

LOCUS MAP  
© 2013 ESRI WORLD STREET MAPS  
NOT TO SCALE

- NOTES:**
- PROPERTY KNOWN AS LOT 480 AS SHOWN ON THE TOWN OF STURBRIDGE, WORCESTER COUNTY, COMMONWEALTH OF MASSACHUSETTS; MAP NO. 415.
  - AREA = 82,722 SQUARE FEET OR 1.944 ACRES.
  - LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE. LOCATIONS AND SIZES ARE BASED ON UTILITY MARK-OUTS ABOVE GROUND STRUCTURES THAT WERE VISIBLE & ACCESSIBLE IN THE FIELD AND THE MAPS AS LISTED IN THE REFERENCES AVAILABLE AT THE TIME OF THE SURVEY. AVAILABLE AS-BUILT PLANS AND UTILITY MARKOUT DOES NOT ENSURE MAPPING OF ALL UNDERGROUND UTILITIES AND STRUCTURES. BEFORE ANY EXCAVATION IS TO BEGIN, ALL UNDERGROUND UTILITIES SHOULD BE VERIFIED AS TO THEIR LOCATION, SIZE AND TYPE BY THE PROPER UTILITY COMPANIES. CONTROL POINT ASSOCIATES, INC. DOES NOT GUARANTEE THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN SERVICE OR ABANDONED.
  - THIS PLAN IS BASED ON INFORMATION PROVIDED BY A SURVEY PREPARED IN THE FIELD BY CONTROL POINT ASSOCIATES, INC. AND OTHER REFERENCE MATERIAL AS LISTED HEREON.
  - THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO THE RESTRICTIONS, COVENANTS AND/OR EASEMENTS THAT MAY BE CONTAINED THEREIN.
  - BY GRAPHIC PLOTTING ONLY PROPERTY IS LOCATED IN FLOOD HAZARD ZONE UNSHADED (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) PER REF. #2
  - ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAV88), BASED ON GPS OBSERVATIONS UTILIZING THE KEYSTONE VRS NETWORK (KEYNETGPS) TAKEN AT THE TIME OF THE FIELD SURVEY.
- TEMPORARY BENCH MARKS SET:**  
 TBM-A: X-CUT IN BOLT OVER MAIN OUTLET OF FIRE HYDRANT ON EASTERLY SIDE OF ARNOLD STREET. ELEVATION = 613.64'  
 TBM-B: MAG NAIL SET IN CONCRETE SIDEWALK ON NORTHERLY SIDE OF MAIN STREET. ELEVATION = 599.21'
- PRIOR TO CONSTRUCTION IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE BENCHMARKS ILLUSTRATED ON THIS SKETCH HAVE NOT BEEN DISTURBED AND THEIR ELEVATIONS HAVE BEEN CONFIRMED. ANY CONFLICTS MUST BE REPORTED PRIOR TO CONSTRUCTION.
- THE OFFSETS SHOWN ARE NOT TO BE USED FOR THE CONSTRUCTION OF ANY STRUCTURE, FENCE, PERMANENT ADDITION, ETC.

**LEGEND**

- 124 --- EXISTING CONTOUR
- 125 --- EXISTING SPOT ELEVATION
- 10 123.45 --- EXISTING TOP OF CURB ELEVATION
- 12 122.95 --- EXISTING GUTTER ELEVATION
- 14 123.45 --- EXISTING TOP OF WALL ELEVATION
- 16 122.95 --- EXISTING BOTTOM OF WALL ELEVATION
- 18 123.45 --- EXISTING TOP OF ISLAND ELEVATION
- 20 122.95 --- EXISTING BOTTOM OF ISLAND ELEVATION
- 22 123.45 --- EXISTING FINISHED FLOOR ELEVATION
- 24 123.45 --- EXISTING DOOR SILL ELEVATION
- 26 --- HYDRANT
- 28 --- WATER VALVE
- 30 --- ELECTRIC METER
- 32 --- OVERHEAD WIRES
- 34 --- APPROX. LOC. UNDERGROUND ELECTRIC LINE
- 36 --- UTILITY POLE
- 38 --- UTILITY POLE/LIGHT POLE
- 40 --- GUY WIRE
- 42 --- SIGN
- 44 --- MAIL BOX
- 46 --- BOLLARD
- 48 --- METAL GUIDE RAIL
- 50 --- POST
- 52 --- PAINTED ARROWS
- 54 --- CHAIN LINK FENCE
- 56 --- EDGE OF CONCRETE
- 58 --- EDGE OF PAVEMENT
- 60 --- LANDSCAPED AREA
- 62 --- RAILROAD TIE WALL
- 64 --- TYPICAL
- 66 --- SANITARY/SEWER MANHOLE
- 68 --- CATCH BASIN OR INLET
- 70 --- TREE & TRUNK SIZE
- 72 --- PARKING SPACE COUNT
- 74 --- SOLID WHITE LINE
- 76 --- SOLID YELLOW LINE
- 78 --- HEIGHT
- 80 --- BUILDING
- 82 --- BUILDING FOOTPRINT AREA
- 84 --- ELEVATION
- 86 --- POLYVINYL CHLORIDE PIPE
- 88 --- AIR CONDITIONER
- 90 --- EDGE OF GRAVEL
- 92 --- INVERT ELEVATION
- 94 --- GRATE ELEVATION
- 96 --- NOT FIELD VERIFIED
- 98 --- ROOF DRAIN

MAP 415, LOT 484  
 N/F LANDS OF  
 M.R. MAIN PROPERTIES, LLC  
 BK. 52084, PG. 110

PROPERTY LINE LOCATION BASED ON GRAPHICAL PLOTTING TAKEN FROM PLAN BOOK 484 PAGE 56 AND MASSDOT 1534 RECONSTRUCTION PLANS FOR STURBRIDGE-BRIMFIELD ROAD, CONTROLLED BY 2005 AERIAL IMAGERY

**MAIN STREET**  
(AKA MA ROUTE 20)  
(PUBLIC-VARIABLE WIDTH)

(PER REF #4)  
 TWO WAY TRAFFIC  
 (ASPHALT ROADWAY)

UP #173 1-2 -80  
 UP #173 79-50  
 UP #172 79

CONC. BOUND FOUND (HELD FOR LINE)  
 R=3000.00'  
 Δ=001°20'09"  
 L=83.93'  
 CHB=N69°40'59"W  
 CHD=83.92'



(IN FEET)  
 1 inch = 20 ft.

**UTILITIES:**  
 THE FOLLOWING COMPANIES WERE NOTIFIED BY MASSACHUSETTS ONE-CALL SYSTEM (1-888-344-7233) AND REQUESTED TO MARK OUT UNDERGROUND FACILITIES AFFECTING AND SERVICING THIS SITE. THE UNDERGROUND UTILITY INFORMATION SHOWN HEREON IS BASED UPON THE UTILITY COMPANIES RESPONSE TO THIS REQUEST. SERIAL NUMBER(S):

- UTILITY COMPANY**
- SUBURBAN PROPANE - MARLBORO 800-776-7263
  - VERIZON 800-922-0204
  - CHARTER COMMUNICATIONS 833-267-6094
  - CROWN CASTLE NG NETWORKS 855-913-4237
  - MASSACHUSETTS TECHNOLOGY PARK CORP. 508-870-0312
  - NATIONAL GRID ELECTRIC-MASS ELECTRIC 800-322-3223
  - OSTERMAN PROPANE 508-234-4588
  - NATIONAL GRID GAS-BOSTON 800-233-5325
  - SOUTHBRIDGE WATER DEPARTMENT 508-784-3207
  - BUCKEYE PARTNERS LP 832-615-8600
  - KINDER MORGAN-TENNESSEE GAS 800-276-9927



THE COMMONWEALTH OF MASSACHUSETTS REQUIRES NOTIFICATION BY EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE COMMONWEALTH.

THIS SURVEY HAS BEEN PERFORMED IN THE FIELD UNDER MY SUPERVISION, AND TO THE BEST OF MY KNOWLEDGE, BELIEF, AND INFORMATION, THIS SURVEY HAS BEEN PERFORMED IN ACCORDANCE WITH CURRENTLY ACCEPTED ACCURACY STANDARDS.

NOT A VALID ORIGINAL DOCUMENT UNLESS EMBOSSED WITH RAISED IMPRESSION OR STAMPED WITH A BLUE INK SEAL

**GERRY L. HOLDRIGHT, PLS**  
 MASSACHUSETTS PROFESSIONAL LAND SURVEYOR #49211

<b>BOUNDARY &amp; TOPOGRAPHIC SURVEY</b> <b>BARGMANN HENDRIE + ARCHETYPE, INC.</b> 480 MAIN STREET MAP 415, LOT 480 TOWN OF STURBRIDGE, WORCESTER COUNTY COMMONWEALTH OF MASSACHUSETTS	
FIELD DATE 2-13-2020 2-24-2020 FIELD BOOK NO. 19-22 MA 20-02 MA FIELD BOOK PGS. 05-06 24	FIELD CREW J.D.O. T.R.M. R.J.K.
APPROVED: G.L.H.	DATE 4-27-2020
SCALE 1"=20'	FILE NO. 03-190306
DWG. NO. 1 OF 1	DATE 4-27-2020

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# STURBRIDGE SENIOR CENTER

480 MAIN STREET,  
STURBRIDGE, MA 01518

TOWN OF STURBRIDGE

ARCHITECT



101 SUMMER ST BOSTON MA 02110

CIVIL, LANDSCAPE ARCHITECT & SURVEY CONSULTANT



50 Cross Street  
Winchester, Massachusetts 01890  
T: 781.756.0001 F: 781.756.0007

STAMP

KEY PLAN

MARK	DATE	DESCRIPTION
	3-15-2023	CD PROGRESS PRINT

PROJECT NUMBER: 222064.000 - WDG# - W-1717

DRAWN BY: JRM

CHECKED BY: CRM

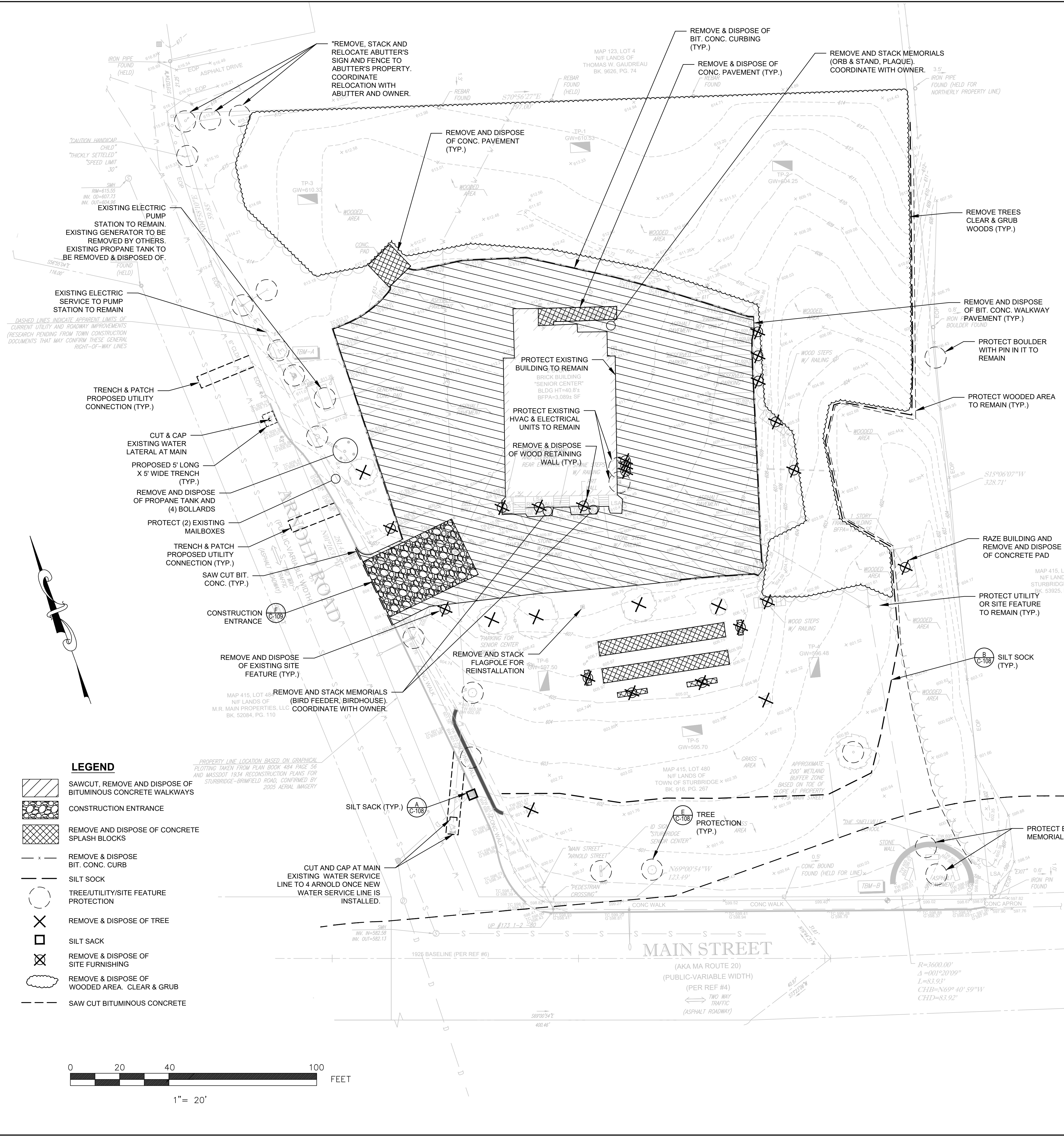
SHEET TITLE

## SITE PREPARATION AND DEMOLITION

# C-102

### SITE PREPARATION & DEMOLITION NOTES

- ALL DEMOLITION DEBRIS SHALL BE LEGALLY DISPOSED OF OFF SITE AND SHALL BE CONSIDERED INCIDENTAL WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND LICENSES, FEES AND APPROVALS REQUIRED TO CORRECTLY COMPLETE THE WORK, INCLUDING STREET OCCUPANCY PERMITS.
- THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY AND LIABILITY FOR THE SAFETY OF ALL WHO WILL TRAVERSE THROUGH THE SITE AND THE STRUCTURAL INTEGRITY AND SAFETY OF ALL EXCAVATIONS, STORED ITEMS, WORK AND UTILITIES TO REMAIN DURING CONSTRUCTION.
- COMPLETELY DEMOLISH ALL FOUNDATIONS, SLABS AND FOOTINGS AND OTHER BELOW GRADE STRUCTURES UNLESS OTHERWISE SPECIFIED OR CALLED OUT IN THE DRAWING.
- ALL EXISTING SURFACE CASTINGS THAT ARE LOCATED IN THE CONSTRUCTION AREA SHALL BE ADJUSTED OR MODIFIED TO MEET THE PROPOSED FINISH GRADES.
- ALL CATCH BASIN AND INLET STRUCTURES SHALL BE CLEARED OF DEBRIS AND FLUSHED FOR POSITIVE DRAINAGE UPON COMPLETION OF WORK.
- SEE LAYOUT PLANS FOR ACCURATE DIMENSIONS TO NEW PAVING, CURBING, ETC. CONSULT ALL DRAWINGS FOR COORDINATING WORK PRIOR TO COMMENCING.
- THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE INSIDE AND OUTSIDE OF LIMITS OF WORK DUE TO CONTRACT OPERATIONS. DAMAGED MATERIAL SHALL INCLUDE BUT IS NOT LIMITED TO PROTECTING GRANITE AND CONCRETE CURBS, WALLS, GATES, FENCES, PLANTERS, SIGNS, AND FIRE HYDRANTS. IF MATERIAL IS DAMAGED IT SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.
- CONTRACTOR SHALL CLEAN CONSTRUCTION SITE DAILY TO PREVENT DUST AND DEBRIS FROM LEAVING THE SITE. DUST CONTROL MUST BE AVAILABLE AT ALL TIMES. CONSTRUCTION AREA MUST BE BROOM SWEEP AND WASHED DOWN AS OFTEN AS REQUIRED TO MAINTAIN A CLEAN SITE ACCEPTABLE TO THE OWNER.
- CONTRACTOR SHALL PROVIDE EMERGENCY ACCESS TO SITE AT ALL TIMES. ANY EQUIPMENT NOT IN USE MUST BE CONFINED TO THE LIMIT OF WORK AREA. CONTRACTOR SHALL COORDINATE EQUIPMENT, DISRUPTION, STAGING AREAS, AND SEQUENCE OF WORK DAILY WITH OWNER OR OWNER'S REPRESENTATIVE.
- CONTRACTOR SHALL WHEN POSSIBLE CRUSH ONSITE AND REUSE CONCRETE AND BITUMINOUS CONCRETE MATERIAL. PRIOR TO REUSE SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER SHOWING THAT THE REUSED MATERIAL MEETS THE APPROPRIATE GRADATION AND A 10 LB. SAMPLE OF THE MATERIAL TO BE REUSED SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- CONTRACTOR SHALL STRIP AND STOCKPILE TOPSOIL, COMPACTED GRAVEL, AND BITUMINOUS MATERIAL FOR POTENTIAL REUSE.
- EXISTING TOPSOIL SHALL BE USED FOR LOAM MIXTURES ONLY IF TESTING INDICATES TOTAL CONFORMITY TO THE SPECIFICATION FOR LOAM BORROW.
- TREE PROTECTION FOR EXISTING TREES TO REMAIN SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITY AND SHALL REMAIN THROUGHOUT CONSTRUCTION.
- ALL GRASS AND LANDSCAPED AREAS MARKED FOR DEMOLITION SHALL BE CLEARED AND GRUBBED.
- APPROVED PLANS SHALL BE ON SITE AT ALL TIMES.
- CHANGES TO THIS PLAN MAY OCCUR AS UNFORESEEN CONDITIONS ARISE. ALL CHANGES SHALL BE APPROVED BY FIELD INSPECTOR.
- CALCIUM CHLORIDE/ WATER FOR DUST CONTROL SHALL BE AVAILABLE AT ALL TIMES.
- ALL MATERIALS AND METHODS SHALL CONFORM TO CITY OF WORCESTER D.P.W. AND WATER AND SEWER OPERATIONS STANDARDS.
- THE CONTRACTOR SHALL ENSURE THE MAINTENANCE OF SAFETY AND TRAFFIC ON THE PUBLIC AND PRIVATE WAYS AFFECTED BY THE CONSTRUCTION OF THIS PROJECT.
- THE CONTRACTOR SHALL PROTECT ALL SLOPES, VEGETATION, PAVING, WALKS AND IMPROVEMENTS OUTSIDE THE AREAS TO BE AFFECTED BY THE CONSTRUCTION OF THIS PROJECT.
- ALL DRAINAGE STRUCTURES (CATCH BASINS / LEECHING BASINS) IN THE AREA SHALL BE PROTECTED FROM RUNOFF.
- "AS-BUILT" UTILITY DRAWINGS ARE TO BE SUBMITTED TO THE ENGINEERING DIVISION UPON COMPLETION OF THIS PROJECT.
- ALL PAVEMENT MARKINGS CHANGED, ALTERED OR REMOVED SHALL BE RE-APPLIED.
- THE CONTRACTOR SHALL HAVE AN APPROVED S.W.P.P. ON SITE AT ALL TIMES.
- WHERE NEW BITUMINOUS CONCRETE PAVEMENT MEETS EXISTING BITUMINOUS CONCRETE PAVEMENT, THE EXISTING BITUMINOUS CONCRETE PAVEMENT SHALL BE SAW CUT AND THE FINAL SURFACE JOINED WITH A SANDED JOINT WITH RS-1 TACK COAT.
- CONTRACTOR MAY REUSE EXISTING DRIVEWAY AND WALKWAY PAVEMENT BASE MATERIAL FOR REUSE, UPON APPROVAL OF THE ENGINEER. REJECTED BASE MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR.
- SEE SHEET C-100 FOR GENERAL NOTES.



5/19/2021 7:49:14 AM



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## LAYOUT & MATERIALS

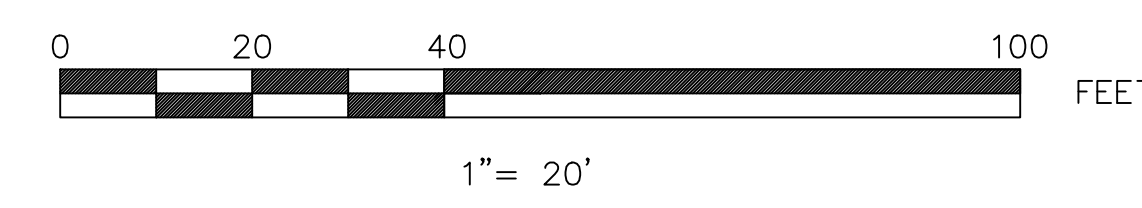
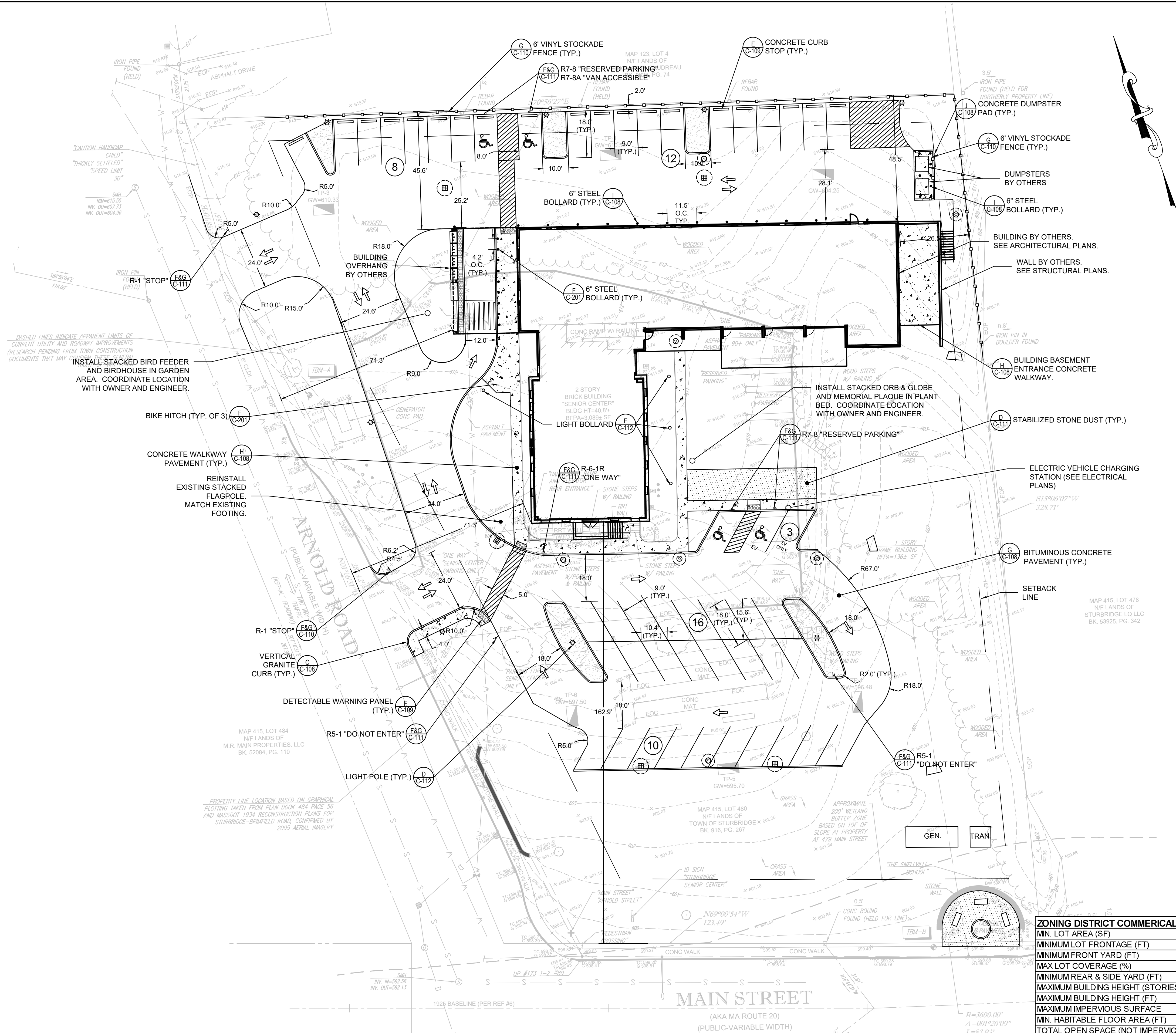
# C-103

### LAYOUT & MATERIALS NOTES

- LAYOUT LINES ARE PARALLEL OR PERPENDICULAR TO LINES FROM WHICH THEY ARE MEASURED, UNLESS OTHERWISE NOTED. DIMENSIONS ARE TO: WALL FACE, PAVEMENT EDGE, EDGE OF IMPROVEMENT, OR AS OTHERWISE NOTED.
- DIMENSIONS SHOWN ON THE DRAWINGS SHOW DESIGN INTENT AND MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
- SITE LAYOUT IS BASED ON THE EXISTING CONDITIONS SURVEY. ANY DISCREPANCY BETWEEN THIS DRAWING AND ACTUAL FIELD CONDITIONS ARE TO BE REPORTED TO THE ENGINEER IMMEDIATELY. THE CONTRACTOR IS TO RECEIVE WRITTEN INSTRUCTIONS PRIOR TO PROCEEDING WITH CONSTRUCTION.

### LEGEND

- CONCRETE WALKWAY PAVEMENT
- STABILIZED STONE DUST
- LOAM AND SEED
- LIGHT POLE
- LIGHT BOLLARD
- CATCH BASIN
- FENCE
- MAN HOLE
- SIGN



ZONING DISTRICT COMMERCIAL TOURIST (CT)	REQUIRED	EXISTING	PROPOSED
MIN. LOT AREA (SF)	10,000	78,147	78,147
MINIMUM LOT FRONTAGE (FT)	100	548.7	548.7
MINIMUM FRONT YARD (FT)	25	70.3	70.3
MAX LOT COVERAGE (%)	30	4.0	12.5
MINIMUM REAR & SIDE YARD (FT)	10	71.5	26.5
MAXIMUM BUILDING HEIGHT (STORIES)	3	3	3
MAXIMUM BUILDING HEIGHT (FT)	35	40.8	40.8
MAXIMUM IMPERVIOUS SURFACE	-	33%	0.6
MIN. HABITABLE FLOOR AREA (FT)	750	NA	NA
TOTAL OPEN SPACE (NOT IMPERVIOUS) (SF)	-	67%	37%

OFF-STREET ACCESSORY PARKING REQUIREMENTS	REQUIRED	EXISTING	PROPOSED
NUMBER OF SPACES REQUIRED (1 PER 500 SF + EMPLOYEES)	26±	29	49
MIN. AISLE WIDTH FOR ONE-WAY ANGLE PARKING (FT)	18	16.5	18
MIN. PARKING SPACE WIDTH (FT)	10*	9	9
MIN. PARKING SPACE LENGTH (FT)	20*	18	18
HANDICAPPED PARKING PROVIDED	2	2	4
MIN. SETBACK FROM PROPERTY LINES (FT)	25	27	2
INTERIOR PARKING LOT LANDSCAPING (%)	5	0	5
MINIMUM INTERIOR SHADE TREES	5	0	5

\* Properties within the CT District shall not be required to comply with current parking requirements for the continued use of a same or similar use that existed at the time of adoption of the bylaw



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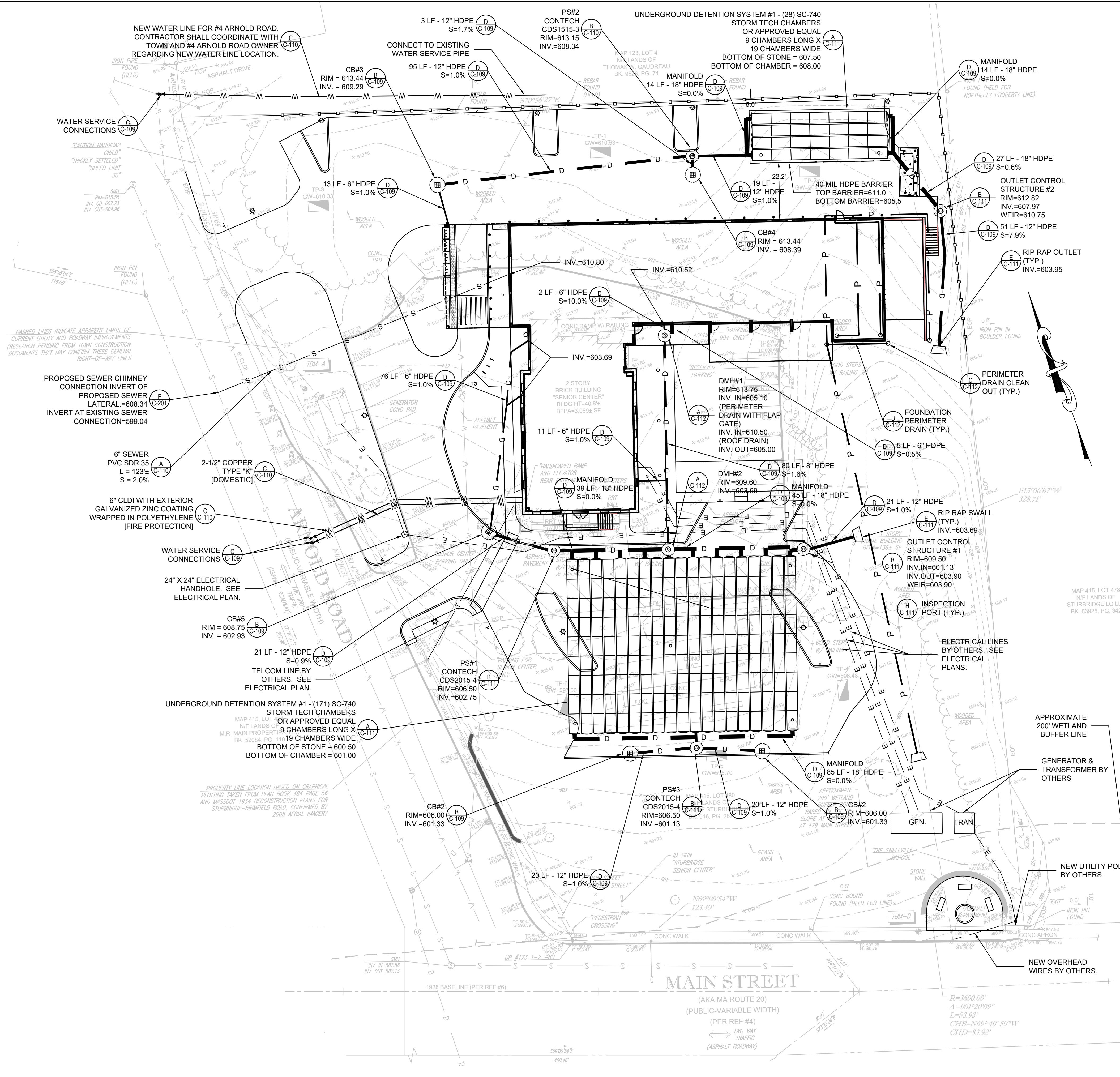
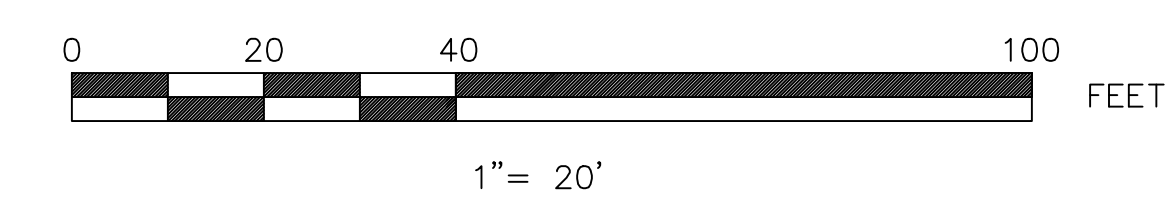
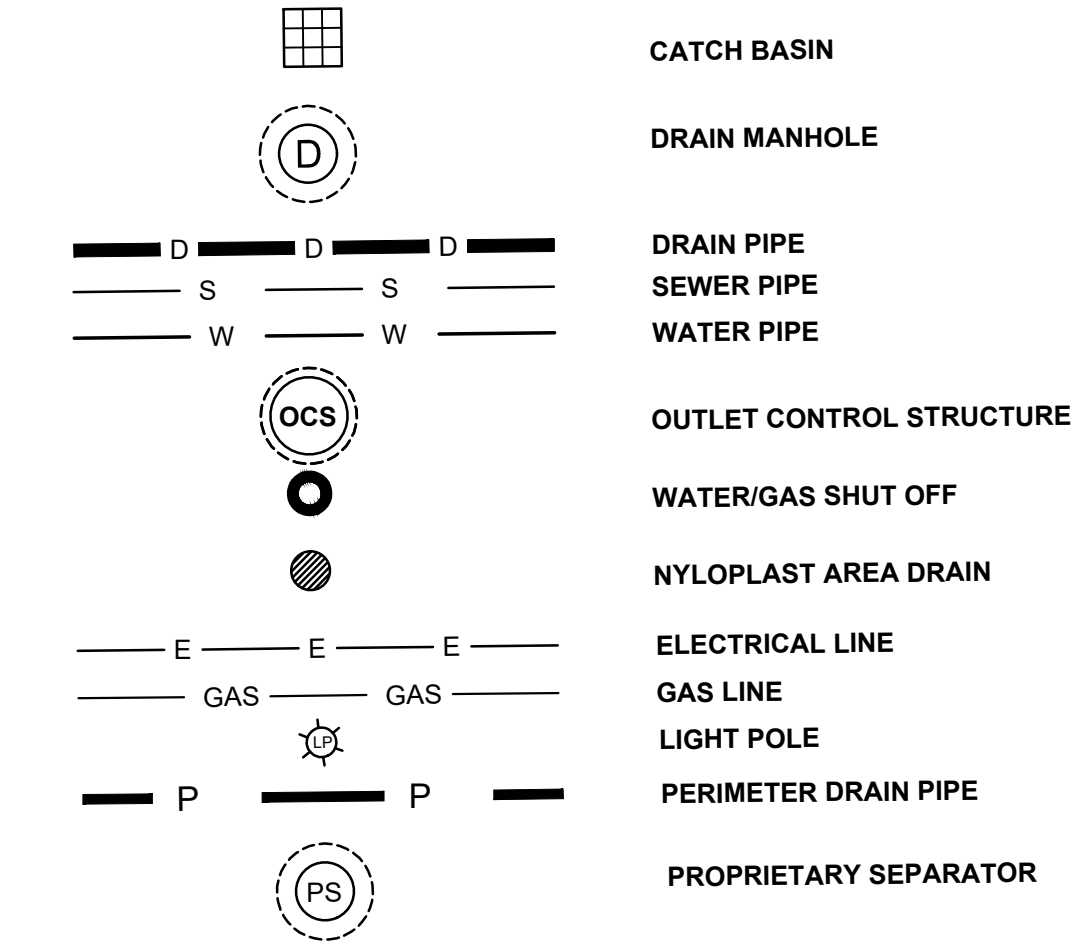
## DRAINAGE & UTILITIES

# C-104

### DRAINAGE & UTILITY NOTES

- PROPOSED PROJECT IS WITHIN THE STURBRIDGE GROUNDWATER OVERLAY PROTECTION DISTRICT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO ANY DISRUPTION OF EXISTING INDIVIDUAL UTILITY SERVICE CONNECTIONS, INCLUDING WATER, ELECTRICITY, TELEPHONE, GAS AND CABLE TELEVISION, RESULTING FROM THE CONTRACTOR'S WORK.
- EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION ACTIVITIES NEAR UTILITY LOCATIONS WITH THE RESPECTIVE UTILITY REPRESENTATIVE. THE CONTRACTOR MUST CALL "DIG-SAFE 888-344-7233" PRIOR TO ANY UNDERGROUND WORK.
- ALL PROPOSED CATCH BASINS SHALL HAVE 4' DEEP SUMPS AND SHALL BE FITTED WITH CAST IRON HOODS.
- CONTRACTOR TO CONFIRM THAT EXISTING ABANDONED UNDERGROUND UTILITIES ENCOUNTERED DURING CONSTRUCTION ARE SHUT OFF AT THE PUBLIC RIGHT-OF-WAY.
- IN THE EVENT THAT CATCH BASIN INVERTS ARE LESS THAN 4'-0" BELOW PROPOSED RIM ELEVATION THE CONTRACTOR SHALL USE A FLAT TOP SLAB AS OPPOSED TO A CONE RISER.
- WHEN TAPPING EXISTING PRECAST MANHOLES DRILL HOLES AT 4 INCHES CENTER TO CENTER AROUND THE PERIPHERY OF THE OPENING TO CREATE A PLANE OF WEAKNESS PRIOR TO BREAKING THE SECTION OUT.
- ALL NEW DRAINAGE PIPES SHALL BE CAPPED UNTIL ALL DRAINAGE ITEMS ASSOCIATED WITH THE NEW UNDERGROUND STORM WATER STORAGE UNITS ARE INSTALLED AND CONSTRUCTION IS COMPLETE. CONTRACTOR SHALL COORDINATE WITH ENGINEER REGARDING THE REMOVAL OF CAPS UPON COMPLETION OF CONSTRUCTION
- UPON COMPLETION OF CONSTRUCTION CONTRACTOR SHALL PROVIDE VISUAL INSPECTION OF ALL DRAIN LINES WITHIN ON THE SITE PROPERTY. ENGINEER SHALL REVIEW AND APPROVE OF DRAIN LINE INSPECTIONS INCLUDING ANY VIDEO INSPECTIONS BEFORE FINAL PAYMENT IS APPROVED.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY PROTECTION OR DISMANTLING AND REPAIR REQUIRED TO MAINTAIN SITE FEATURES AND TO COMPLETE THE WORK DESCRIBE.
- CONTRACTOR SHALL SAWCUT THE EDGES OF ALL PAVEMENT SURFACES AND REPLACE WITH MATCHING, IN-KIND MATERIALS WHEN COMPLETED. WHERE CONCRETE, A THERMAL EXPANSION JOINT SHALL BE INSTALLED ON ONE JOINT AND A COLD JOINT IS ALLOWED ON THE OTHER. WHERE BITUMINOUS CONCRETE, NEW JOINTS SHALL BE INFRARED HEAT TREATED AND SEALED BY A TACK COAT TO PROTECT AND CONCEAL THE JOINT BELOW. COLD PATCH BITUMINOUS CONCRETE IS NOT ALLOWED.
- WHEN TAPPING EXISTING PRECAST MANHOLES DRILL HOLES AT 4 INCHES CENTER TO CENTER AROUND THE PERIPHERY OF THE OPENING TO CREATE A PLANE OF WEAKNESS PRIOR TO BREAKING THE SECTION OUT.
- ALL BRICK, CONCRETE, BITUMINOUS CONCRETE, AND ANY OTHER SURFACE MATERIAL AND ASSOCIATED SUBBASE MATERIALS DISTURBED FOR PIPE TRENCHING SHALL BE REESTABLISHED AND RESURFACED TO MATCH EXISTING SURFACE AND SUBBASE.
- UPON COMPLETION OF CONSTRUCTION CONTRACTOR SHALL PROVIDE VISUAL INSPECTION OF ALL NEW DRAIN LINES WITHIN THE LIMIT OF WORK. ENGINEER SHALL REVIEW AND APPROVE OF DRAIN LINE INSPECTIONS INCLUDING ANY VIDEO INSPECTIONS BEFORE FINAL PAYMENT IS APPROVED.
- ALL ITEMS TO BE REMOVED THAT ARE NOT STOCKPILED FOR LATER REUSE ON THE PROJECT OR DELIVERED TO THE TOWN SHALL BE LEGALLY DISPOSED OF OFFSITE BY THE CONTRACTOR.
- UPON COMPLETION OF CONSTRUCTION ENTIRE SITE SHALL BE CLEANED OF ALL DUST AND DEBRIS.
- THE LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE BASED ON RECORD INFORMATION PROVIDED BY OTHERS. THEY ARE NOT WARRANTED TO BE EXACTLY LOCATED. NOR IS IT WARRANTED THAT ALL EXISTING UTILITIES OR OTHER STRUCTURES ARE SHOWN ON THIS PLAN.
- CONTRACTOR SHALL SUBMIT RED LINE DRAWINGS AND AN AS-BUILT PLAN IN CAD FORMAT UPON SUBSTANTIAL COMPLETION OF WORK.
- WHERE CONNECTIONS TO EXISTING SYSTEMS ARE PROPOSED, LOCATIONS, SIZES, AND MATERIALS OF EXISTING SERVICES SHALL BE CONFIRMED WITH THE OWNER AN APPROPRIATE UTILITY PROVIDERS PRIOR TO ORDERING MATERIALS.
- MEANS, METHODS, AND LIMITS OF CONSTRUCTION AND SITE DISTURBANCE SHALL BE REVIEWED AND APPROVED BY THE OWNER PRIOR TO PERFORMING THE WORK.
- WHERE EXISTING MANHOLES, CATCH BASINS, OR HANDHOLES ARE LOCATED NEAR PROPOSED WATER PIPES, THE WATER PIPES SHALL BE INSULATED IN ACCORDANCE WITH TOWN OF STURBRIDGE REQUIREMENTS.
- EXISTING UTILITIES SHALL BE MAINTAINED UNLESS SPECIFICALLY NOTED OTHERWISE ON PLAN.
- CONTRACTOR SHALL REESTABLISH EXISTING STRUCTURES TO THE SAME OR BETTER STRUCTURAL CAPABILITIES UPON COMPLETION OF CAPPING AND CONNECTING PROPOSED PIPES.
- CONTRACTOR SHALL DIG CAREFULLY AROUND THE EXISTING STORM TRAP UNITS AND USE HAND TOOLS IF NECESSARY. ANY CRUSHED STONE AROUND THE STORM TRAP UNITS THAT IS DISTURBED AS PART OF CONSTRUCTION MUST BE REPLACED AND COMPACTED TO A LEVEL APPROVED BY STORM TRAP PRIOR TO CLOSING UP ANY OPEN TRENCHES OR PITS.

### LEGEND





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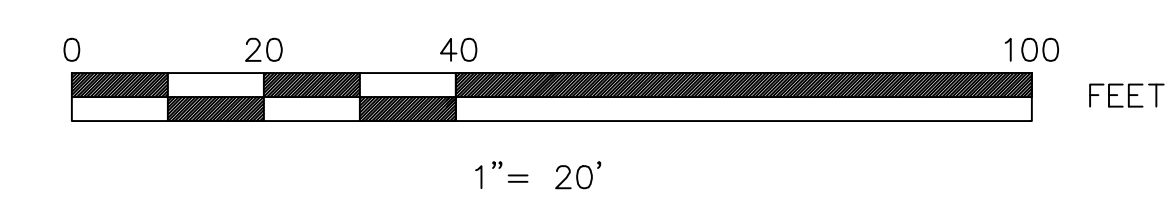
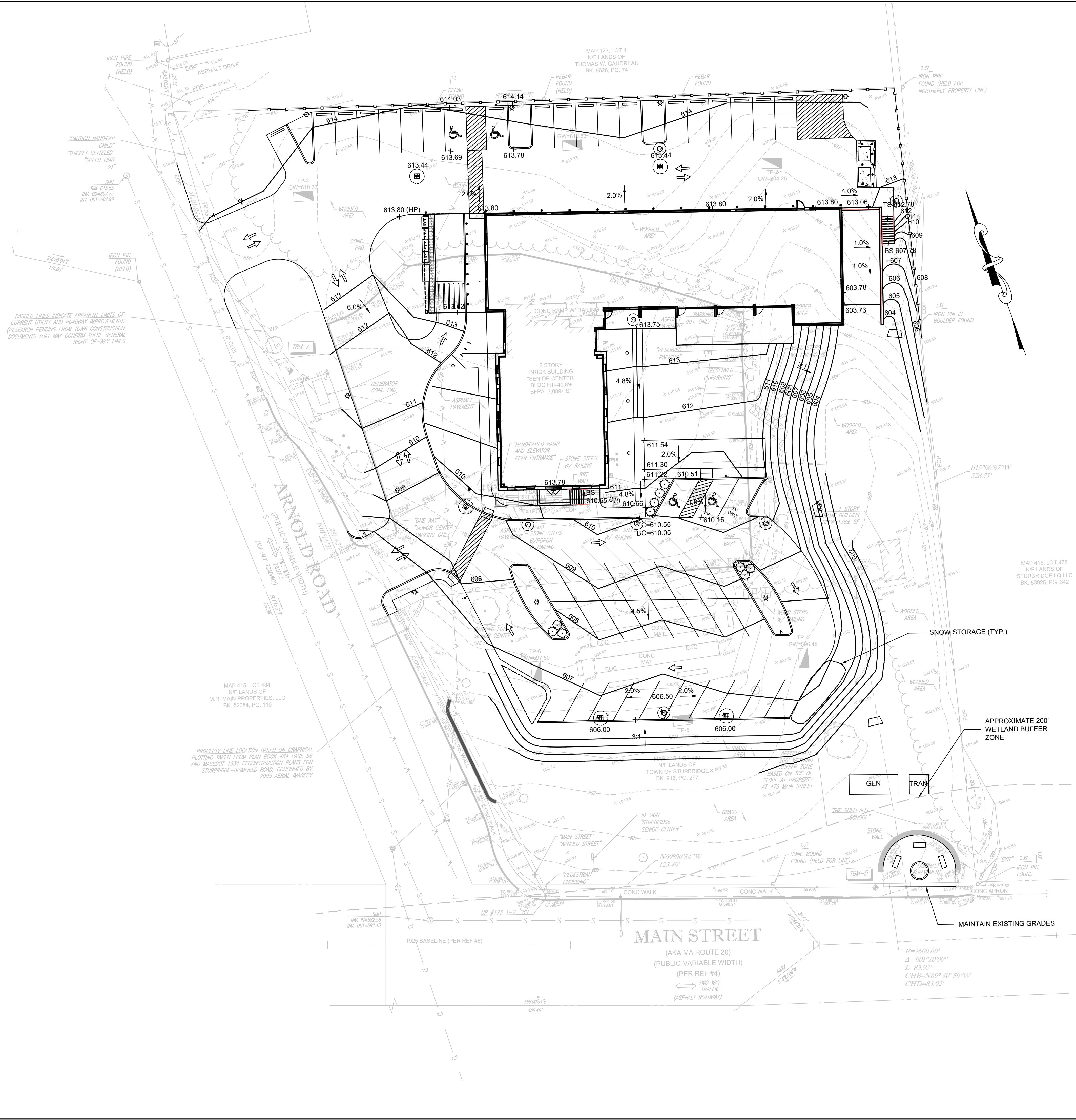
C-105

## GRADING NOTES

- CONTRACTOR SHALL VERIFY EXISTING GRADES AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
- MATCH EXISTING GRADES IN AREAS WHERE PROPOSED CONTOURS ARE NOT INDICATED.
- PROPOSED GRADES TO BLEND SMOOTHLY WITH EXISTING GRADES.

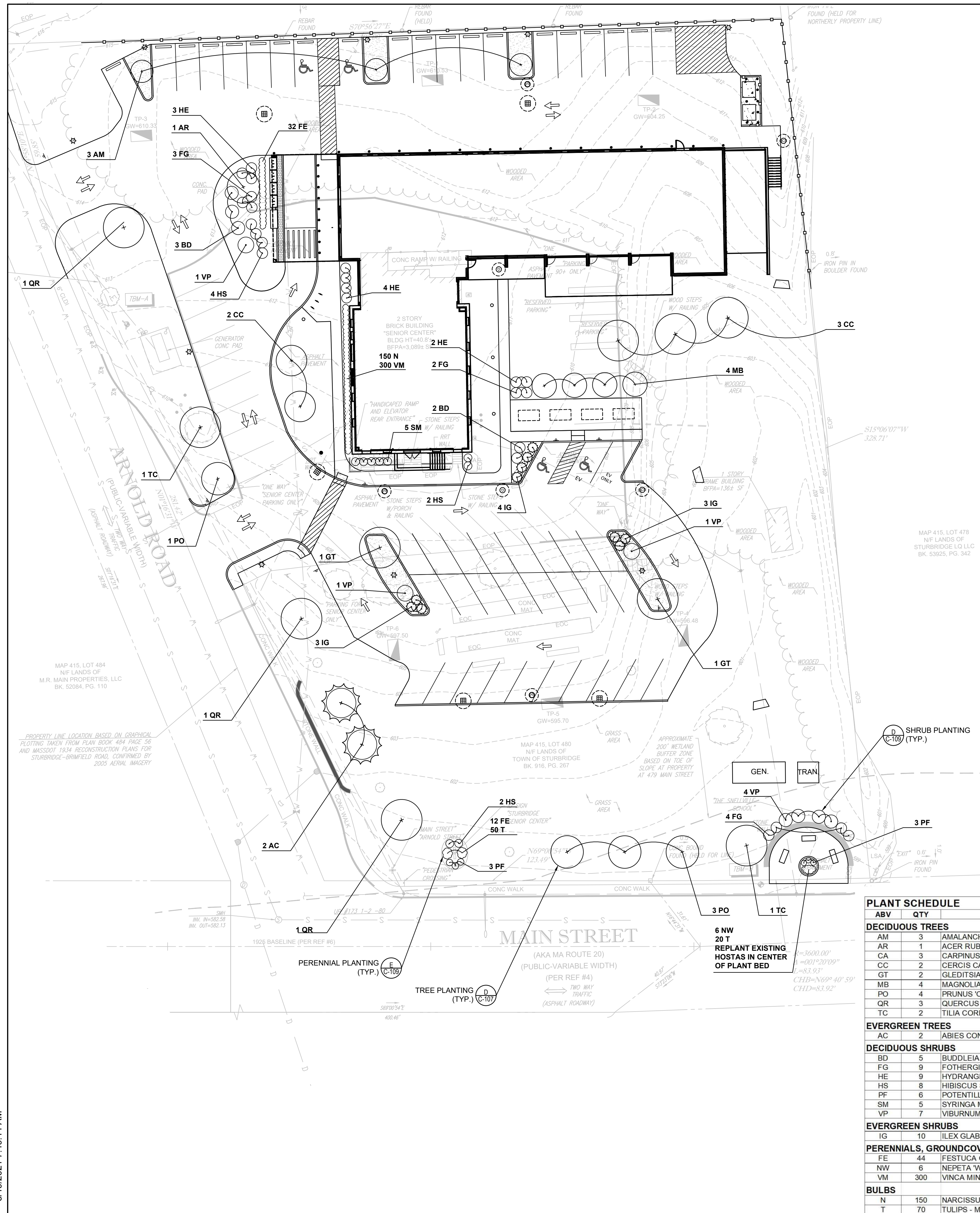
## LEGEND

- + (677.22) EXISTING SPOT GRADE
- + 677.22 PROPOSED SPOT GRADE
- 1.0% PROPOSED SLOPE
- 670 EXISTING CONTOUR
- 670 PROPOSED CONTOUR



5/19/2021 7:49:14 AM



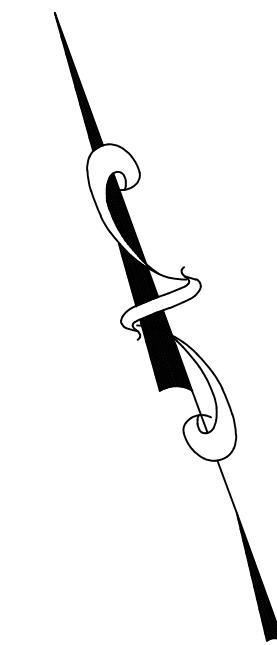
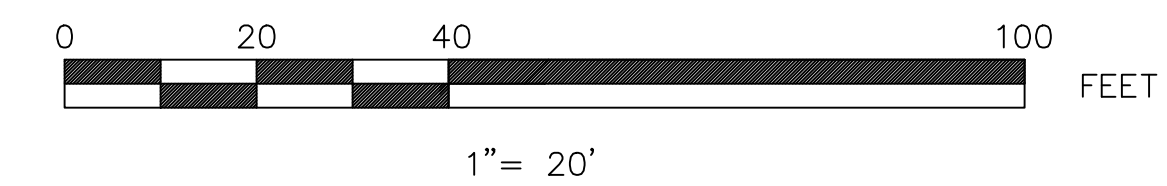


**PLANTING NOTES**

- IF DISCREPANCIES EXIST BETWEEN THE NUMBER OF PLANTS DRAWN ON THE PLANTING PLAN AND THE NUMBER OF PLANTS IN THE PLANT LIST, THE PLANTING PLAN SHALL GOVERN.
- ALL NEW PLANT MATERIAL SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED FOR NURSERY STOCK PUBLISHED BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION, INC. IN ADDITION, ALL NEW PLANT MATERIAL FOR THE PROJECT SHALL BE OF SPECIMEN QUALITY.
- ALL NEW PLANTS TO BE BALLED AND BURLAPPED OR CONTAINER-GROWN, UNLESS OTHERWISE NOTED ON THE PLANT LIST.
- THE CONTRACTOR SHALL SUPPLY ALL NEW PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS.
- ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE, AND ONLY AFTER WRITTEN APPROVAL OF THE ENGINEER.
- ALL NEW PLANTS SHALL BE TAGGED AND APPROVED BY THE ENGINEER AT THE NURSERY PRIOR TO DIGGING OR DELIVERY TO THE SITE.
- CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING AND SHALL REPORT ANY CONFLICTS TO THE ENGINEER.
- STAKE LOCATION OF ALL PROPOSED TREES AND PLANTING AREAS FOR APPROVAL BY ENGINEER PRIOR TO THE COMMENCEMENT OF PLANTING.
- ALL PLANT BEDS TO RECEIVE 3" OF BARK MULCH OR PEASTONE GRAVEL AS PER ENLARGEMENT DETAILS.
- CONTRACTOR SHALL PROVIDE FULL DEPTHS OF LOAM AS NOTED ON DETAILS AND AS SPECIFIED, FOR ALL PLANTING.
- CONTRACTOR SHALL COORDINATE LOCATION OF ALL UTILITIES ( LINES, DUCTS, CONDUITS, SLEEVES, FOOTINGS, ETC ) WITH LOCATIONS OF PROPOSED LANDSCAPE ELEMENTS ( WALLS, FENCE, FOOTINGS, TREE ROOTBALLS, PROPOSED LIGHTING FOOTINGS, ETC ) . CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO ENGINEER PRIOR TO CONTINUING WORK.
- CONTRACTOR SHALL PROVIDE 15 GALLON WATERING BAGS FOR EACH TREE. WATERING BAGS SHALL BECOME THE PROPERTY OF THE OWNER AFTER CONSTRUCTION.

**LEGEND**

- DECIDUOUS TREE
- EVERGREEN TREE
- SHRUB
- PERENNIALS/BULBS



**PLANT SCHEDULE**

ABV	QTY	BOTANICAL NAME	COMMON NAME	SIZE	COND	SPACING	REMARKS
<b>DECIDUOUS TREES</b>							
AM	3	AMALANCHIER CANADENSIS	SHADBLOW SERVICEBERRY	6-7' HT.	B&B	AS SHOWN	MULTISTEM
AR	1	ACER RUBRUM 'ARMSTRONG'	ARMSTRONG RED MAPLE	3-3.5" CAL.	B&B	AS SHOWN	
CA	3	CARPINUS CAROLINIANA	AMERICAN HORNBEAM	3-3.5" CAL.	B&B	AS SHOWN	
CC	2	CERCIS CANADENSIS	EASTERN REDBUD	2.5-3" CAL.	B&B	AS SHOWN	SINGLE STEM
GT	2	GLEDITSIA TRIACANTHOS 'INERMIS' 'SKYLINE'	SKYLINE HONEYLOCUST	3-3.5" CAL.	B&B	AS SHOWN	
MB	4	MAGNOLIA 'BUTTERFLIES'	BUTTERFLIES MAGNOLIA	6-8' HT.	B&B	AS SHOWN	MULTISTEM
PO	4	PRUNUS 'OKAME'	OKAME CHERRY	3-3.5" CAL.	B&B	AS SHOWN	
QR	3	QUERCUS RUBRUM	NORTHERN RED OAK	3-3.5" CAL.	B&B	AS SHOWN	
TC	2	TILIA CORDATA 'GREENSPIRE'	GREENSPIRE LITTLELEAF LINDEN	3-3.5" CAL.	B&B	AS SHOWN	
<b>EVERGREEN TREES</b>							
AC	2	ABIES CONCOLOR	CONCOLOR FIR	8-10' HT.	B&B	AS SHOWN	
<b>DECIDUOUS SHRUBS</b>							
BD	5	BUDDLEIA 'NANHO PURPLE'	NANHO PURPLE BUTTERFLYBUSH	#3 POT	CG	AS SHOWN	
FG	9	FOTHERGILLA GARDENII 'APPALACHIA'	APPALACHIA DWARF FOTHERGILLA	#5 POT	CG	AS SHOWN	
HE	9	HYDRANGEA 'ENDLESS SUMMER'	ENDLESS SUMMER HYDRANGEA	#5 POT	CG	AS SHOWN	
HS	8	HIBISCUS SYRIACUS 'LIL KIM'	LIL KIM ROSE OF SHARON	#5 POT	CG	AS SHOWN	
PF	6	POTENTILLA FRUTICOSA 'GOLDFINGER'	GOLDFINGER SHRUBBY CINQUEFOIL	#3 POT	CG	AS SHOWN	
SM	5	SYRINGA MEYERI 'PALABIN'	PALABIN DWARF KOREAN LILAC	#3 POT	CG	AS SHOWN	
VP	7	VIBURNUM PLICATUM VAR. 'TOMENTOSUM' 'MARIESI'	MARIES DOUBLEFILE VIBURNUM	3-4' HT.	B&B	AS SHOWN	
<b>EVERGREEN SHRUBS</b>							
IG	10	ILEX GLABRA 'COMPACTA'	COMPACT INKBERRY	#5 POT	CG	AS SHOWN	
<b>PERENNIALS, GROUNDCOVERS &amp; ORNAMENTAL GRASSES</b>							
FE	44	FESTUCA GLAUCA 'ELIJAH BLUE'	ELIJAH BLUE FESCUE	#1 POT	CG	18" O.C.	
NW	6	NEPETA 'WALKER'S LOW'	WALKER'S LOW CATMINT	#1 POT	CG	2" O.C.	
VM	300	VINCA MINOR	PERIWINKLE	2" PLUG	FLAT	8" O.C.	
<b>BULBS</b>							
N	150	NARCISSUS SP.	NATURALIZING DAFFODIL MIX	2 YR.	BULB	GROUPS, 24" O.C.	GROUPS OF 5
T	70	TULIPS - MIX OF EARLY SPRING, RAINBOW TRIUMPH & SINGLE LATE TULIP MIXES		2 YR.	BULB	GROUPS, 18" O.C.	GROUPS OF 4

**STURBRIDGE SENIOR CENTER**

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TOWN OF STURBRIDGE

ARCHITECT



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CIVIL, LANDSCAPE ARCHITECT & SURVEY CONSULTANT



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KEY PLAN

MARK	DATE	DESCRIPTION
	3-15-2023	CD PROGRESS PRINT

PROJECT NUMBER: 222064.000 - WDG# - W-1717

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SHEET TITLE

**LANDSCAPING**

**C-106**



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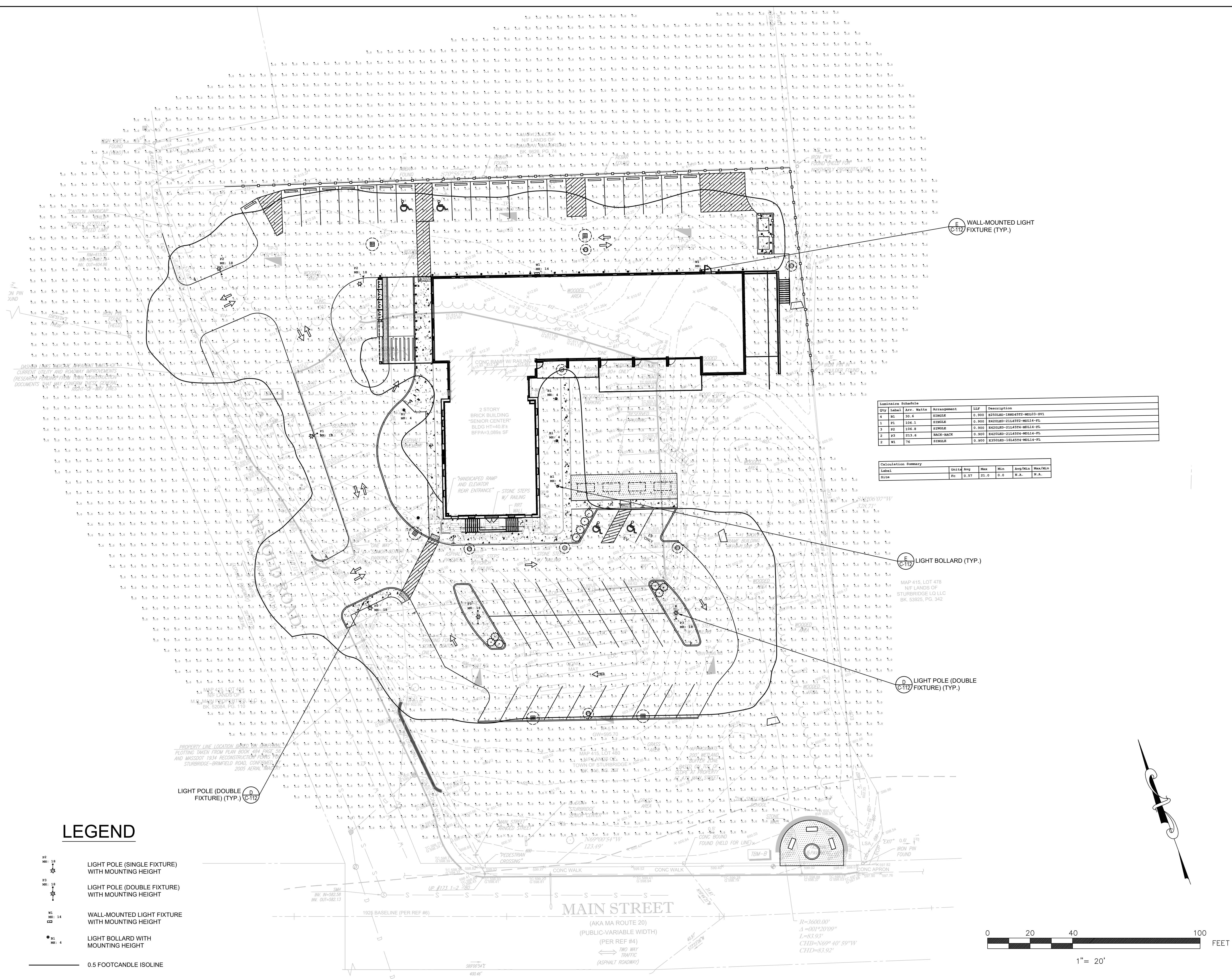
DRAWN BY: JRM

CHECKED BY: CRM

SHEET TITLE

LIGHTING

C-107



Qty	Label	Arr.	Watts	Arrangement	ILP	Description
4	B1	30°	4	SINGLE	0.900	R250LSD-180H4572-MDL03-RV1
1	B2	106.1	1	SINGLE	0.900	R420LSD-214L4572-MDL14-PL
3	P2	106.8	1	SINGLE	0.900	R420LSD-214L4574-MDL14-PL
2	P3	213.6	1	BACK-BACK	0.900	R420LSD-214L4574-MDL14-PL
2	W1	76	1	SINGLE	0.900	R350LSD-146L4574-MDL14-PL

Label	Units	Avg	Max	Min	Avg/Min	Max/Min
Site	Fc	0.57	21.0	0.0	N.A.	N.A.

## LEGEND

- LIGHT POLE (SINGLE FIXTURE) WITH MOUNTING HEIGHT
- LIGHT POLE (DOUBLE FIXTURE) WITH MOUNTING HEIGHT
- WALL-MOUNTED LIGHT FIXTURE WITH MOUNTING HEIGHT
- LIGHT BOLLARD WITH MOUNTING HEIGHT
- 0.5 FOOTCANDLE ISOLINE

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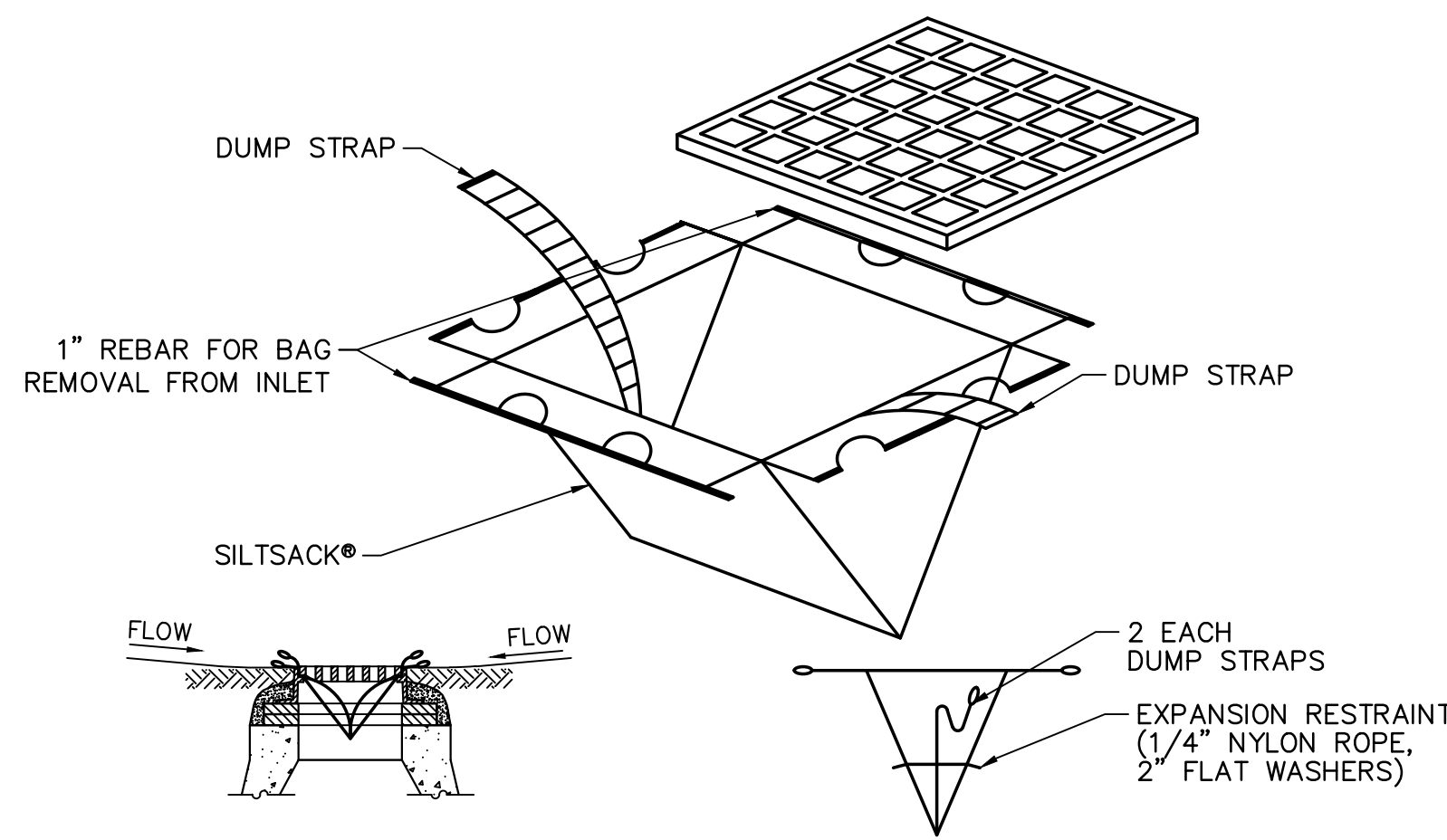
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SHEET TITLE

DETAILS

C-108

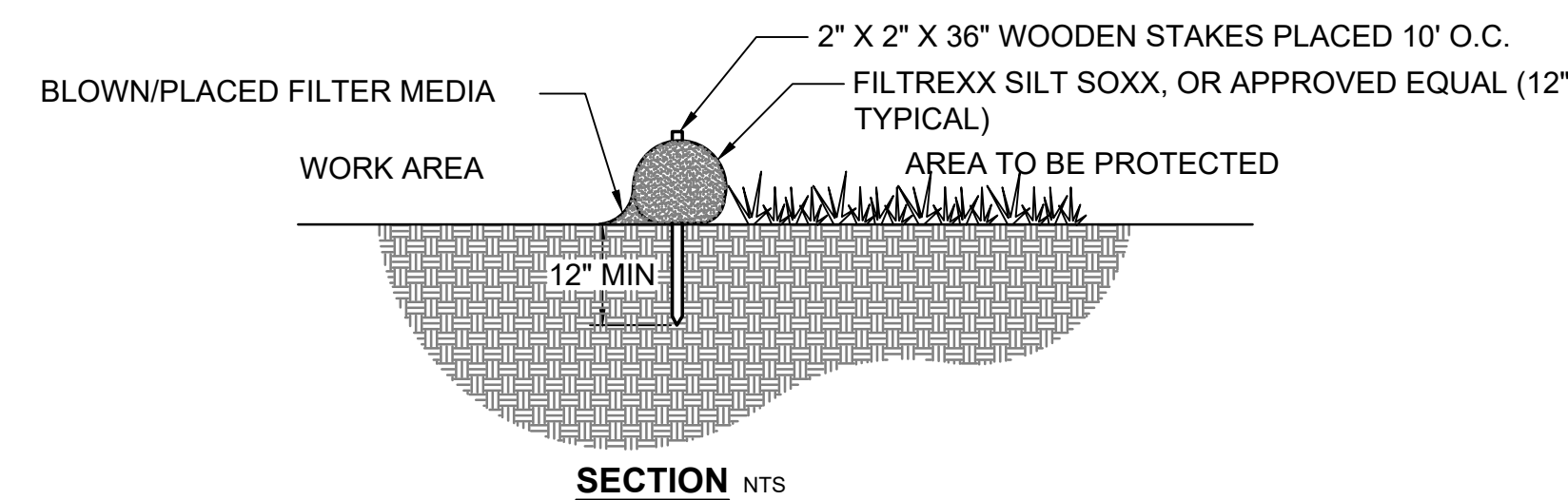


NOTES: SECTION VIEW

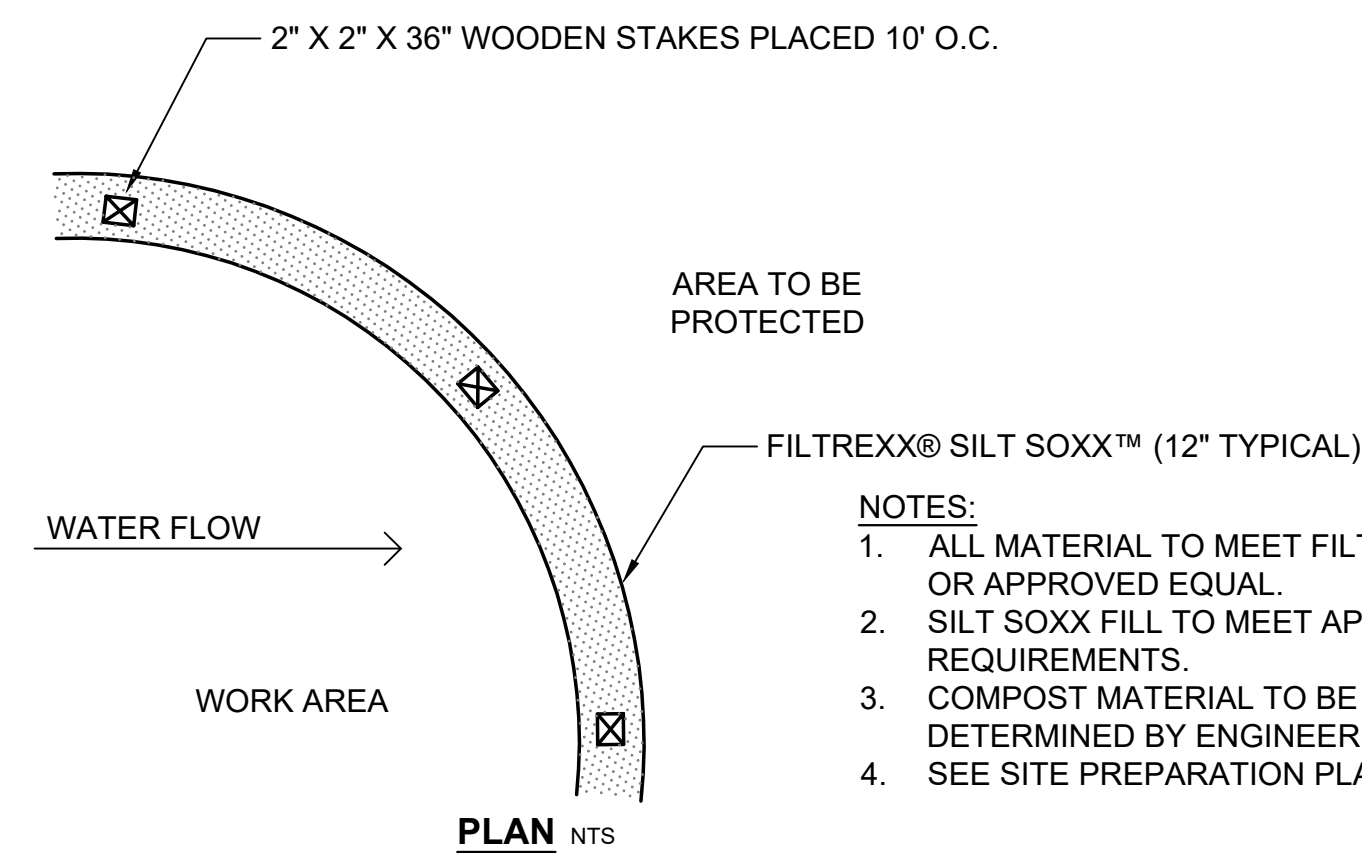
- SILTSACK® SHALL BE MANUFACTURED FROM A SPECIALLY DESIGNED WOVEN POLYPROPYLENE GEOTEXTILE AND SEWN BY A DOUBLE NEEDLE MACHINE, USING HIGH STRENGTH NYLON THREAD.
- SILTSACK® WILL BE MANUFACTURED TO FIT THE OPENING OF THE CATCH BASIN DROP INLET. SILTSACK® WILL HAVE THE FOLLOWING FEATURES: TWO DUMP STRAPS ATTACHED AT THE BOTTOM TO FACILITATE THE EMPTYING OF SILTSACK®; SILTSACK® SHALL HAVE LIFTING LOOPS AS AN INTEGRAL PART OF THE SYSTEM TO BE USED TO LIFT SILTSACK® FROM THE BASIN. SILTSACK® SHALL HAVE A RESTRAINT CORD APPROXIMATELY HALFWAY UP THE SACK TO KEEP THE SIDES AWAY FROM THE CATCH BASIN WALLS. THIS YELLOW CORD IS A VISUAL MEANS OF INDICATING WHEN THE SACK SHOULD BE EMPTIED. ONCE THE STRAP IS COVERED WITH SEDIMENT, SILTSACK® SHOULD BE EMPTIED, CLEANED AND PLACED BACK INTO THE BASIN.
- USE SILT SACK® OR APPROVED EQUAL, AT ALL CATCH BASINS RECEIVING RUNOFF FROM CONSTRUCTION AREAS.
- WEEKLY REVIEW CATCH BASINS & CLEAN AS REQUIRED.

## A SILT SACK

SCALE: N.T.S.



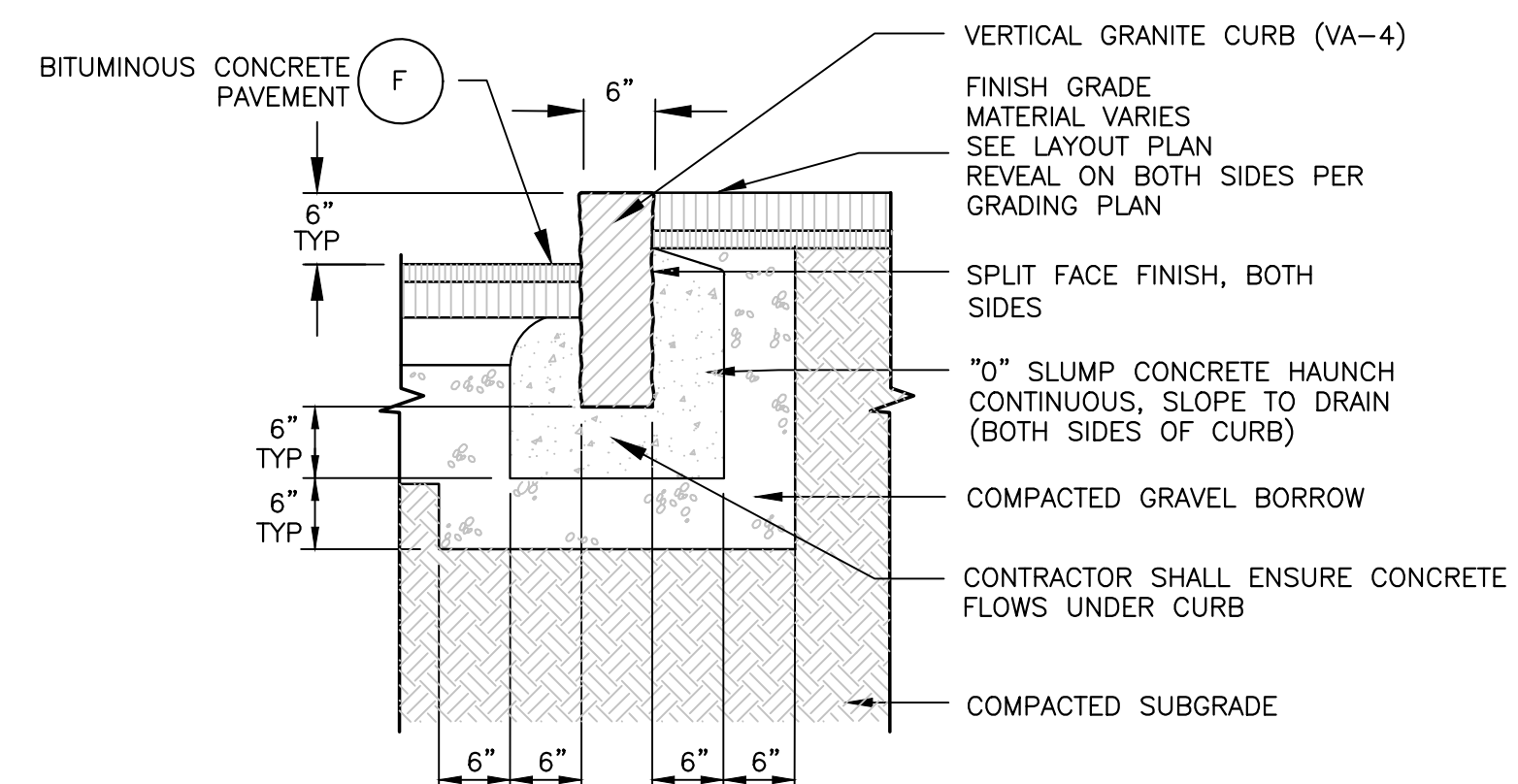
SECTION NTS



PLAN NTS

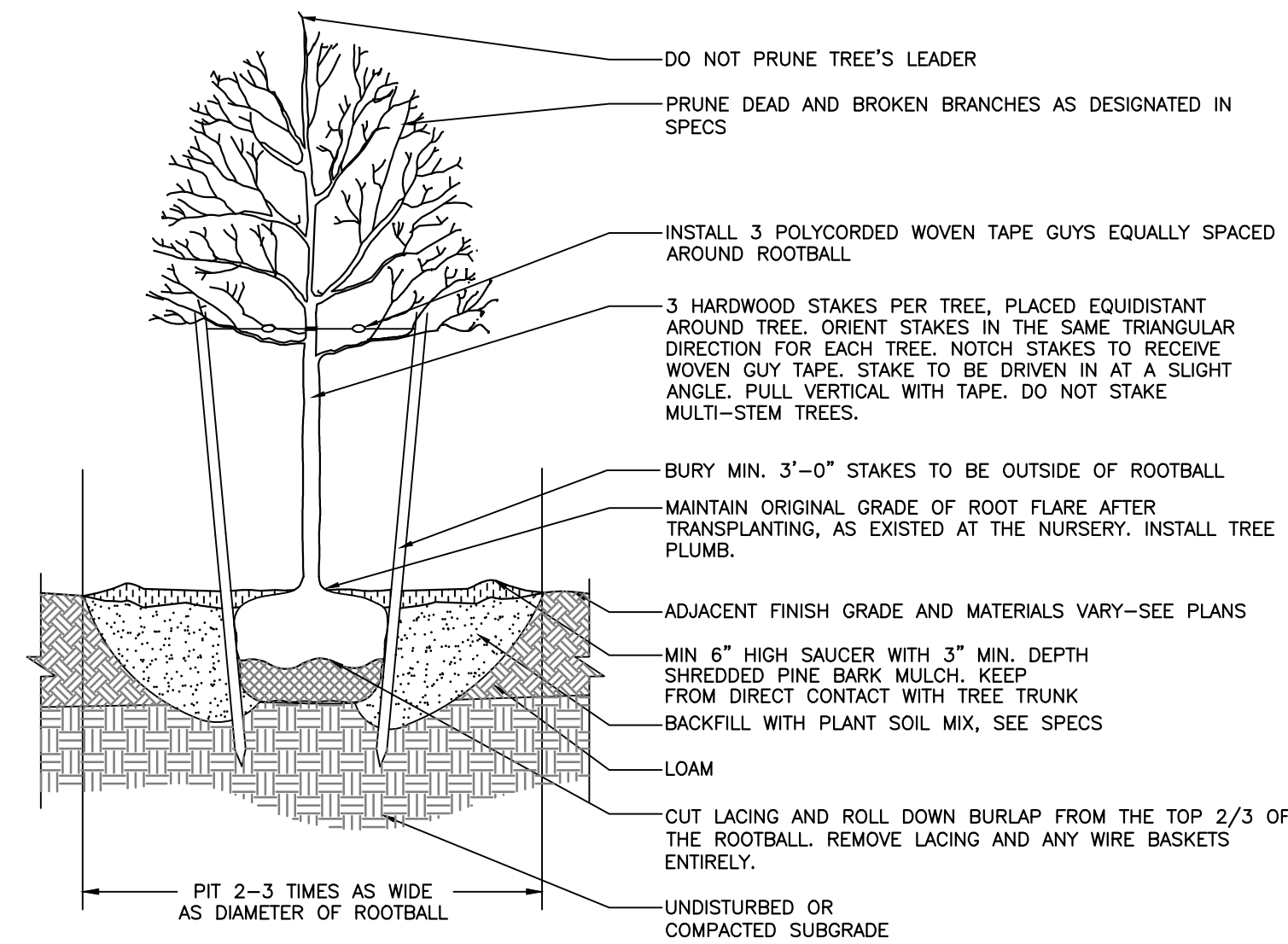
## B SILT SOCK

SCALE: N.T.S.



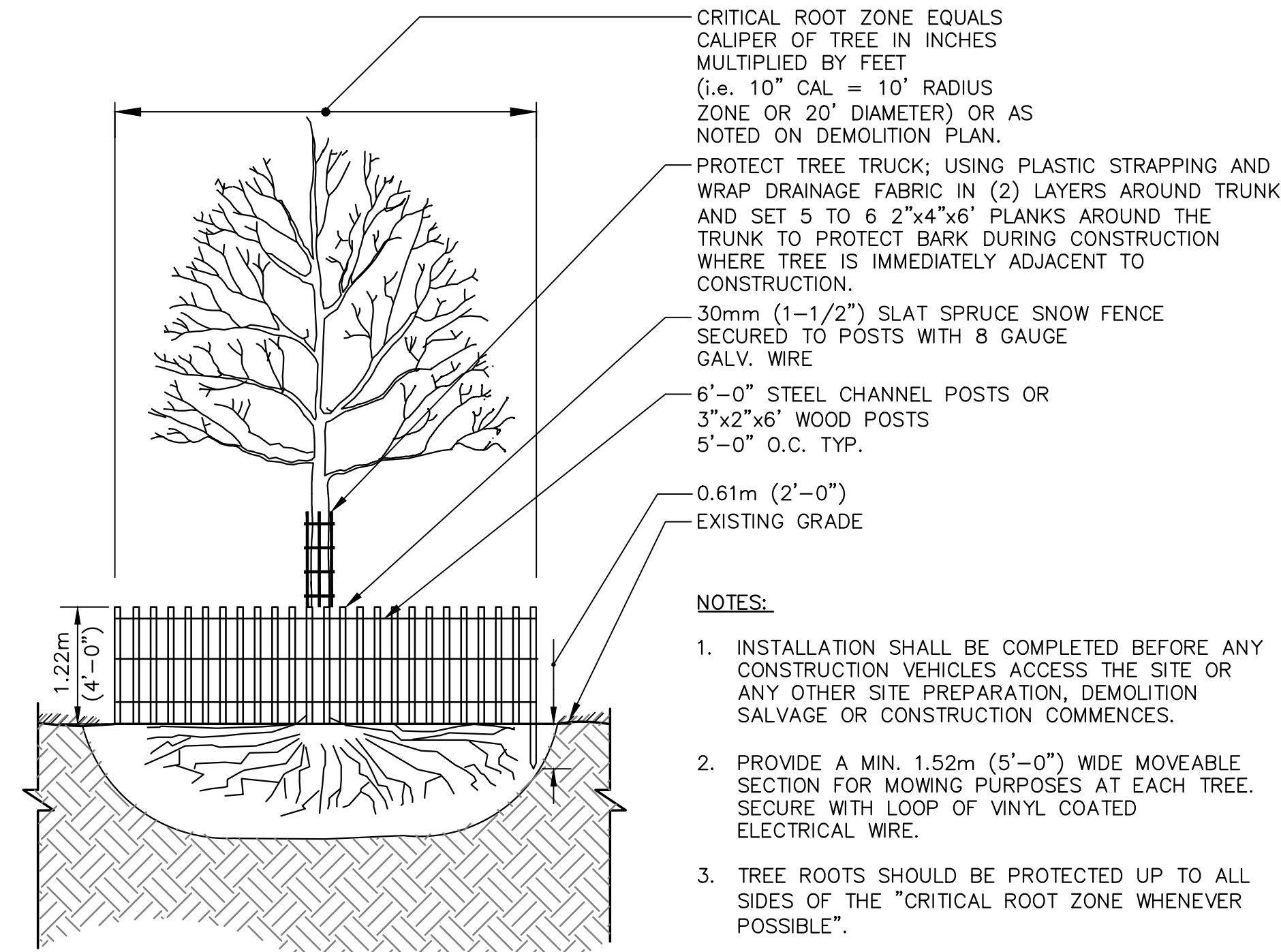
## C VERTICAL GRANITE CURB

SCALE: N.T.S.



## D TREE PLANTING

SCALE: N.T.S.

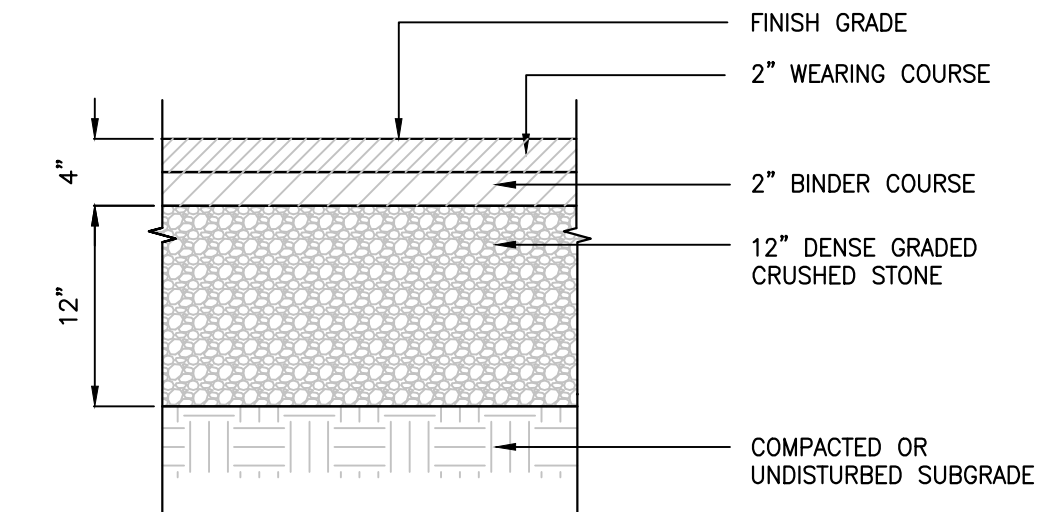


NOTES:

- INSTALLATION SHALL BE COMPLETED BEFORE ANY CONSTRUCTION VEHICLES ACCESS THE SITE OR ANY OTHER SITE PREPARATION, DEMOLITION SALVAGE OR CONSTRUCTION COMMENCES.
- PROVIDE A MIN. 1.52m (5-0 inch) WIDE MOVEABLE SECTION FOR MOWING PURPOSES AT EACH TREE. SECURE WITH LOOP OF VINYL COATED ELECTRICAL WIRE.
- TREE ROOTS SHOULD BE PROTECTED UP TO ALL SIDES OF THE "CRITICAL ROOT ZONE WHENEVER POSSIBLE".
- WHERE REQUIRED, CLEANLY SAW CUT ROOTS BACK 3 inch-4 inch FROM WORK AREA BEING EXCAVATED.

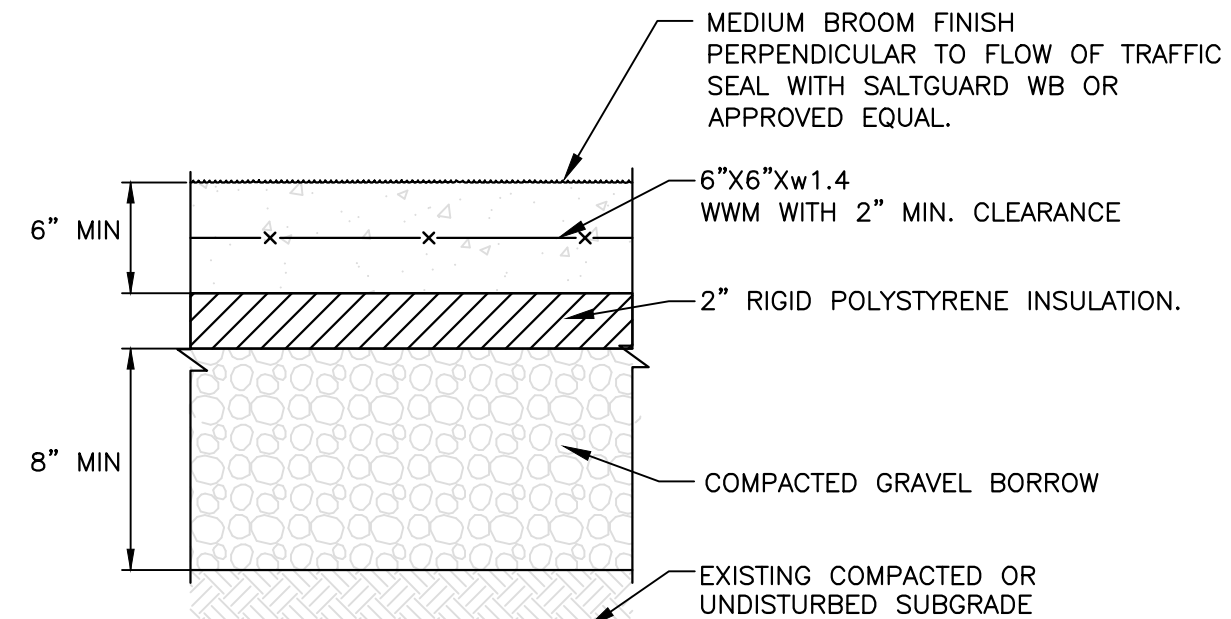
## E TREE PROTECTION

SCALE: N.T.S.



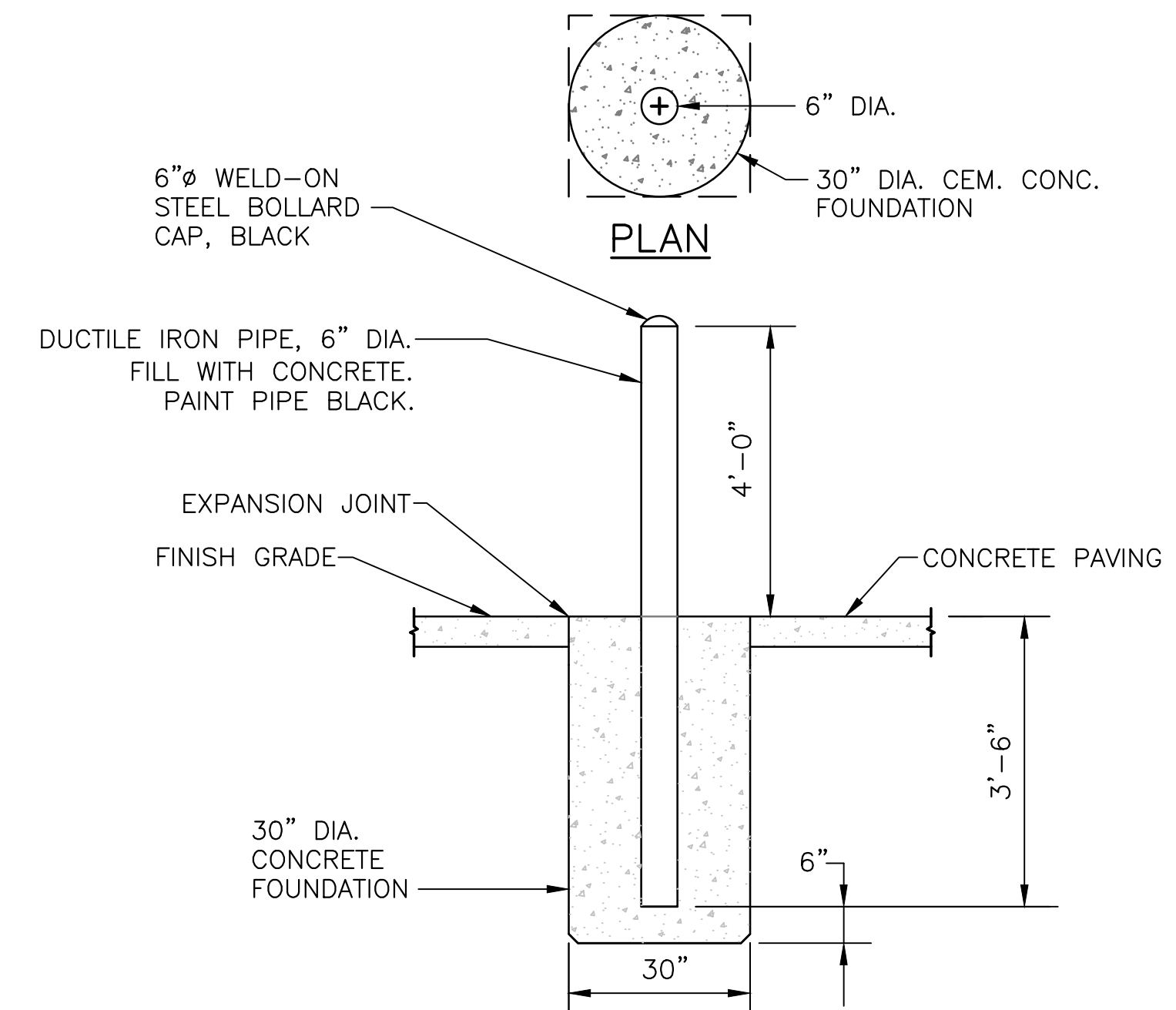
## G BITUMINOUS CONCRETE PAVEMENT

SCALE: N.T.S.



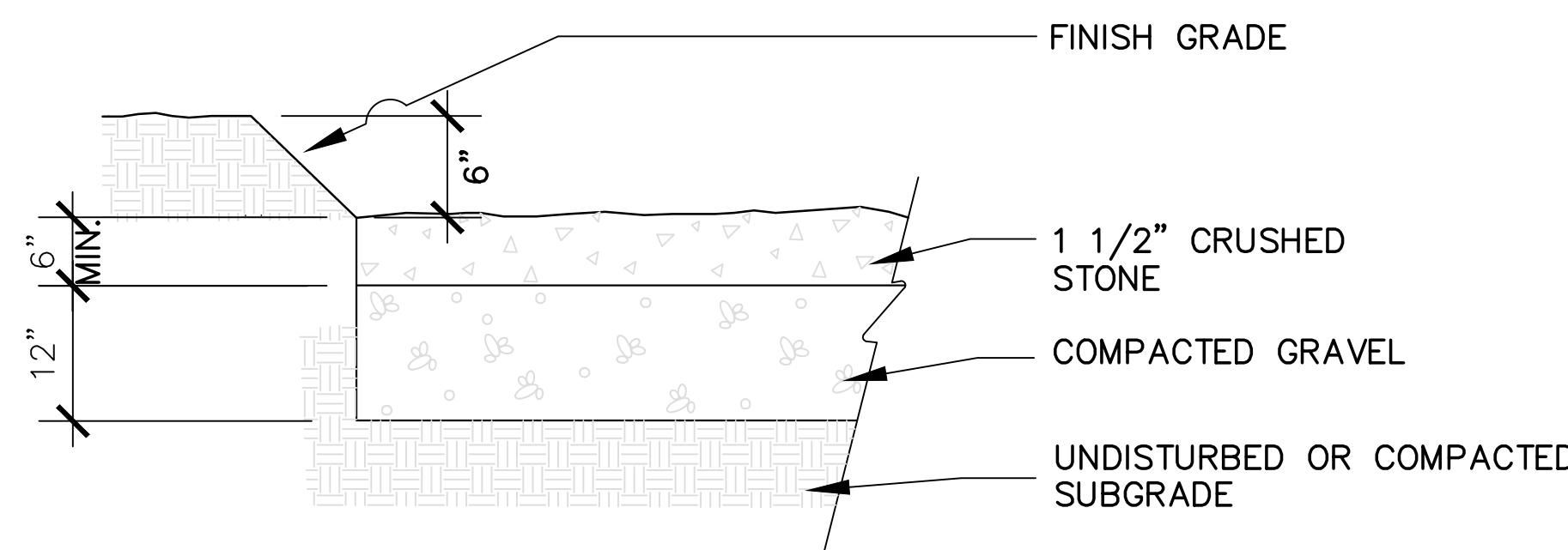
## H CONCRETE WALKWAY PAVEMENT

SCALE: N.T.S.



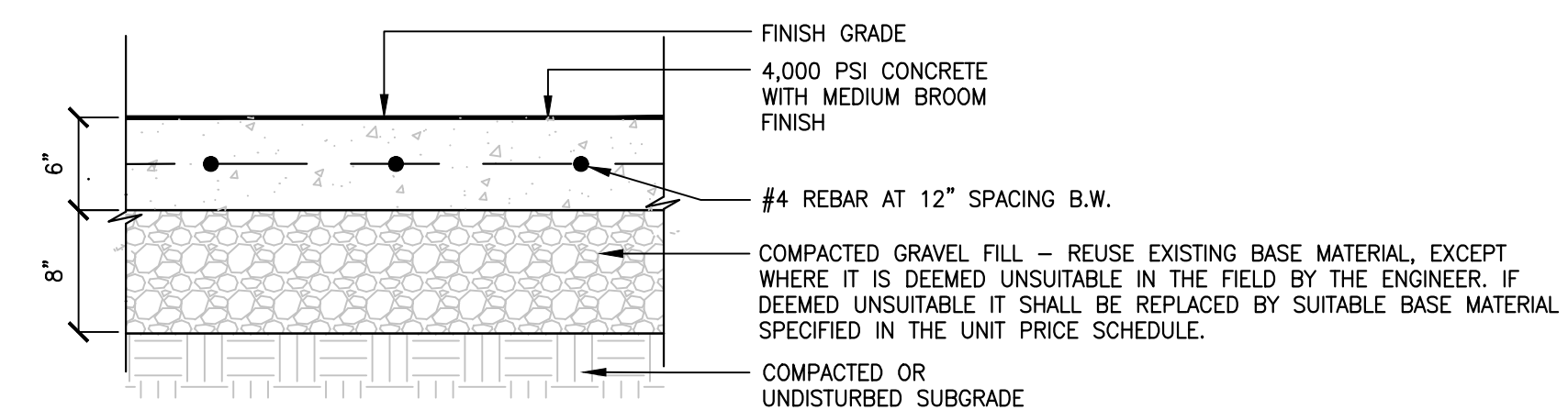
## I 6 inch STEEL BOLLARD

SCALE: N.T.S.



## F CONSTRUCTION ENTRANCE

SCALE: N.T.S.



NOTE:

- CONCRETE SHALL BE REINFORCED WITH 1 POUND OF 100% POLYPROPYLENE MICRO-FIBER PER CUBIC YARD OF CONCRETE, OR AS RECOMMENDED BY FIBER MANUFACTURER.
- INSTALL EXPANSION JOINTS WHERE CONCRETE PAD ABUTS CONCRETE PAVEMENT OR VERTICAL SURFACES.

## J CONCRETE DUMPSTER PAD

SCALE: N.T.S.



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50 Cross Street  
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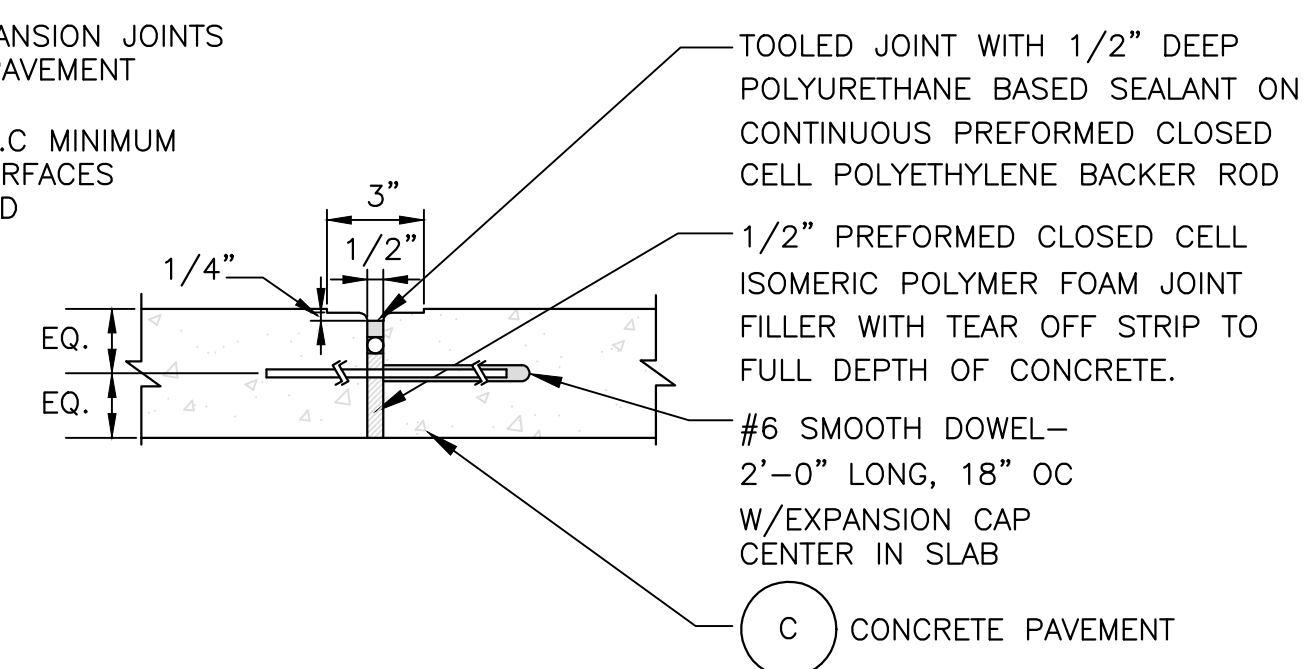
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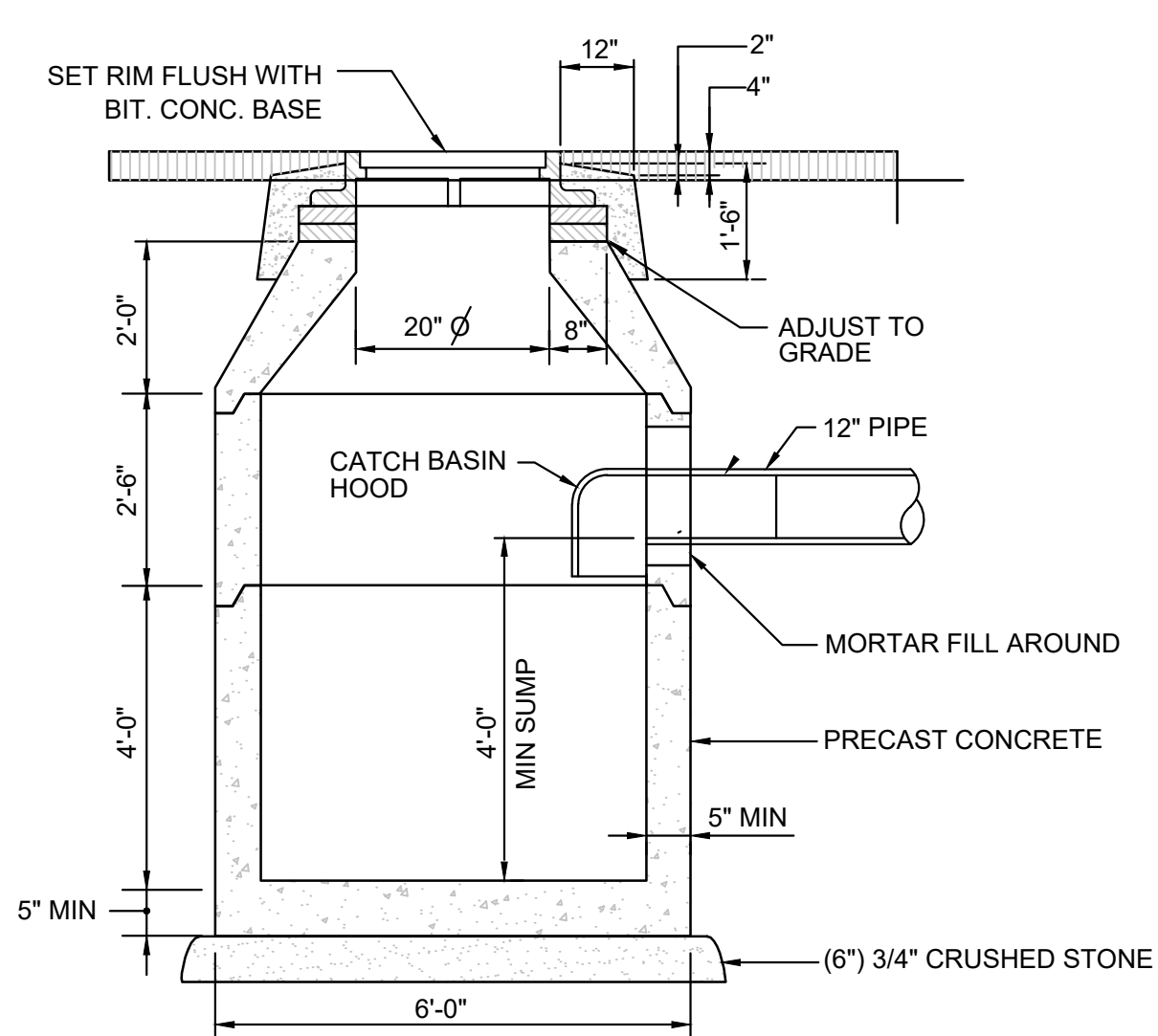
DETAILS

C-109

- NOTES:
1. PROVIDE DOWELS IN EXPANSION JOINTS AT EXISTING CONCRETE PAVEMENT ONLY.
  2. EXPANSION JOINTS 20' O.C MINIMUM AND AT ALL VERTICAL SURFACES UNLESS OTHERWISE NOTED

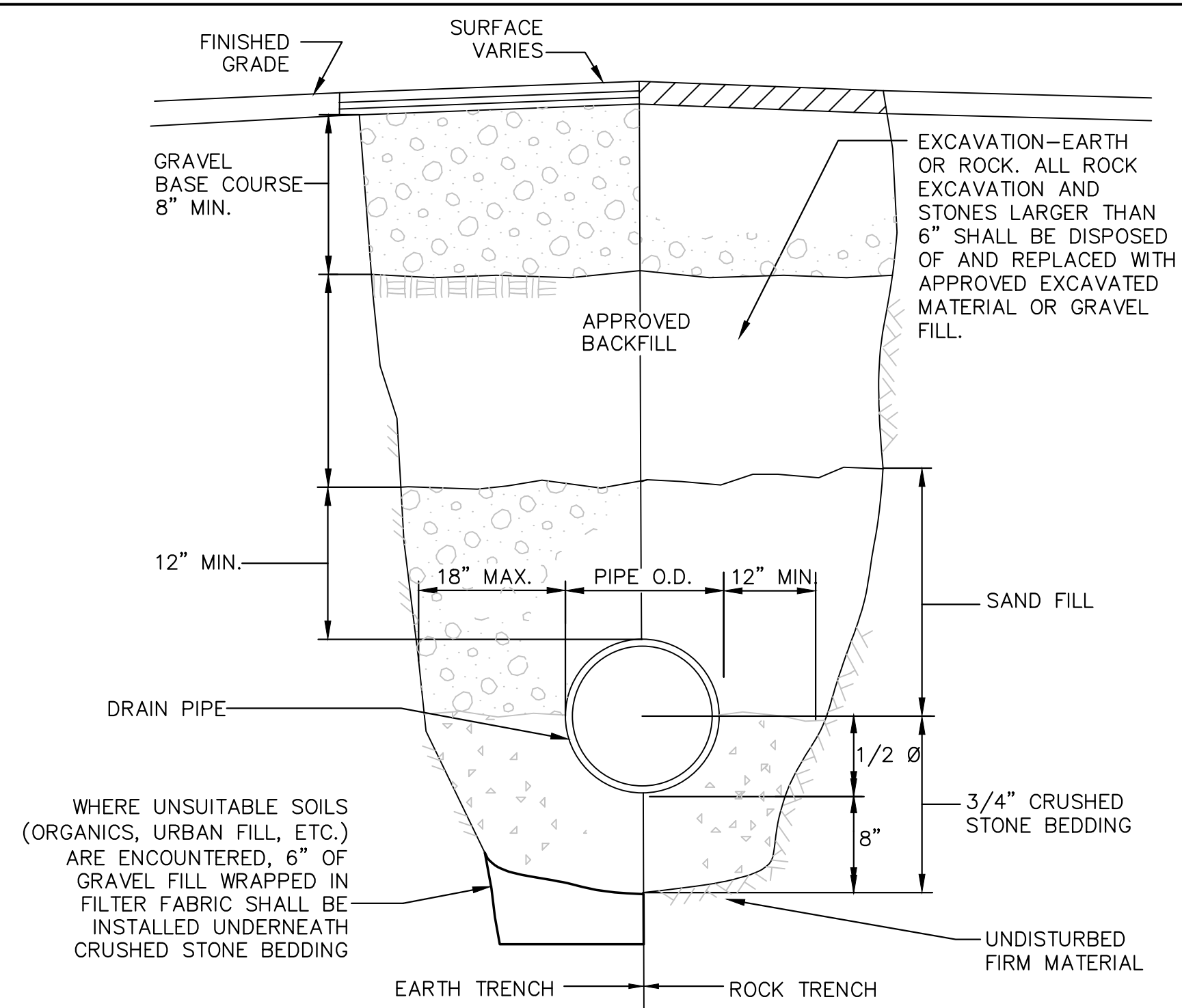


**A** CONCRETE EXPANSION JOINT  
SCALE: N.T.S.

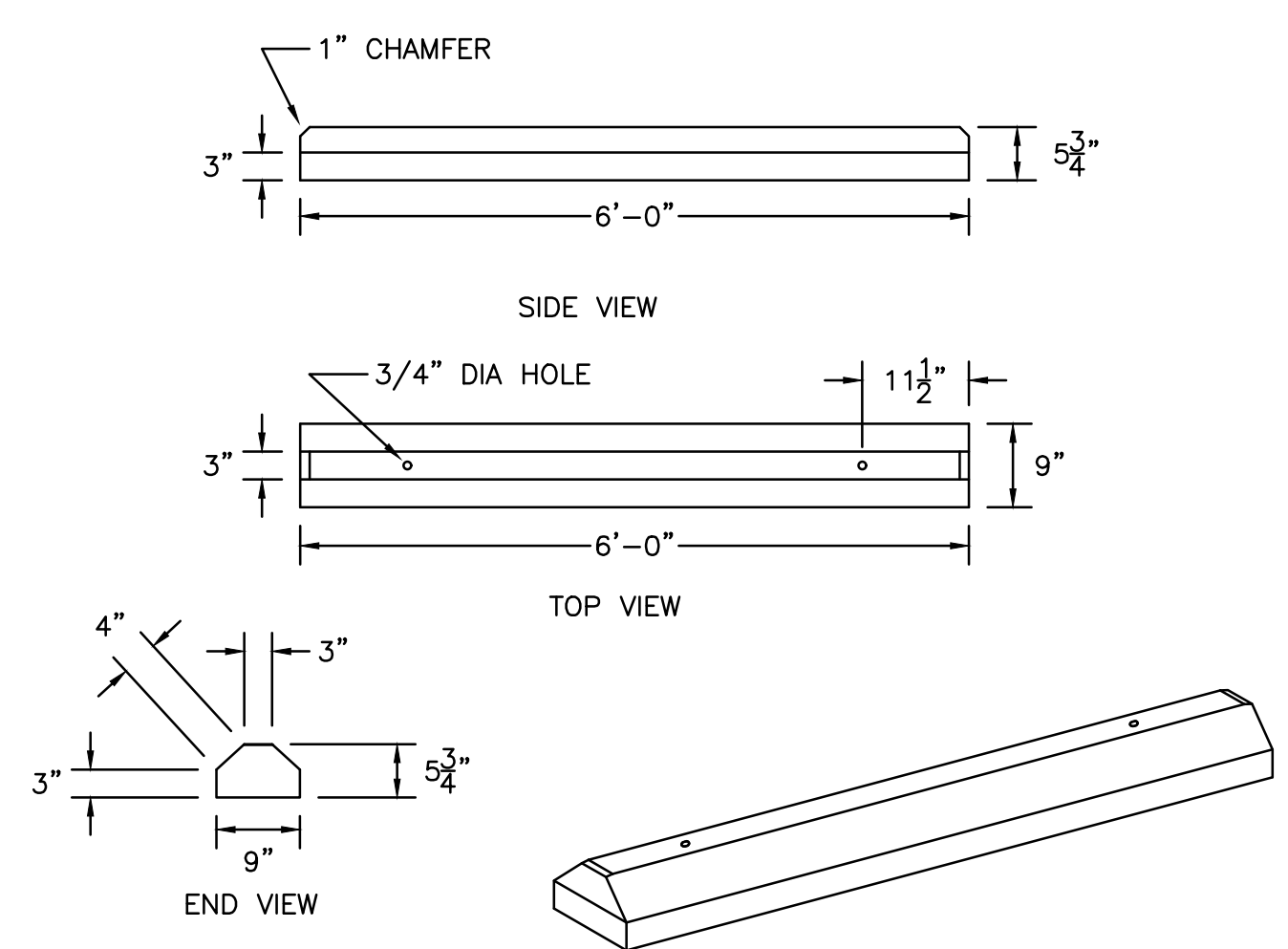


- NOTES:
1. CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS.
  2. REINFORCED STEEL CONFORMS TO LATEST ASTM A185 SPEC. 0.12 SQ. IN./LINEAL FT. AND 0.12 SQ. IN. (BOTH WAYS) BASE BOTTOM.
  3. H-20 DESIGN LOADING PER AASHTO HS-20-44; ASTM C478 SPEC FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS."
  4. BUTYL RESIN SECTION JOINT CONFORMS TO LATEST ASTM C990 SPEC.
  5. STEEL REINFORCED COPOLYMER POLYPROPYLENE PLASTIC STEP CONFORMS TO LATEST ASTM C478 SPEC.

**B** CATCH BASIN  
SCALE: N.T.S.

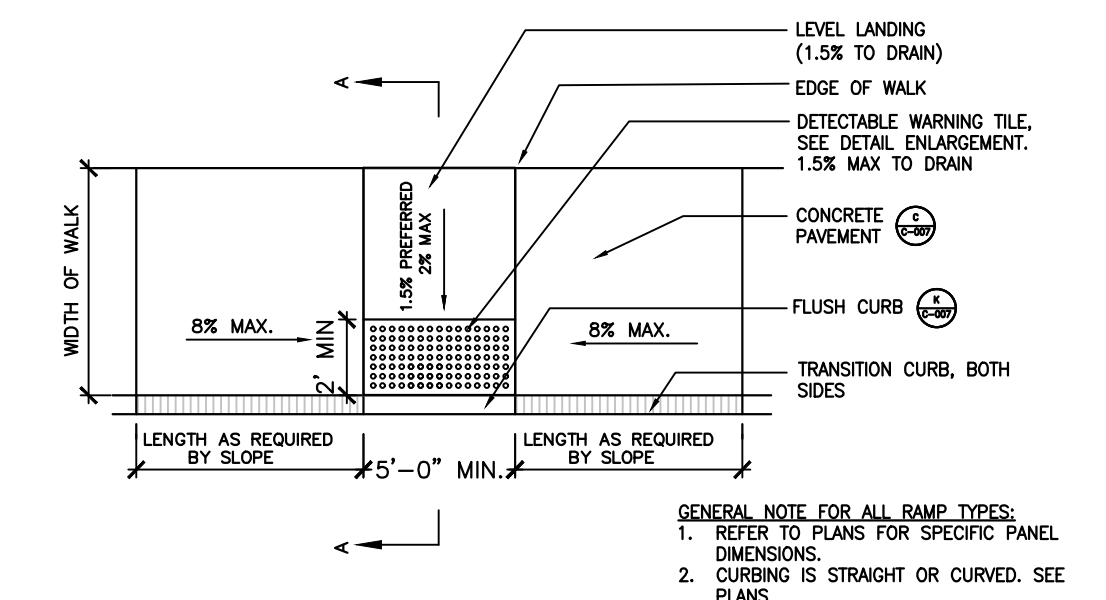


**D** DRAIN LINE TRENCH  
SCALE: N.T.S.

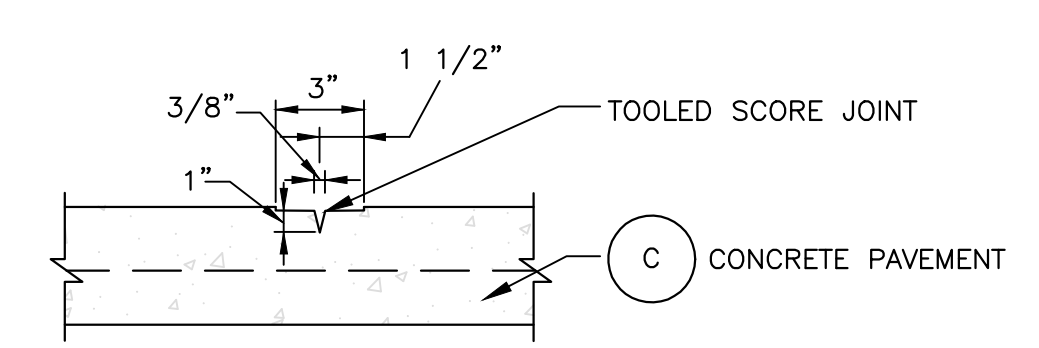


- NOTES:
1. CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS
  2. 1/2" DIAMETER REBAR 18" LONG PINS SHALL BE DRIVEN INTO THE 3/4" HOLES.
  3. WEIGHT: 270 LBS
  4. CONTRACTOR SHALL REUSE EXISTING CONCRETE CURB STOPS UPON APPROVAL OF ENGINEER. CONTRACTOR SHALL PAINT CONCRETE CURB STOPS OSHA SAFETY YELLOW PRIOR TO REUSE.

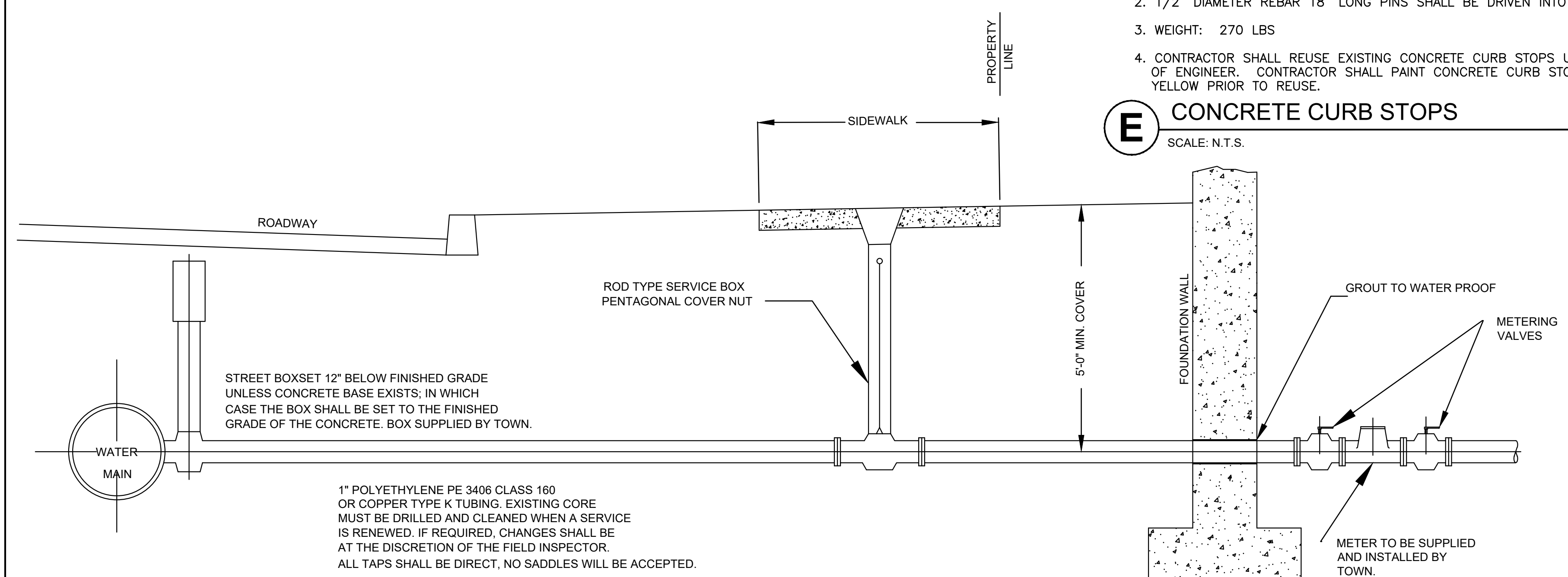
**E** CONCRETE CURB STOPS  
SCALE: N.T.S.



**F** ACCESSIBLE CURB RAMP  
SCALE: N.T.S.



**G** CONCRETE CONTROL JOINT  
SCALE: N.T.S.



**C** DOMESTIC & FIRE PROTECTION WATER SERVICE CONNECTION  
SCALE: N.T.S.

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## E-ICON ARCHITECTURE

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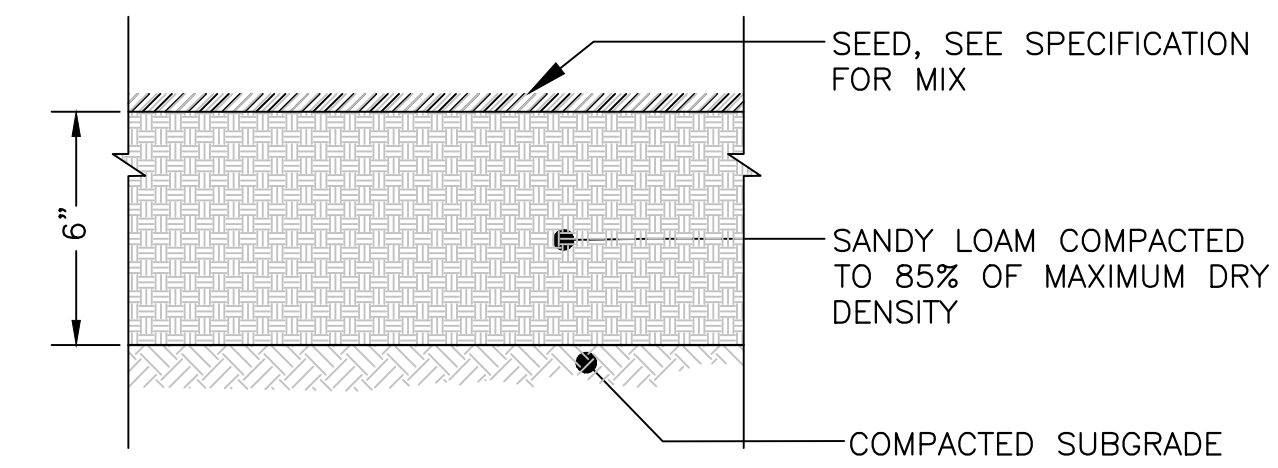
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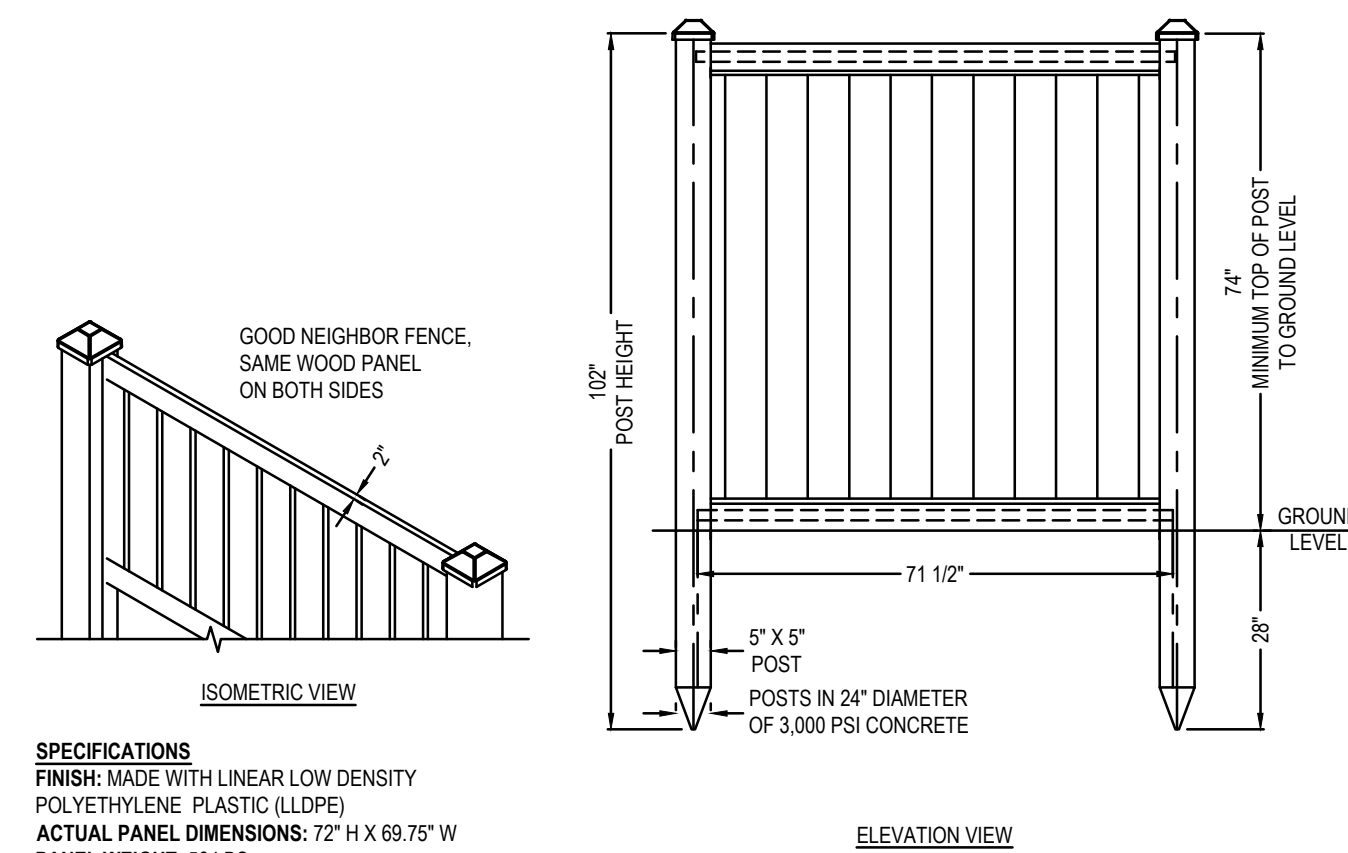
SHEET TITLE

DETAILS

# C-110



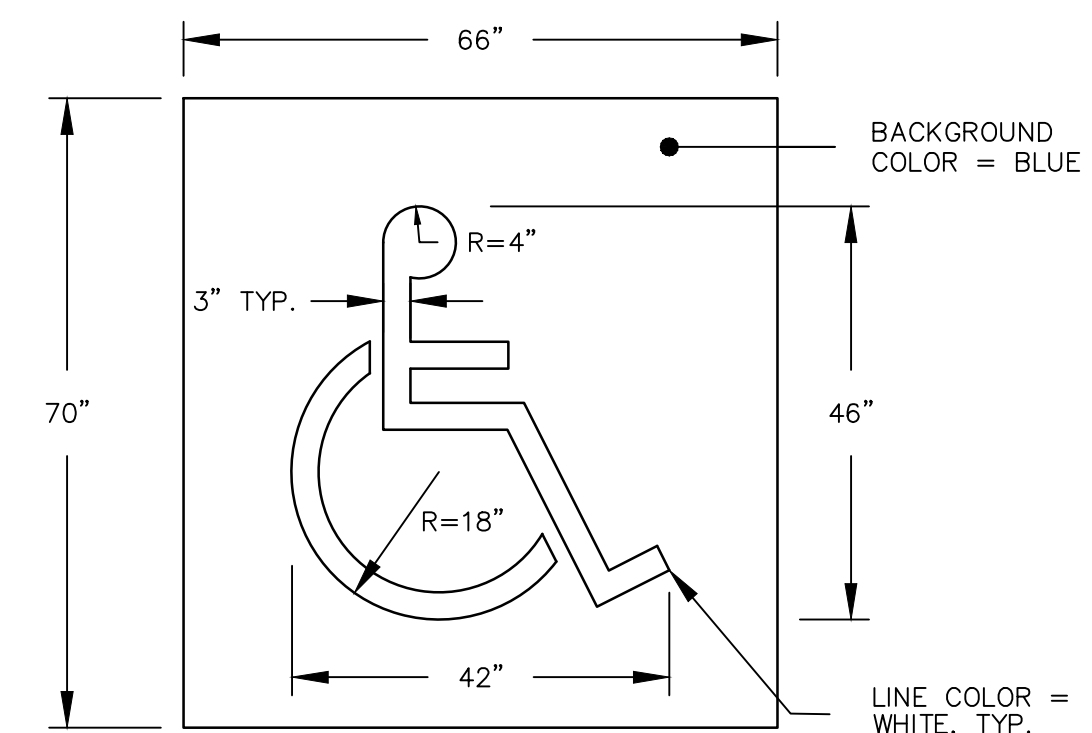
**F** LOAM & SEED  
SCALE: N.T.S.



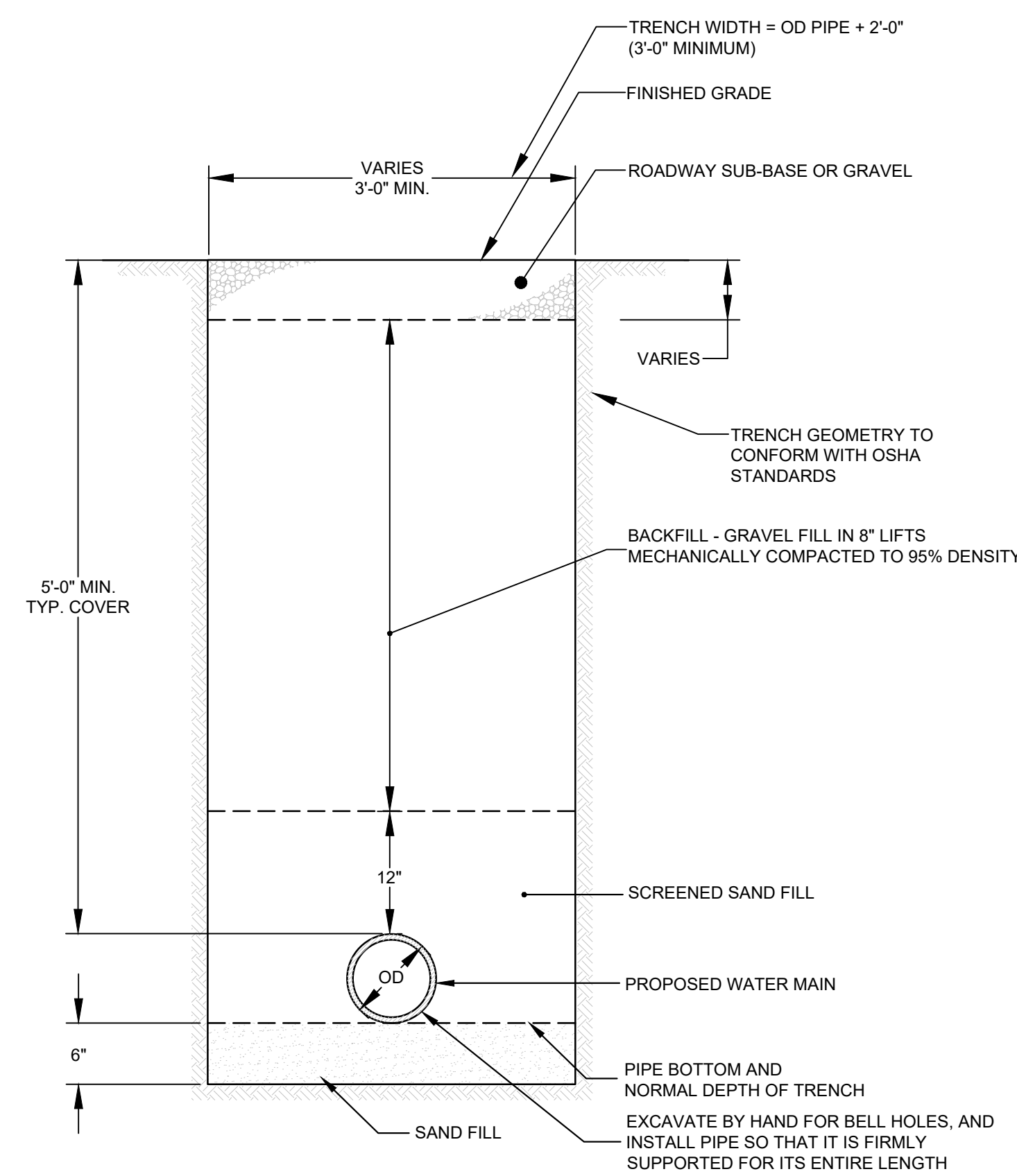
**SPECIFICATIONS**  
FINISH: MADE WITH LINEAR LOW DENSITY POLYETHYLENE PLASTIC (LLDPE)  
ACTUAL PANEL DIMENSIONS: 72" H X 69.75" W  
PANEL WEIGHT: 56 LBS  
TOLERANCES: ± 5"

**NOTES:**  
1. SHERWOOD FENCE BY CERTAINTEE OR APPROVED EQUAL.  
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

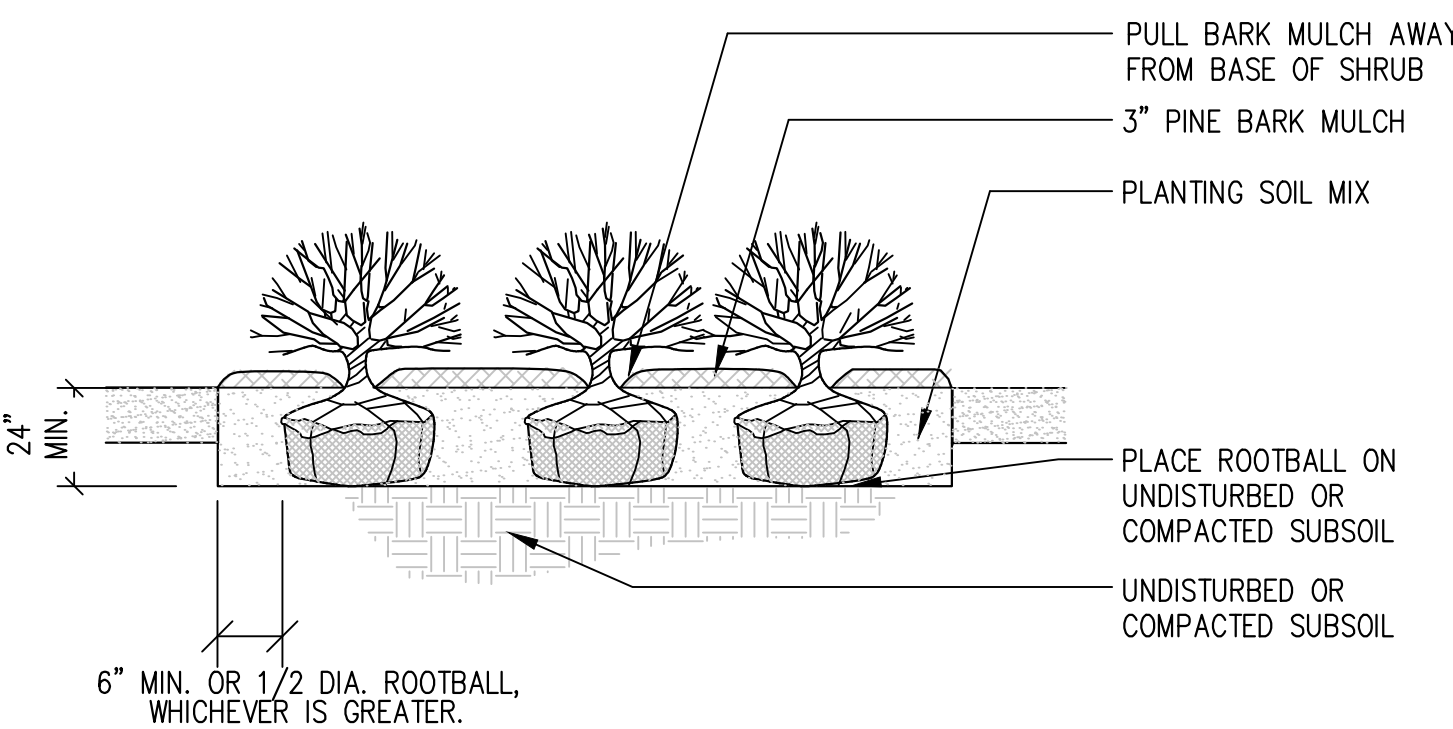
**G** 6' VINYL FENCE  
SCALE: N.T.S.



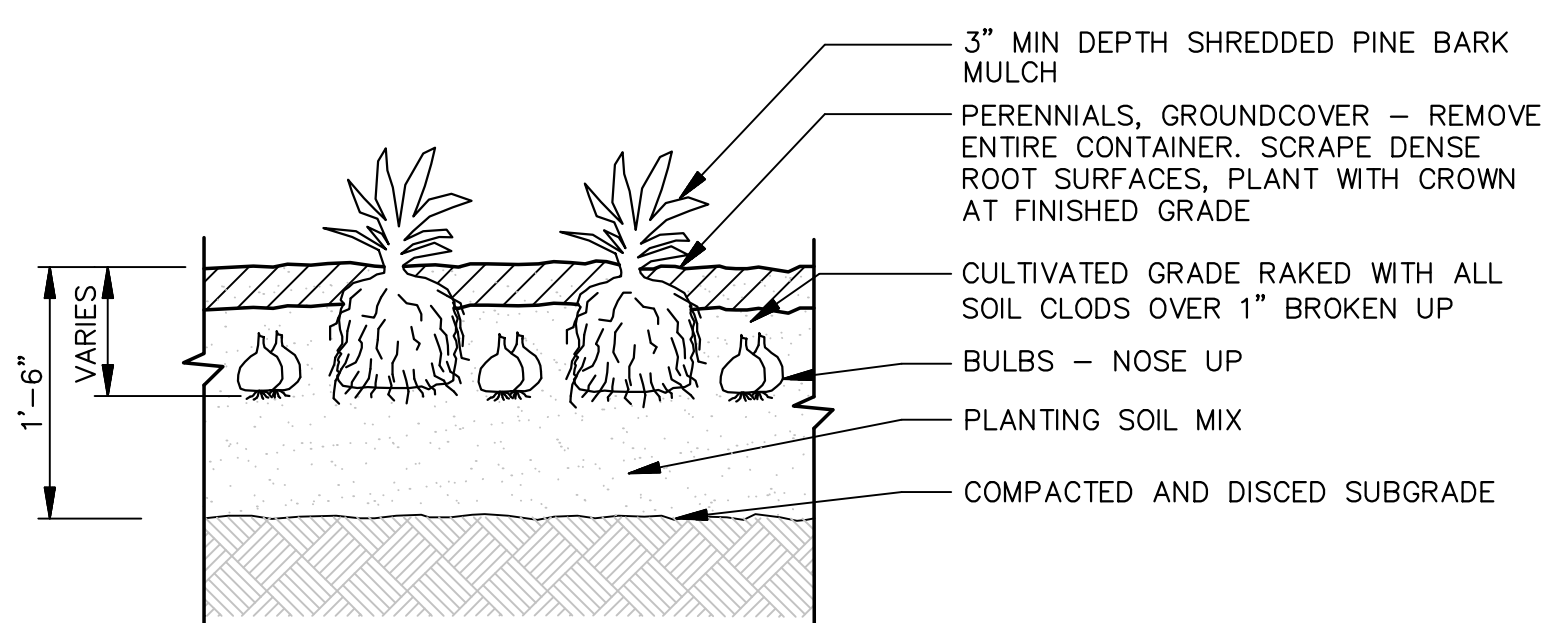
**H** ACCESSIBLE PARKING SPACE MARKING  
SCALE: N.T.S.



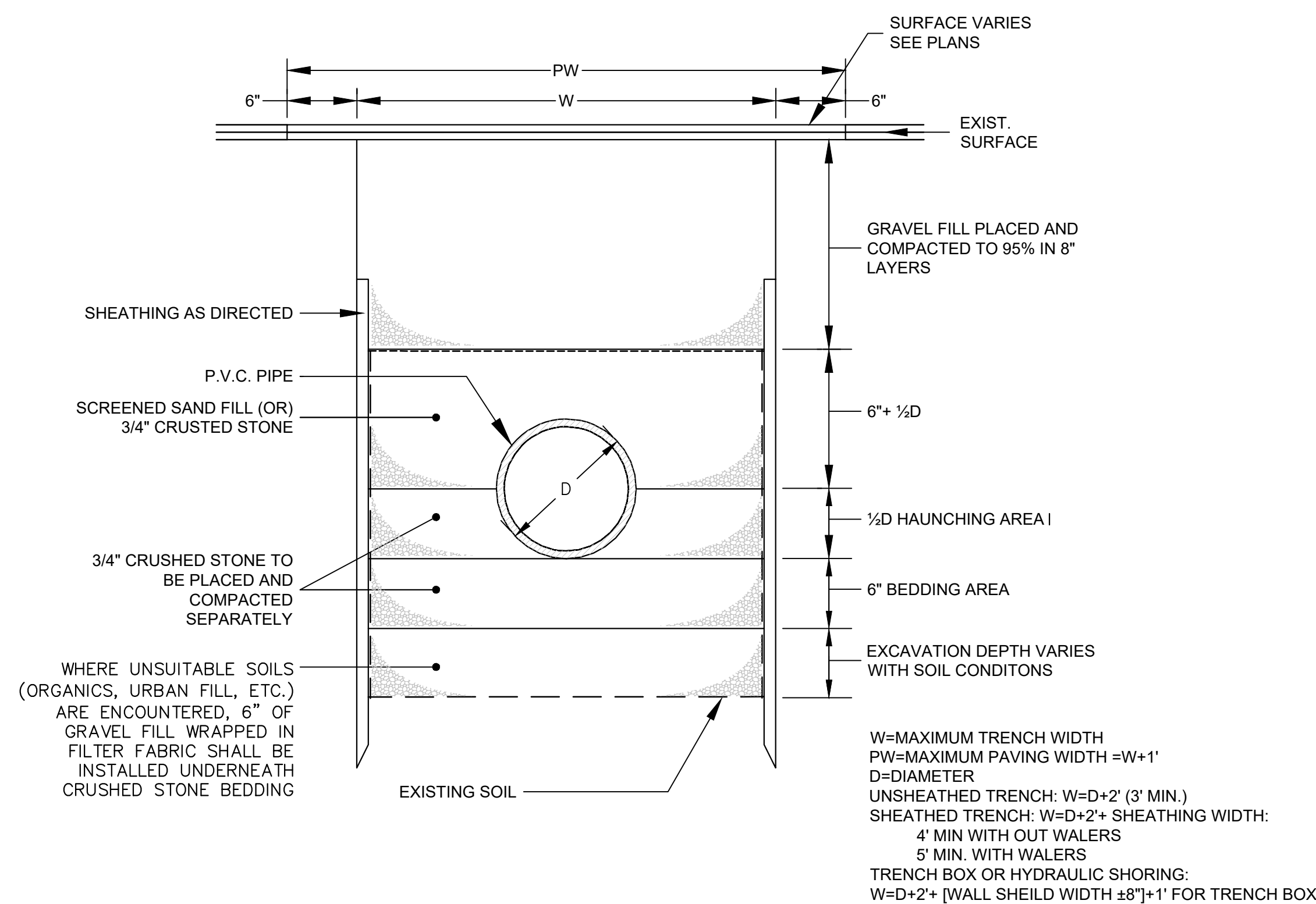
**C** WATER LINE TRENCH  
SCALE: N.T.S.



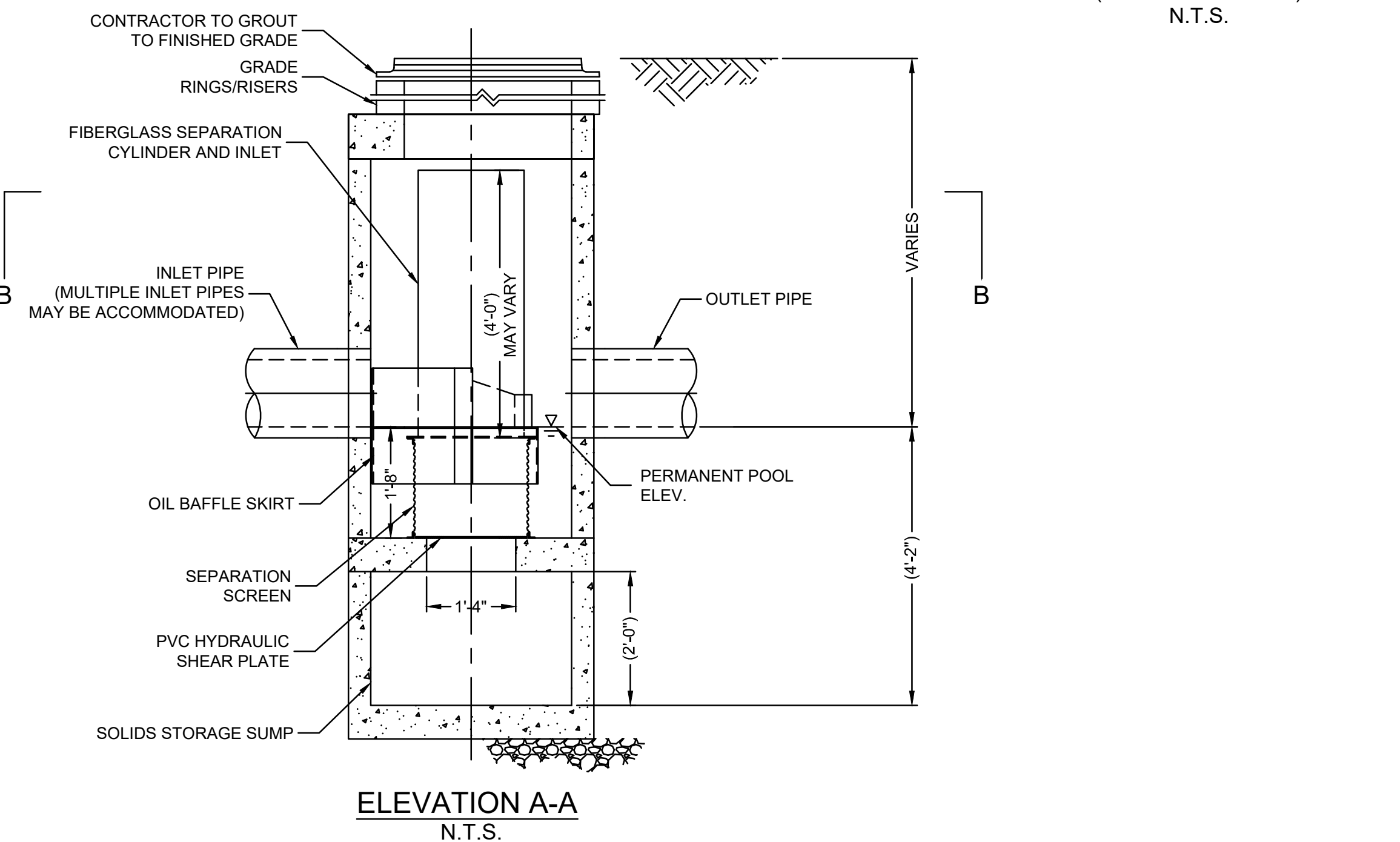
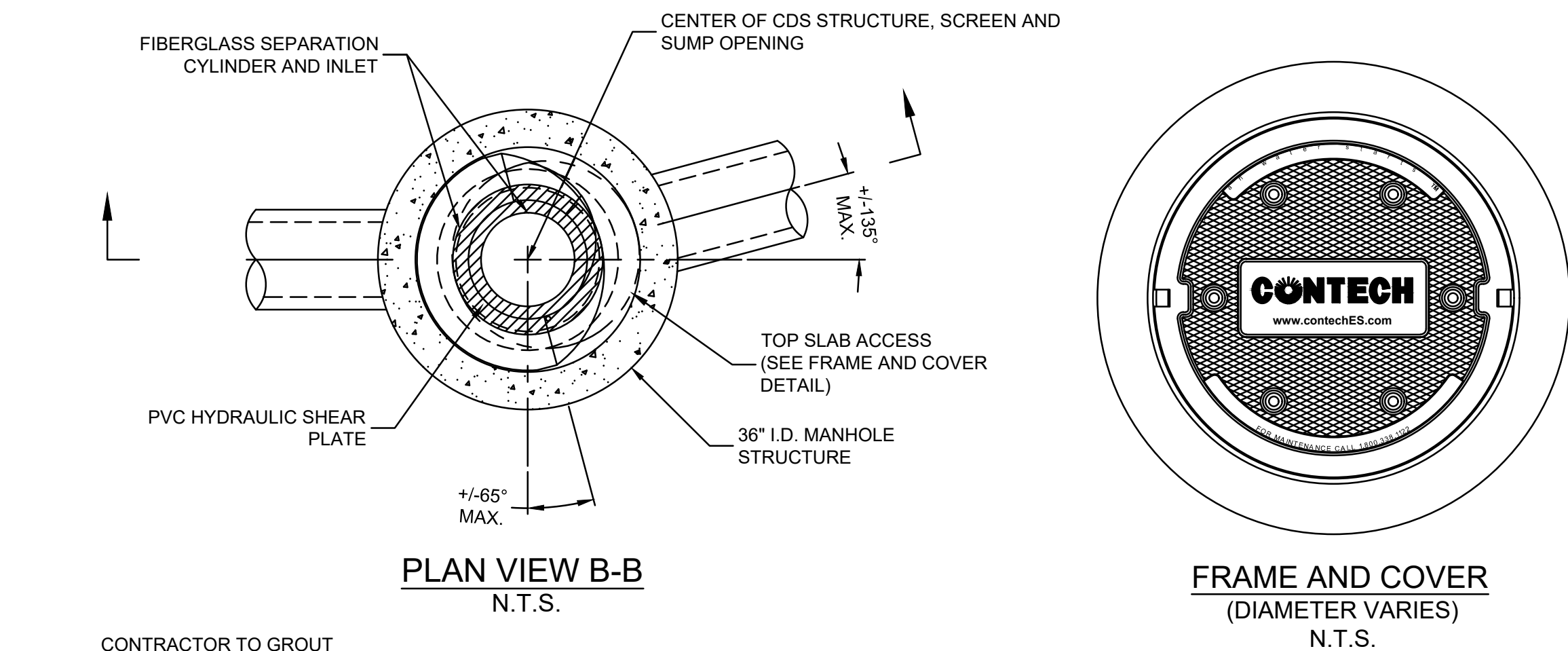
**D** SHRUB PLANTING  
SCALE: N.T.S.



**E** PERENNIAL PLANTING  
SCALE: N.T.S.

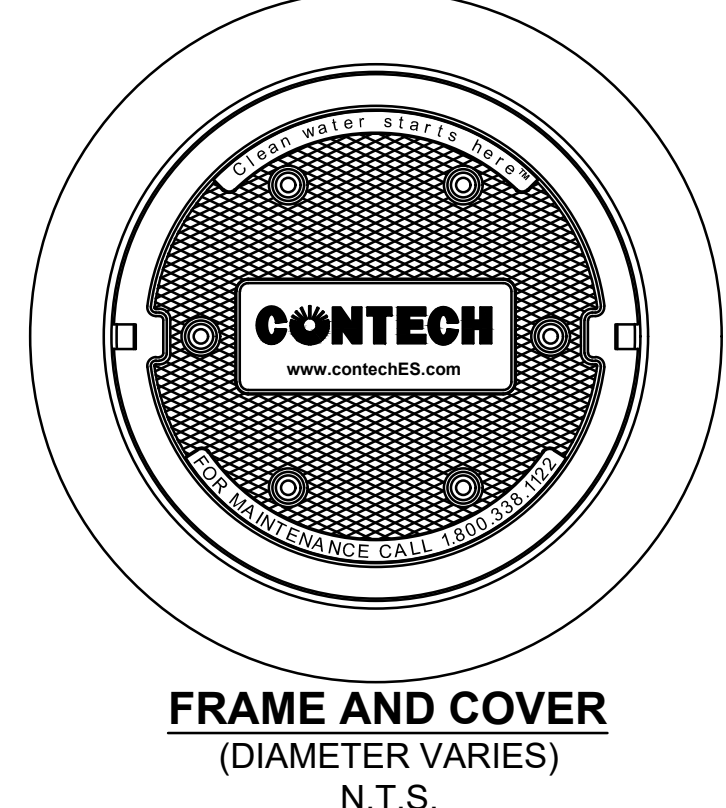
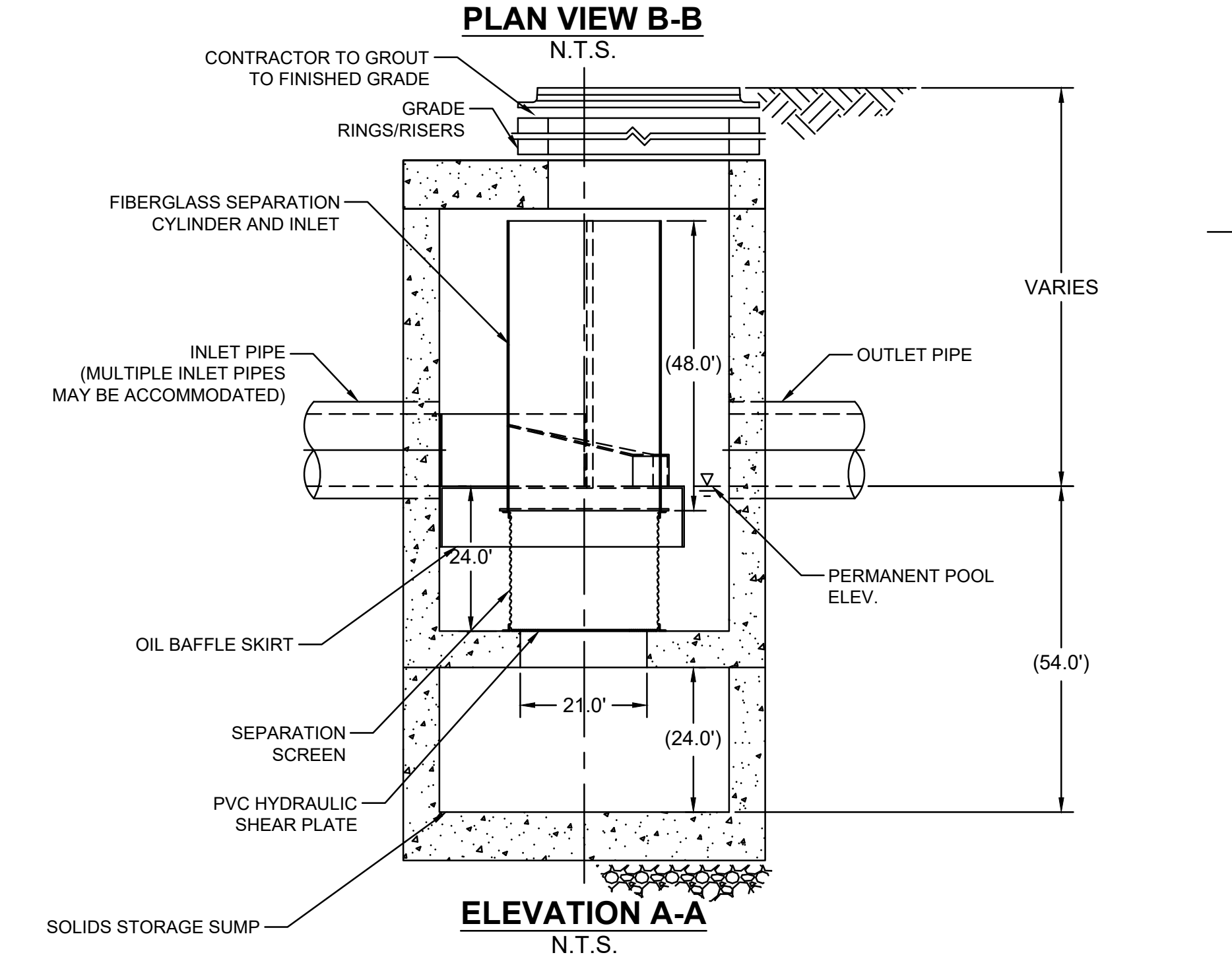
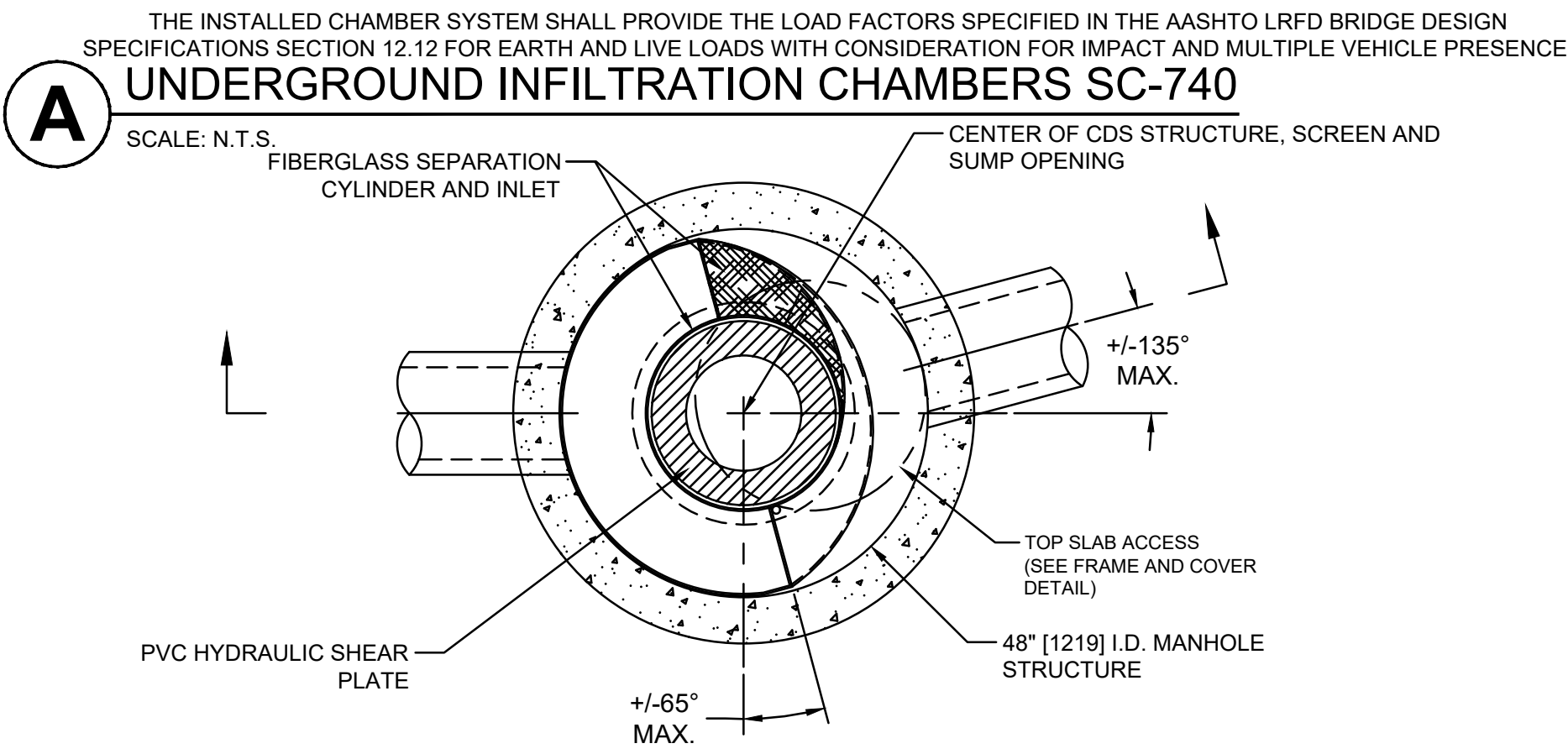
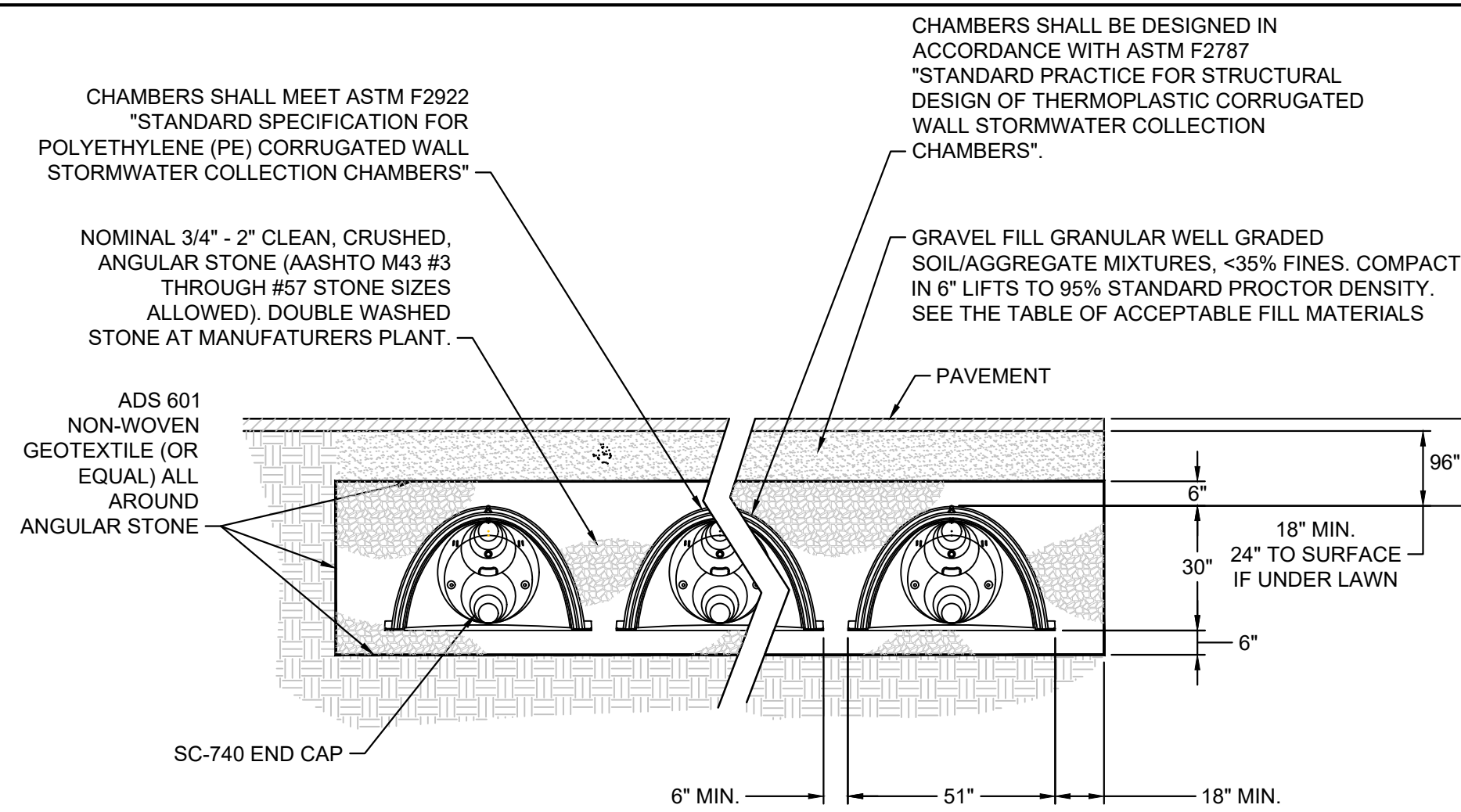


**A** SEWER LINE TRENCH  
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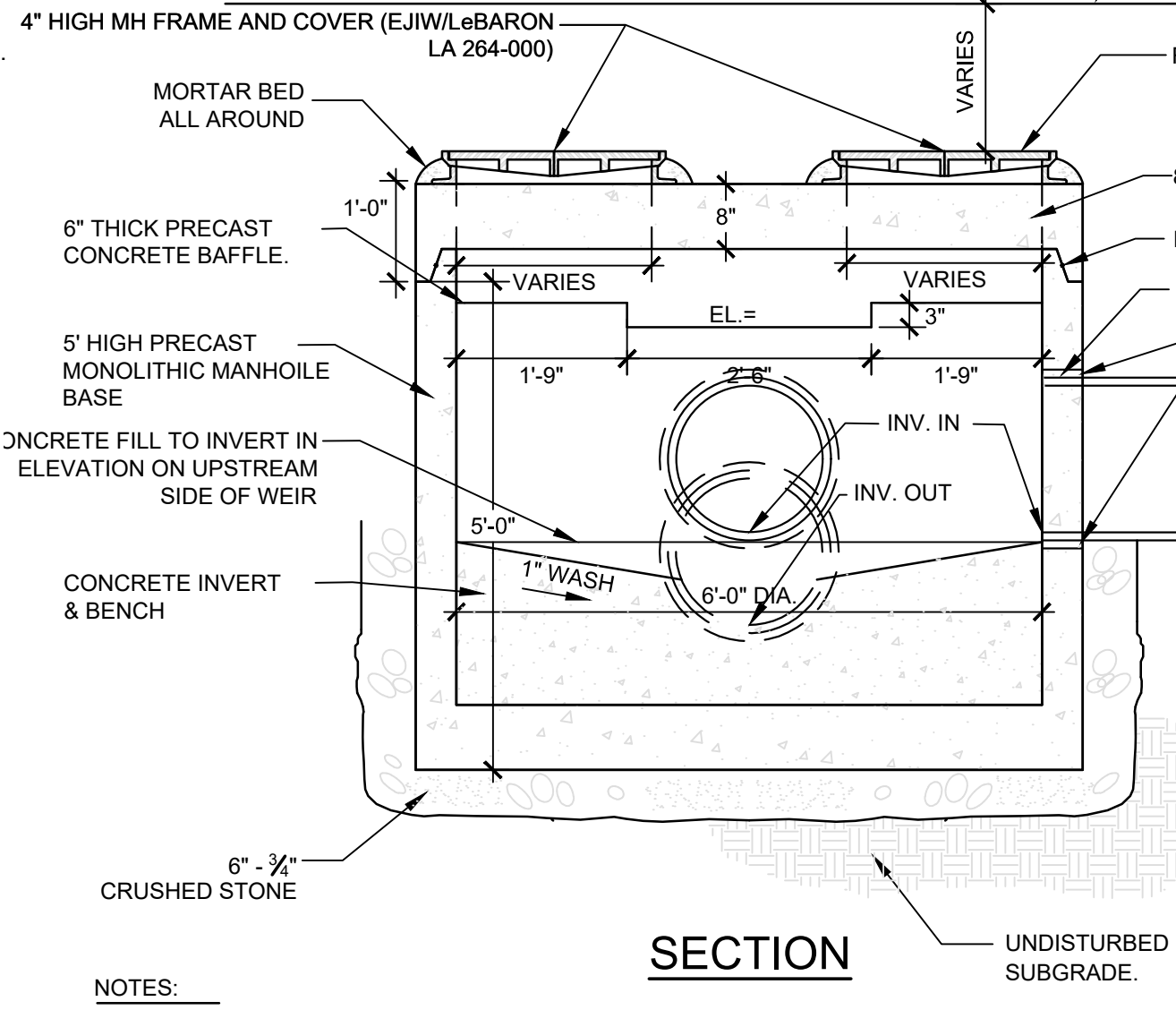
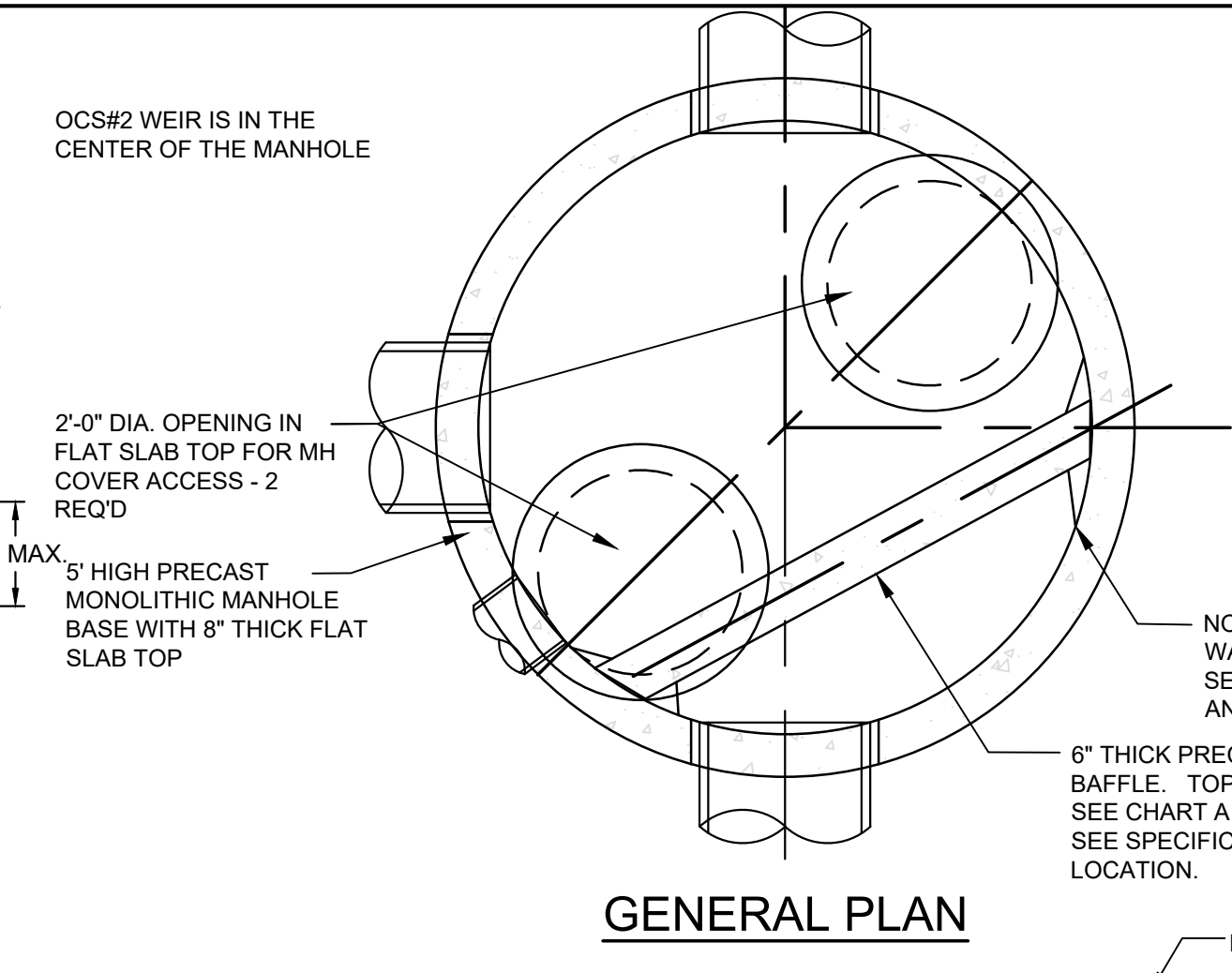


**B** CONTECH CDS 1515-3  
SCALE: N.T.S.

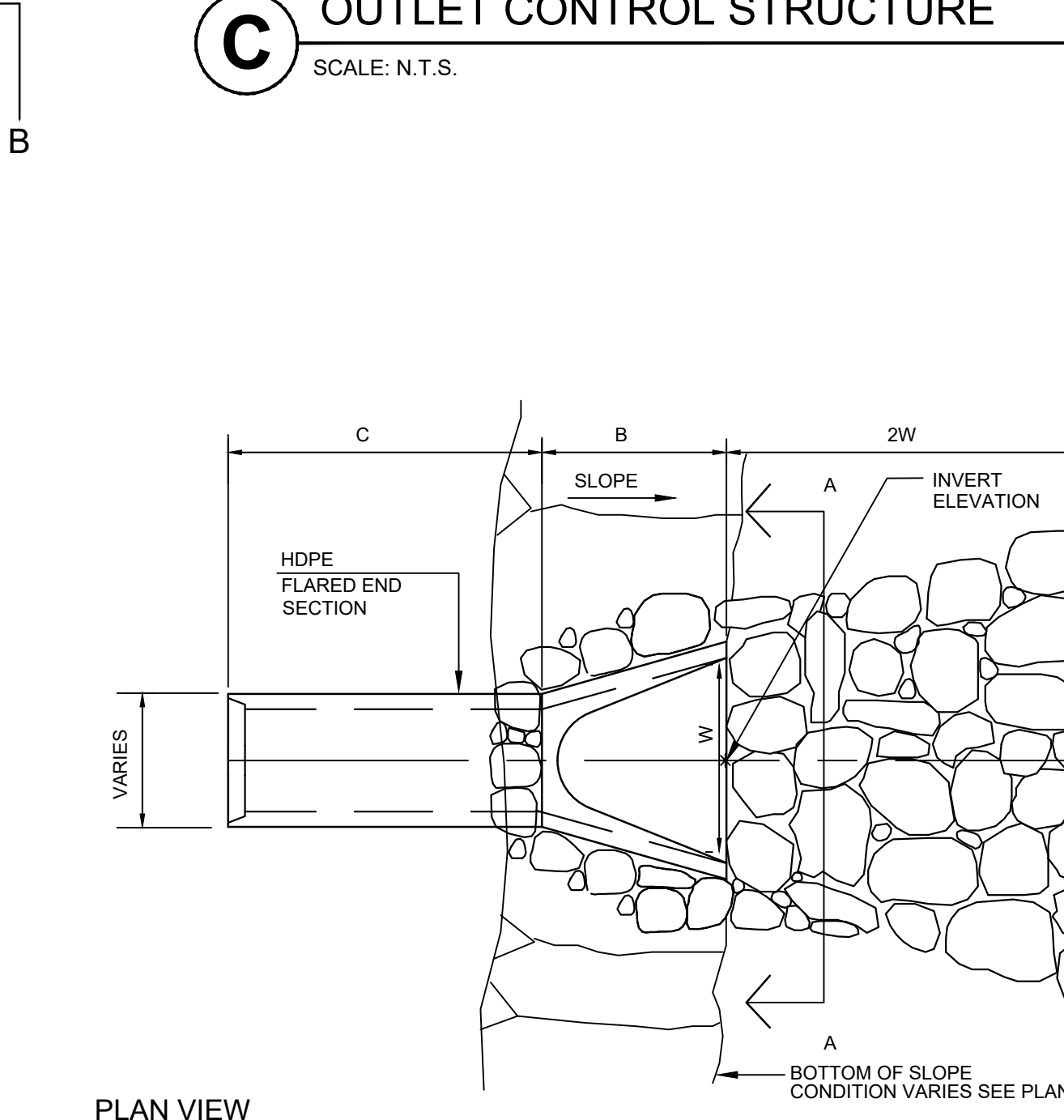




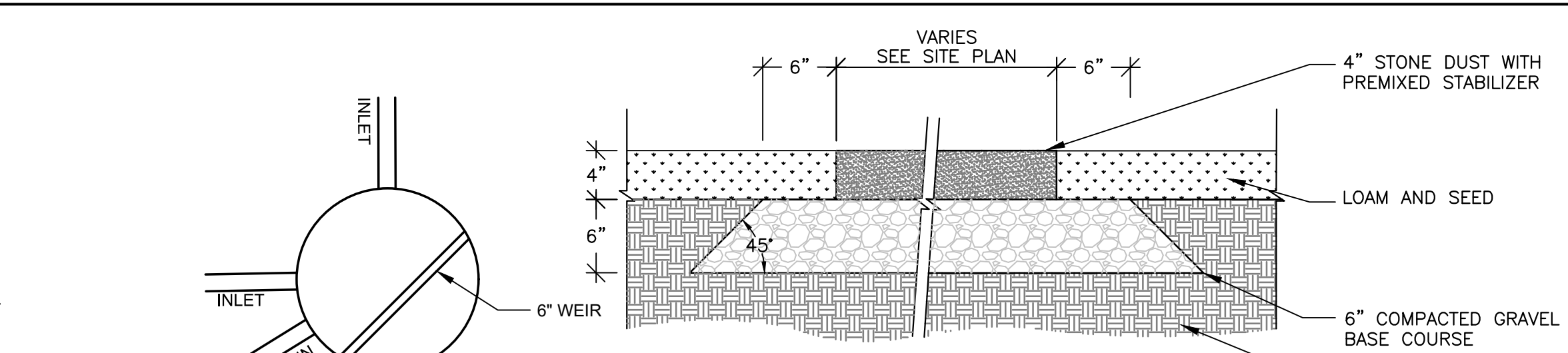
**B** CONTECH CDS 2015-4 OR APPROVED EQUAL  
SCALE: N.T.S.



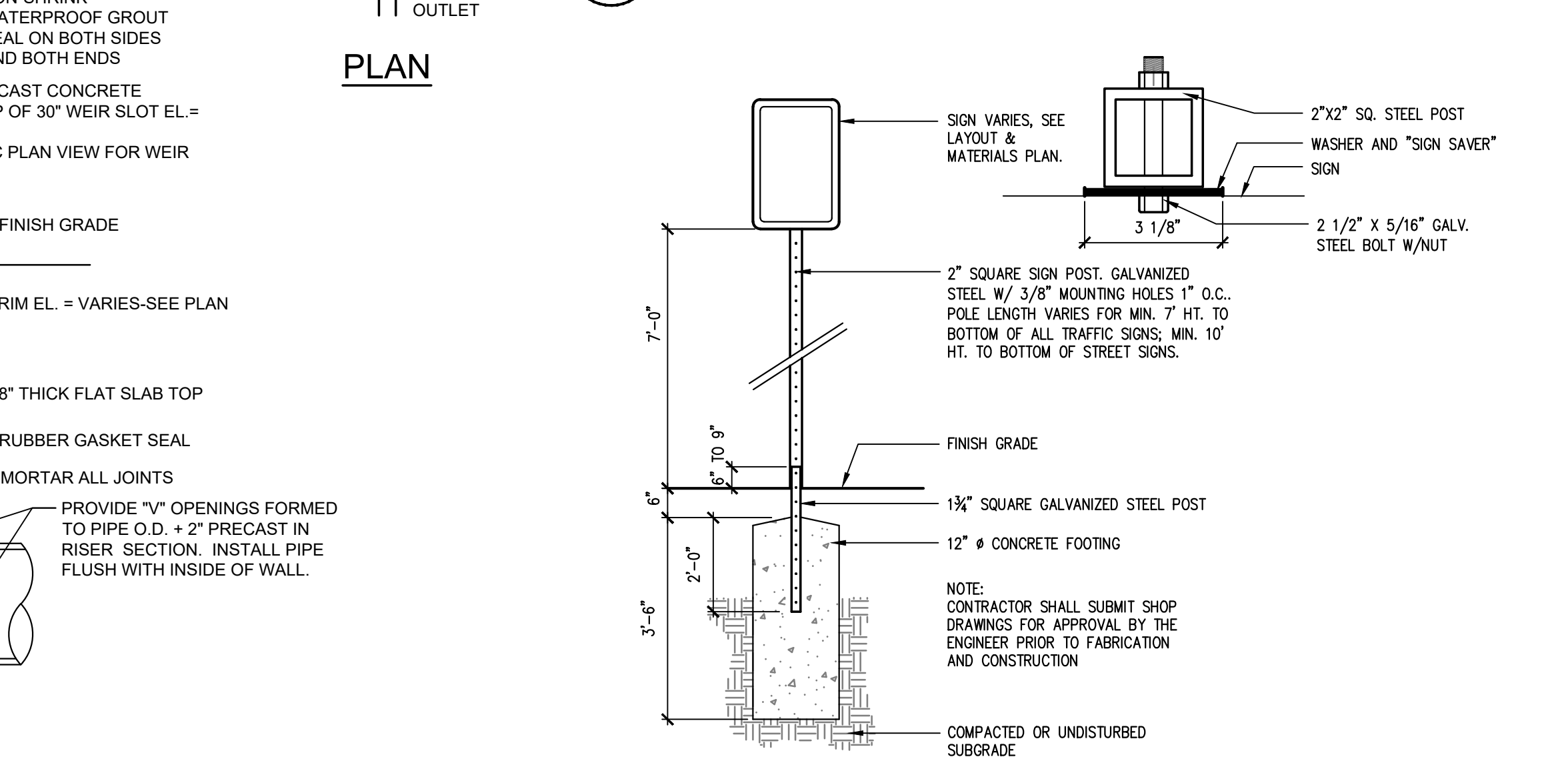
**C** OUTLET CONTROL STRUCTURE  
SCALE: N.T.S.



**D** RIP RAP SPILLWAY  
SCALE: N.T.S.



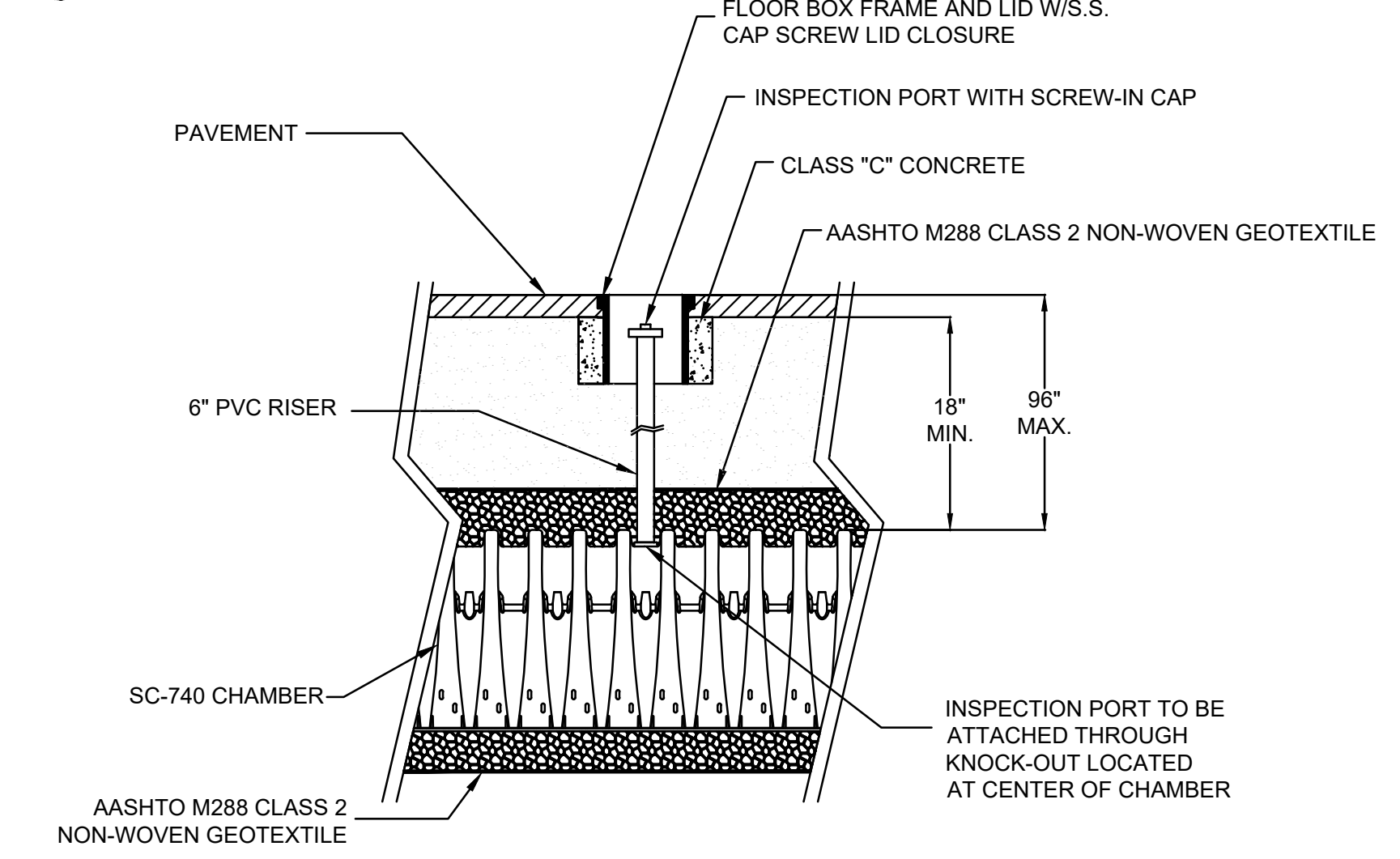
**E** STABILIZED STONEDUST  
SCALE: N.T.S.



**F** SIGN POST  
SCALE: N.T.S.

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	NUMBER OF SIGNS REQUIRED	COLOR OF SIGNS		
	WIDTH	HEIGHT			BACKGROUND	LEGEND	BORDER
R1-1	18"	18"		2	RED	WHITE	WHITE
R7-8	12"	18"		2	SEE 2009 MUTCD		
R7-8A	12"	6"		2			
R6-1R	36"	12"		1			
R5-1	18"	18"		2			

**G** SIGN SCHEDULE  
SCALE: N.T.S.



**H** INSPECTION PORT  
SCALE: N.T.S.

# STURBRIDGE SENIOR CENTER

480 MAIN STREET,  
STURBRIDGE, MA 01518

TOWN OF STURBRIDGE

ARCHITECT



101 SUMMER ST BOSTON MA 02110

CIVIL, LANDSCAPE ARCHITECT & SURVEY CONSULTANT



Waterfield Design Group  
50 Cross Street  
Winchester, Massachusetts 01890  
T: 781.756.0001 F: 781.756.0007

STAMP

KEY PLAN

MARK	DATE	DESCRIPTION
	3-8-2023	CD PROGRESS SET

PROJECT NUMBER: 222064.000 - WDG# - W-1717  
DRAWN BY: JRM  
CHECKED BY: CRM

SHEET TITLE

## DETAILS

# C-111



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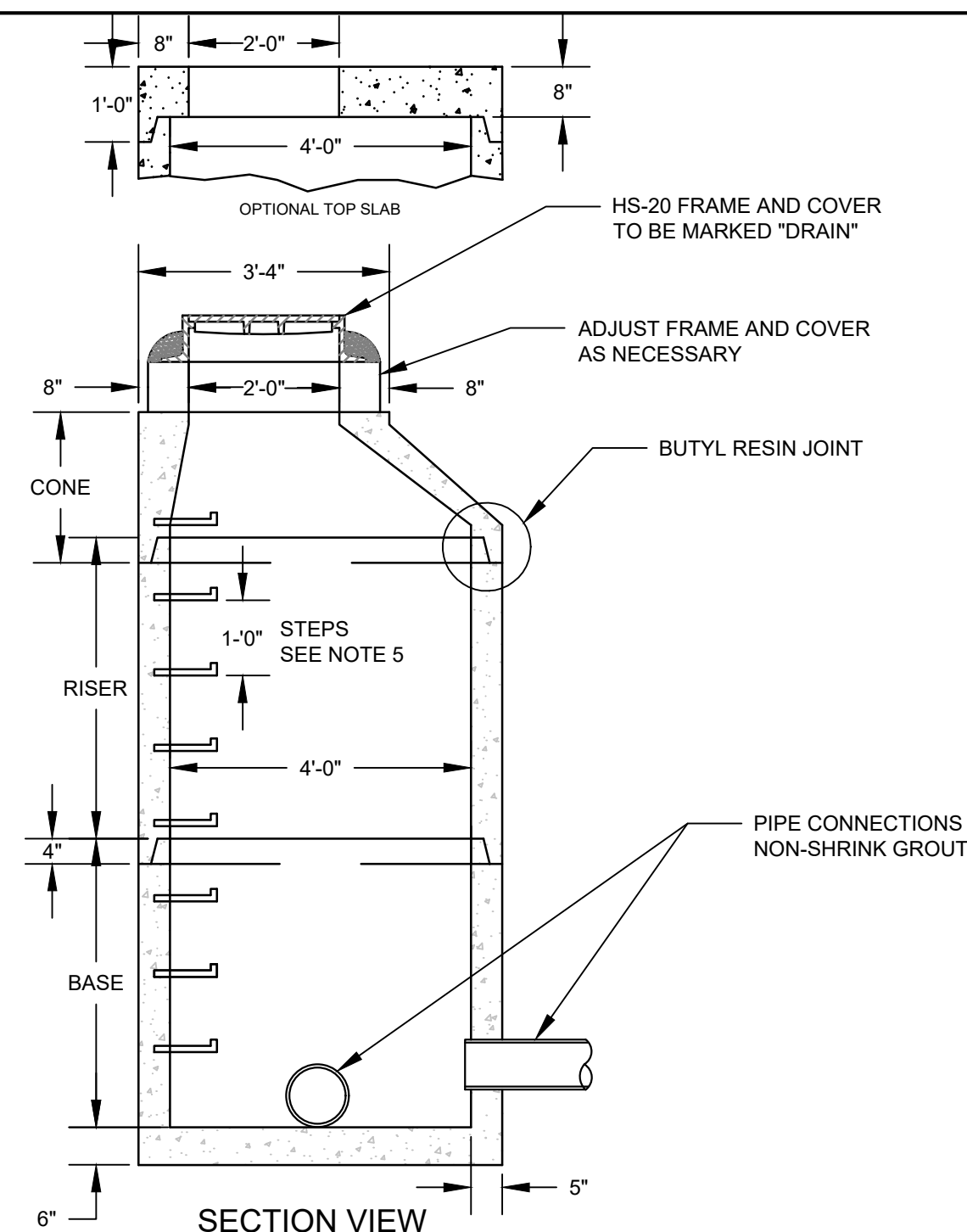
C-112

FLAT TOP		
ITEM NO	ITEM NO	WEIGHT
1 HOLE	MH4-FT4D	1,620#
2 HOLE	MH4-FT4ID2H	930#

ECCENTRIC CONE		
HEIGHT	ITEM NO	WEIGHT
1'-6"	MH4-18C4ID	1,335#
2'-0"	MH4-24C4ID	1,783#
2'-6"	MH4-30C4ID	2,231#
3'-0"	MH4-36C4ID	2,677#
4'-0"	MH4-60C4ID	3,425#

RISER SECTION		
HEIGHT	ITEM NO	WEIGHT
1'-0"	MH4-12CS4ID	856#
2'-0"	MH4-24CS4ID	1,712#
2'-6"	MH4-30CS4ID	2,140#
3'-0"	MH4-36CS4ID	2,568#
4'-0"	MH4-48CS4ID	3,424#
5'-0"	MH4-60CS4ID	4,280#

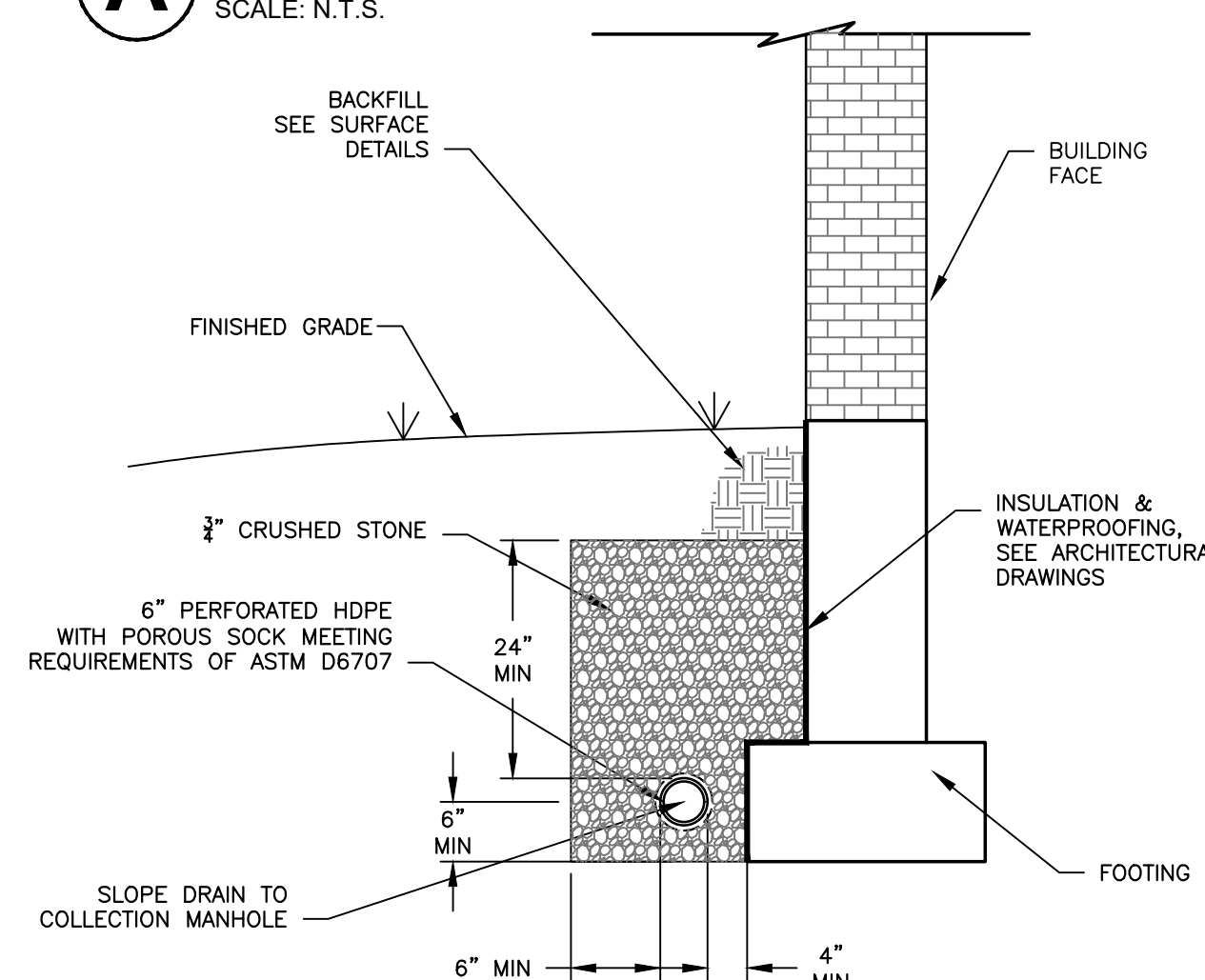
BASE SECTION		
HEIGHT	ITEM NO	WEIGHT
2'-0"	MH4-24S4ID	2,640#
2'-6"	MH4-30S4ID	3,067#
3'-0"	MH4-36S4ID	3,495#
3'-6"	MH4-42S4ID	3,922#
4'-0"	MH4-48S4ID	4,350#
4'-6"	MH4-54S4ID	4,777#
5'-0"	MH4-60S4ID	5,205#
5'-6"	MH4-66S4ID	5,633#
6'-0"	MH4-72S4ID	6,060#



- NOTES:
1. CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS.
  2. REINFORCED STEEL CONFORMS TO LATEST ASTM A185 SPEC. 0.12 SQ. IN./LINEAL FT. AND 0.12 SQ. IN. (BOTH WAYS) BASE BOTTOM.
  3. H-20 DESIGN LOADING PER AASHTO HS-20-44; ASTM C478 SPEC FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS."
  4. BUTYL RESIN SECTION JOINT CONFORMS TO LATEST ASTM C990 SPEC.
  5. STEEL REINFORCED COPOLYMER POLYPROPYLENE PLASTIC STEP CONFORMS TO LATEST ASTM C478 SPEC.
  6. FOR SHALLOW PIPES CONTRACTOR SHALL USE FLAT TOP SLAB AND HAVE STRUCTURE CAST WITH OPENING FOR THE PIPE AT THE TOP OF THE FORM FOR THE STRUCTURE. PLACE FRAME AND COVER DIRECTLY ON FLAT TOP.
  7. MANHOLE SHALL BE PLACED ON A MINIMUM OF 6" OF COMPACTED 3/4" CRUSHED STONE.

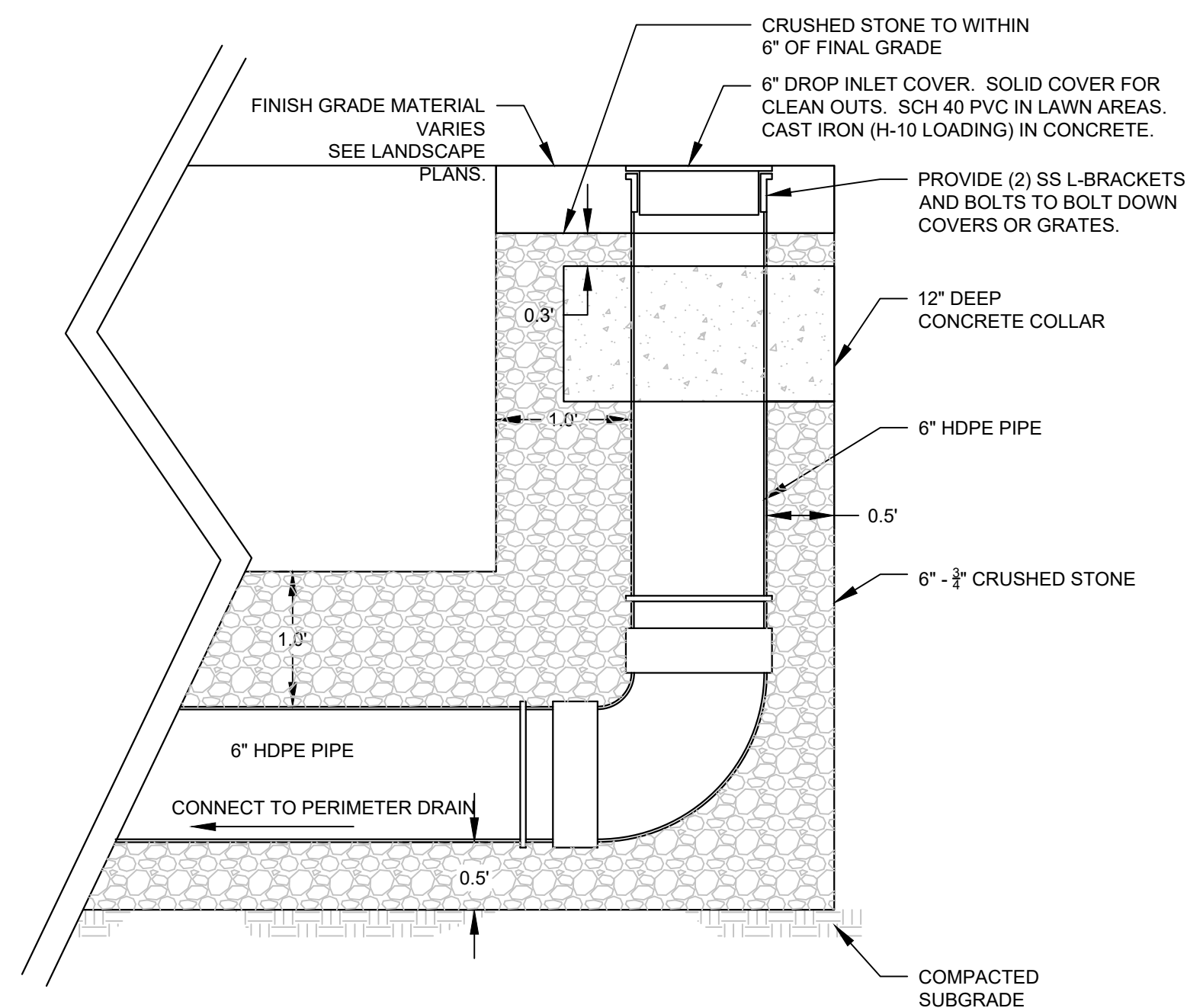
## A DRAIN MANHOLE

SCALE: N.T.S.



## B FOUNDATION PERIMETER DRAIN

SCALE: N.T.S.



## C PERIMETER DRAIN CLEAN OUT

SCALE: N.T.S.