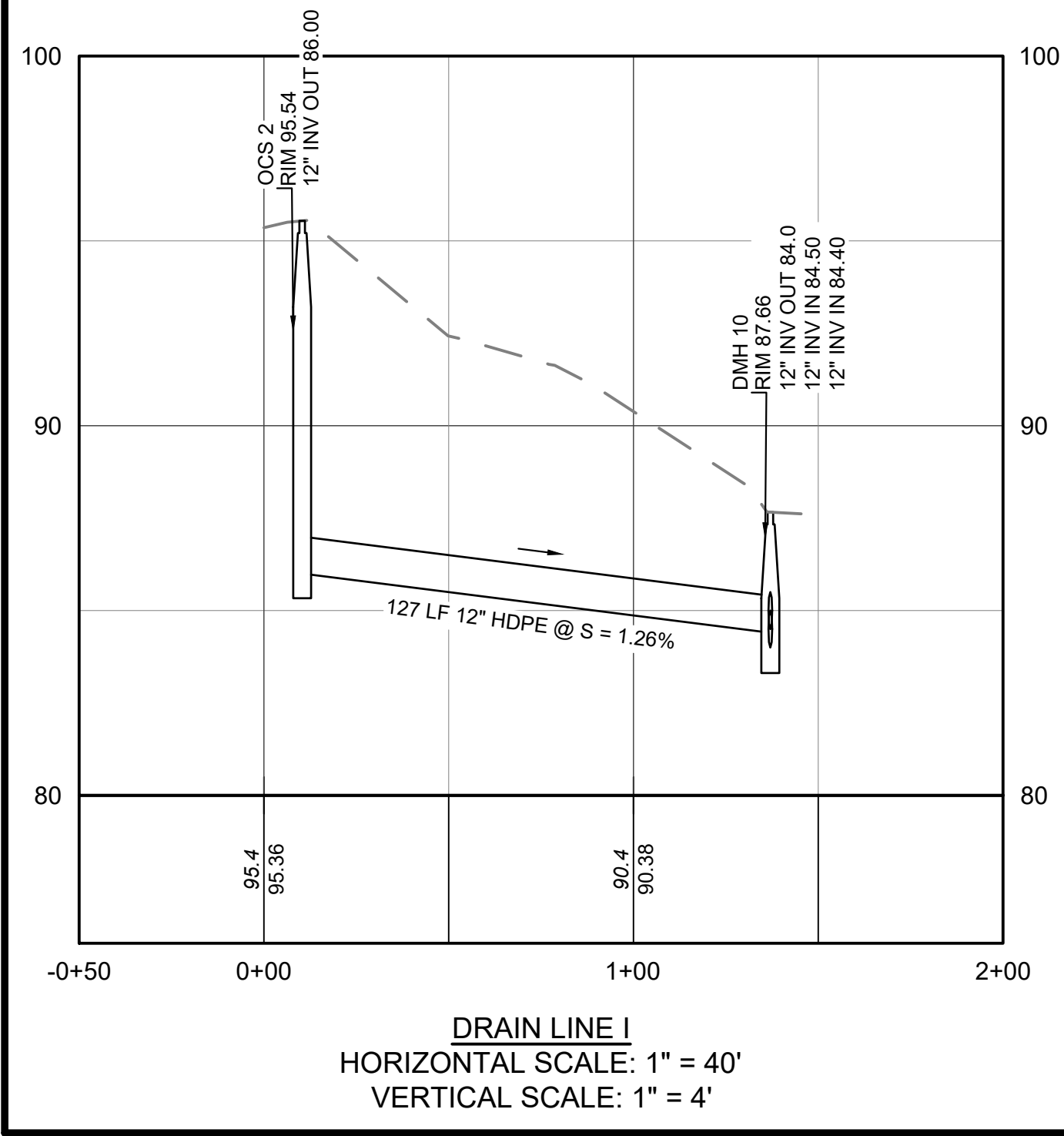
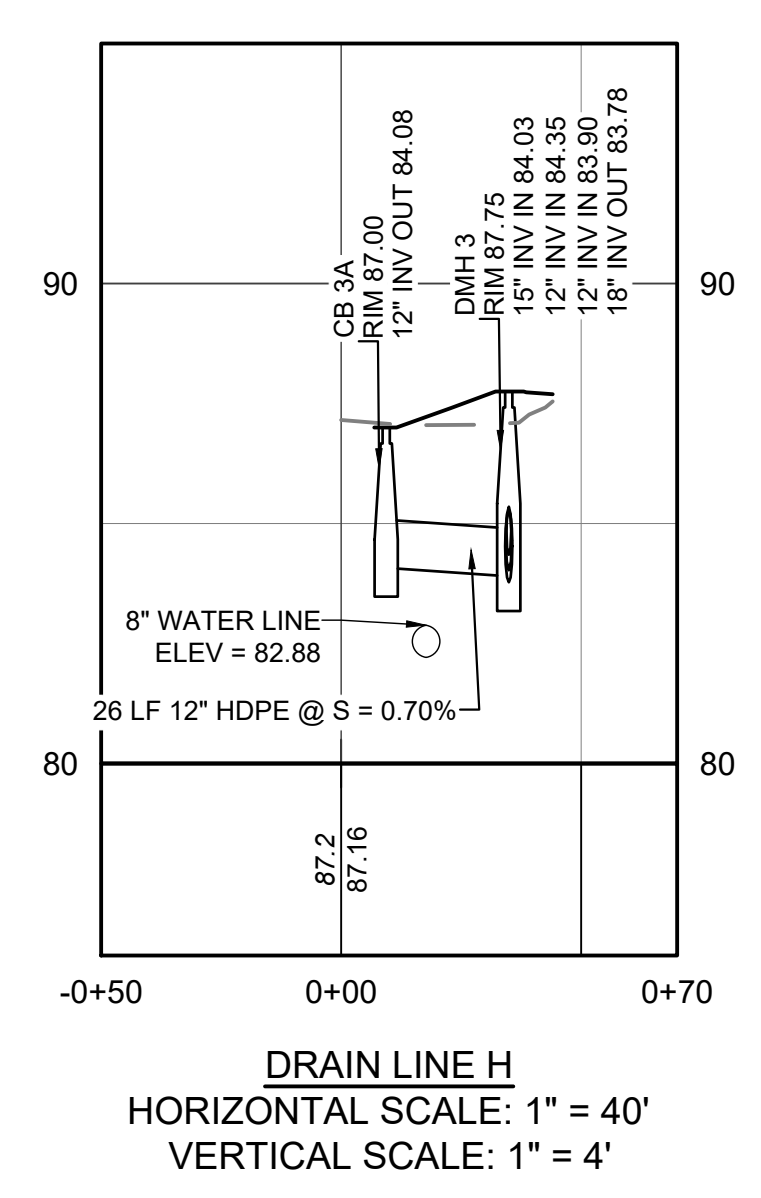
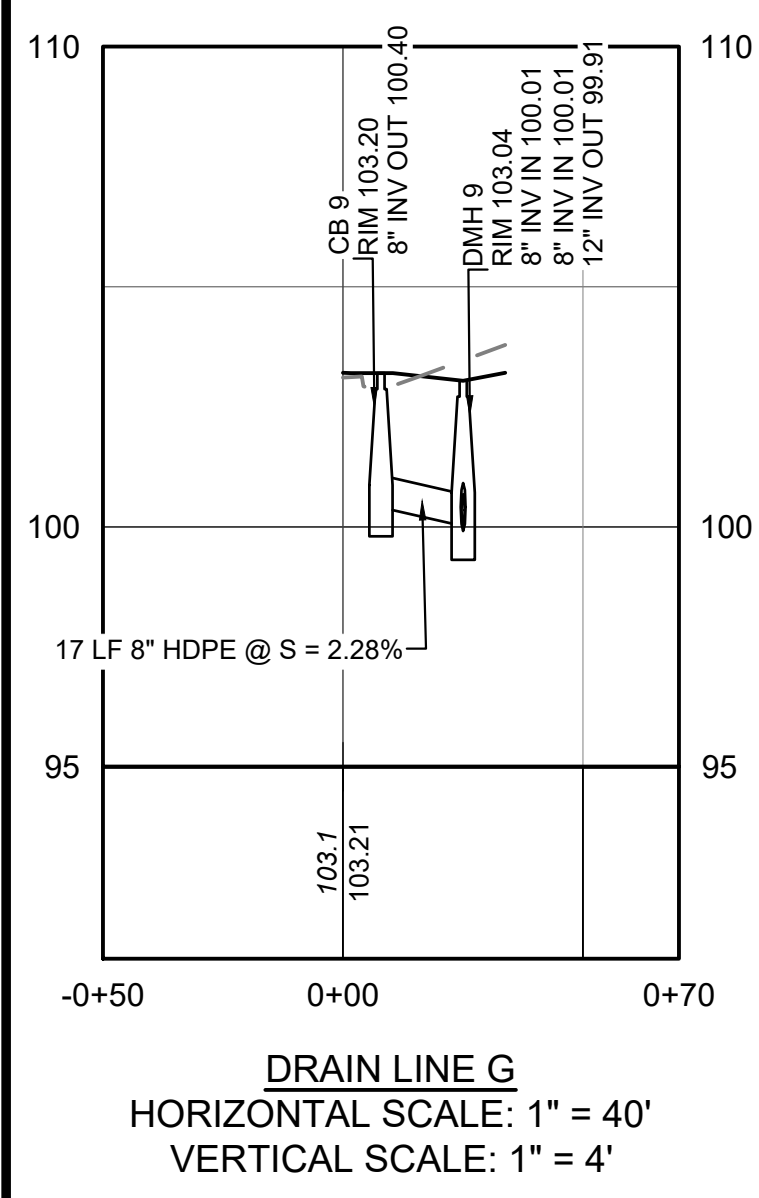
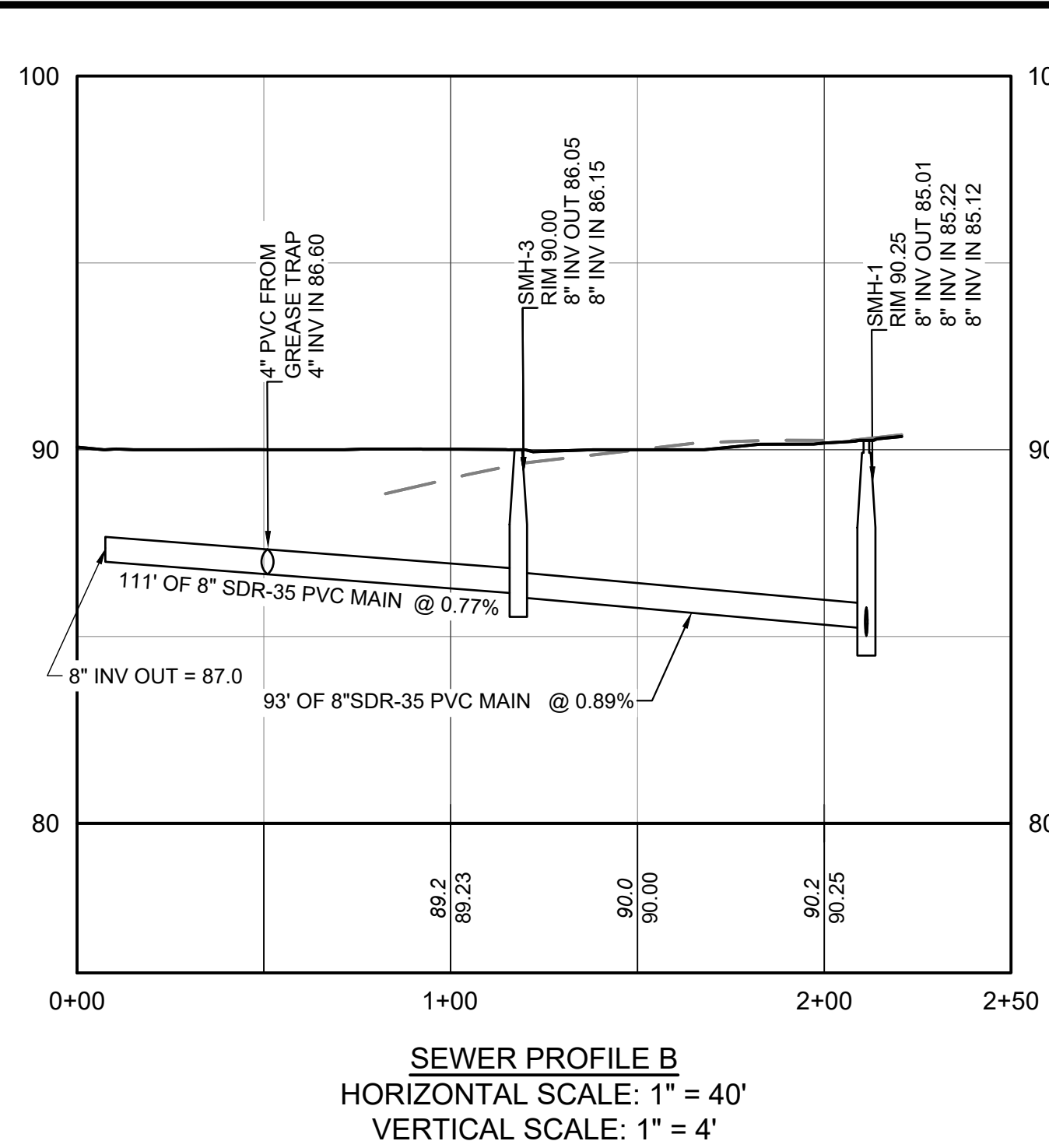
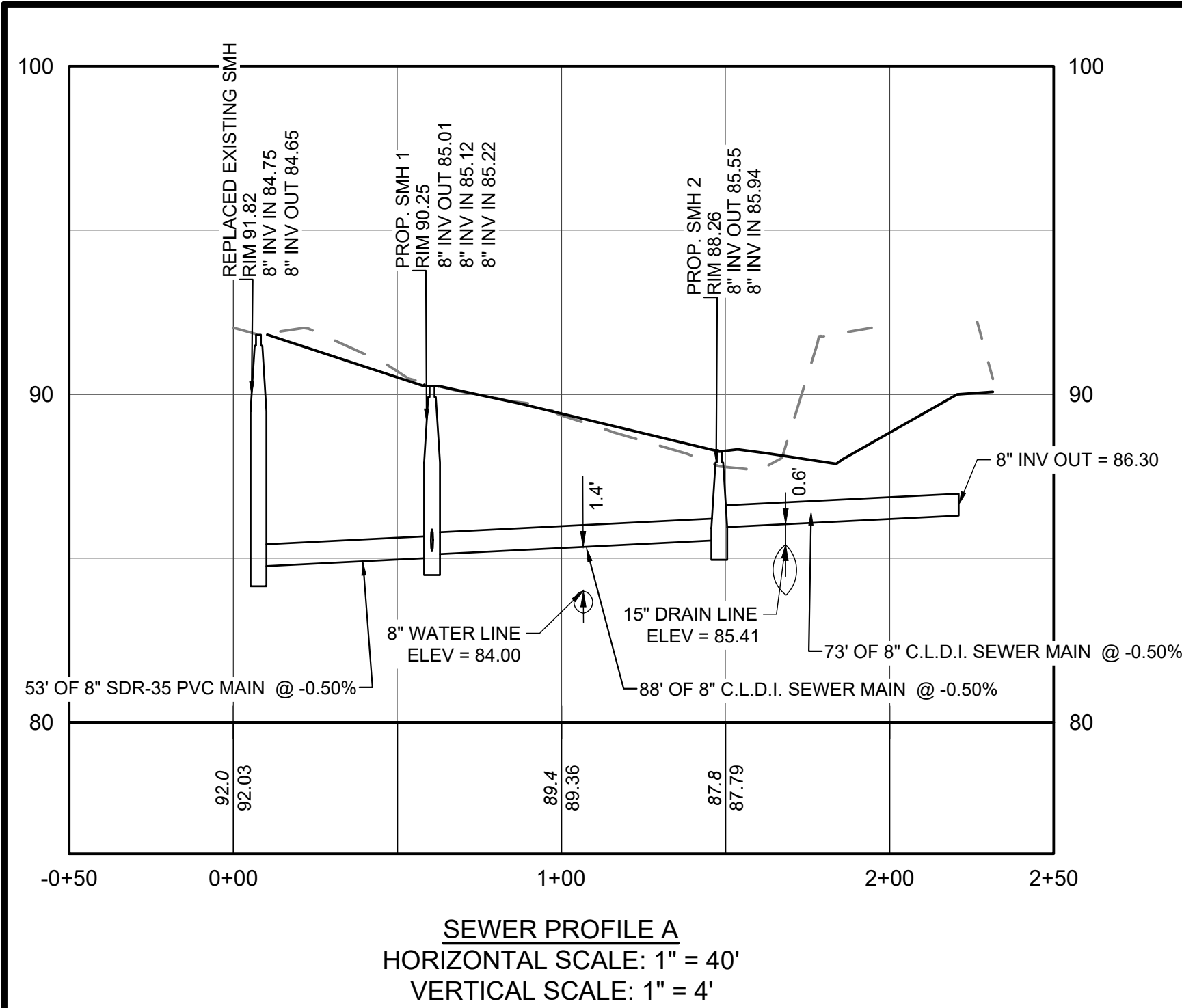
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|---------------|-------------------|
| PROJECT | 19-152 |
| DATE | DECEMBER 18, 2024 |
| DRAWING SCALE | 1" = 40' |
| DRAWN BY | OMR |
| APPROVED BY | BCO |

Z:\PROJECTS\CHC_CHANNEL_BUILDING\140 DOCTORS PARK ANDOVER\DRAWING CORRESPONDENCE\2024\19-152\19-152_P19.DWG PLOTTED: 2/20/25 12:33 PM BY: JMB PROJECT STATUS: B DISTYLE TITEN KES-48



| NO. | DATE | REVISIONS | BY |
|-----|---------|----------------------|-----|
| 1. | 2/21/25 | PEER REVIEW COMMENTS | BCO |

| | |
|---------------|-------------------|
| PROJECT | 19-152 |
| DATE | DECEMBER 18, 2024 |
| 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

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

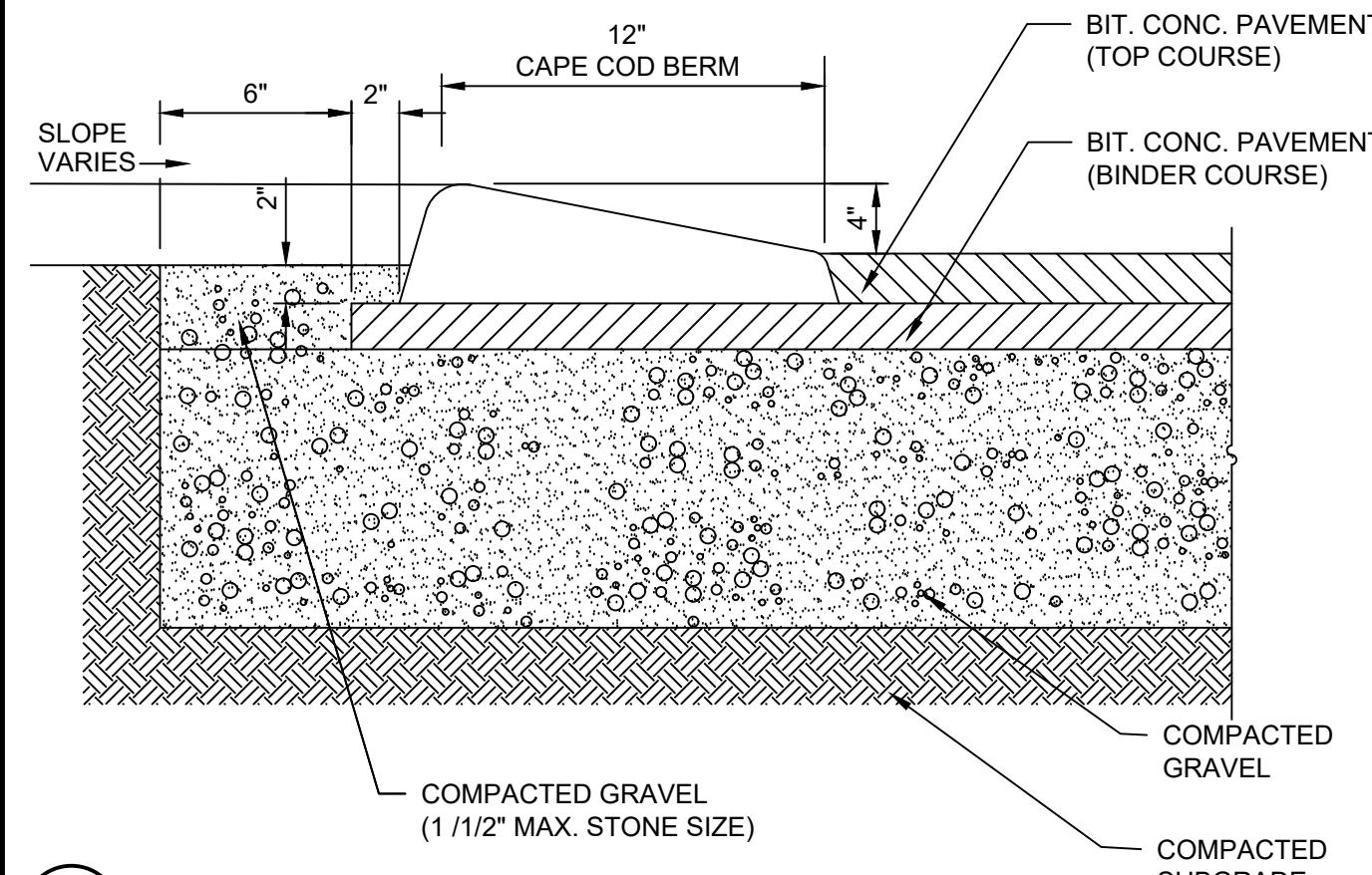
SEWER AND DRAIN PROFILES

| NO. | DATE | REVISIONS | BY |
|-----|---------|----------------------|-----|
| 1. | 2/21/25 | PEER REVIEW COMMENTS | BCO |

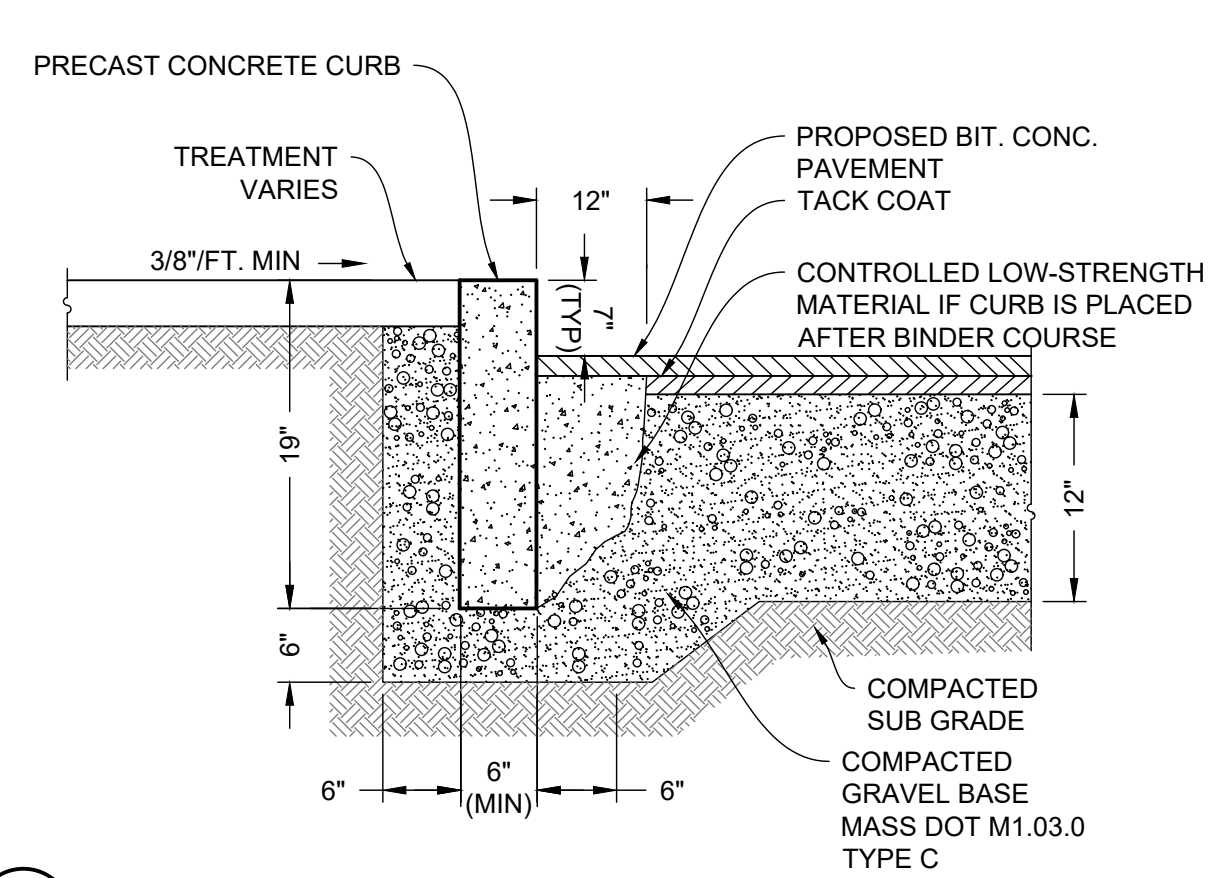
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|---------------|-------------------|
| PROJECT | 19-152 |
| DATE | DECEMBER 18, 2024 |
| DRAWING SCALE | 1" = 40' |
| DRAWN BY | OMR |
| APPROVED BY | BCO |

CS3502
 SHEET 11 OF 19

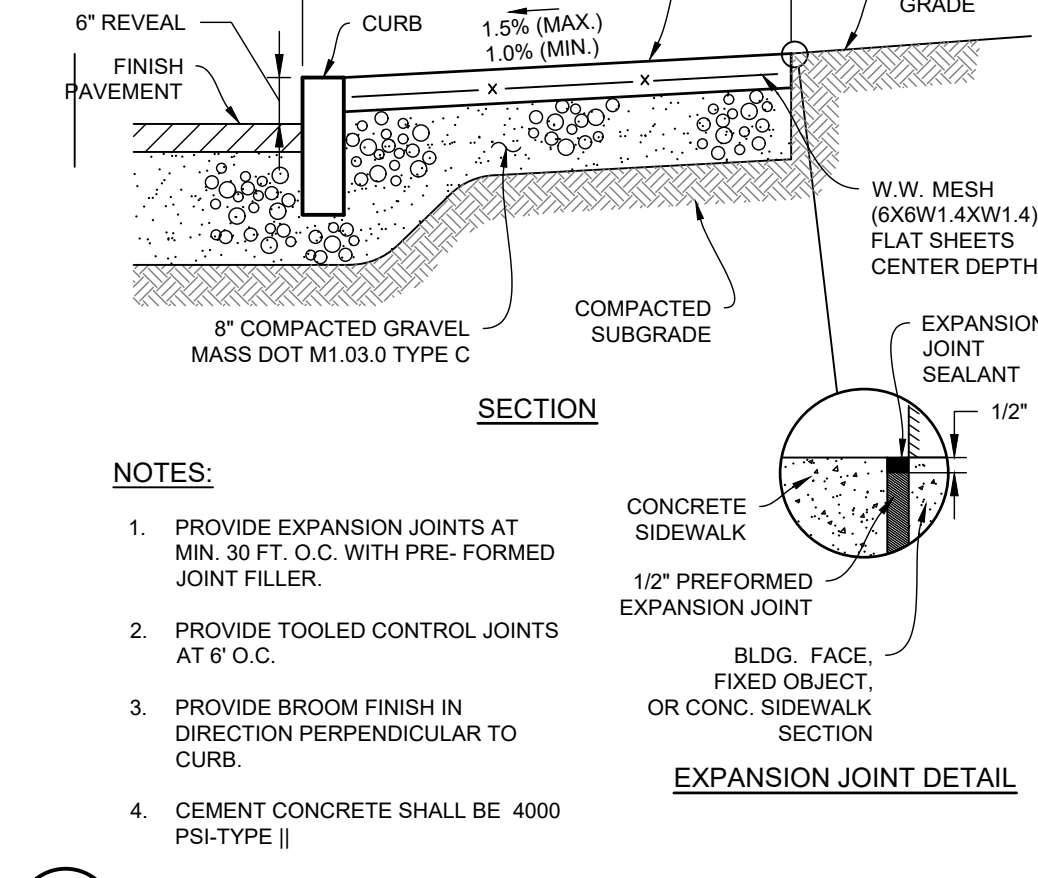
Z:\PROJECTS\CHC CHANNEL BUILDING\142 DOWNEY PARK ANDOVER\INVOICE CORRESPONDENCE\2024\19 DREW PARK (100'S) ANDOVER\BIB\BIB11_CS3502.dwg
 PLOTTED: 2/25/25 12:35 PM BY: JAC
 PLOTSTYLE: TITEN.NC54
 PROJECT STATUS: N/A



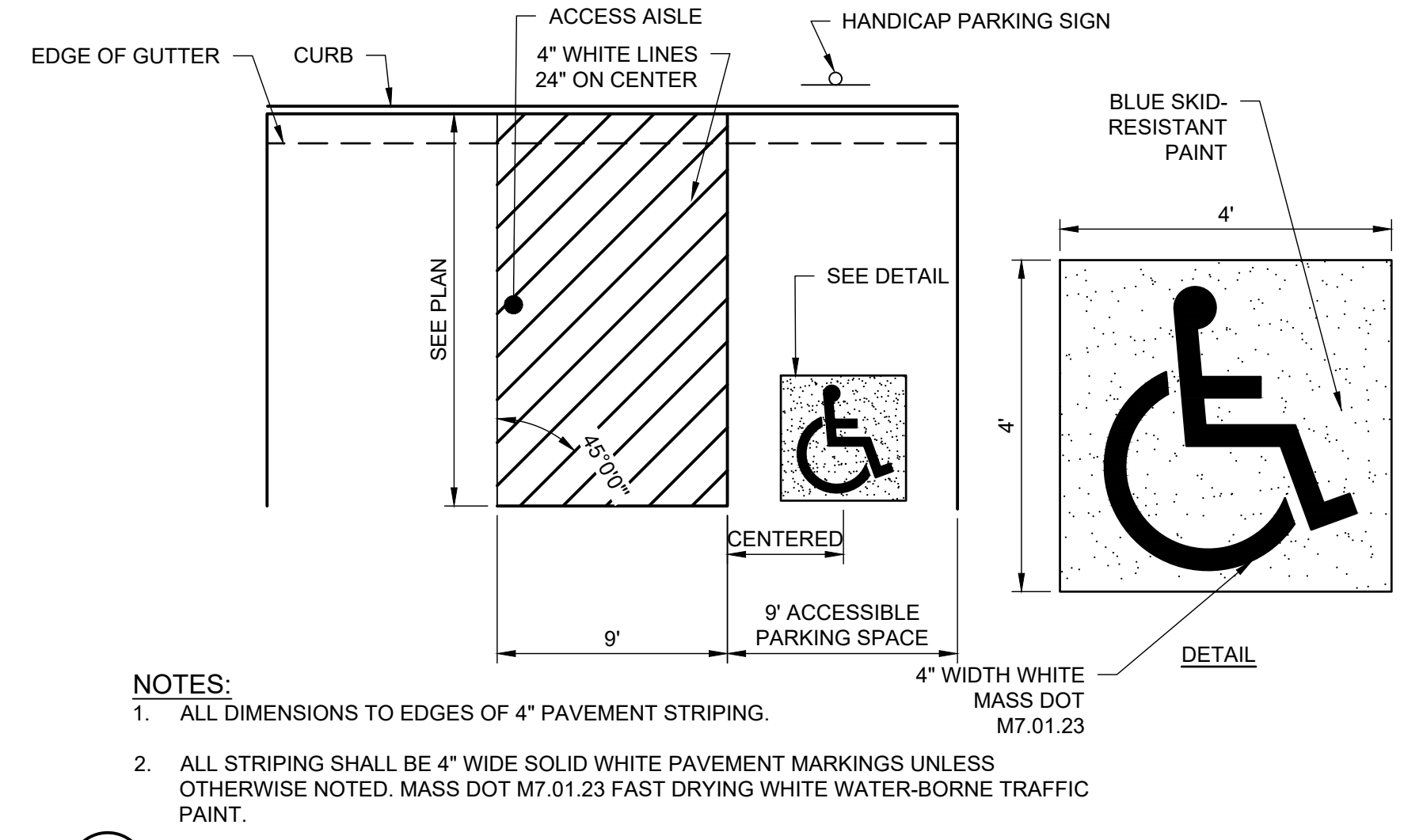
1 CAPECOD BERM
NOT TO SCALE



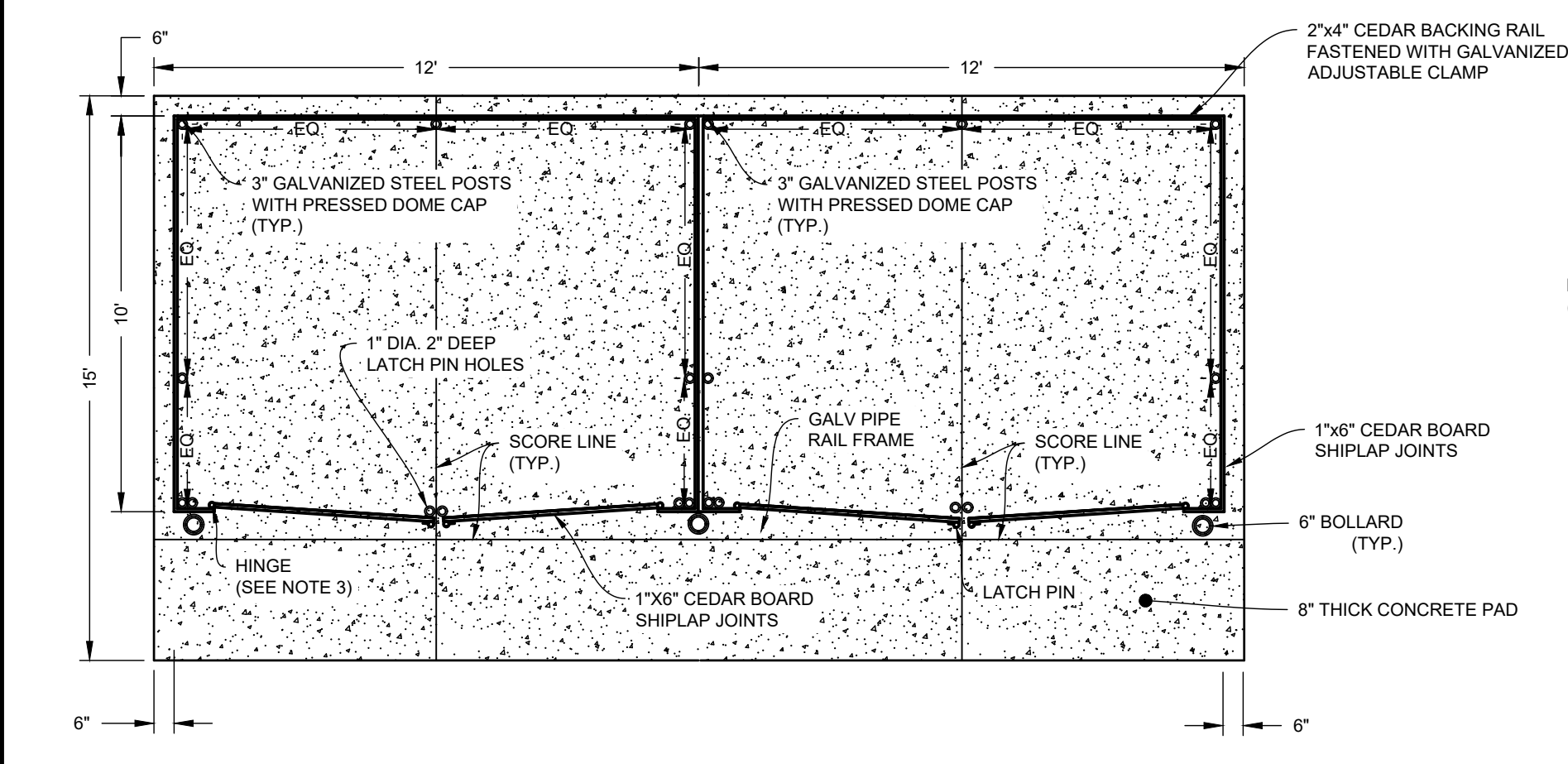
2 PRECAST CONCRETE CURB
NOT TO SCALE



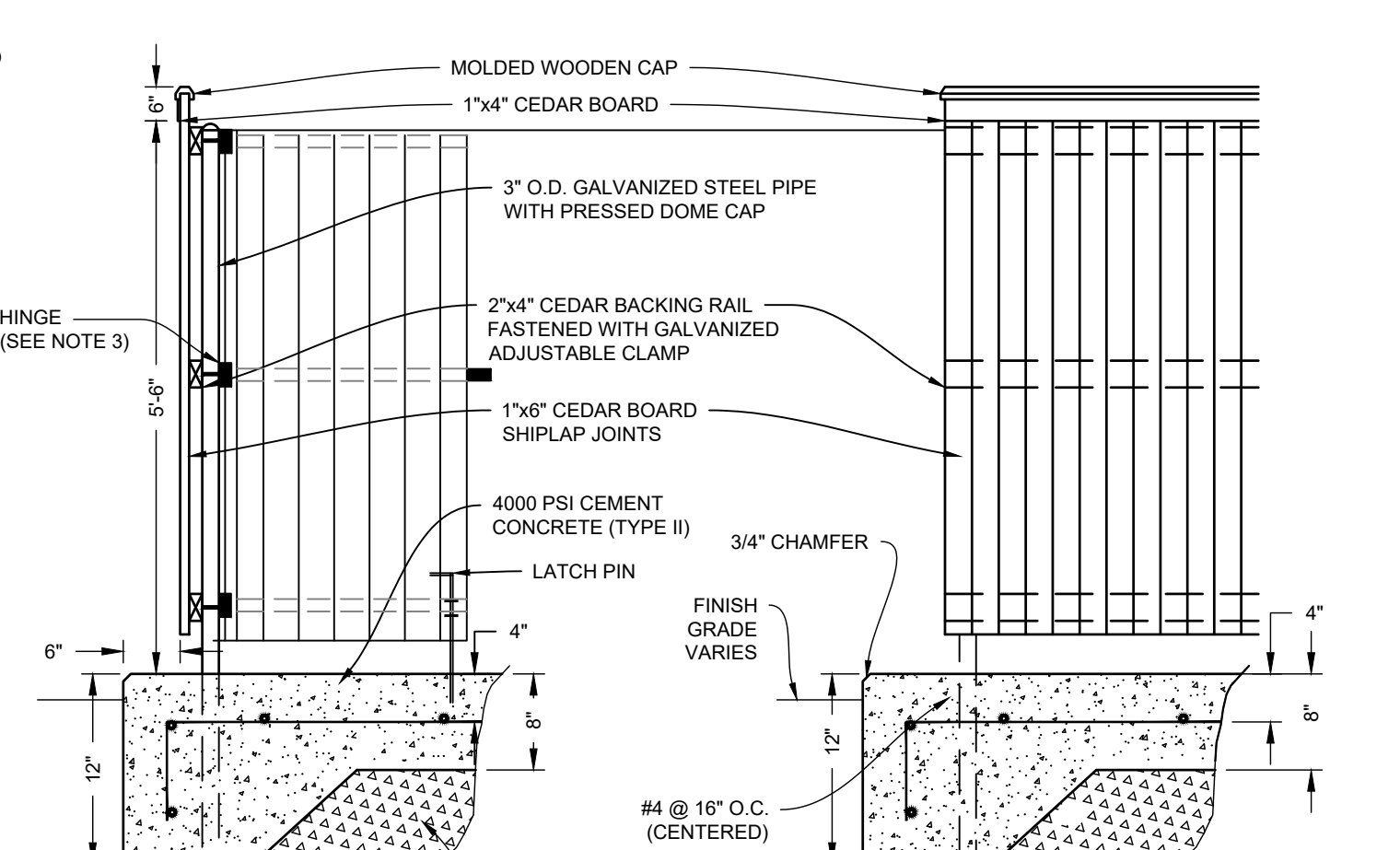
3 CONCRETE SIDEWALK
NOT TO SCALE



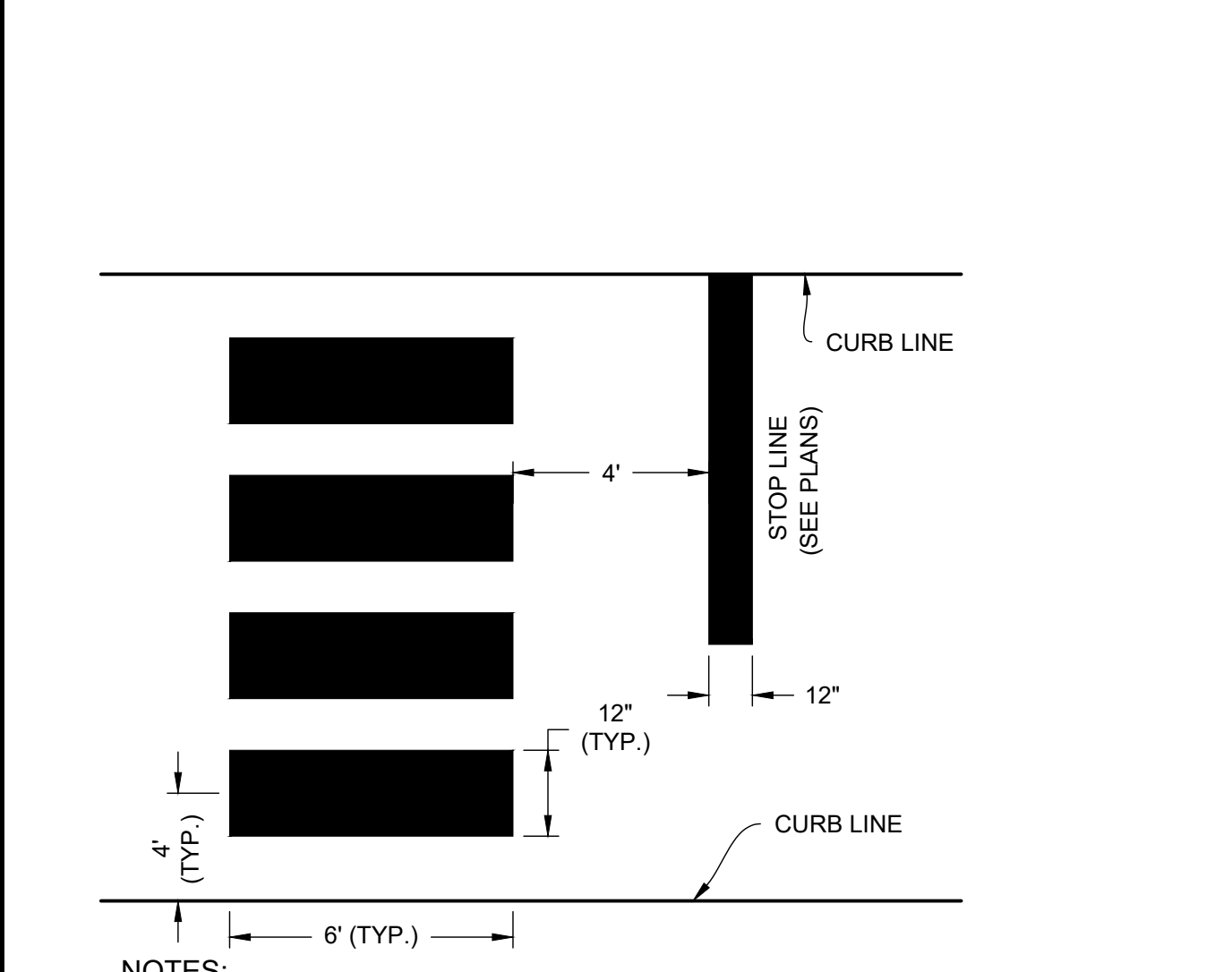
4 ACCESSIBLE PARKING SPACE
NOT TO SCALE



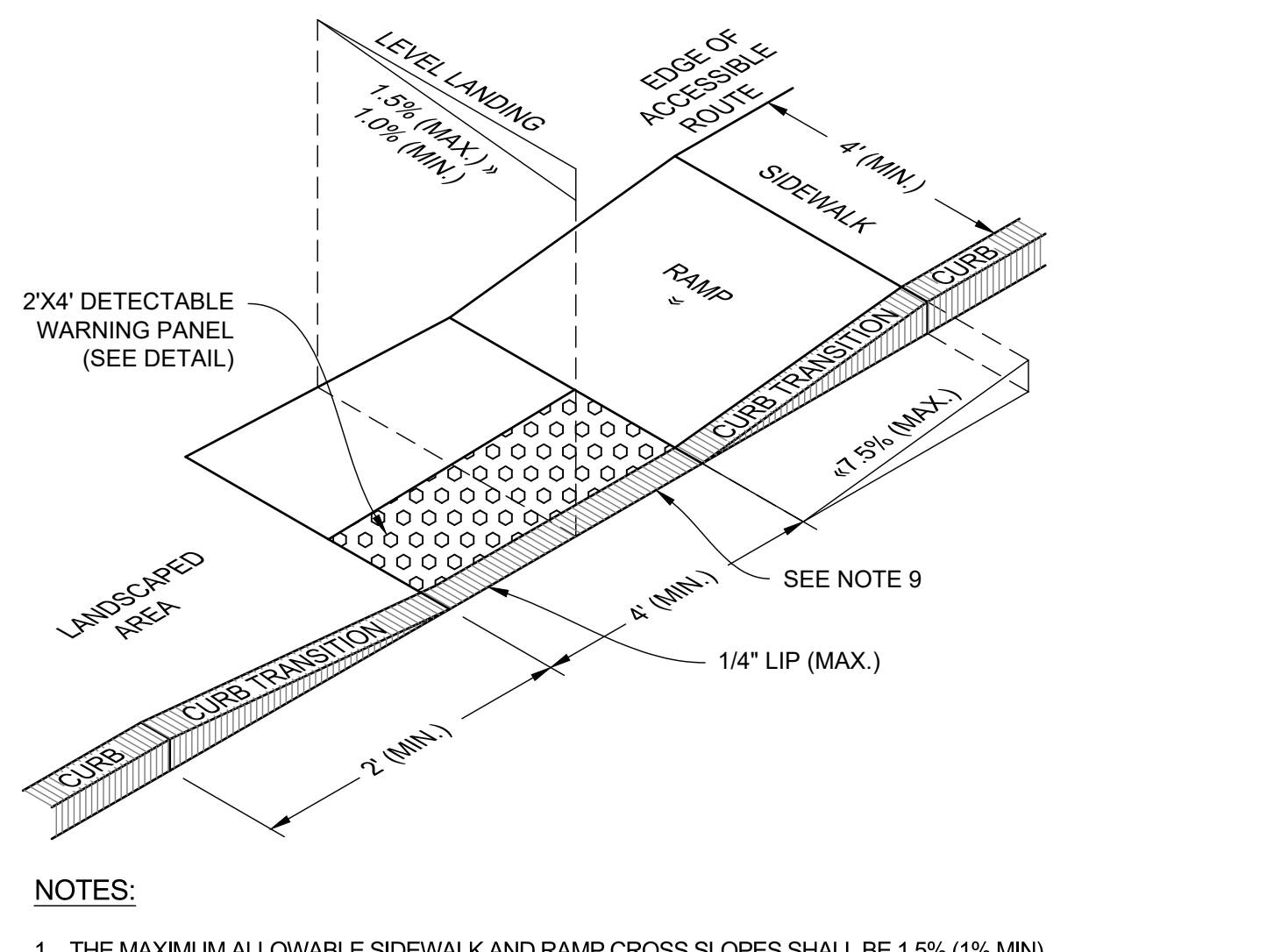
5 DUMPSTER PAD WITH ENCLOSURE
NOT TO SCALE



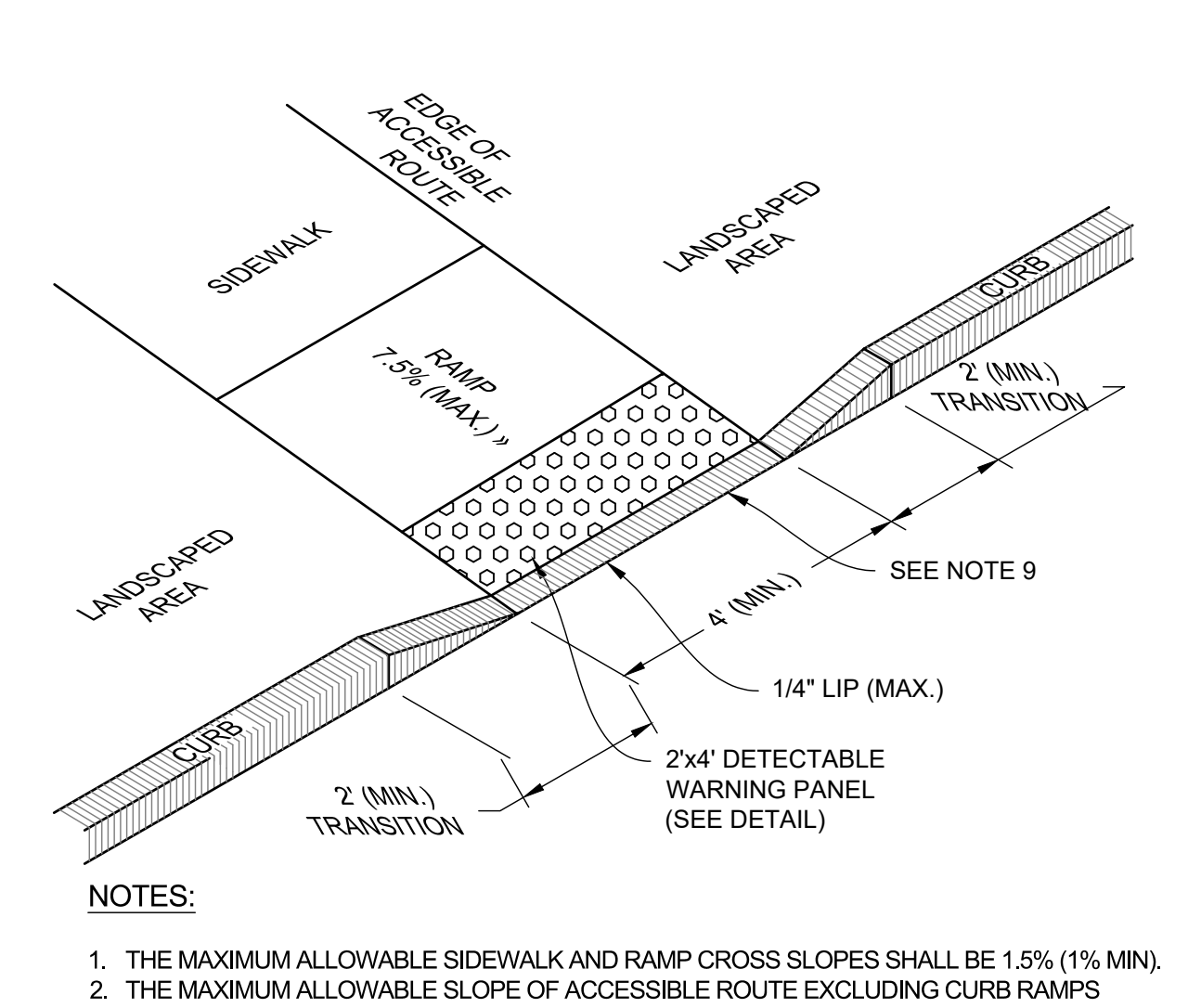
6 BIT. CONC. PAVEMENT REPAIR DETAIL
NOT TO SCALE



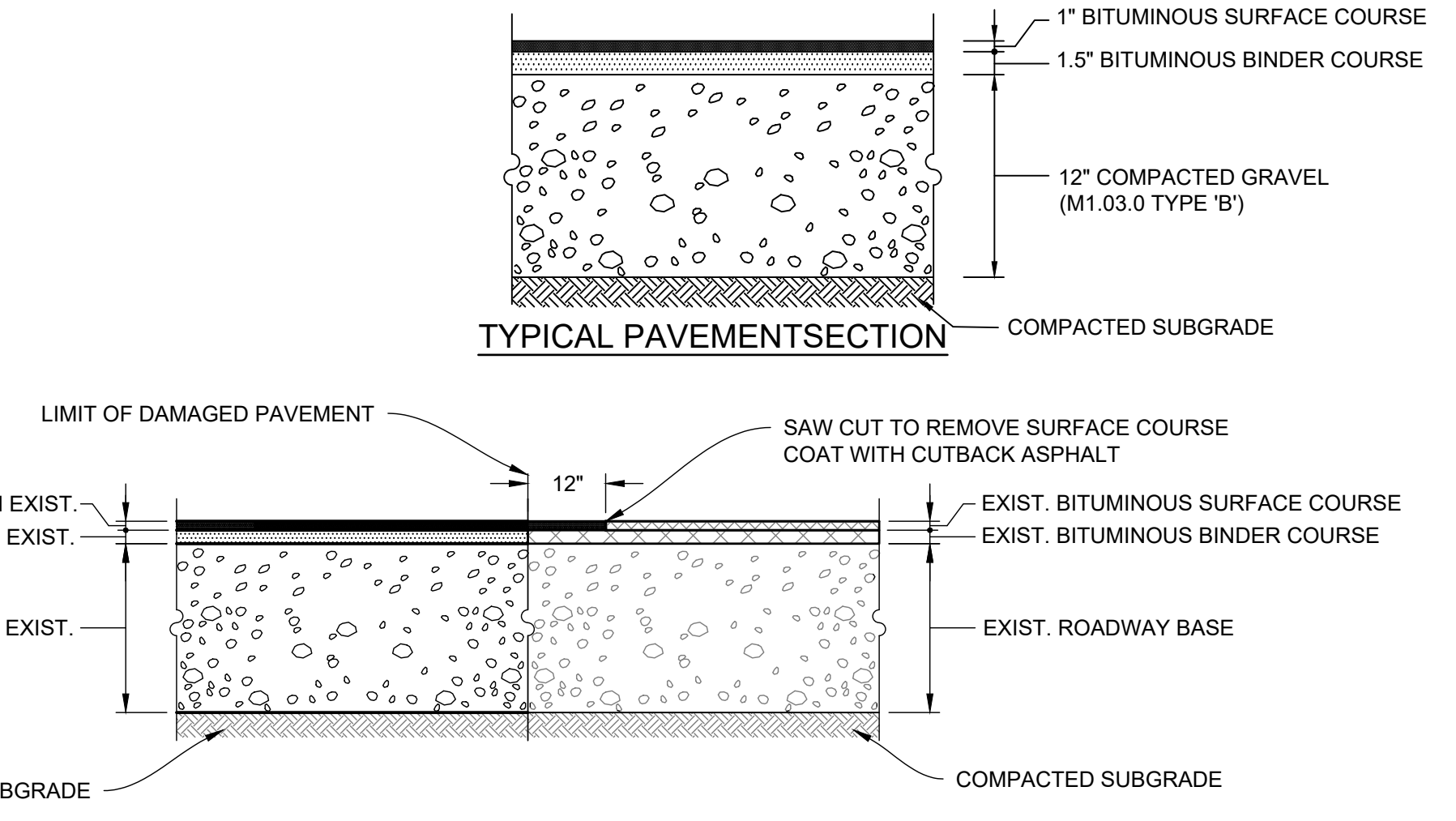
7 CROSSWALK
NOT TO SCALE



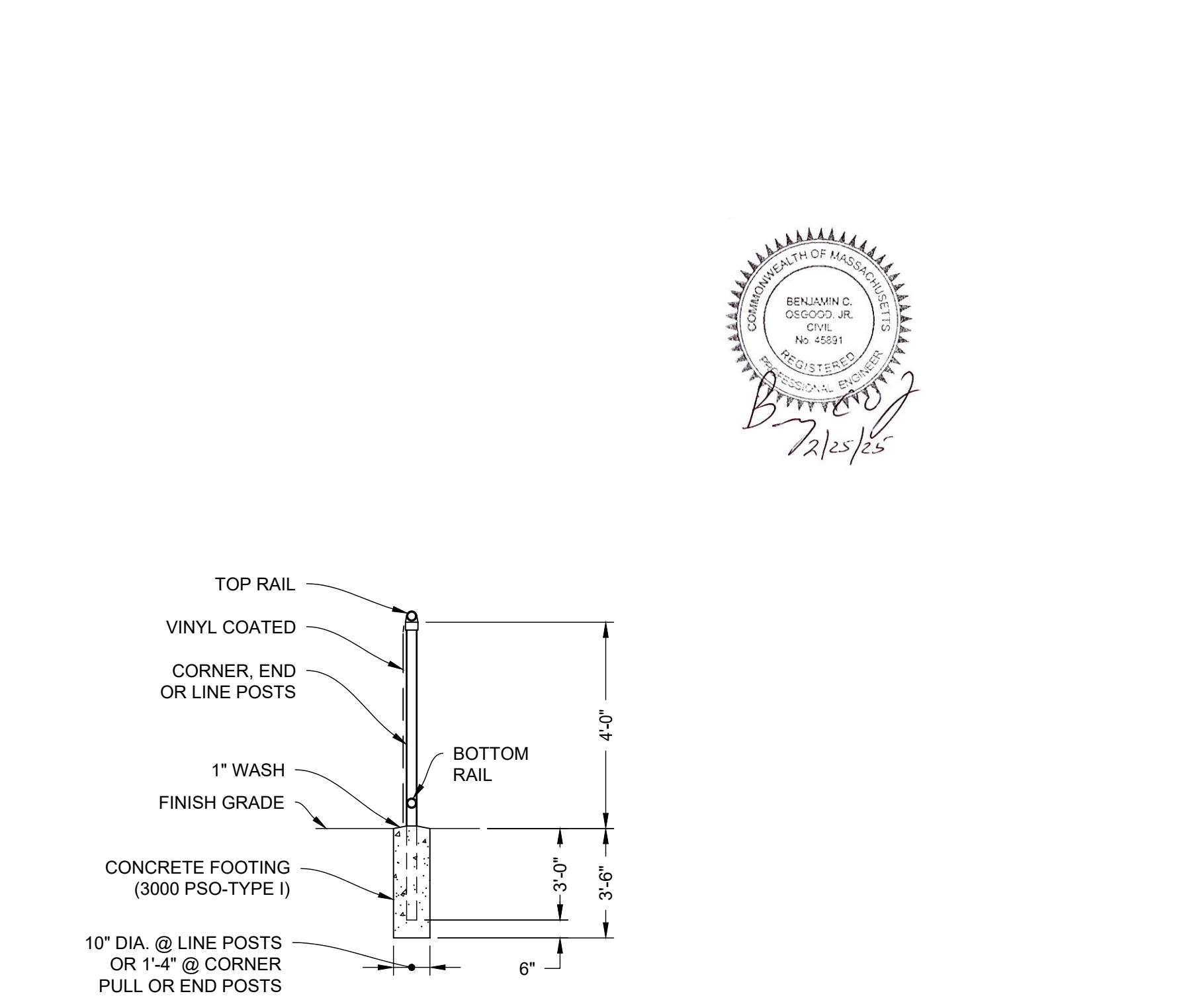
8 ACCESSIBLE CURB RAMP (ACR) - TYPE 'G' W/ DETECTABLE WARNING PANEL
NOT TO SCALE



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



TYPICAL PAVEMENT SECTION



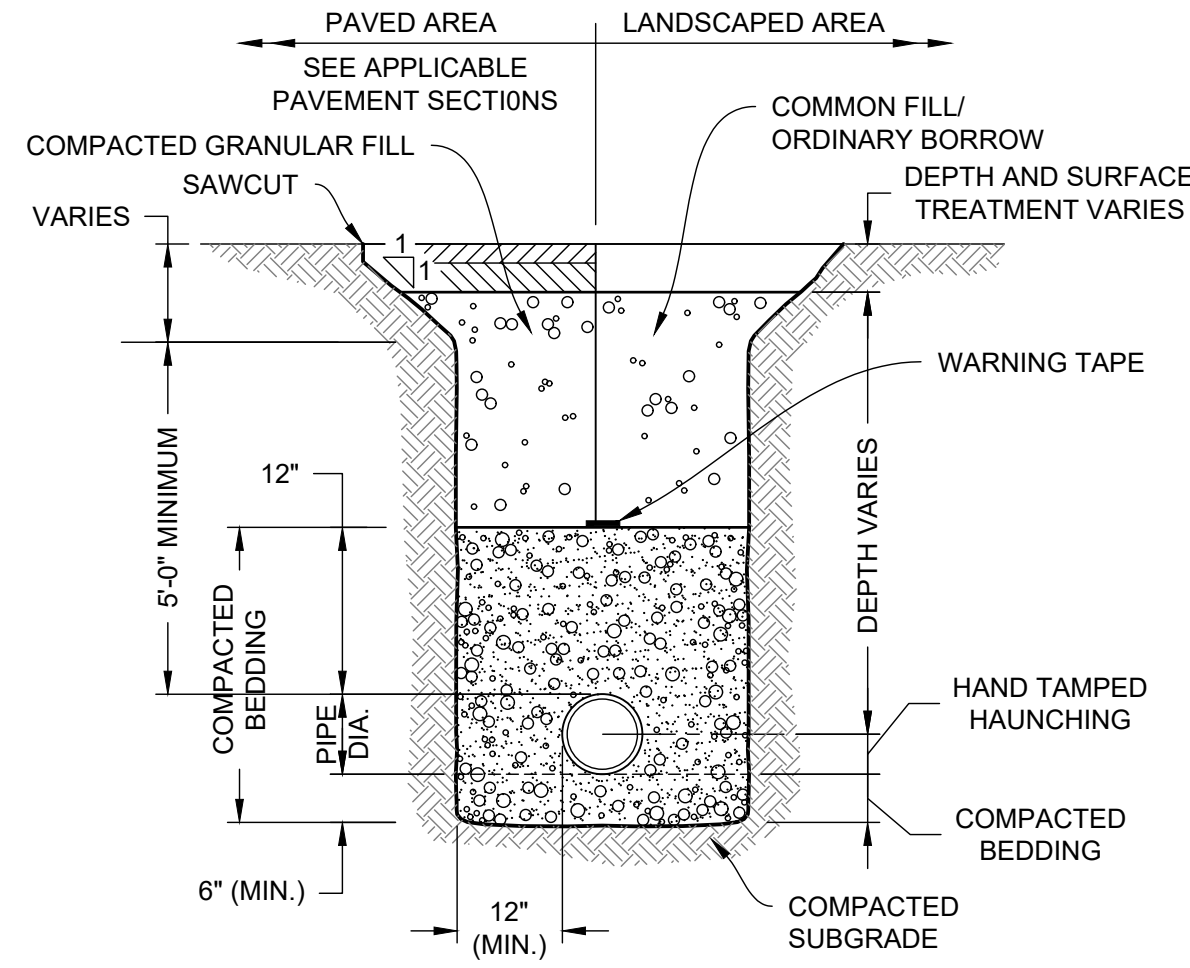
10 CHAIN LINK FENCE FOOTING DETAIL
NOT TO SCALE

| NO. | DATE | REVISIONS | BY |
|-----|---------|----------------------|-----|
| 1. | 2/21/25 | PEER REVIEW COMMENTS | BCO |

| | |
|---------------|-------------------|
| PROJECT | 19-152 |
| DATE | DECEMBER 18, 2024 |
| DRAWING SCALE | 1"= 40' |
| DRAWN BY | OMR |
| APPROVED BY | BCO |

Z:\PROJECTS\CHC CHANNEL BUILDING\142 Duster and Andover\ADVANCE CORRESPONDENCE\2024\19 DRE PARK (100'S RANGERS) BUILDING\12_CS6001.dwg
 PLOTTED: 2/25/2025 12:35 PM BY: JAC BOSTYLE TITEN, NSJ-08
 PROJECT STATUS:



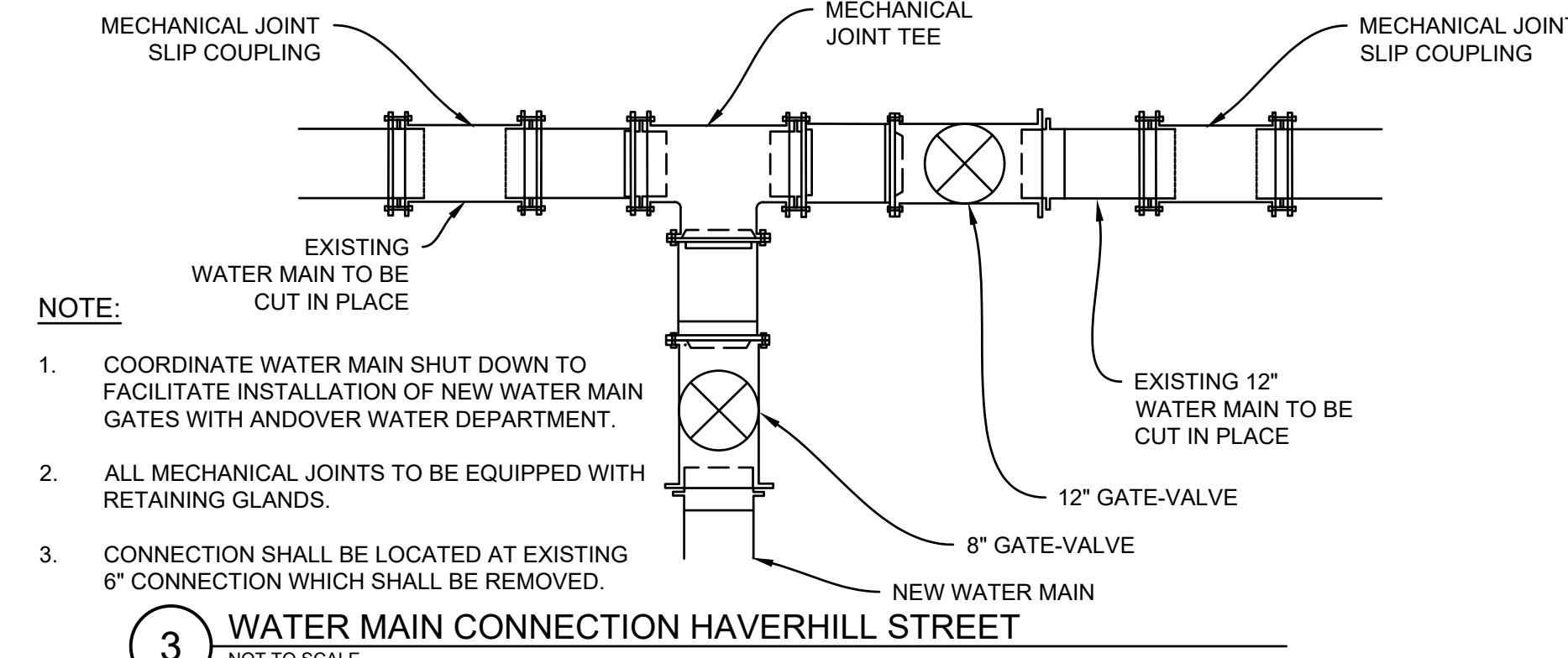


- NOTES:**
- WHERE UTILITY TRENCHES ARE CONSTRUCTED THROUGH DETENTION BASIN BERMS OR OTHER SUCH SPECIAL SECTIONS, PLACE TRENCH BACKFILL WITH MATERIALS SIMILAR TO THE SPECIAL SECTION REQUIREMENTS.
 - USE METALLIC TRACING/WARNING TAPE OVER ALL PIPES.

1 WATER TRENCH
NOT TO SCALE

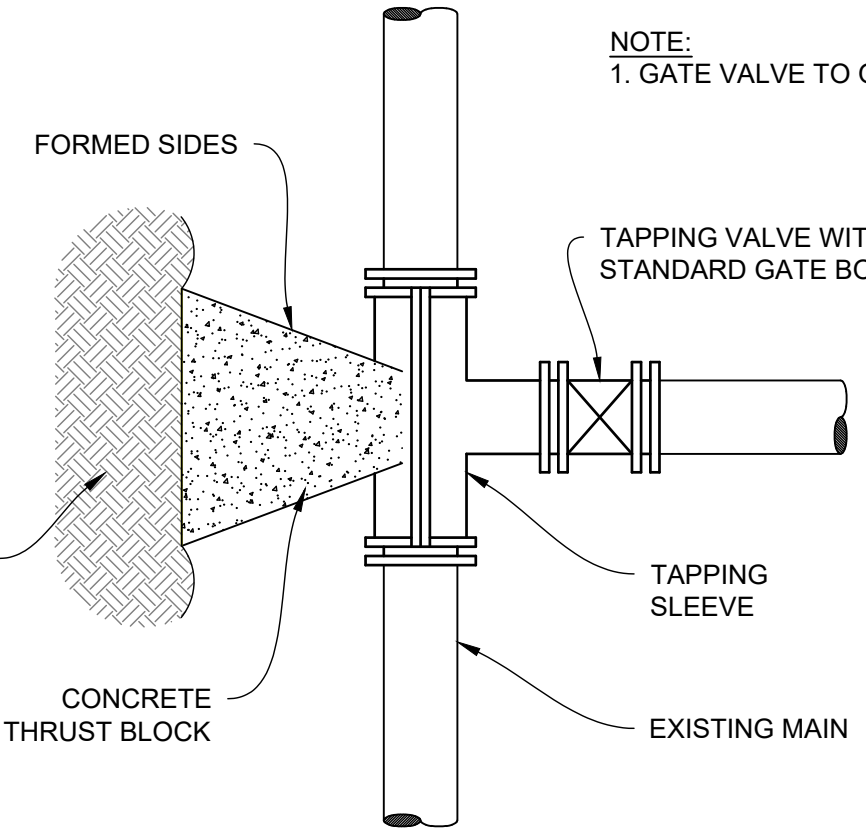
| LIMITS OF RESTRAINED JOINTS | |
|-----------------------------|-----------------------------------|
| FITTING | MIN. LINEAR FEET TO BE RESTRAINED |
| 6"-1/4 BEND | 21 (EACH SIDE OF FITTING) |
| 6"-1/8 BEND | 9 (EACH SIDE OF FITTING) |
| 6"-1/16 BEND | 4 (EACH SIDE OF FITTING) |
| 6"-1/32 BEND | 2 (EACH 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

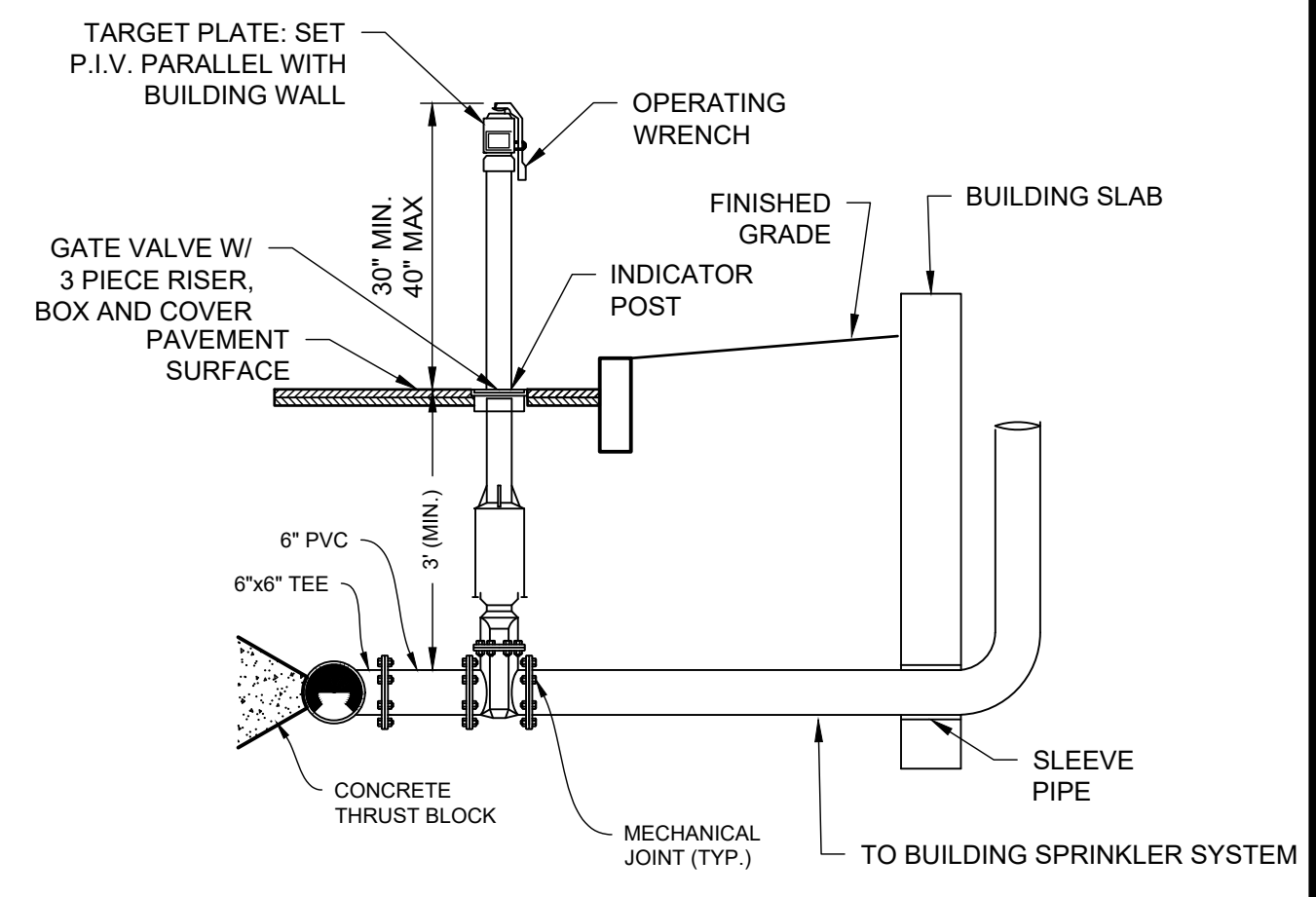


- NOTE:**
- COORDINATE WATER MAIN SHUT DOWN TO FACILITATE INSTALLATION OF NEW WATER MAIN GATES WITH ANDOVER WATER DEPARTMENT.
 - ALL MECHANICAL JOINTS TO BE EQUIPPED WITH RETAINING GLANDS.
 - CONNECTION SHALL BE LOCATED AT EXISTING 6" CONNECTION WHICH SHALL BE REMOVED.

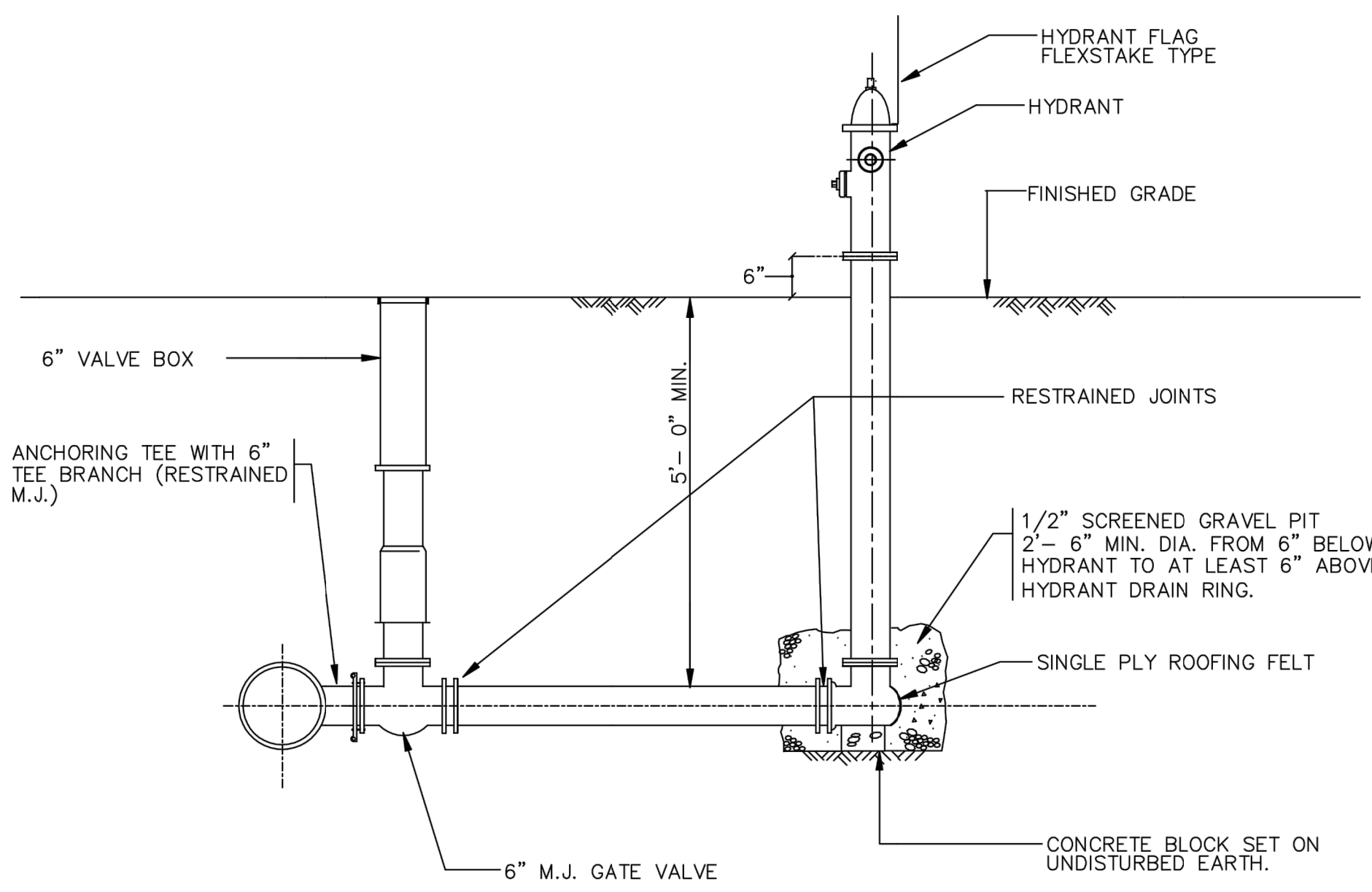
3 WATER MAIN CONNECTION HAVERHILL STREET
NOT TO SCALE



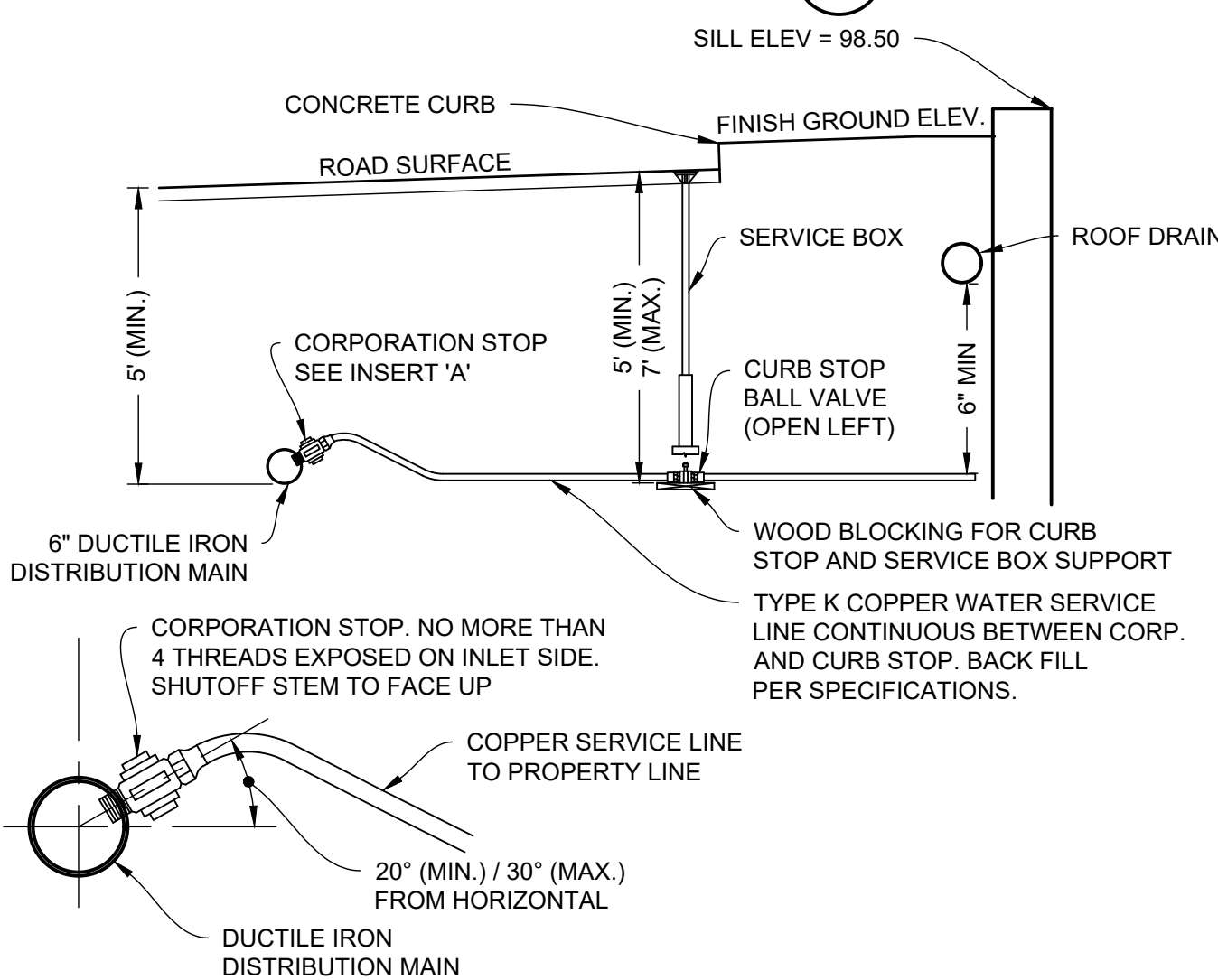
4 TAPPING SLEEVE & VALVE CONNECTION
NOT TO SCALE



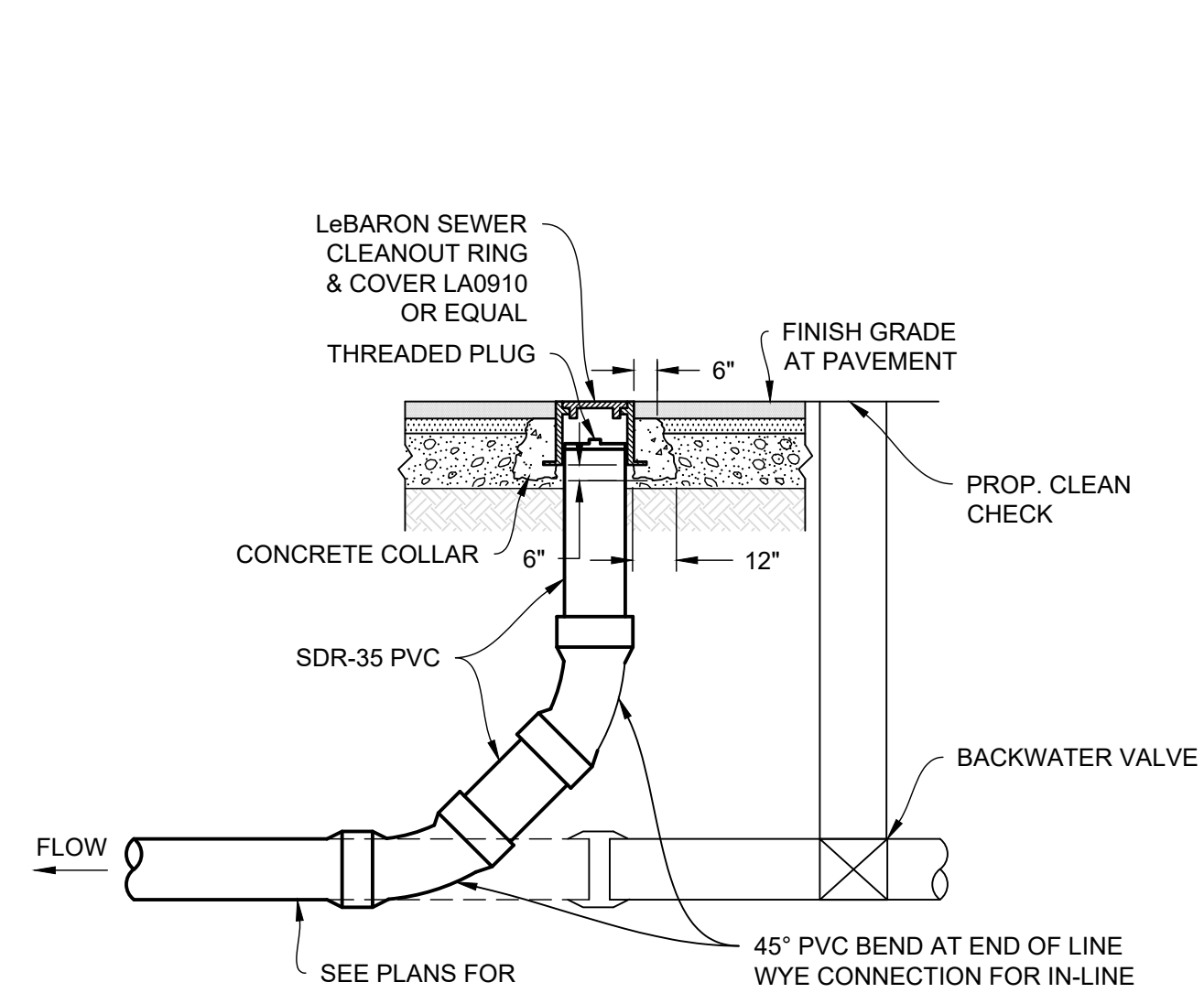
5 SPRINKLER CONNECTION DETAIL
NOT TO SCALE



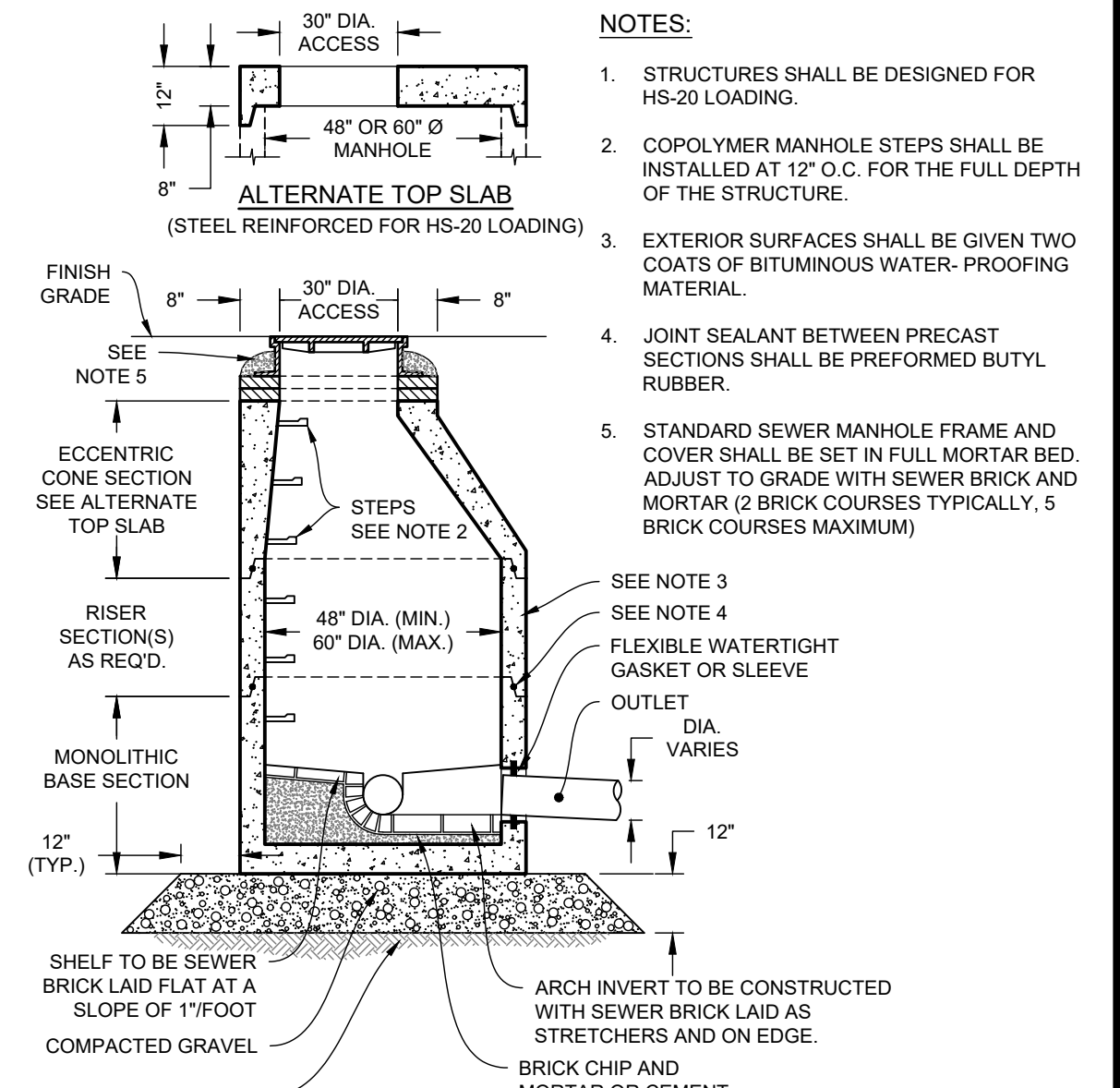
6 HYDRANT
NOT TO SCALE



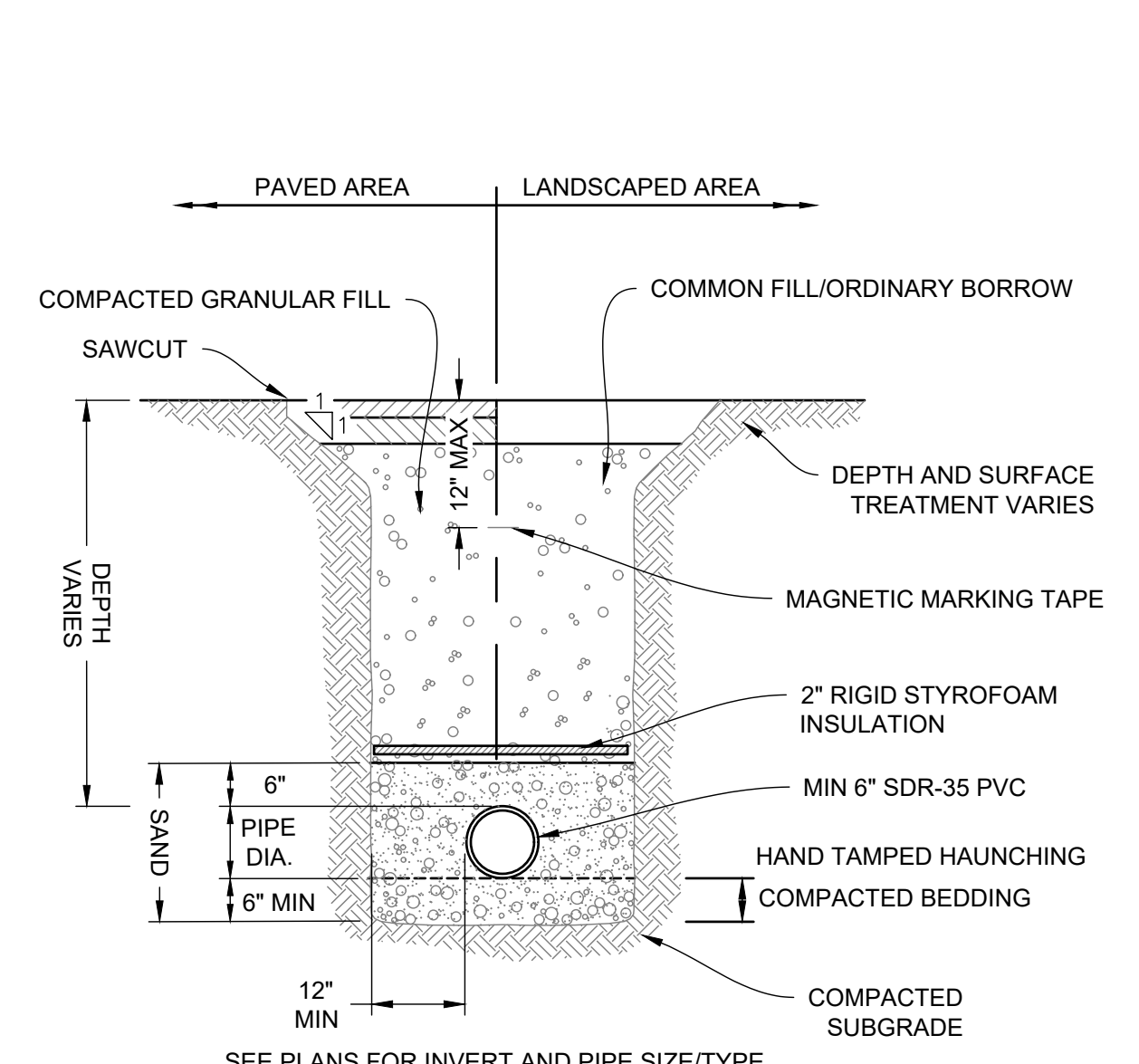
7 WATER SERVICE INSTALLATION
NOT TO SCALE



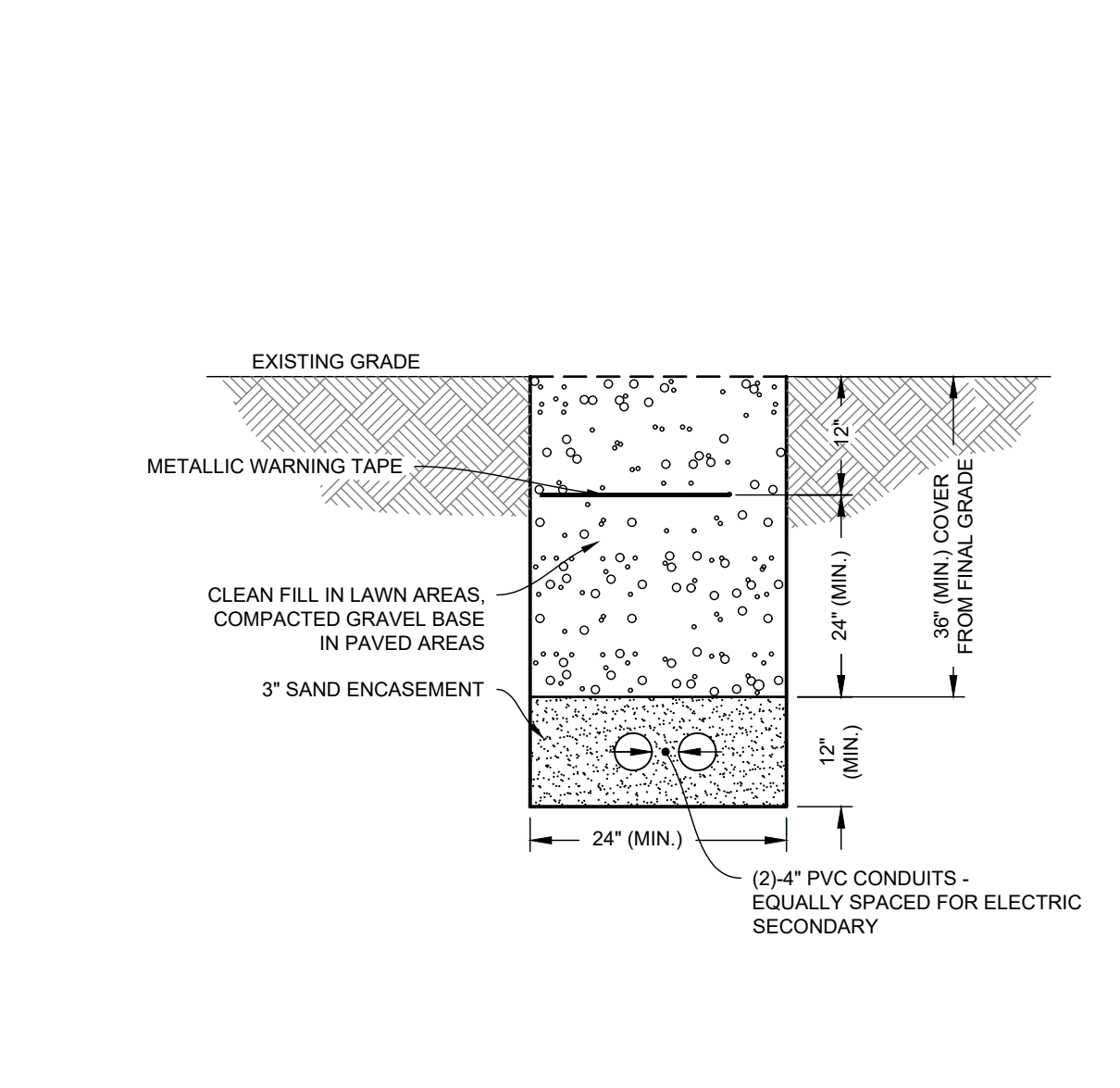
8 SEWER CLEANOUT - PAVED AREA
NOT TO SCALE



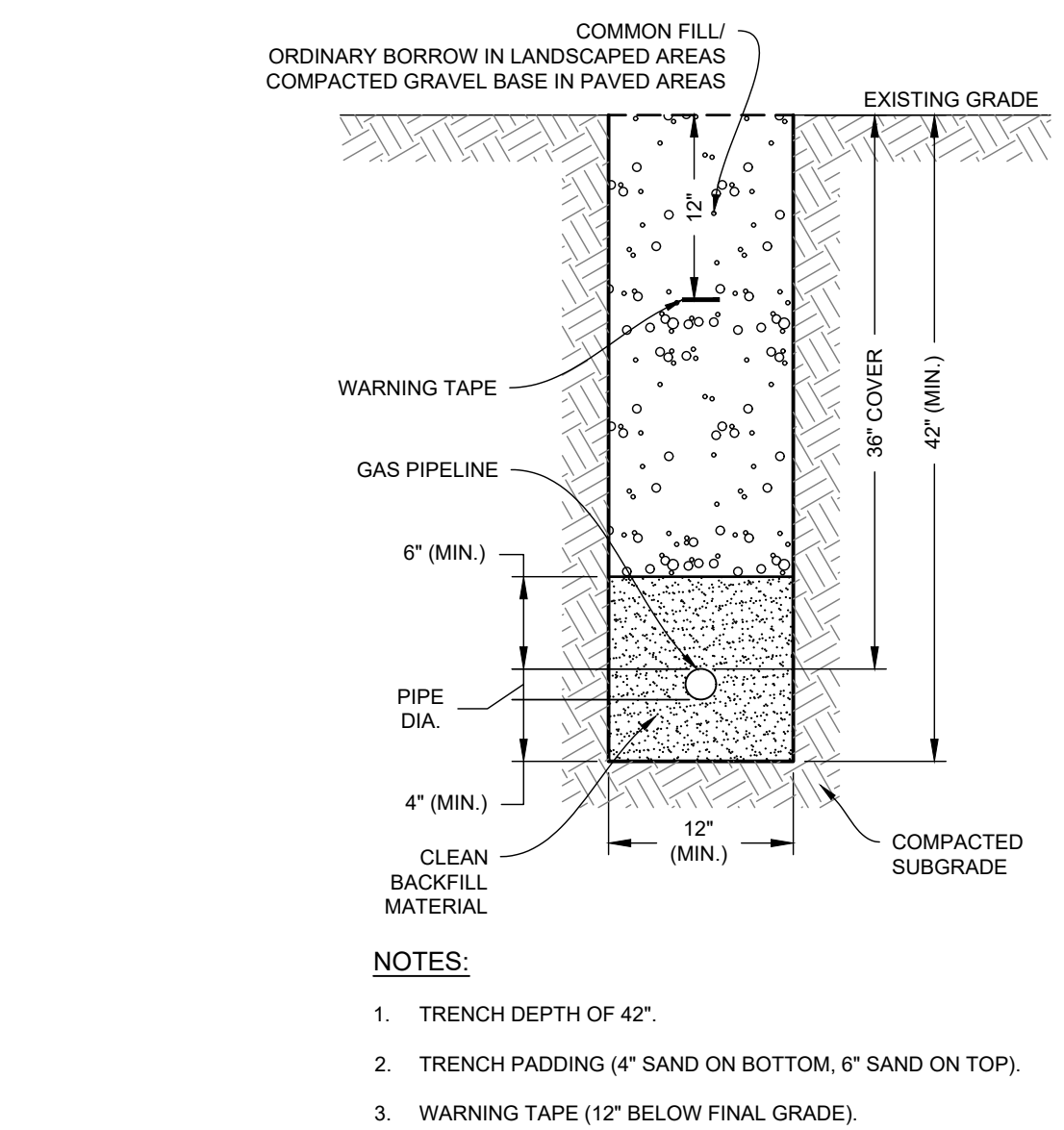
9 SANITARY SEWER MANHOLE (SMH)
NOT TO SCALE



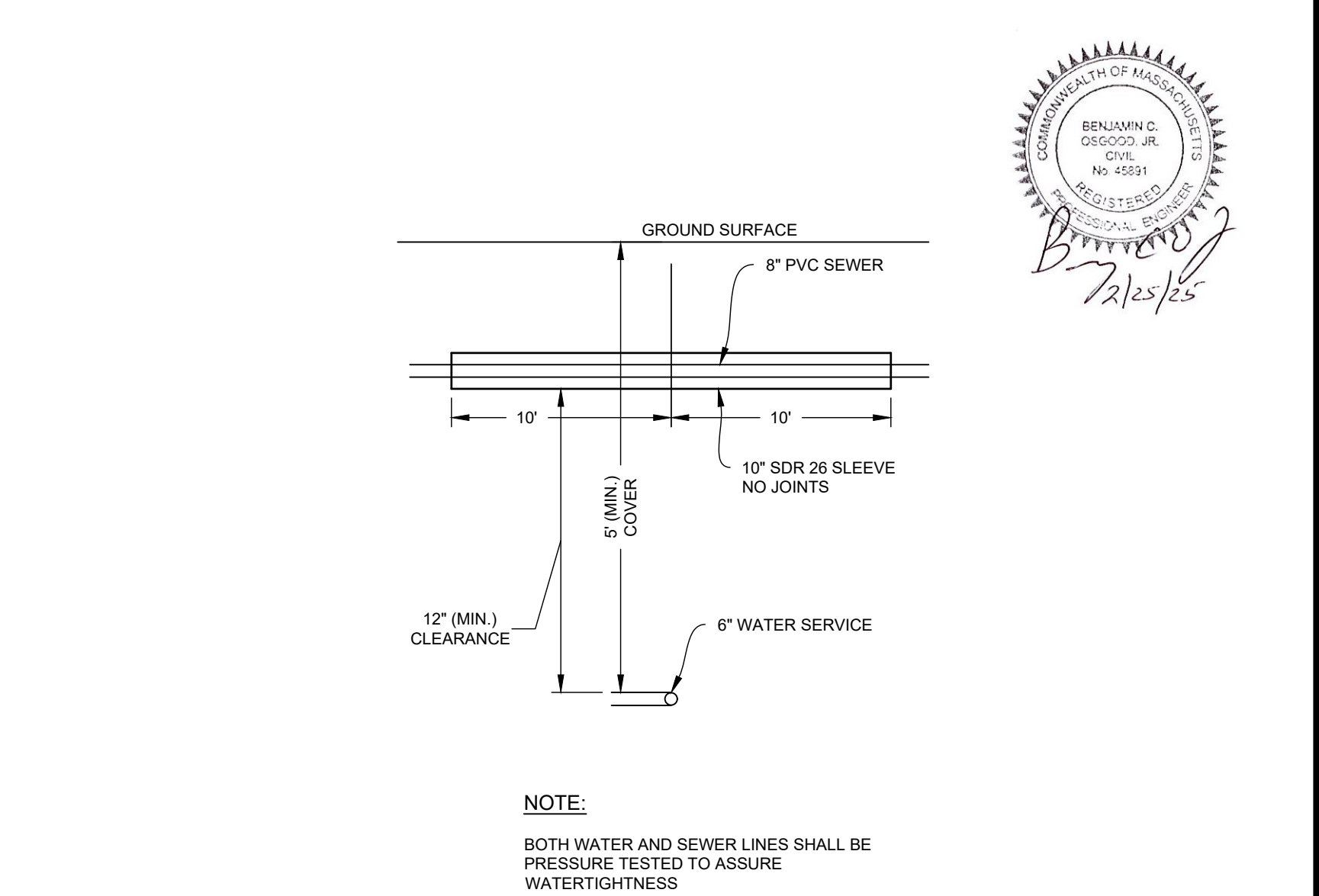
10 SEWER MAIN TRENCH
NOT TO SCALE



11 ELECTRIC/ TELECOMMUNICATION DUCT BANK
NOT TO SCALE



12 GAS LINE TRENCH
NOT TO SCALE

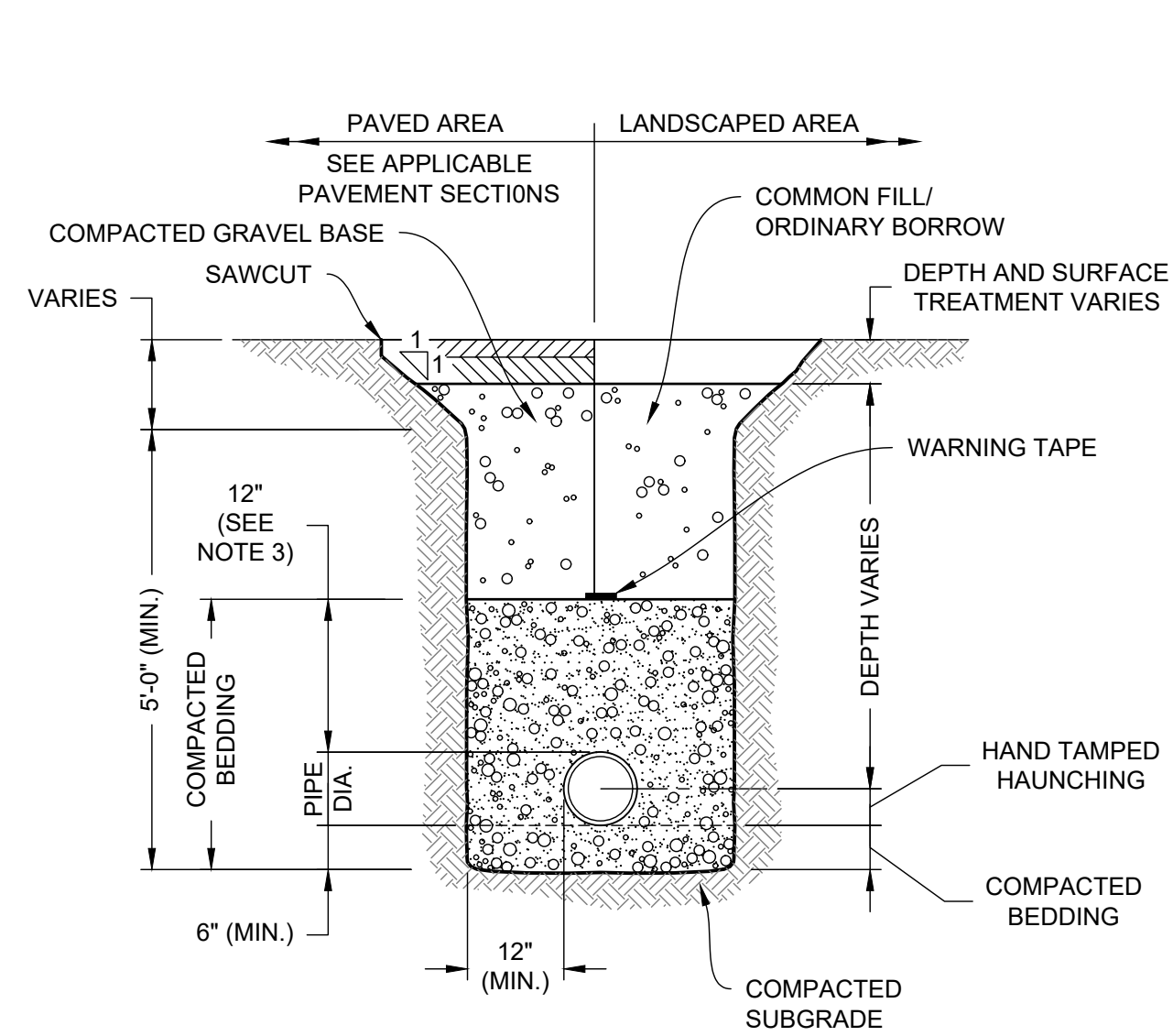


13 SEWER/WATER LINE CROSSING DETAIL
NOT TO SCALE

| NO. | DATE | REVISIONS | BY |
|-----|---------|----------------------|-----|
| 1. | 2/21/25 | PEER REVIEW COMMENTS | BCO |

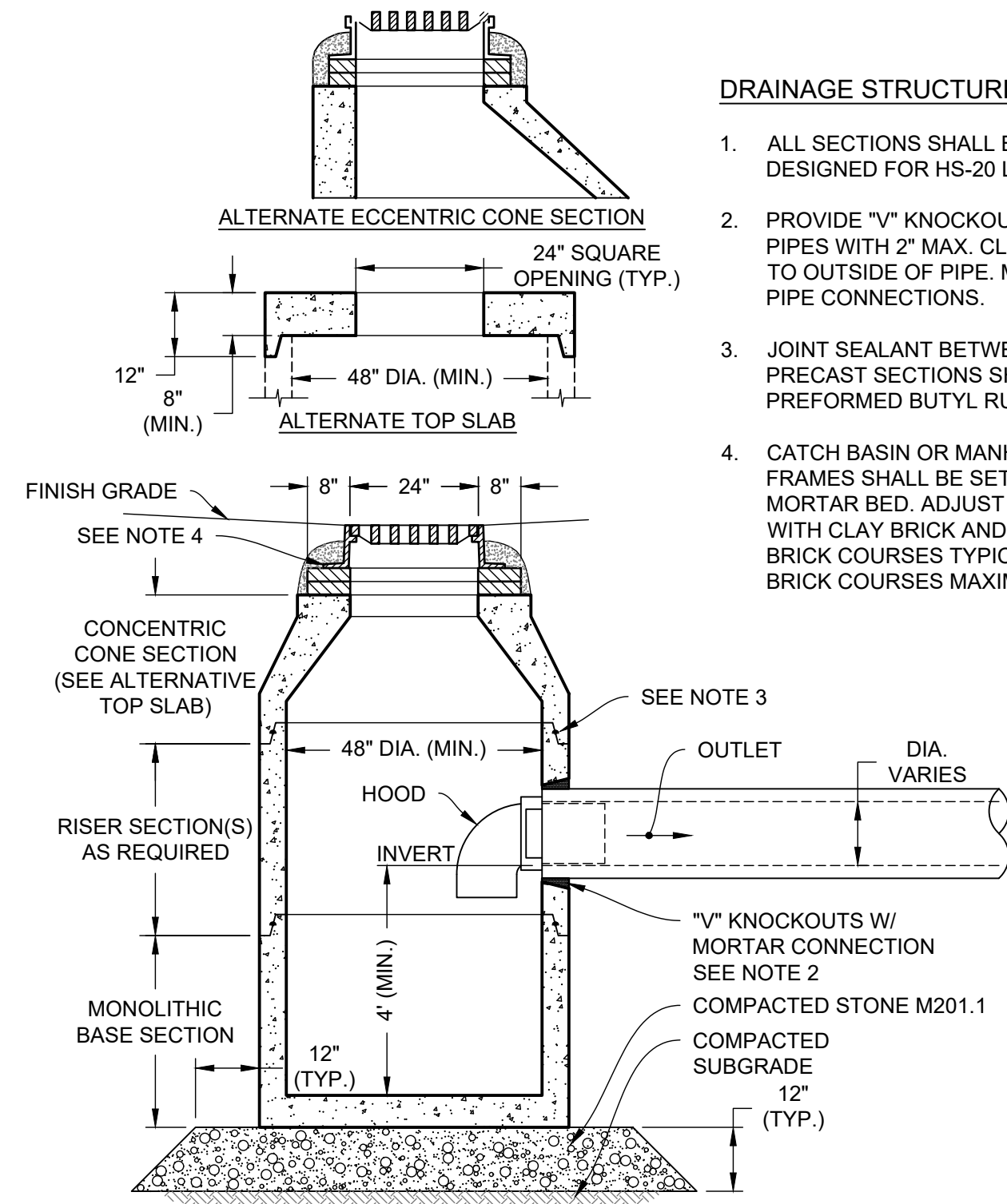
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 PLOTTED: 2/25/25 12:38 PM BY: JAE
 PROJECT STATUS: PROJECT STYLE: TITLES: KES: JAE





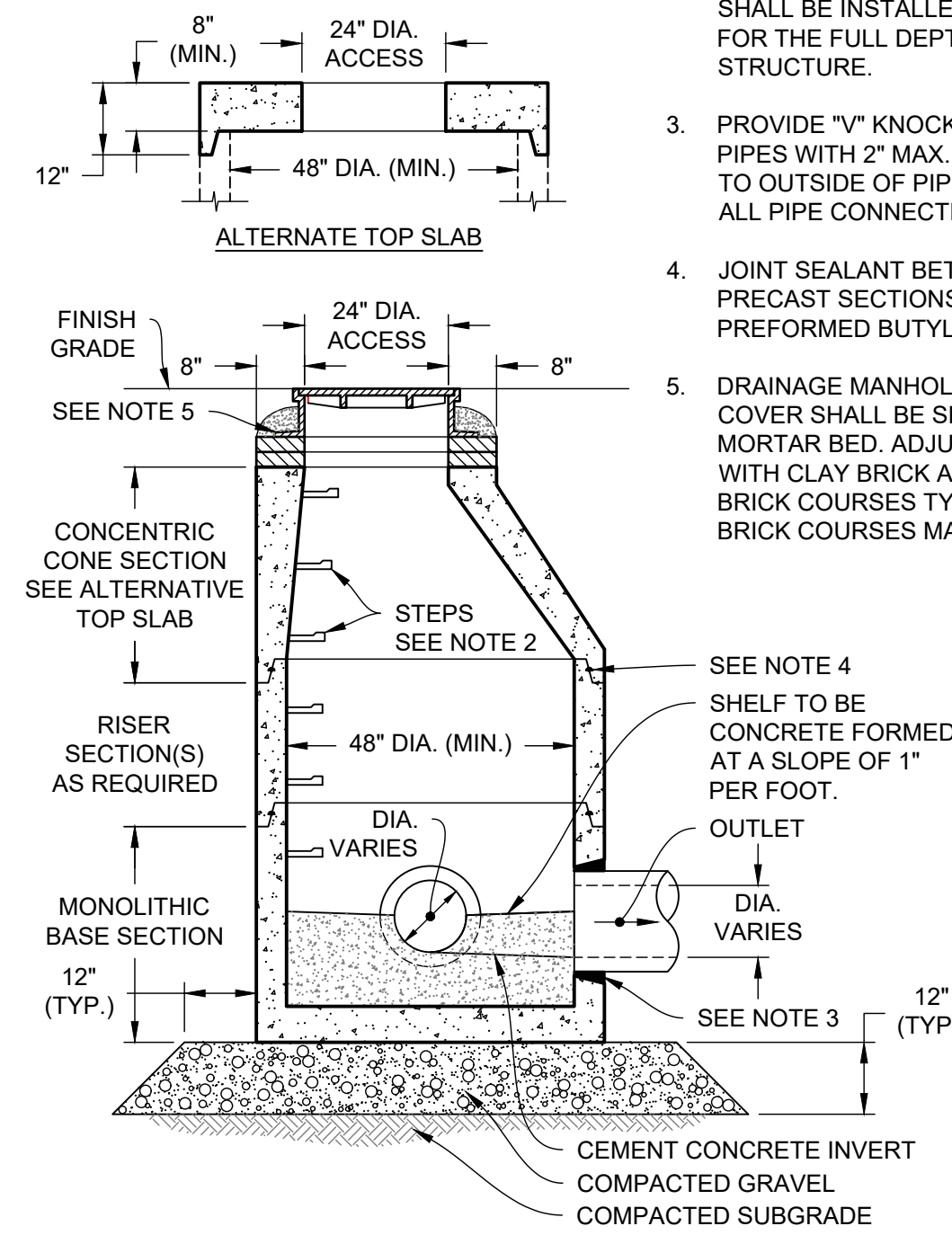
- NOTES:**
- WHERE UTILITY TRENCHES ARE CONSTRUCTED THROUGH DETENTION BASIN BERMS OR OTHER SUCH SPECIAL SECTIONS, PLACE TRENCH BACKFILL WITH MATERIALS SIMILAR TO THE SPECIAL SECTION REQUIREMENTS.
 - USE METALLIC TRACING/WARNING TAPE OVER ALL PIPES.
 - FOR HDPE PIPE, DIMENSION IS 24 INCHES.

1 DRAINAGE TRENCH
NOT TO SCALE



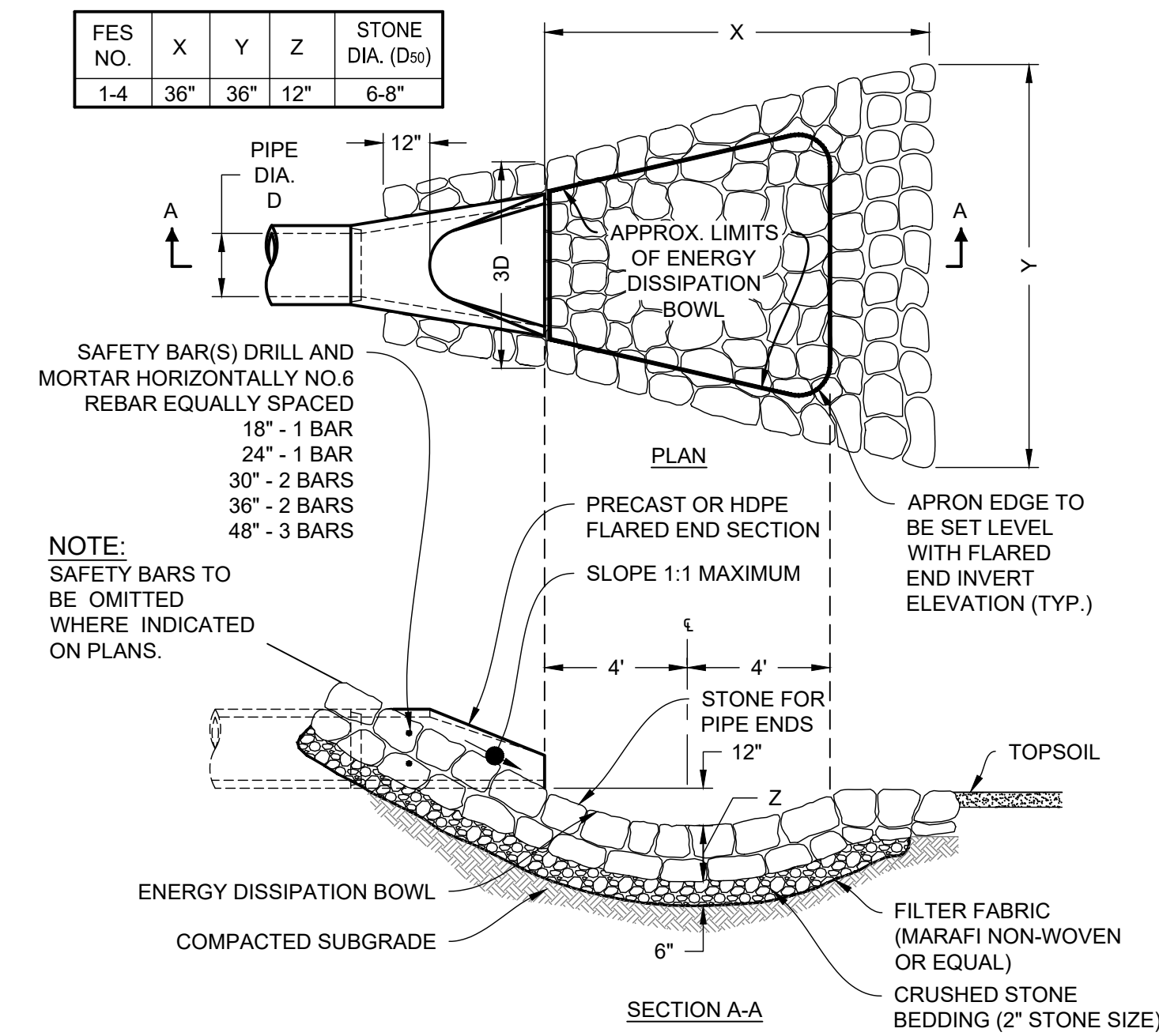
- DRAINAGE STRUCTURE NOTES:**
- ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
 - PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
 - JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
 - CATCH BASIN OR MANHOLE FRAME SHALL 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

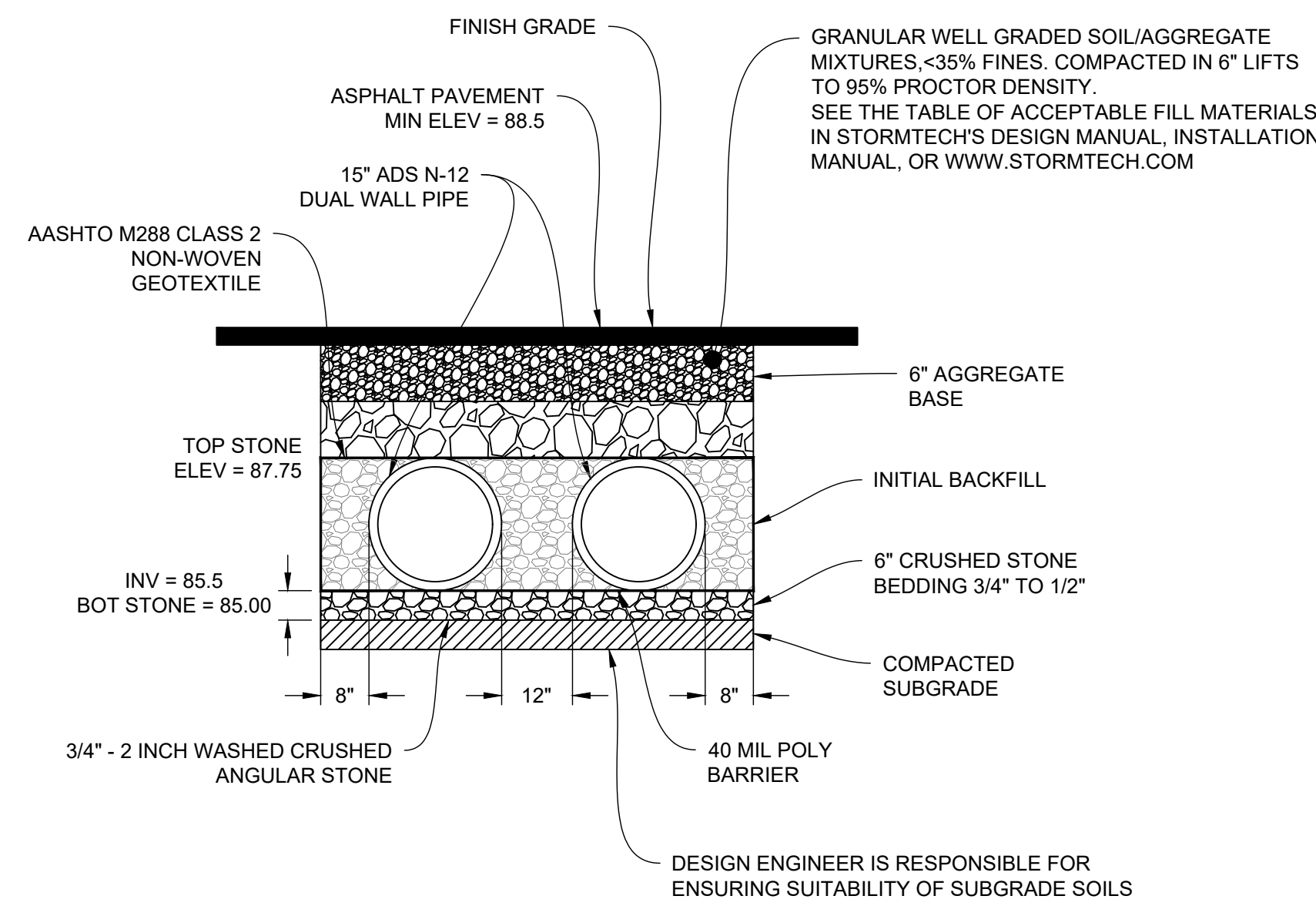


- NOTES:**
- ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
 - COPOLYMER MANHOLE STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.
 - PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
 - JOINT SEALANT BETWEEN PRECAST SECTIONS 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).

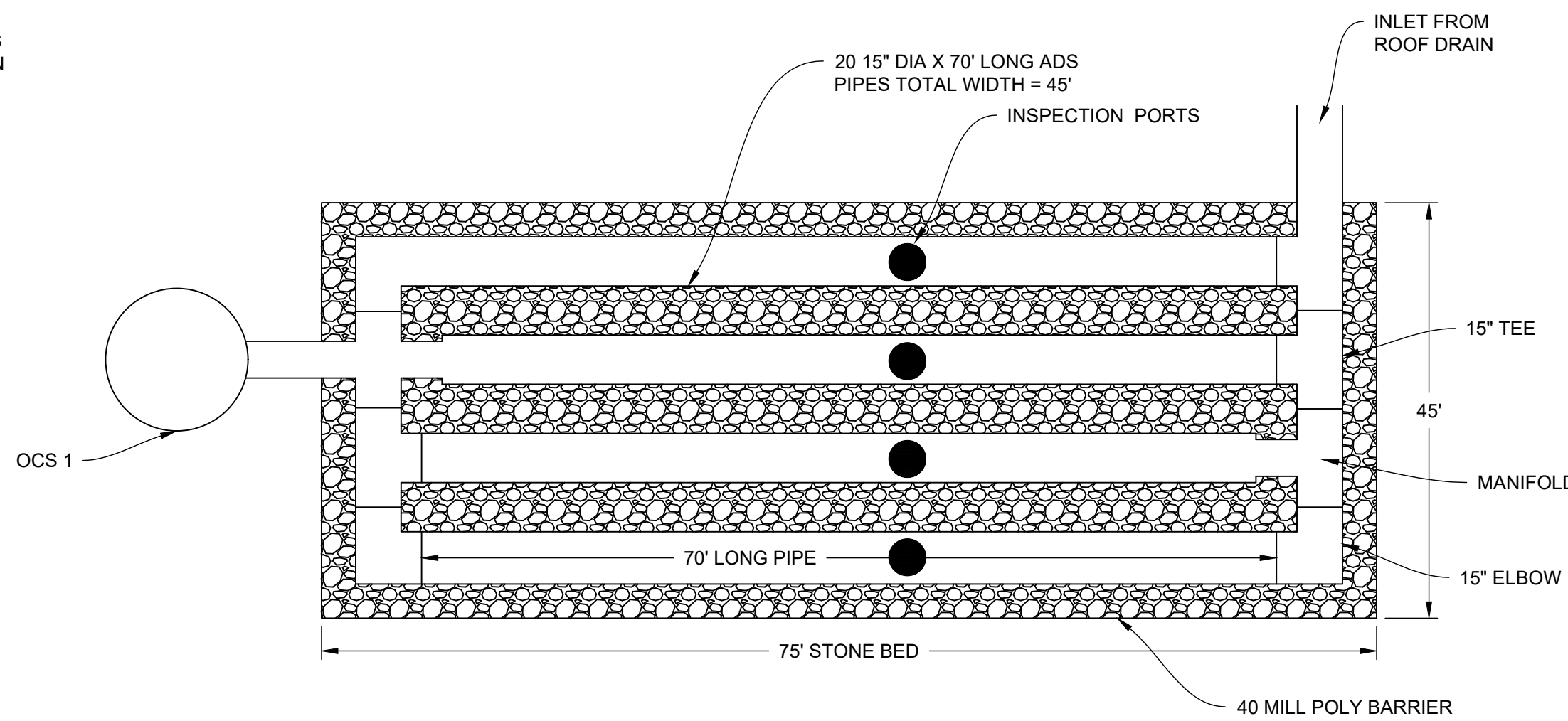
3 DRAINAGE MANHOLE (DMH)
NOT TO SCALE



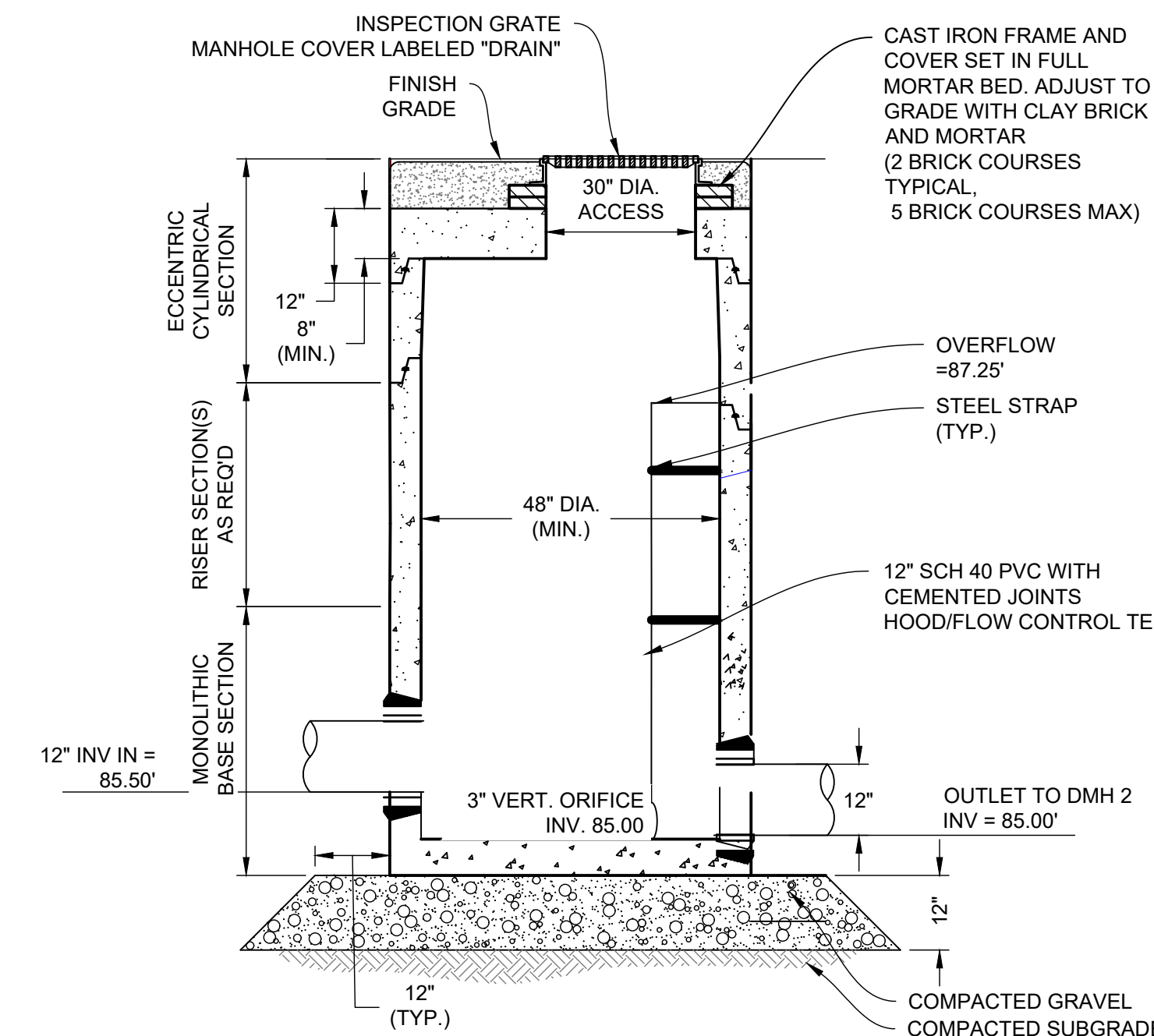
4 FLARED END SECTION (FES) WITH STONE PROTECTION
NOT TO SCALE



5 BURIED PIPE SYSTEM - POND 3P
NOT TO SCALE



6 BURIED PIPE SYSTEM DETAIL (PLAN VIEW) - POND 3P
NOT TO SCALE



7 OCS 1 - POND P1
NOT TO SCALE

| NO. | DATE | REVISIONS | BY |
|-----|---------|----------------------|-----|
| 1. | 2/21/25 | PEER REVIEW COMMENTS | BCO |



Z:\PROJECTS\CHC_CHANNEL_BUILDING\142_Drawing\142_Arch\DWG\DWG\CS6003.dwg PLOTTED: 2/25/25 12:38 PM BY: JAE FLOTSTYLE: ITTEN_NCS.dwg PROJECT STATUS: —

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 18" |
| 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 |
| SEE GENERAL NOTES 6-7 FOR INLET AND OUTLET HYDRAULIC AND SIZING REQUIREMENTS. | |
| 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

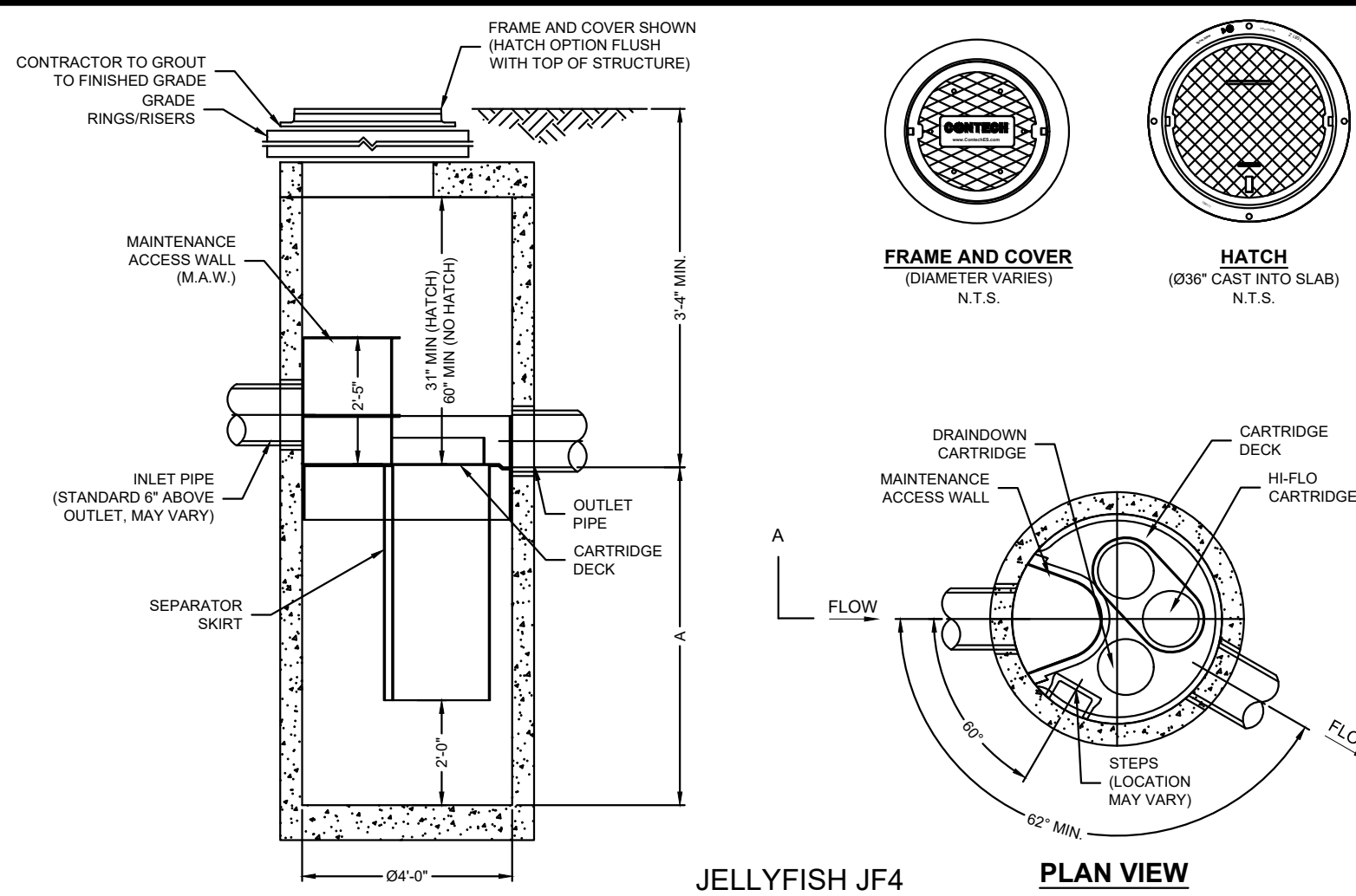
| CARTRIDGE LENGTH | 54" | 40" | 27" | 15" |
|---|---------------|---------------|---------------|---------------|
| OUTLET INVERT TO STRUCTURE INVERT (A) | 6'-6" | 5'-4" | 4'-3" | 3'-3" |
| FLOW RATE HI-FLO / DRAINDOWN (CFS) (PER CART) | 0.178 / 0.089 | 0.133 / 0.067 | 0.089 / 0.045 | 0.049 / 0.025 |
| 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 |

GENERAL NOTES:

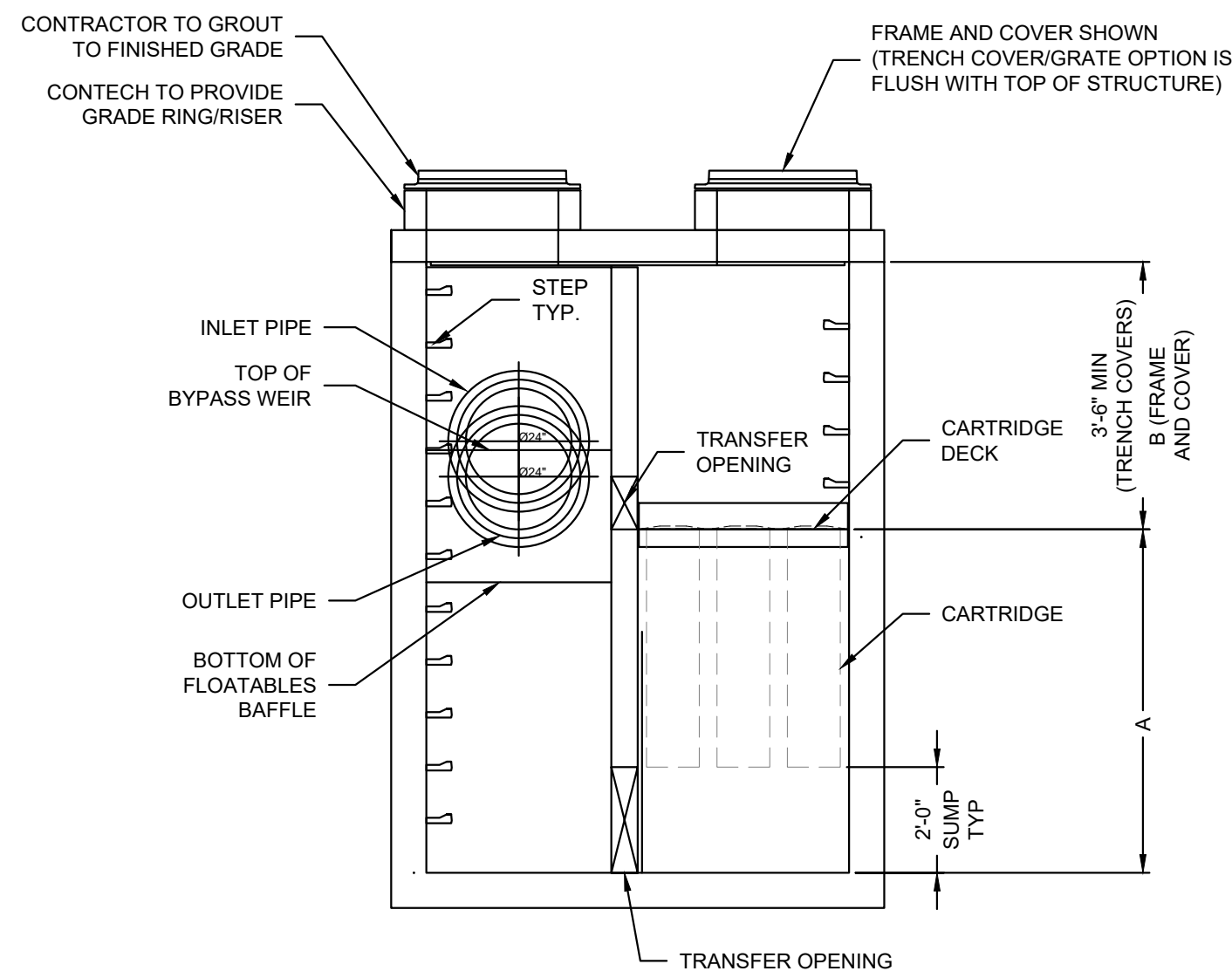
- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS REPRESENTATIVE. www.contechES.com
- JELLYFISH WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND 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:

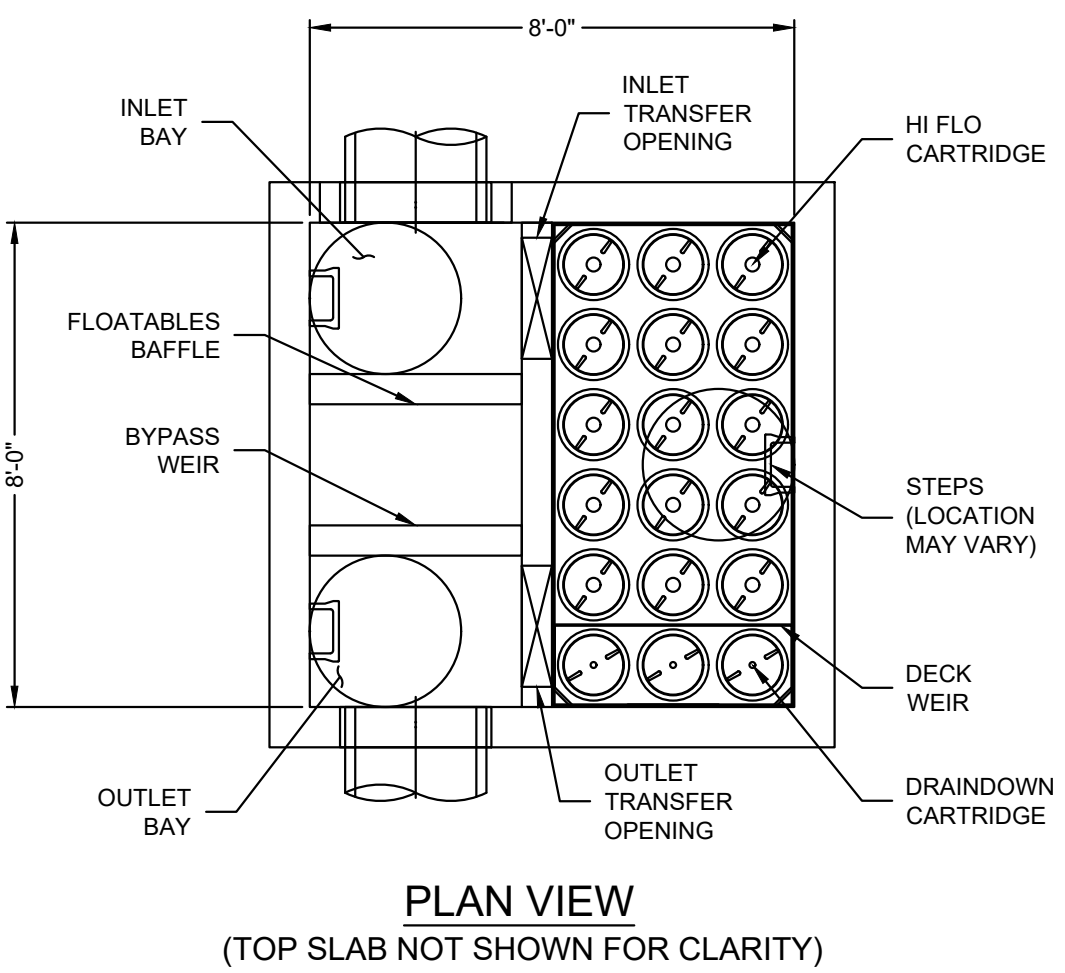
- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE.
- CONTRACTOR WILL INSTALL AND LEVEL THE STRUCTURE, 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.



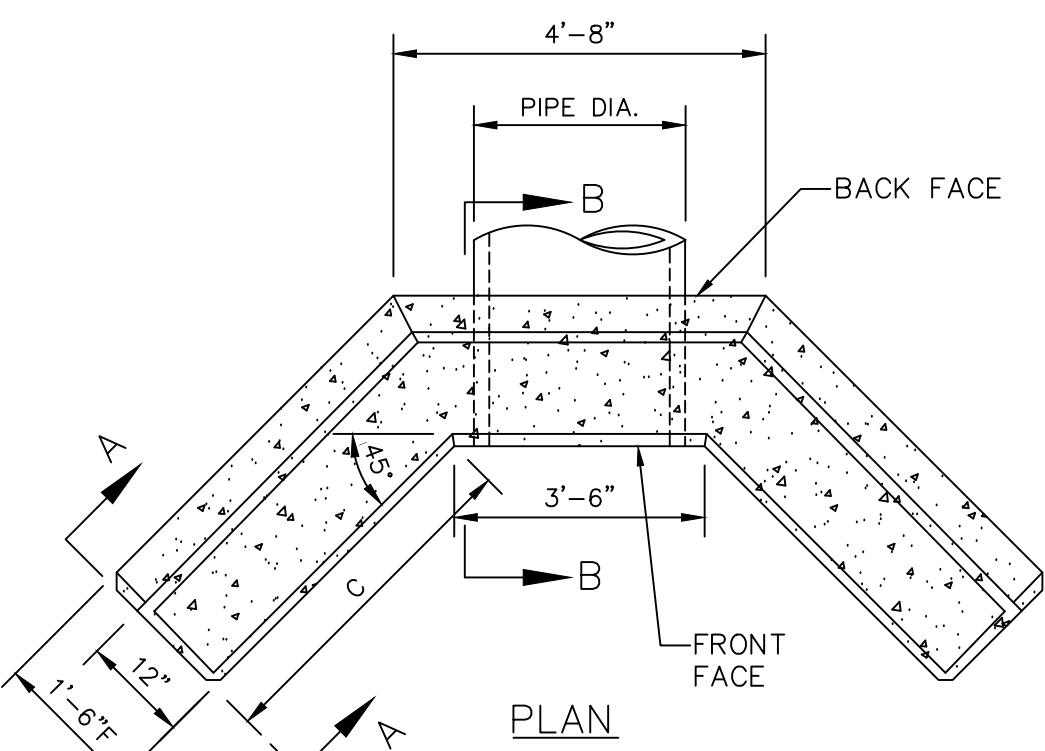
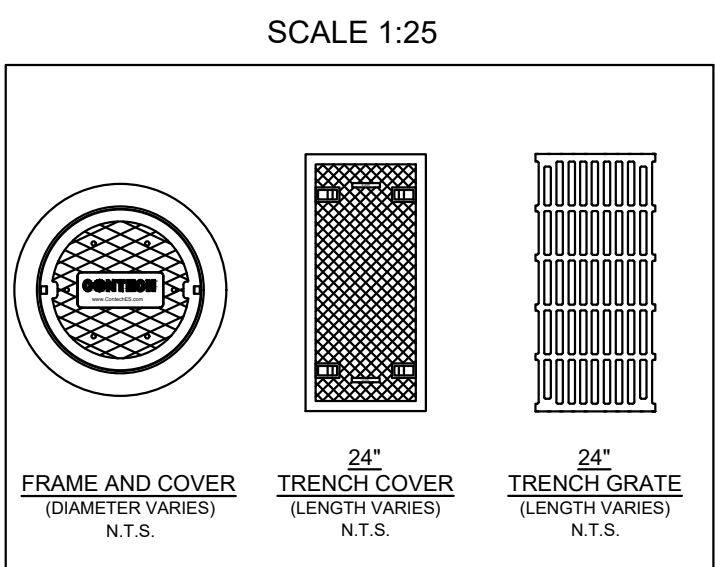
**JELLYFISH JF4
STANDARD DETAIL
OFFLINE CONFIGURATION**



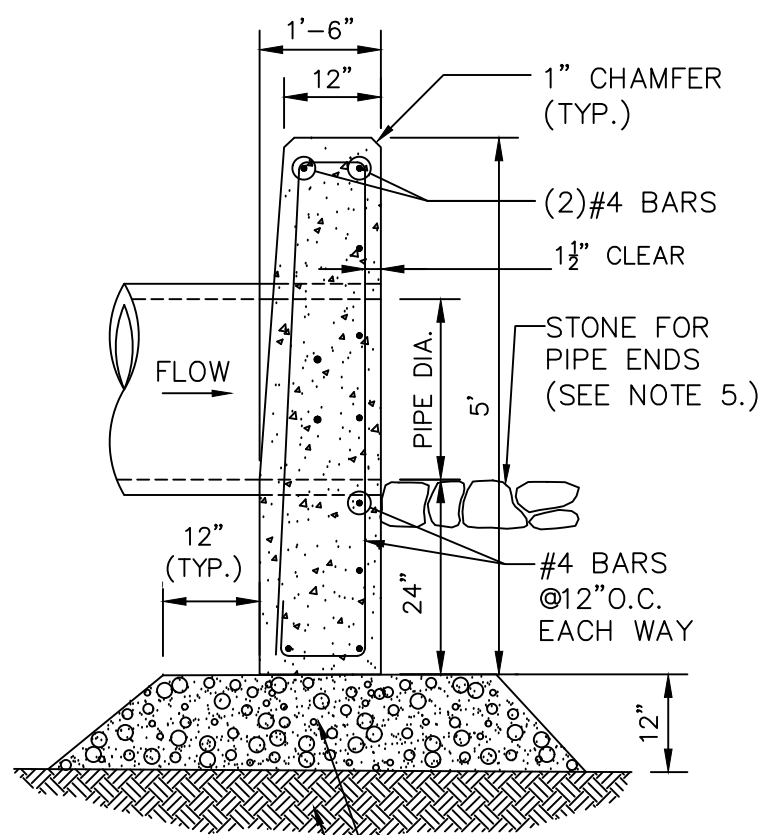
ELEVATION VIEW



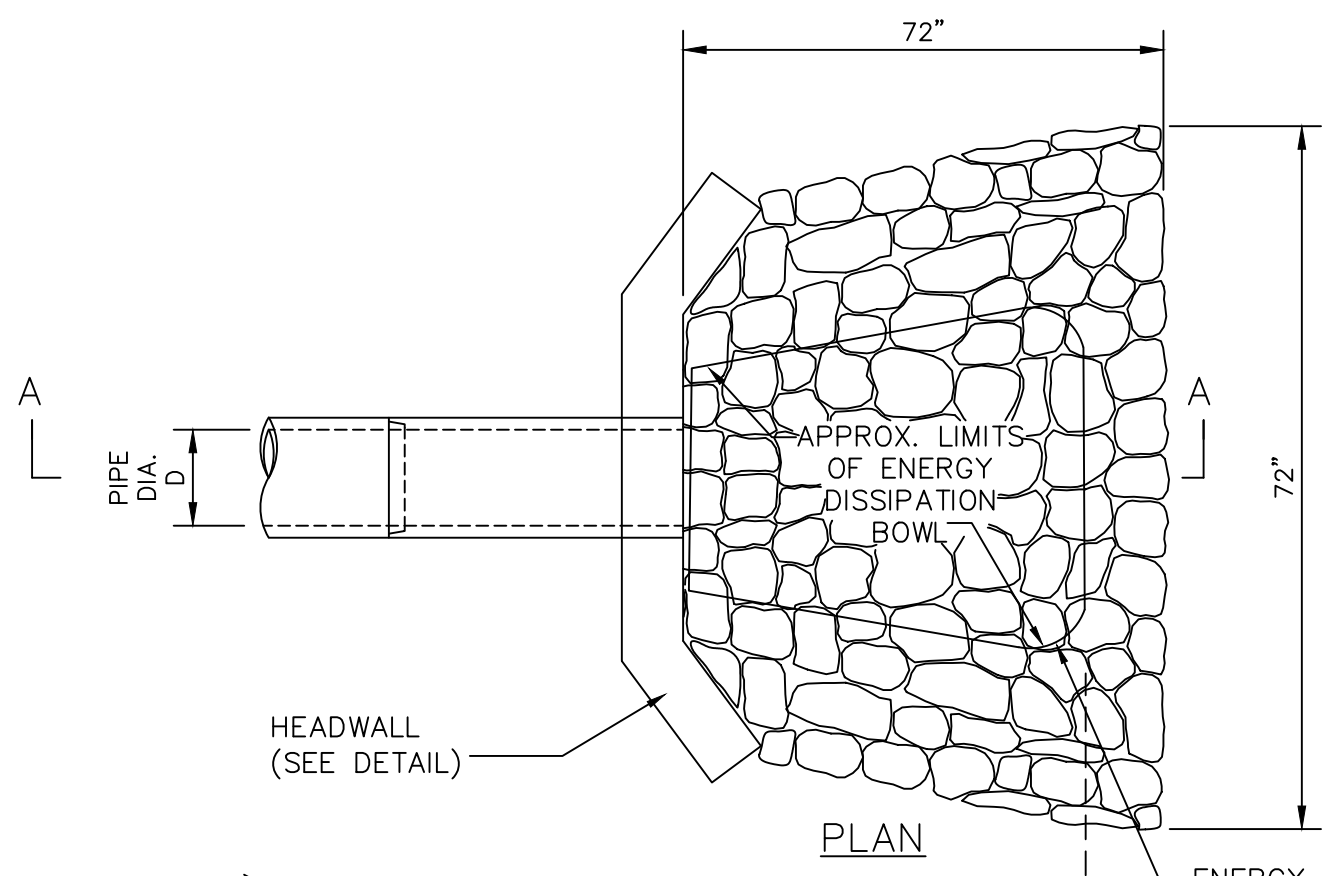
**JELLYFISH JFPD0808
STANDARD DETAIL
PEAK DIVERSION CONFIGURATION**



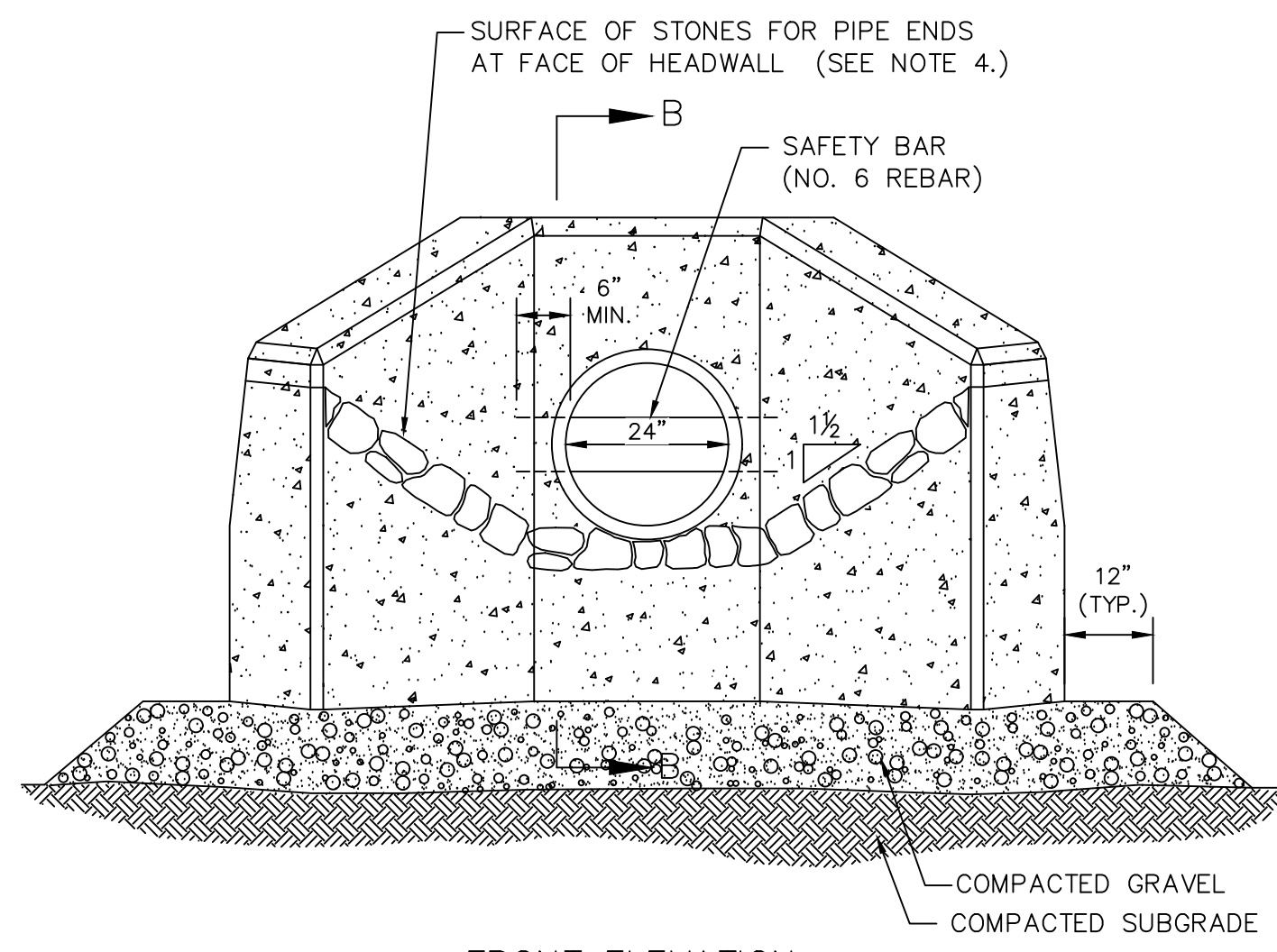
PLAN



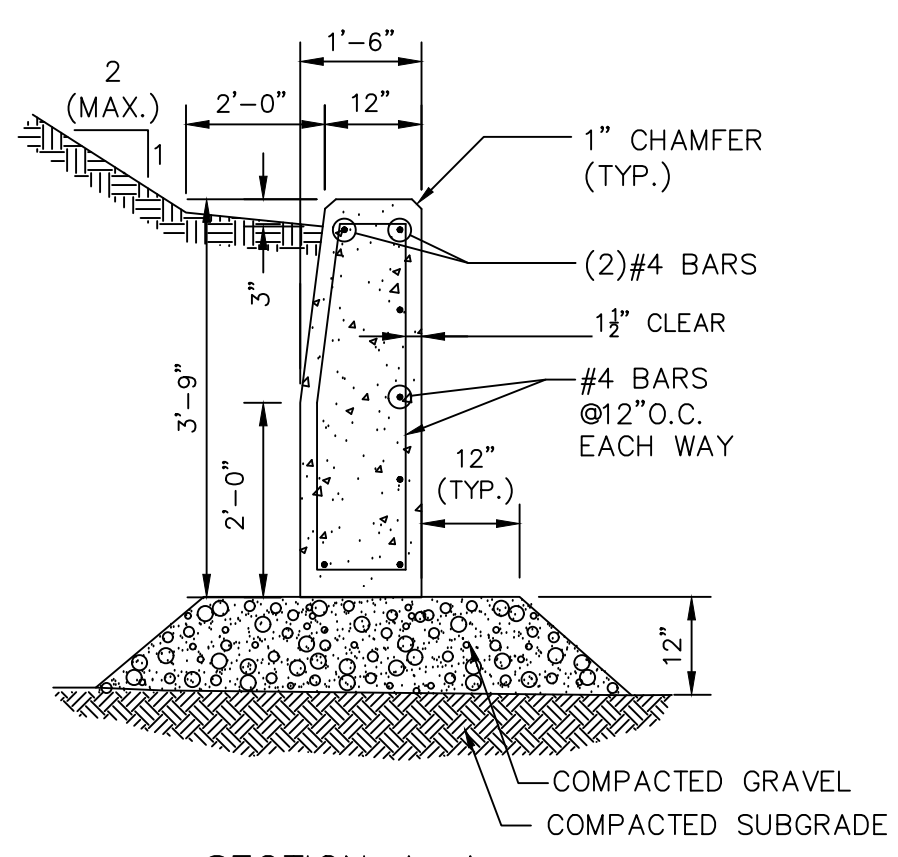
SECTION B-B



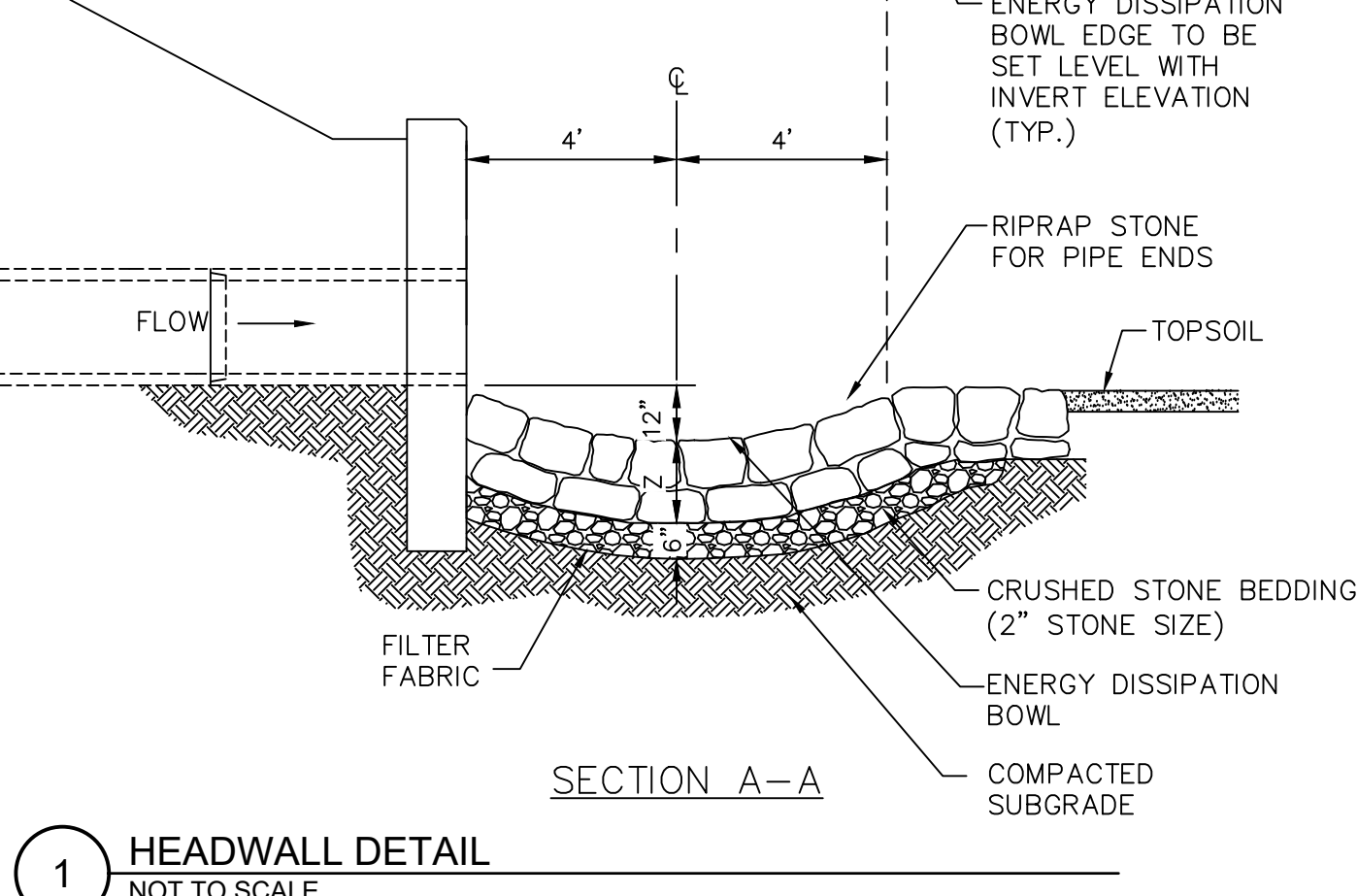
PLAN



FRONT ELEVATION



SECTION A-A



SECTION A-A

**1 HEADWALL DETAIL
NOT TO SCALE**



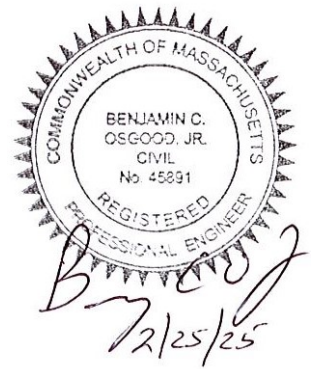
SITE PLAN
140 HAVERHILL STREET
ANDOVER MA, 01810

DRAINAGE DETAILS

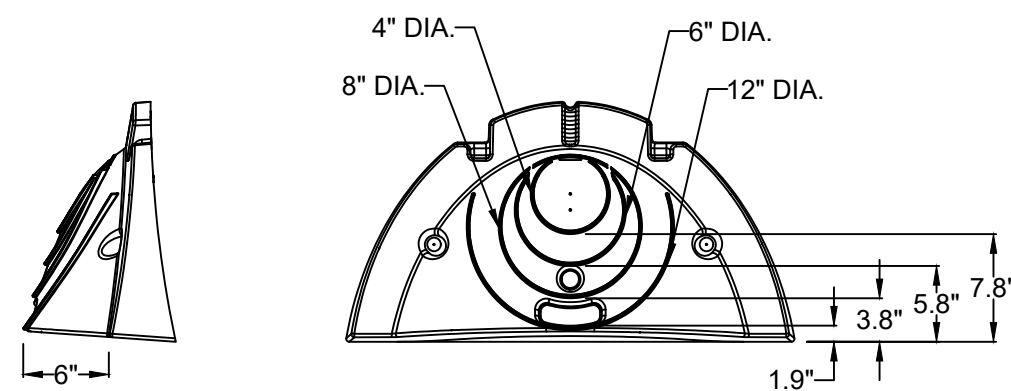
MEDICO 140, LLC
355 MIDDLESEX AVE SUITE 7
WILMINGTON, MA 01887

| NO. | DATE | REVISIONS | BY |
|-----|---------|----------------------|-----|
| 1. | 2/21/25 | PEER REVIEW COMMENTS | BCO |

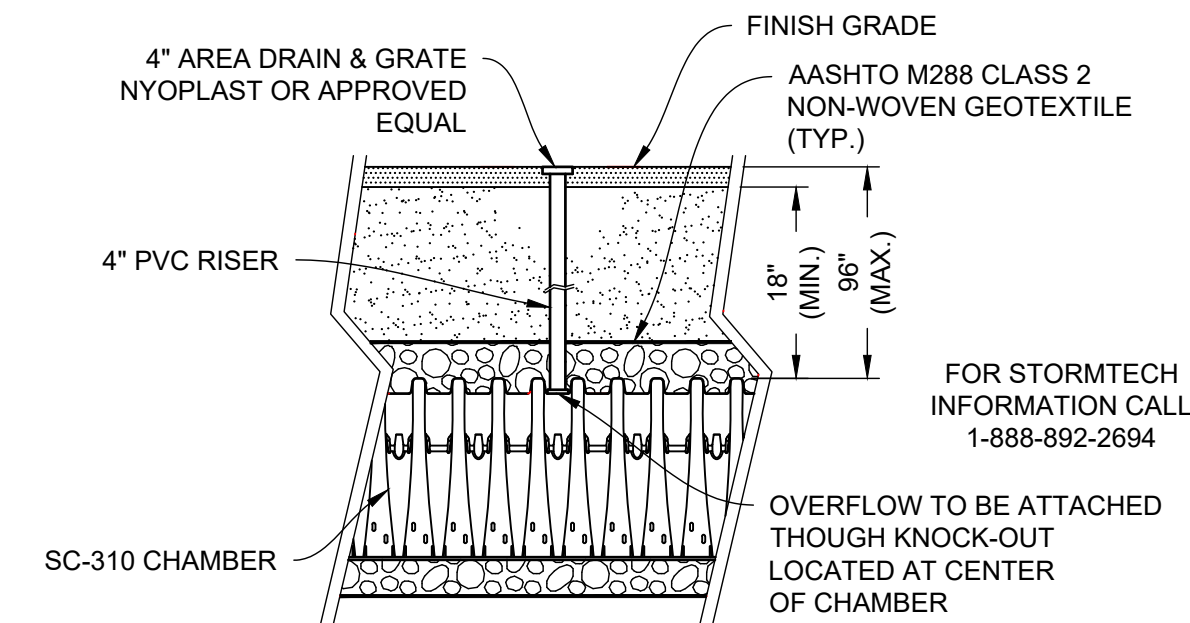
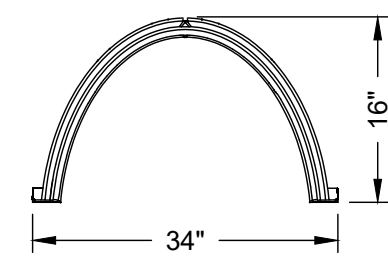
PROJECT: 19-152
DATE: DECEMBER 18, 2024
DRAWING SCALE: 1"= 40'
DRAWN BY: OMR
APPROVED BY: BCO



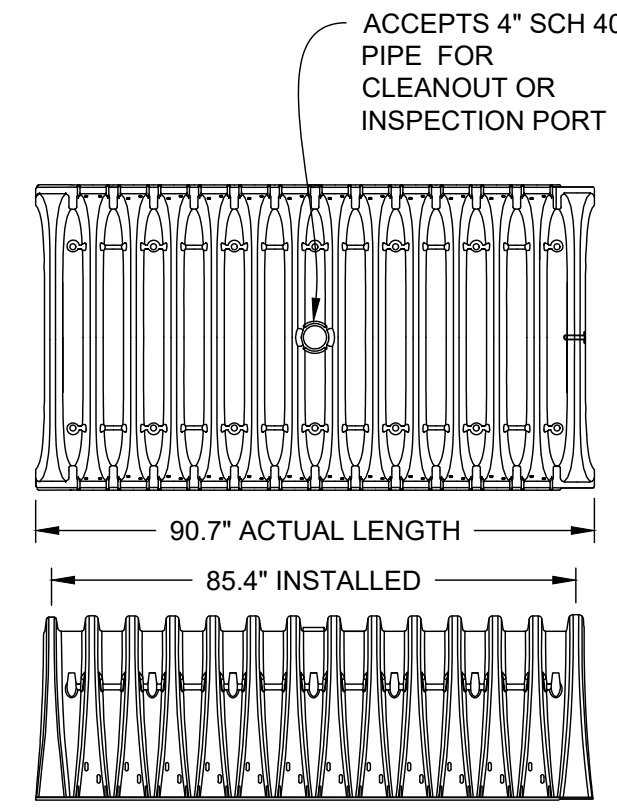
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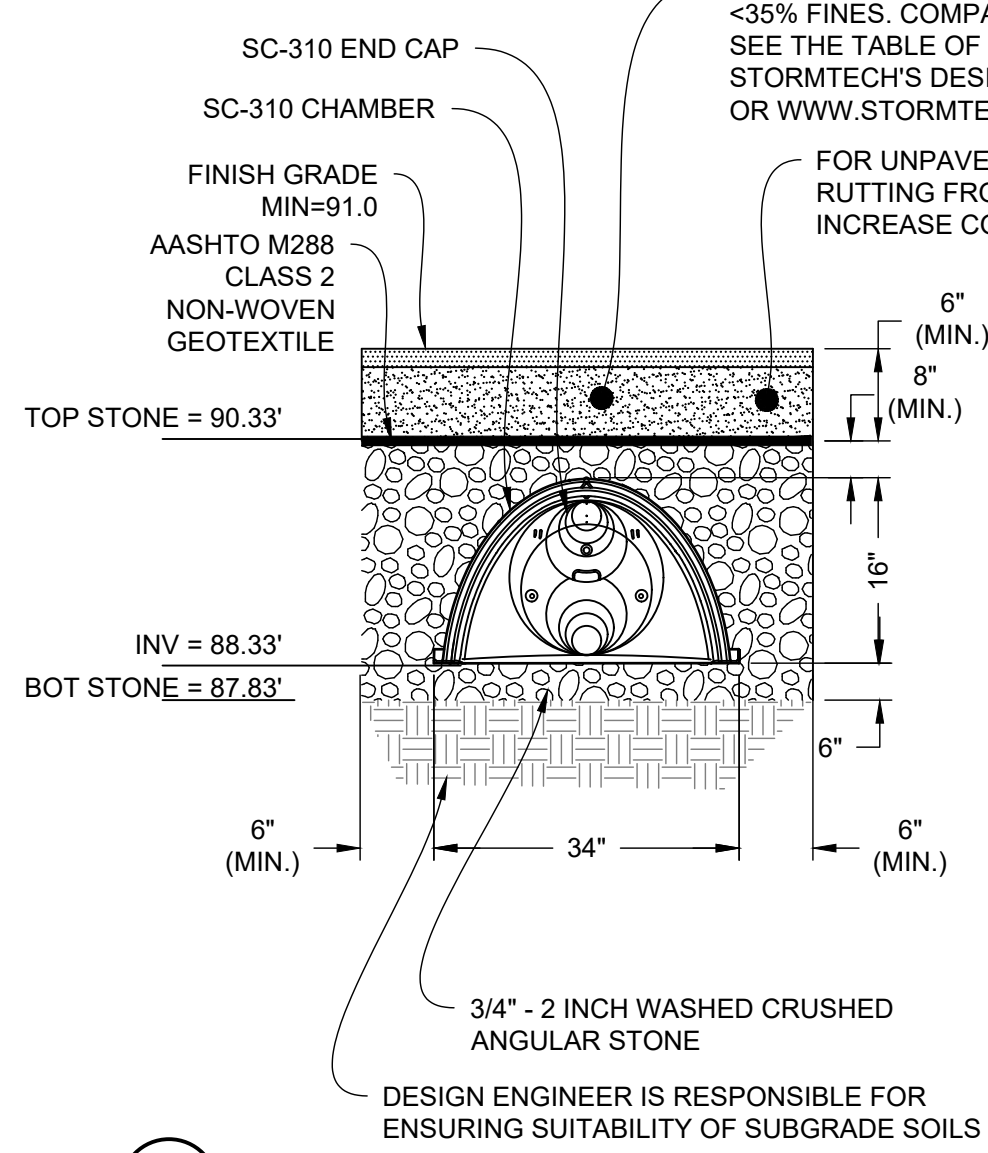
1 STORMTECH SC-310 CHAMBER - END CAP DETAIL
NOT TO SCALE



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



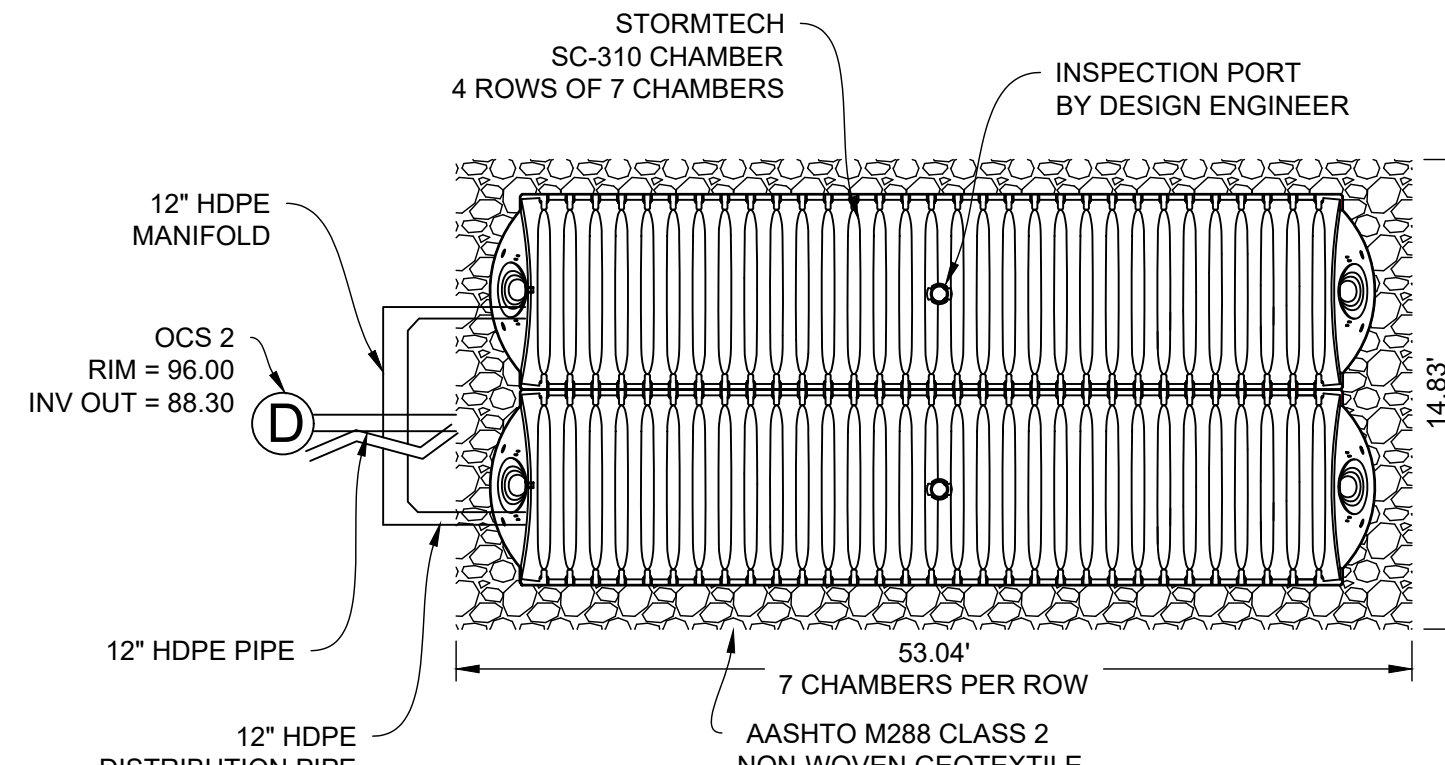
3 STORMTECH SC-310 CHAMBER DETAIL
NOT TO SCALE



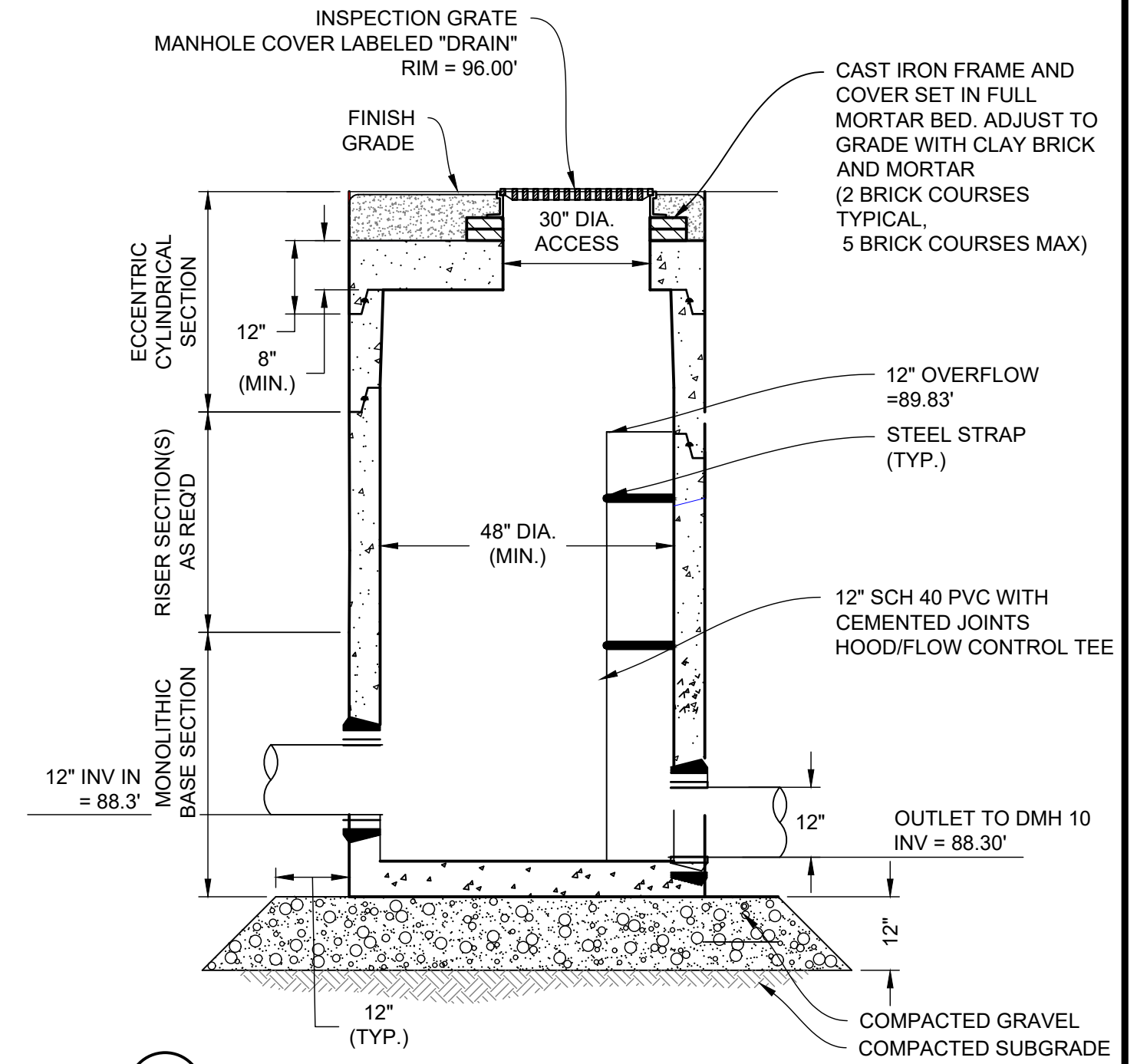
4 STORMTECH SC-310 CHAMBER SYSTEM - POND P2
NOT TO SCALE

FOR UNPAVED INSTALLATION WHERE RUTTING FROM VEHICLES MAY OCCUR, INCREASE COVER TO 24 INCHES

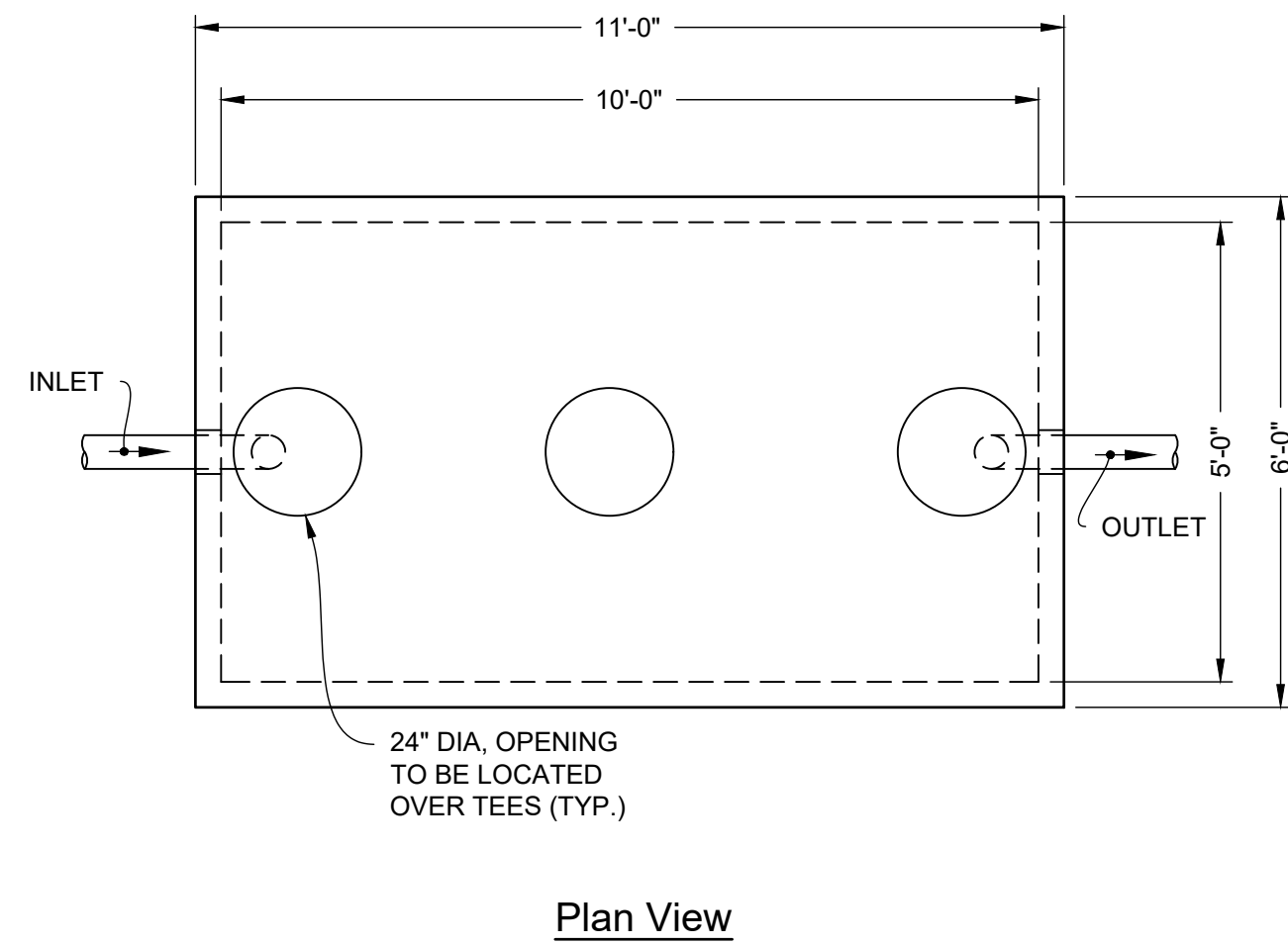
FOR STORMTECH INFORMATION CALL 1-888-892-2694 *SEE STORMTECH'S DESIGN MANUAL



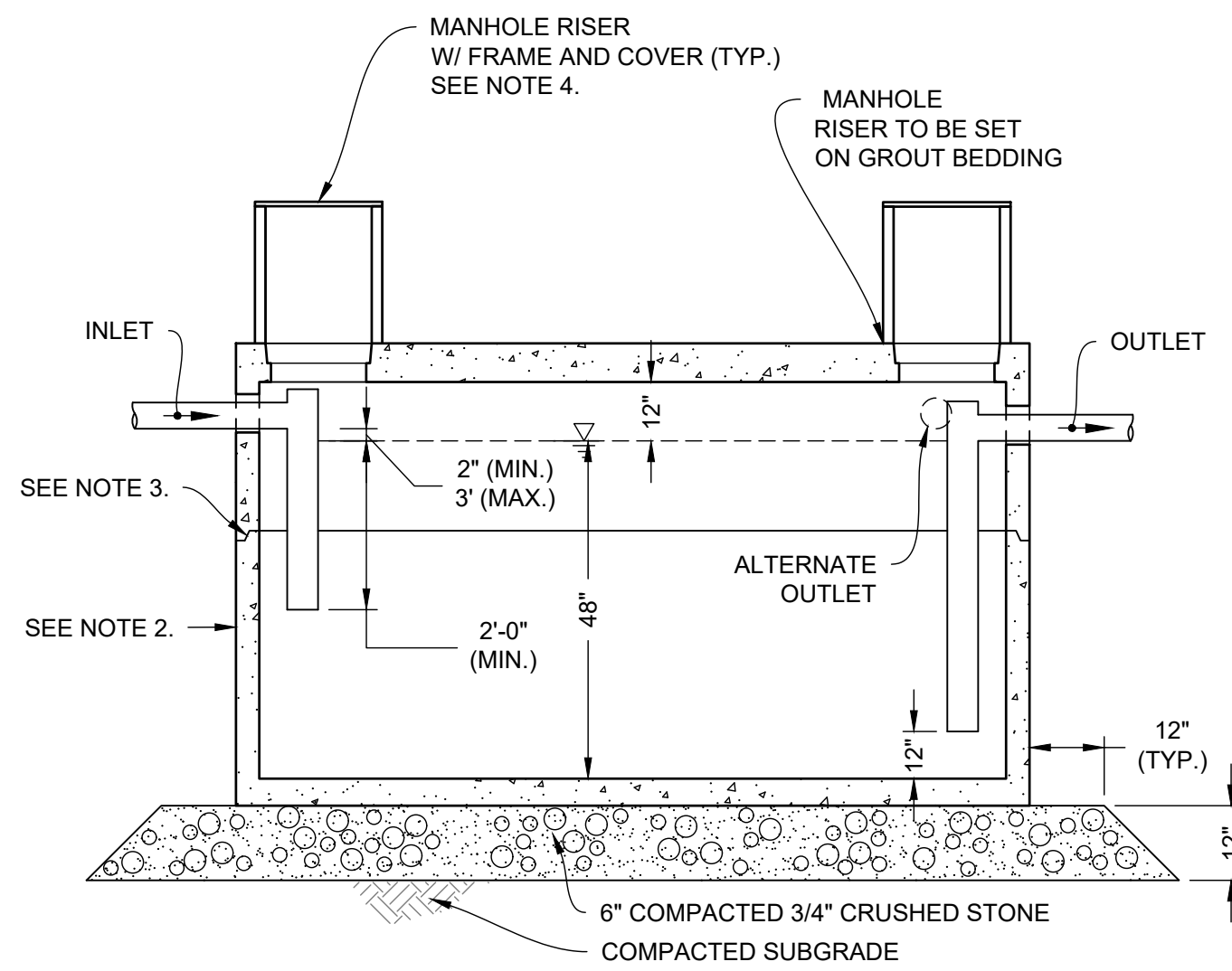
5 STORMTECH SC-310 CHAMBER DETAIL (PLAN VIEW) - POND P2
NOT TO SCALE



6 OCS 2 - POND P2
NOT TO SCALE



Plan View



Section

NOTES:

- STRUCTURE SHALL BE DESIGNED FOR HS-20 LOADING.
- EXTERIOR SURFACES SHALL BE GIVEN TWO COATS OF BITUMINOUS WATER-PROOFING MATERIAL.
- JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
- STANDARD 24-INCH SEWER MANHOLE FRAME AND COVER SHALL BE LOCATED OVER TEES AND SET IN FULL MORTAR BED. ADJUST TO GRADE WITH SEWER BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM)
- PIPING SHALL BE SCH 40 PVC. INTERNAL PIPE DIAMETER SHALL BE SAME SIZE AS OUTLET PIPE.

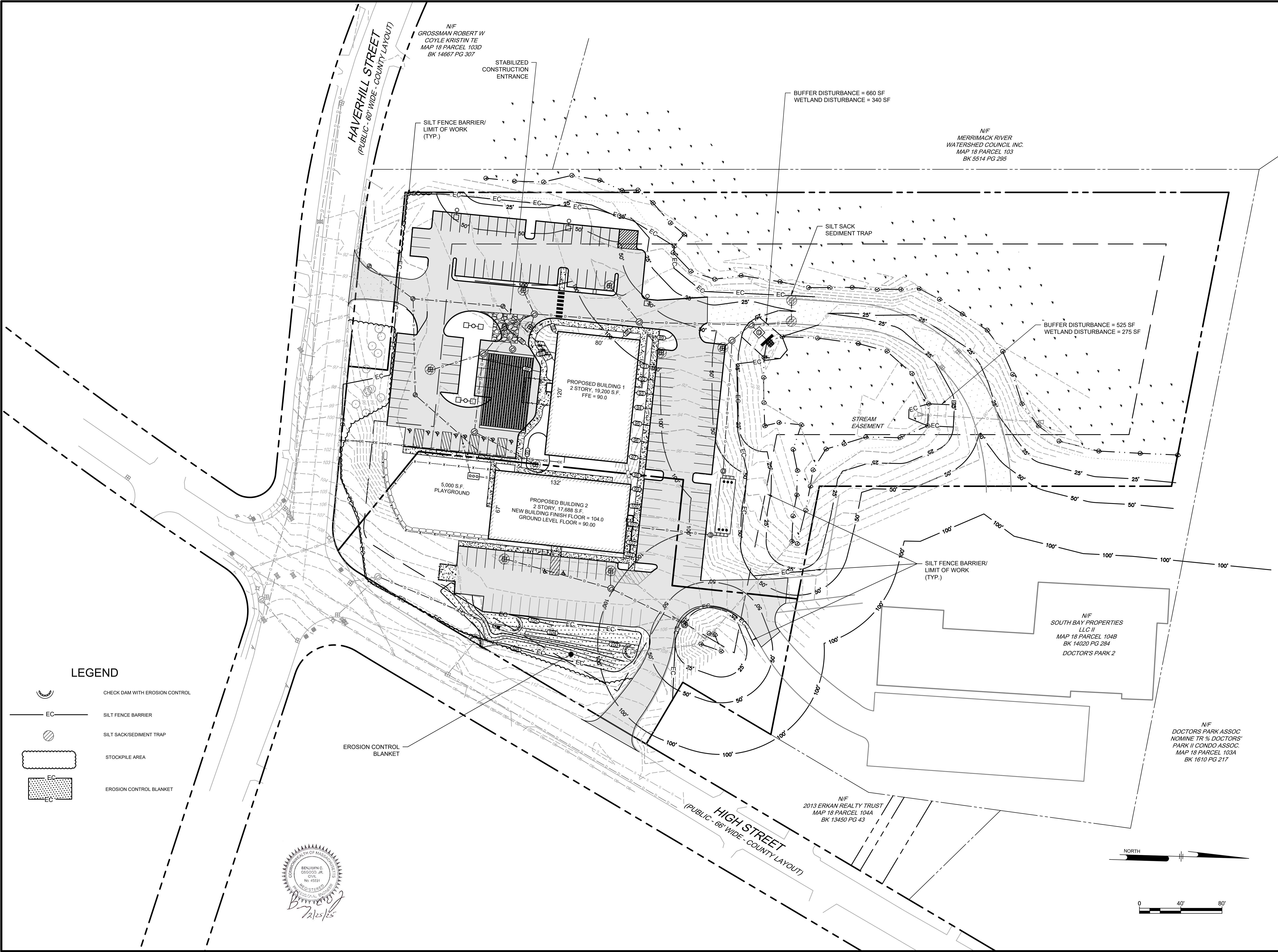
7 PRECAST CONCRETE GREASE TRAP - 1,500 GALLON
NOT TO SCALE




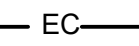


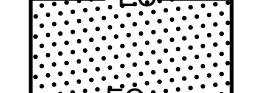
| NO. | DATE | REVISIONS | BY |
|-----|---------|----------------------|-----|
| 1. | 2/21/25 | PEER REVIEW COMMENTS | BCO |

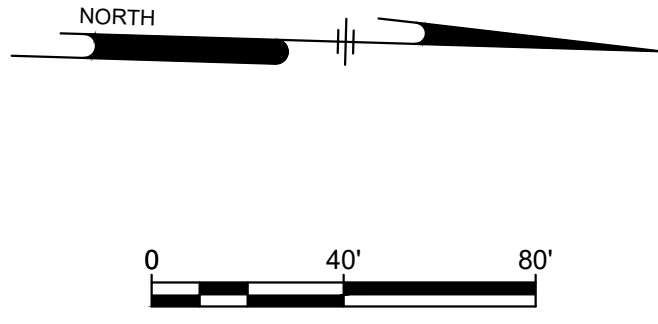
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|---------------|-------------------|
| PROJECT | 19-152 |
| DATE | DECEMBER 18, 2024 |
| DRAWING SCALE | 1"= 40' |
| DRAWN BY | OMR |
| APPROVED BY | BCO |

Z:\PROJECTS\CHC - CHANNEL BUILDING\18-152 DOCTOR'S PARK AND ADJACENT WETLANDS CORRESPONDENCE\DRAWING\18-152 DOCTOR'S PARK (100% PLAN) EROSION AND SEDIMENT CONTROL PLAN CS8001.dwg PLOTTED: 2023/08/13 10:31 AM BY: JMM PROJECT STATUS: N/A



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 01887

| DATE | NO. | REVISIONS | BY |
|---------|-----|----------------------|-----|
| 2/21/25 | 1. | PEER REVIEW COMMENTS | BCO |

PROJECT: 19-152
 DATE: DECEMBER 18, 2024
 DRAWING SCALE: 1"= 40'
 DRAWN BY: OMR
 APPROVED BY: BCO

CS8001
 SHEET 17 OF 19

