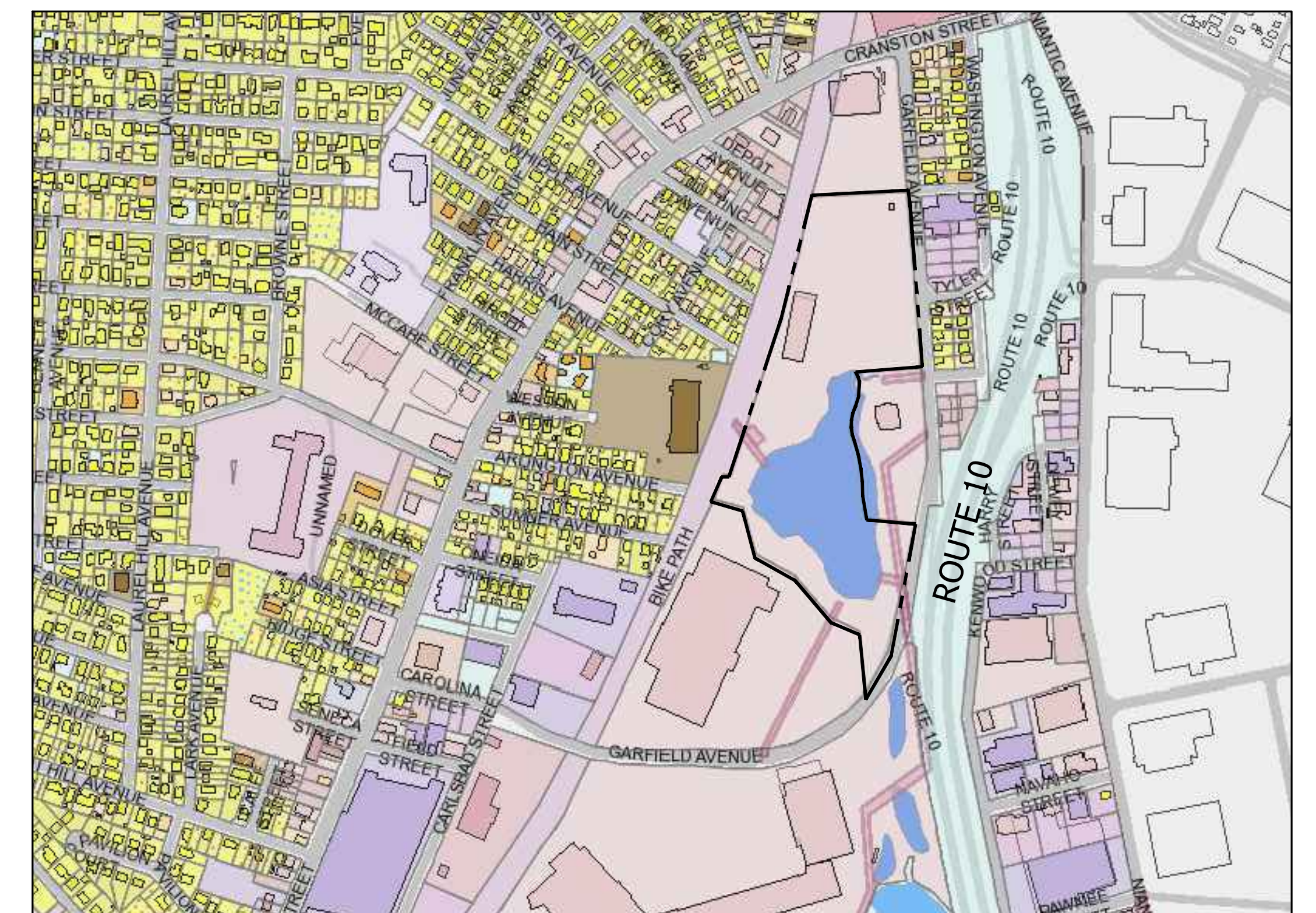
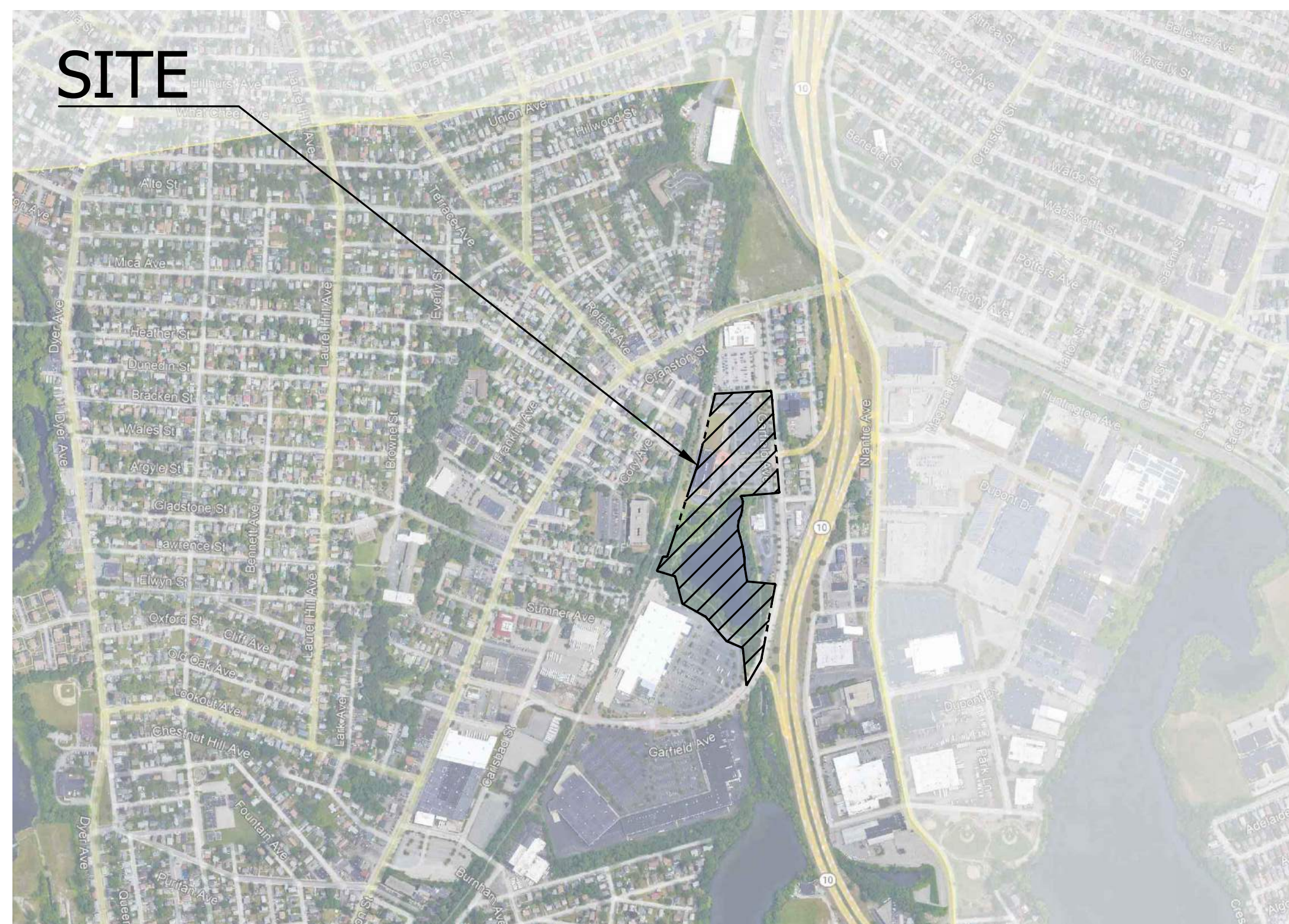


Achievement First

ILUMINAR SCHOOL ADDITION

ADDRESS: 85 GARFIELD AVE, CRANSTON, RI 02920

PROJECT NUMBER: 21012.02



VOLUME 1 OF 1

DPR REVIEW

2/7/2023

KAESTLE BOOS ASSOCIATES, INC. KAESTLE BOOS associates, inc ARCHITECTURAL, INTERIORS & LANDSCAPE

PARISEAULT BUILDERS PARISEAULT BUILDERS CONSTRUCTION MANAGEMENT

B+AC, LLC ● ● STRUCTURAL ENGINEER

AKAL ENGINEERING, INC. ● ● MECHANICAL, PLUMBING & FIRE PROTECTION ENGINEER

ELECTRICAL SYSTEMS ENGINEERING, INC. ● ● ELECTRICAL ENGINEER

GOOD HARBOR TECHMARK, LLC ● ● SECURITY CONSULTANT

P.H.HAWLEY ASSOCIATES, LLC ● ● HARDWARE CONSULTANT

GREEN INTERNATIONAL AFFILIATES, INC. ● ● CIVIL ENGINEER

DRAWING LIST:

-	COVER SHEET
1 of 1	SITE SURVEY
L1.00	OVERALL SITE PLAN
L1.01	SITE DEMOLITION PLAN
L2.01	SITE LAYOUT
L3.01	MATERIALS PLAN
L4.01	SITE GRADING PLAN
L5.01	SITE PLANTING PLAN
L6.01	SITE DETAILS
L6.02	SITE DETAILS
L6.03	SITE DETAILS
C1.00	CIVIL NOTES
C1.01	SITE PREPARATION AND EROSION CONTROL PLAN
C1.02	SITE UTILITIES & DRAINAGE PLAN
C2.01	CIVIL DETAILS 1
C2.02	CIVIL DETAILS 2
C2.03	CIVIL DETAILS 3

GENERAL NOTES

- THE PARCEL IS FOUND ON ASSESSOR'S PLAT 7/2, LOT 91 IN THE CITY OF CRANSTON, PROVIDENCE, RHODE ISLAND.
- THE OWNER OF MASTER UNIT 1 PER DEED BOOK 6466, PAGE 305 IS ACHIEVEMENT FIRST RHODE ISLAND, INC.
- THE PARCEL IS LOCATED IN ZONE X PER FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP 44007C032H, DATED OCTOBER 2, 2015.
- THE PARCEL IS ZONED C-4 (HIGHWAY BUSINESS) PER THE ASSESSOR'S ONLINE DATABASE. PLEASE CONTACT THE ZONING DEPARTMENT FOR ANY ADDITIONAL INFORMATION OR FOR A CERTIFICATE OF ZONING.
- FIELD SURVEY PERFORMED BY DIPRETE ENGINEERING IN SPRING OF 2015, AND AUGUST OF 2021. THIS PLAN REFLECTS ON THE GROUND CONDITIONS AS OF THAT DATE.
- THERE WERE CEMETERIES, GRAVE SITES AND OR BURIAL GROUNDS OBSERVED WITHIN THE LIMITS OF THE SURVEY.
- PLEASE REFER TO RHODE ISLAND GENERAL LAW § 23-23-18-II FOR BUILDING REQUIREMENTS AROUND A HISTORIC CEMETERY.
- DIPRETE ENGINEERING IS NOT RESPONSIBLE FOR AN ARCHAEOLOGICAL INVESTIGATION NEEDED TO DETERMINE THE BOUNDARIES OF THE UNMARKED CEMETERY AS REQUIRED BY RHODE ISLAND GENERAL LAW § 23-23-18-II SUBSECTION 2C. THE APPROXIMATE AREA OF THE UNMARKED CEMETERY THE AREA SHOWN ON THIS SURVEY IS BASED SOLELY ON THE LOCATION OF THE HEADSTONE FOUND IN THE FIELD AT THE TIME OF THE SURVEY ON OCTOBER 17, 2011.
- WETLAND FLAGS WERE DELINEATED BY LEC ENVIRONMENTAL CONSULTANTS, INC.

PLAN REFERENCES:

- FINAL PLAT GARFIELD OFFICE GREEN A.K.A. BREWERY PARKADE PARCEL 1 & 2 AREA = 1,028,449 S.F. = 23.61 ACRES OWNERS: C.P. ASSOCIATES L.L.C. 14.9 COLONIAL ROAD CONNECTICUT 06040 DATE: APRIL 18, 2002 REV. 1/24/03 PREPARED BY GEORGE J. GEISSER, III. RECORDED IN THE CITY OF CRANSTON LAND EVIDENCE RECORDS AS PLAT CARD 689 ON MAP 424.
- FINAL PLAT, CRANSTON POLICE STATION PLAT A.K.A. GARFIELD OFFICE GREEN PHASE 2, GARFIELD AVENUE CRANSTON, RHODE ISLAND, ASSESSORS PLAT 7, LOT 91 OWNERS: C.P. ASSOCIATES L.L.C. 14.9 COLONIAL ROAD CONNECTICUT 06040 PREPARED BY GEISSER ENGINEERING CORPORATION. RECORDED IN THE CITY OF CRANSTON LAND EVIDENCE RECORDS AS PLAT CARD 720 ON MAP 505.
- ADMINISTRATIVE SUBDIVISION OF THE CRANSTON PARKADE, RHODE ISLAND PROVIDENCE COUNTY SCALE: 1"=120', NOV. 18, 2000, REV. 1-22-2001 PREPARED BY LUNAR MAPPING UNLIMITED. RECORDED IN THE CITY OF CRANSTON LAND EVIDENCE RECORDS AS PLAT CARD 660 ON MAP 346.
- FINAL PLAT - PHASE I THE CRANSTON PARKADE, GARFIELD AVENUE, CRANSTON, RHODE ISLAND PREPARED FOR NEW FIRST HARTFORD REALTY CORPORATION, PREPARED BY CROSSMAN ENGINEERING, INC. SHEET 5 OF 50, LAST REVISED 9-19-2000. RECORDED IN THE CITY OF CRANSTON LAND EVIDENCE RECORDS AS PLAT CARD 657 ON MAP 338.
- PROPOSED PROPERTY LINE MAP AND FULL EASEMENT LOCUS MAP OF PROPERTY LOCATED IN CRANSTON, RHODE ISLAND PROVIDENCE COUNTY SCALE: 1"=150', AUG. 14, 2000 LAST REVISED 9-19-2000. RECORDED IN THE CITY OF CRANSTON LAND EVIDENCE RECORDS AS PLAT CARD 657 ON MAP 337.
- RHODE ISLAND DEPARTMENT OF TRANSPORTATION CONTRACT DRAWINGS FOR CONTRACT NO. 2001-CH-031
- RHODE ISLAND HIGHWAY PLAT NO. 2410.
- PLAN OF PART OF THE ALMORAN HARRIS ESTATE, CRANSTON, RI SURVEYED BY JOHN HOWE, DECEMBER, 1874, SCALE 1"=100'
- CEMETERY DEED BOOK IS PAGE 375.

DIMENSIONAL REGULATIONS:

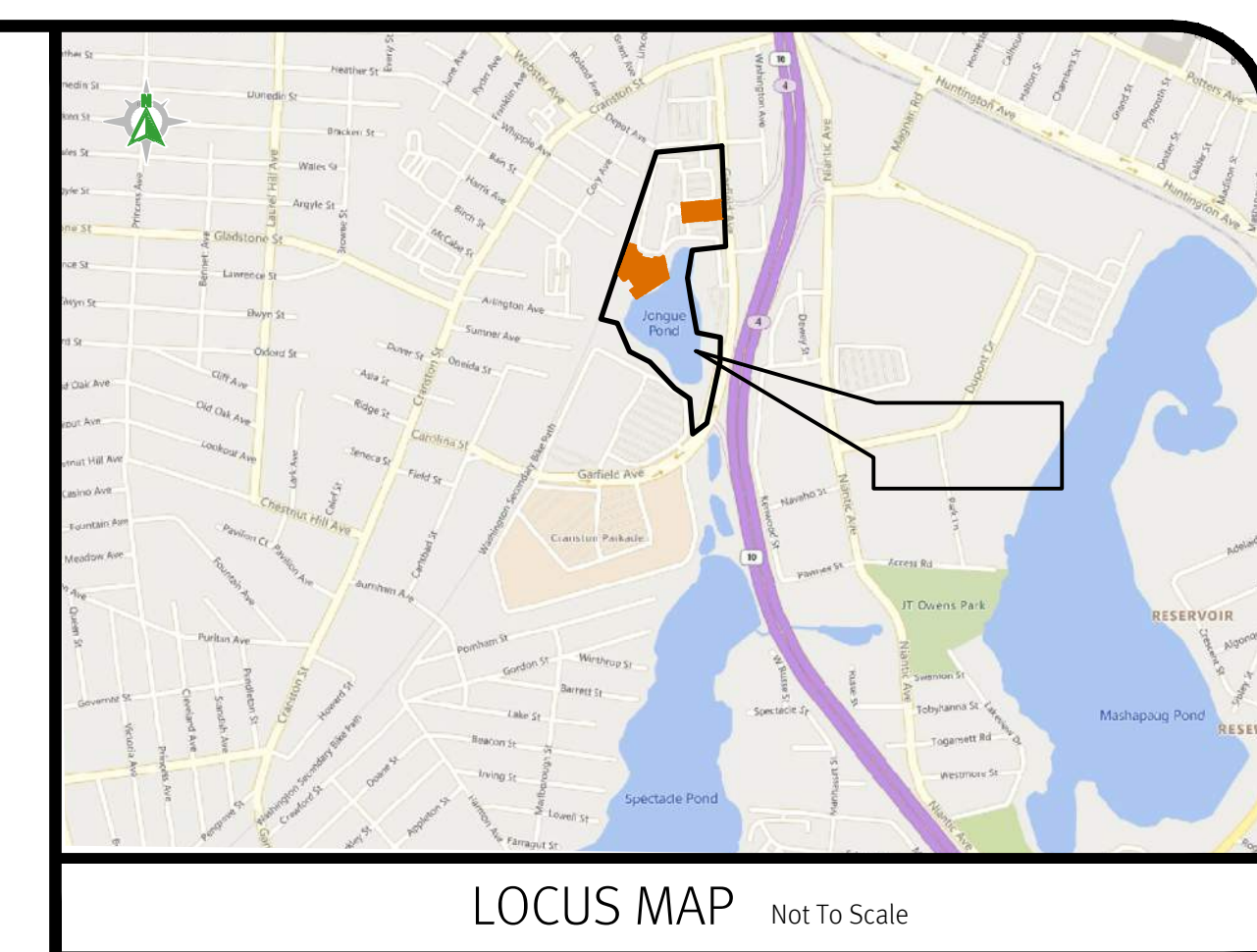
CURRENT ZONING:	REQUIRED	C-4 (HIGHWAY BUSINESS)
MINIMUM LOT AREA:	12,000 SF	12,000 SF
MINIMUM FRONT AND LOT WIDTH:	120'	120'
MINIMUM FRONT YARD:	40'	40'
MINIMUM SIDE YARD:	8'	8'
MINIMUM REAR YARD:	20'	20'
MAXIMUM STRUCTURE HEIGHT:	35'	35'
MAXIMUM LOT COVERAGE:	50%	50%

UTILITY NOTES

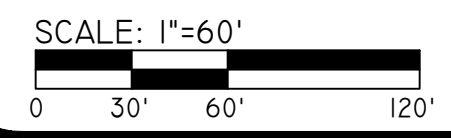
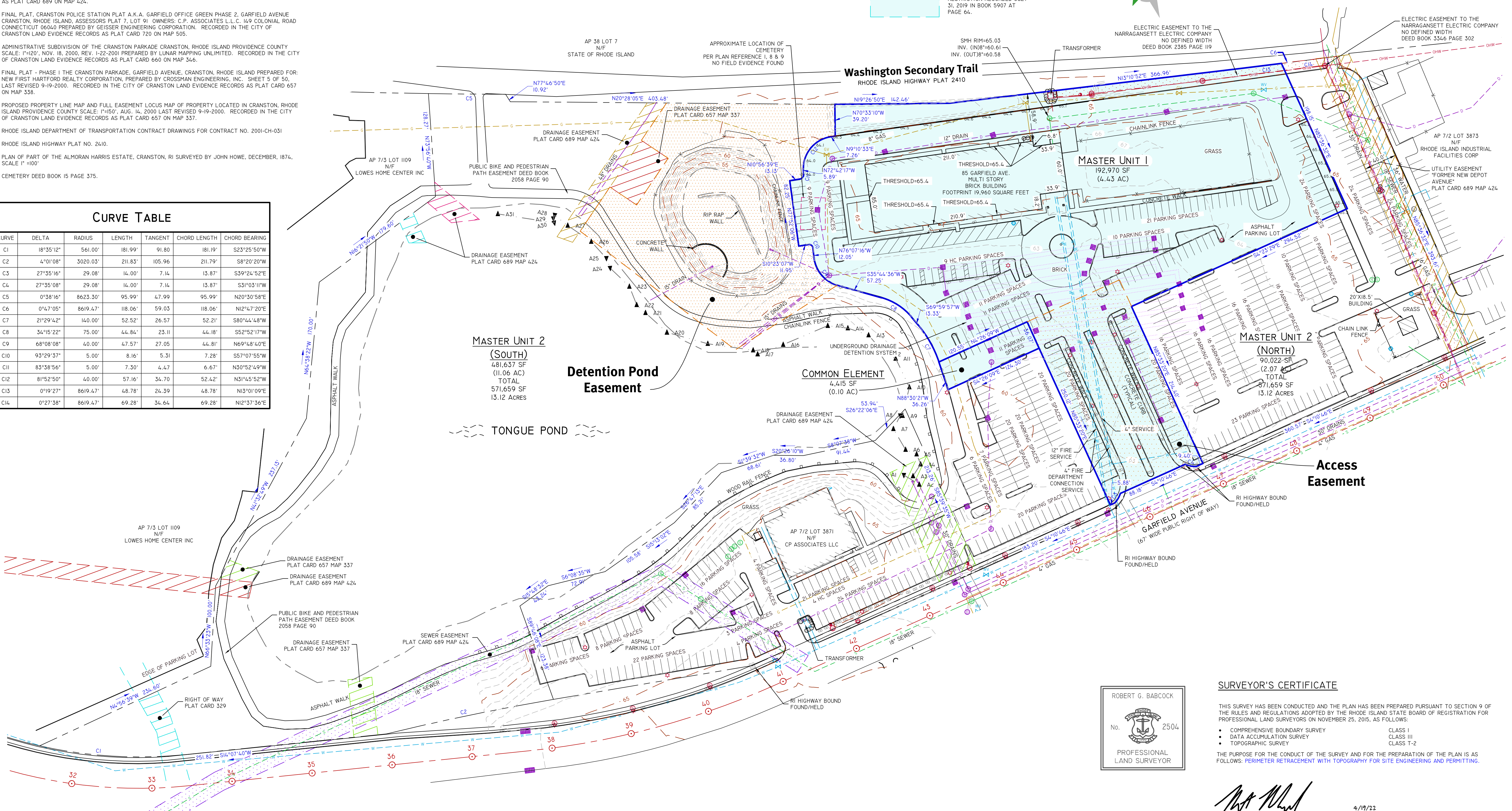
- ALL EXISTING UTILITIES DEPICTED ARE SHOWN ACCORDANCE WITH UTILITY QUALITY LEVEL C AS DEFINED IN C/ASSE STANDARD 38-02 (STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA), LATEST REVISION.
- ALL EXISTING UNDERGROUND UTILITIES SHOWN WERE PROVIDED BY OTHERS AND ARE APPROXIMATE ONLY. LOCATIONS MUST BE DETERMINED IN THE FIELD BEFORE EXCAVATION, BLASTING, UTILITY INSTALLATION, BACKFILLING, GRADING, PAVEMENT RESTORATION, AND ALL OTHER SITE WORK. ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE CONTACTED INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THESE DOCUMENTS. CONTACT DIG SAFE A MINIMUM OF 72 WORKING HOURS PRIOR TO ANY CONSTRUCTION AT 811. DIG SAFE IS RESPONSIBLE FOR CONTACTING MEMBER UTILITY COMPANIES. DIG SAFE MEMBER UTILITY COMPANIES ARE RESPONSIBLE TO MARK ONLY THE FACILITIES THAT THEY OWN OR MAINTAIN. NON DIG SAFE MEMBER COMPANIES ARE NOT NOTIFIED BY DIG SAFE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INVESTIGATE AND NOTIFY IF ANY PRIVATELY OWNED OR NON DIG SAFE MEMBER UTILITIES ARE IN THE AREA.
- PER THE CODE OF FEDERAL REGULATIONS - TITLE 29, PART 1926 IT IS THE SITE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ACCURATE UNDERGROUND UTILITY LINE LOCATIONS FROM THE UTILITY COMPANIES, UTILITY OWNERS AND, OR VIA UNDERGROUND UTILITY LOCATION EQUIPMENT AS NEEDED TO ESTABLISH ACCURATE LOCATIONS PRIOR TO ANY EXCAVATION. THE USE OF PROFESSIONAL UTILITY LOCATING COMPANIES PRIOR TO ANY EXCAVATION IS RECOMMENDED.
- DIPRETE ENGINEERING IS NOT A PROFESSIONAL UTILITY LOCATION COMPANY, AND IS NOT RESPONSIBLE FOR UNDERGROUND UTILITIES, DEPICTED OR NOT, EITHER IN SERVICE OR ABANDONED, ANY SIZES, LOCATIONS, EXISTENCE, OR LACK OF EXISTENCE OF UTILITIES SHOWN ON THESE PLANS SHOULD BE CONSIDERED APPROXIMATE UNTIL VERIFIED BY A PROFESSIONAL UTILITY LOCATION COMPANY. DIPRETE ENGINEERING ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED.

LEGEND

- | | | | | | |
|-------------|--------------------|---------|------------------|---|--------------------|
| --- W --- | WATER LINE | 123/234 | DEED BOOK/PAGE | ○ | BOLLARD |
| --- S --- | SEWER LINE | AP | ASSESSOR'S PLAT | ○ | SOIL EVALUATION |
| --- SFM --- | SEWER FORCE MAIN | HC | HANDICAPPED | ○ | CATCH BASIN |
| --- G --- | GAS LINE | N/F | NOW OR FORMERLY | ○ | DOUBLE CATCH BASIN |
| --- E --- | ELECTRIC LINE | LC | LANDSCAPING | ○ | WATER VALVE |
| --- OHW --- | OVERHEAD WIRES | (R) | RECORD | ○ | GAS VALVE |
| --- D --- | DRAINAGE LINE | (CA) | CHORD ANGLE | ▲ | WETLAND FLAG |
| --- | MINOR CONTOUR LINE | ○ | NAIL/SPIKE | ○ | DRAINAGE MANHOLE |
| --- | MAJOR CONTOUR LINE | ○ | DRILL HOLE | ○ | FLARED END SECTION |
| --- | PROPERTY LINE | ○ | IRON ROD/PIPE | ○ | GUY POLE |
| --- | ASSESSORS LINE | ○ | BOUND | ○ | ELECTRIC MANHOLE |
| --- | TREELINE | ○ | SIGN POST | ○ | UTILITY/POWER POLE |
| --- | GUARDRAIL | ○ | SEWER CLEANOUT | ○ | WELL |
| --- | FENCE | ○ | HYDRANT | ○ | MONITORING WELL |
| --- | RETAINING WALL | ○ | IRRIGATION VALVE | ○ | BENCH MARK |
| --- | STONE WALL | ○ | ○ | ○ | TREE |



CURVE TABLE					
CURVE	DELTA	RADIUS	LENGTH	TANGENT	CHORD BEARING
C1	18°55'12"	561.00'	181.99'	91.80'	S23°25'50"W
C2	4°01'08"	3020.03'	211.83'	105.96'	S8°20'20"W
C3	27°35'16"	29.08'	14.00'	7.14'	S39°24'52"E
C4	27°35'08"	29.08'	14.00'	7.14'	S31°03'11"W
C5	0°38'16"	8623.30'	95.99'	47.99'	N20°30'58"E
C6	0°47'05"	8619.47'	118.06'	59.03'	N12°47'20"E
C7	21°29'42"	14.00'	52.52'	26.57'	S80°44'48"W
C8	36°15'22"	75.00'	44.84'	23.11'	S52°52'17"W
C9	68°08'08"	4.00'	47.57'	27.05'	N69°48'40"E
C10	93°29'37"	5.00'	8.16'	5.31'	S57°07'55"W
C11	83°38'56"	5.00'	7.30'	4.47'	N30°52'49"W
C12	81°52'50"	4.00'	57.16'	34.70'	N31°45'52"W
C13	0°19'27"	8619.47'	48.78'	24.39'	N13°01'09"E
C14	0°27'38"	8619.47'	69.28'	34.64'	N12°37'36"E



ROBERT G. BABCOCK
No. 2504
PROFESSIONAL LAND SURVEYOR

SURVEYOR'S CERTIFICATE
THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON NOVEMBER 25, 2015, AS FOLLOWS:
• COMPREHENSIVE BOUNDARY SURVEY CLASS I
• DATA ACCUMULATION SURVEY CLASS III
• TOPOGRAPHIC SURVEY CLASS T-2
THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS: PERIMETER RETRACEMENT WITH TOPOGRAPHY FOR SITE ENGINEERING AND PERMITTING.

Robert G. Babcock
ROBERT G. BABCOCK, RIPLS #2504, COA #LS.000A160
4/19/22

Diprete Engineering
Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-464-6006 www.diprete-eng.com

Boston • Providence • Newport

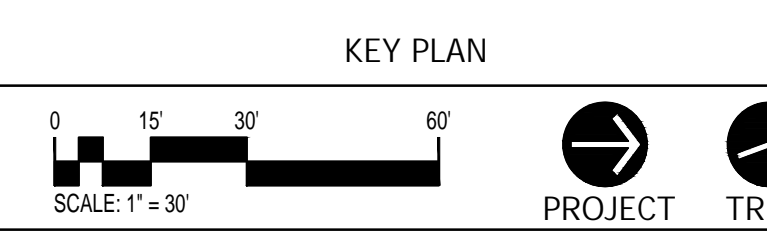
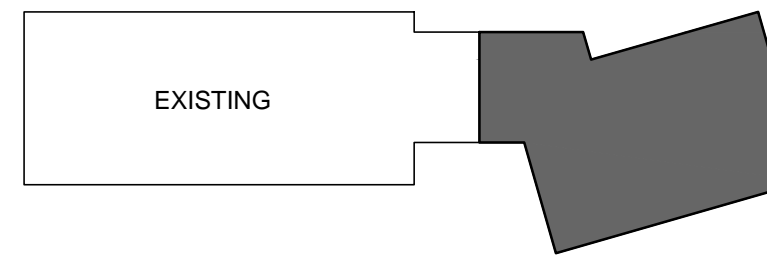
NO.	DATE	REVISION/SURVEY DESCRIPTION	R.G.	D.P.
1	02/22/22	BOUNDARY SURVEY		

BOUNDARY SURVEY
85 GARFIELD AVENUE
ASSESSOR'S PLAT 7 LOT 91,
CRANSTON, RHODE ISLAND
FOR
ACHIEVEMENT FIRST
335 ADAMS STREET, SUITE 700
BROOKLYN, NY 11201
DE JOB NO. 205-002. COPYRIGHT 2022 BY DIPRETE ENGINEERING ASSOCIATES, INC.

SHEET 1 OF 1

DATE	ISSUE DATE	DESCRIPTION
APRIL 29, 2022		ISSUED FOR RIDEM REVIEW
MAY 2, 2022		ISSUED FOR BID PRICING
AUGUST 18, 2022		24X36 LAYOUTS - RIDEM
FEBRUARY 7, 2023		DPR REVIEW

DATE	REVISIONS	DESCRIPTION



**ACHIEVEMENT
FIRST ILLUMINAR
SCHOOL ADDITION**

85 GARFIELD AVE, CRANSTON,
RI, 02920

PROJECT NO.: 21012.02 DRAWN BY: DGM

**OVERALL
SITE
PLAN**

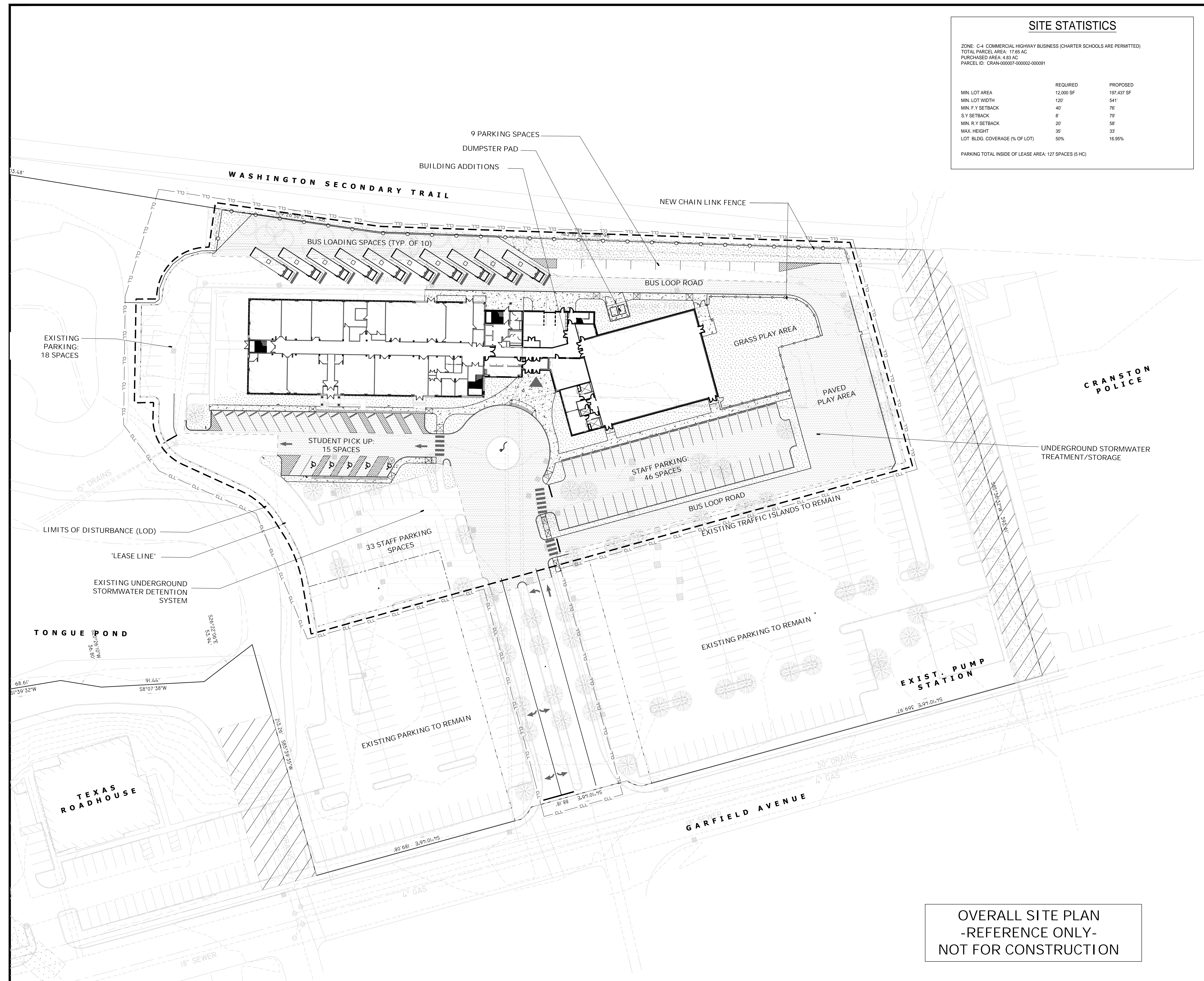
DRAWING NO.:
OSP1.00

SITE STATISTICS

ZONE: C-4 COMMERCIAL HIGHWAY BUSINESS (CHARTER SCHOOLS ARE PERMITTED)
TOTAL PARCEL AREA: 17.65 AC
PURCHASED AREA: 4.83 AC
PARCEL ID: CRAN-000007-000002-000091

	REQUIRED	PROPOSED
MIN. LOT AREA	12,000 SF	197,437 SF
MIN. LOT WIDTH	120'	541'
MIN. F.Y. SETBACK	40'	76'
S.Y. SETBACK	8'	79'
MIN. R.Y. SETBACK	20'	58'
MAX. HEIGHT	35'	33'
LOT BLDG. COVERAGE (% OF LOT)	50%	16.95%

PARKING TOTAL INSIDE OF LEASE AREA: 127 SPACES (5 HC)



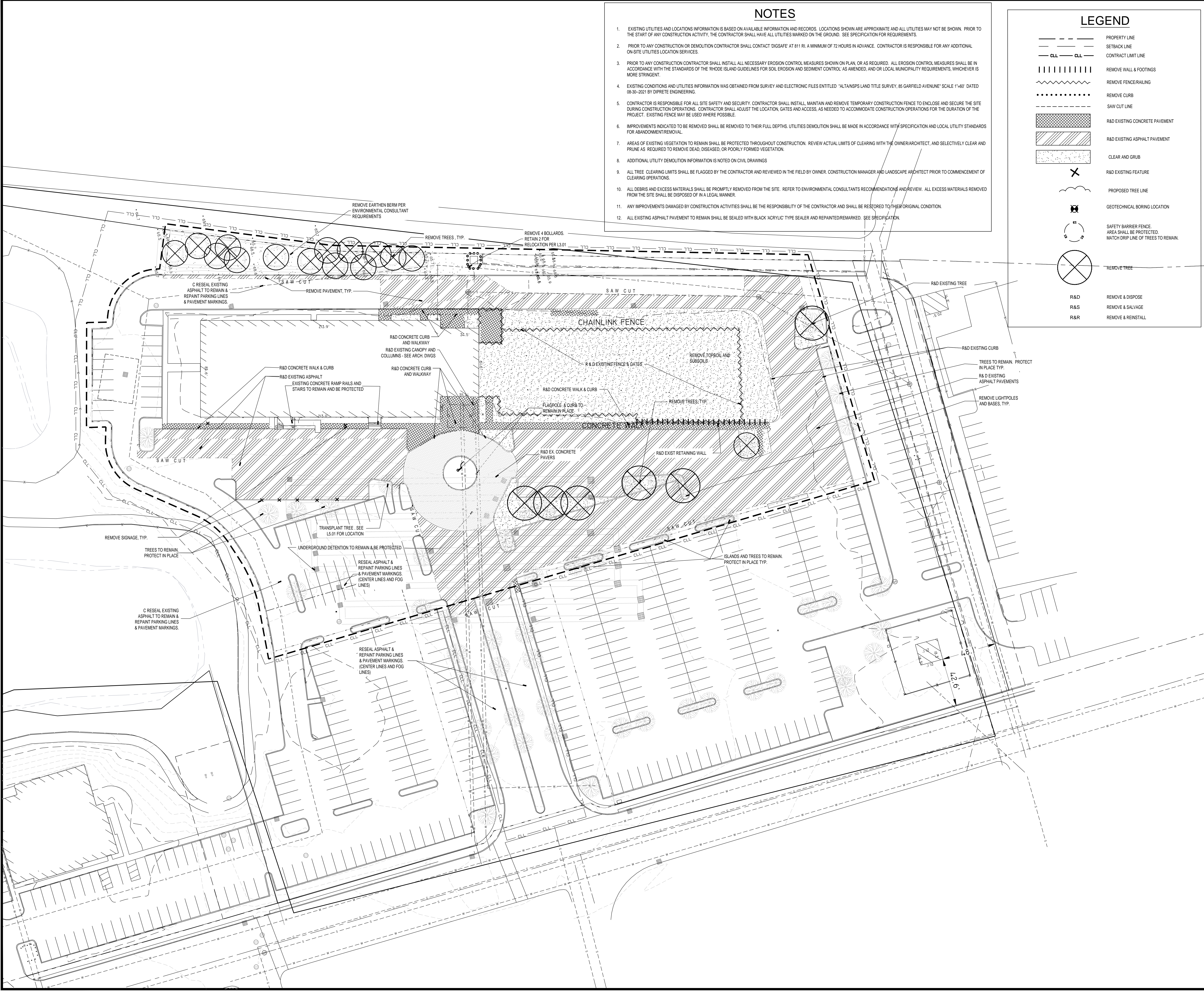
**OVERALL SITE PLAN
-REFERENCE ONLY-
NOT FOR CONSTRUCTION**

NOTES

- EXISTING UTILITIES AND LOCATIONS INFORMATION IS BASED ON AVAILABLE INFORMATION AND RECORDS. LOCATIONS SHOWN ARE APPROXIMATE AND ALL UTILITIES MAY NOT BE SHOWN. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL HAVE ALL UTILITIES MARKED ON THE GROUND. SEE SPECIFICATION FOR REQUIREMENTS.
- PRIOR TO ANY CONSTRUCTION OR DEMOLITION CONTRACTOR SHALL CONTACT 'DISSAFE' AT 811 RI A MINIMUM OF 72 HOURS IN ADVANCE. CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL ON-SITE UTILITIES LOCATION SERVICES.
- PRIOR TO ANY CONSTRUCTION CONTRACTOR SHALL INSTALL ALL NECESSARY EROSION CONTROL MEASURES SHOWN ON PLAN, OR AS REQUIRED. ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE STANDARDS OF THE RHODE ISLAND GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, AS AMENDED, AND/OR LOCAL MUNICIPALITY REQUIREMENTS, WHICHEVER IS MORE STRINGENT.
- EXISTING CONDITIONS AND UTILITIES INFORMATION WAS OBTAINED FROM SURVEY AND ELECTRONIC FILES ENTITLED 'ALTANSPTS LAND TITLE SURVEY, 85 GARFIELD AVENUE' SCALE 1"=60' DATED 08-30-2021 BY DIPRETE ENGINEERING.
- CONTRACTOR IS RESPONSIBLE FOR ALL SITE SAFETY AND SECURITY. CONTRACTOR SHALL INSTALL, MAINTAIN AND REMOVE TEMPORARY CONSTRUCTION FENCE TO ENCLOSE AND SECURE THE SITE DURING CONSTRUCTION OPERATIONS. CONTRACTOR SHALL ADJUST THE LOCATION, GATES AND ACCESS, AS NEEDED TO ACCOMMODATE CONSTRUCTION OPERATIONS FOR THE DURATION OF THE PROJECT. EXISTING FENCE MAY BE USED WHERE POSSIBLE.
- IMPROVEMENTS INDICATED TO BE REMOVED SHALL BE REMOVED TO THEIR FULL DEPTHS. UTILITIES DEMOLITION SHALL BE MADE IN ACCORDANCE WITH SPECIFICATION AND LOCAL UTILITY STANDARDS FOR ABANDONMENT/REMOVAL.
- AREAS OF EXISTING VEGETATION TO REMAIN SHALL BE PROTECTED THROUGHOUT CONSTRUCTION. REVIEW ACTUAL LIMITS OF CLEARING WITH THE OWNER/ARCHITECT, AND SELECTIVELY CLEAR AND PRUNE AS REQUIRED TO REMOVE DEAD, DISEASED, OR POORLY FORMED VEGETATION.
- ADDITIONAL UTILITY DEMOLITION INFORMATION IS NOTED ON CIVIL DRAWINGS.
- ALL TREE CLEARING LIMITS SHALL BE FLAGGED BY THE CONTRACTOR AND REVIEWED IN THE FIELD BY OWNER, CONSTRUCTION MANAGER AND LANDSCAPE ARCHITECT PRIOR TO COMMENCEMENT OF CLEARING OPERATIONS.
- ALL DEBRIS AND EXCESS MATERIALS SHALL BE PROMPTLY REMOVED FROM THE SITE. REFER TO ENVIRONMENTAL CONSULTANTS RECOMMENDATIONS AND REVIEW. ALL EXCESS MATERIALS REMOVED FROM THE SITE SHALL BE DISPOSED OF IN A LEGAL MANNER.
- ANY IMPROVEMENTS DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.
- ALL EXISTING ASPHALT PAVEMENT TO REMAIN SHALL BE SEALED WITH BLACK 'ACRYLIC' TYPE SEALER AND REPAINTED/REMARKED. SEE SPECIFICATION.

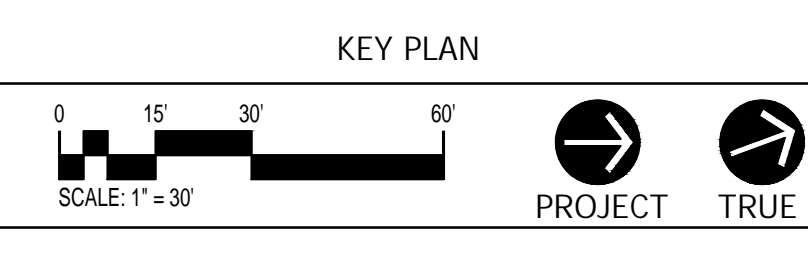
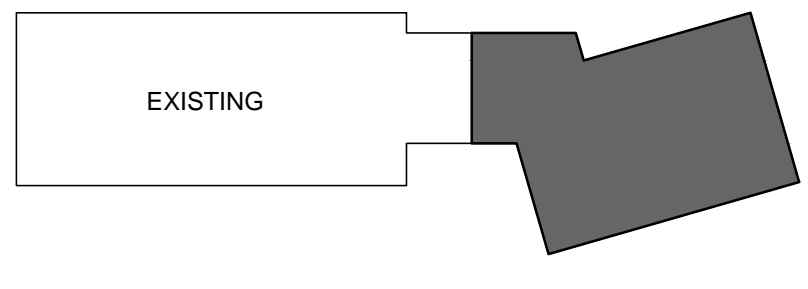
LEGEND

- PROPERTY LINE
- - - SETBACK LINE
- - - CONTRACT LIMIT LINE
- ||||| REMOVE WALL & FOOTINGS
- ~~~~~ REMOVE FENCE/RAILING
- REMOVE CURB
- - - SAW CUT LINE
- [Hatched Box] R&D EXISTING CONCRETE PAVEMENT
- [Diagonal Hatched Box] R&D EXISTING ASPHALT PAVEMENT
- [Dotted Box] CLEAR AND GRUB
- [Crossed Circle] R&D EXISTING FEATURE
- [Wavy Line] PROPOSED TREE LINE
- [Square with X] GEOTECHNICAL BORING LOCATION
- [Circle with X] SAFETY BARRIER FENCE. AREA SHALL BE PROTECTED MATCH DRIP LINE OF TREES TO REMAIN.
- [Circle with X] REMOVE TREE
- R&D REMOVE & DISPOSE
- R&S REMOVE & SALVAGE
- R&R REMOVE & REINSTALL



DATE	DESCRIPTION
APRIL 29, 2022	ISSUED FOR RIDEEM REVIEW
MAY 2, 2022	ISSUED FOR BID PRICING
AUGUST 18, 2022	24/36 LAYOUTS - RIDEEM
FEBRUARY 7, 2023	DPR REVIEW

DATE	REVISIONS	DESCRIPTION



**ACHIEVEMENT
FIRST ILLUMINAR
SCHOOL ADDITION**

85 GARFIELD AVE, CRANSTON,
RI, 02920

PROJECT NO.: 21012.02 DRAWN BY: DGM

**SITE
DEMOLITION
PLAN**

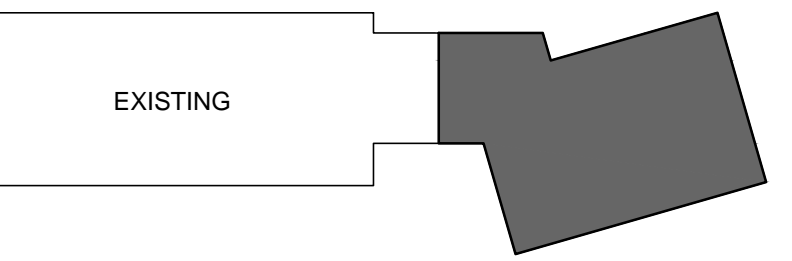
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ISSUE DATE

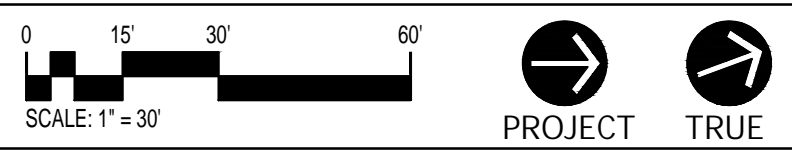
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APRIL 29, 2022	ISSUED FOR RIDEM REVIEW
MAY 2, 2022	ISSUED FOR BID PRICING
AUGUST 18, 2022	24/30 LAYOUTS - RIDEM
FEBRUARY 7, 2023	DPR REVIEW

REVISIONS

DATE	DESCRIPTION
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KEY PLAN



**ACHIEVEMENT
FIRST ILLUMINAR
SCHOOL ADDITION**

85 GARFIELD AVE, CRANSTON,
RI, 02920

PROJECT NO.: 21012.02 DRAWN BY: DGM

**SITE
LAYOUT
PLAN**

DRAWING NO.:

L2.01

NOTES

1. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL EXISTING CONDITIONS LAYOUT INFORMATION. BRING ANY DISCREPANCIES TO THE ARCHITECT'S ATTENTION FOR REVIEW AND CLARIFICATION.
2. DO NOT SCALE DRAWINGS. USE DIMENSIONS GIVEN. ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD PRIOR TO THE START OF WORK AND THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE SAME.
3. ALL DIMENSIONS ARE 90° AND TO THE NEAREST FOOT UNLESS OTHERWISE NOTED. ALL RADII ARE 5 FEET UNLESS OTHERWISE NOTED. ALL DIMENSIONS ARE TO THE FACE OF CURB, FACE OF BUILDING, EDGE OF PAVEMENT, CENTERLINE OF FENCE OR THE BOTTOM FACE OF WALL UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL ENGAGE A SURVEYOR LICENSED IN THE STATE OF PROJECT TO PERFORM LAYOUT AND SURVEYING SERVICES INCLUDING, BUT NOT LIMITED TO VERIFICATION AND LAYOUT OF BASELINES, PROPOSED IMPROVEMENTS, DIMENSIONS AND ELEVATIONS. REPORT ALL DISCREPANCIES TO THE ARCHITECT.
5. REFER TO CIVIL DRAWINGS FOR ADDITIONAL LAYOUT INFORMATION.
6. CONTRACTOR SHALL COORDINATE LAYOUT OF ALL SITE IMPROVEMENTS WITH THEIR UTILITY LOCATING CO. & SURVEYOR TO AVOID CONFLICT WITH EXISTING UTILITIES. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES & FIELD ADJUST LAYOUT AS NECESSARY AT NO ADDITIONAL EXPENSE TO THE CONTRACT.

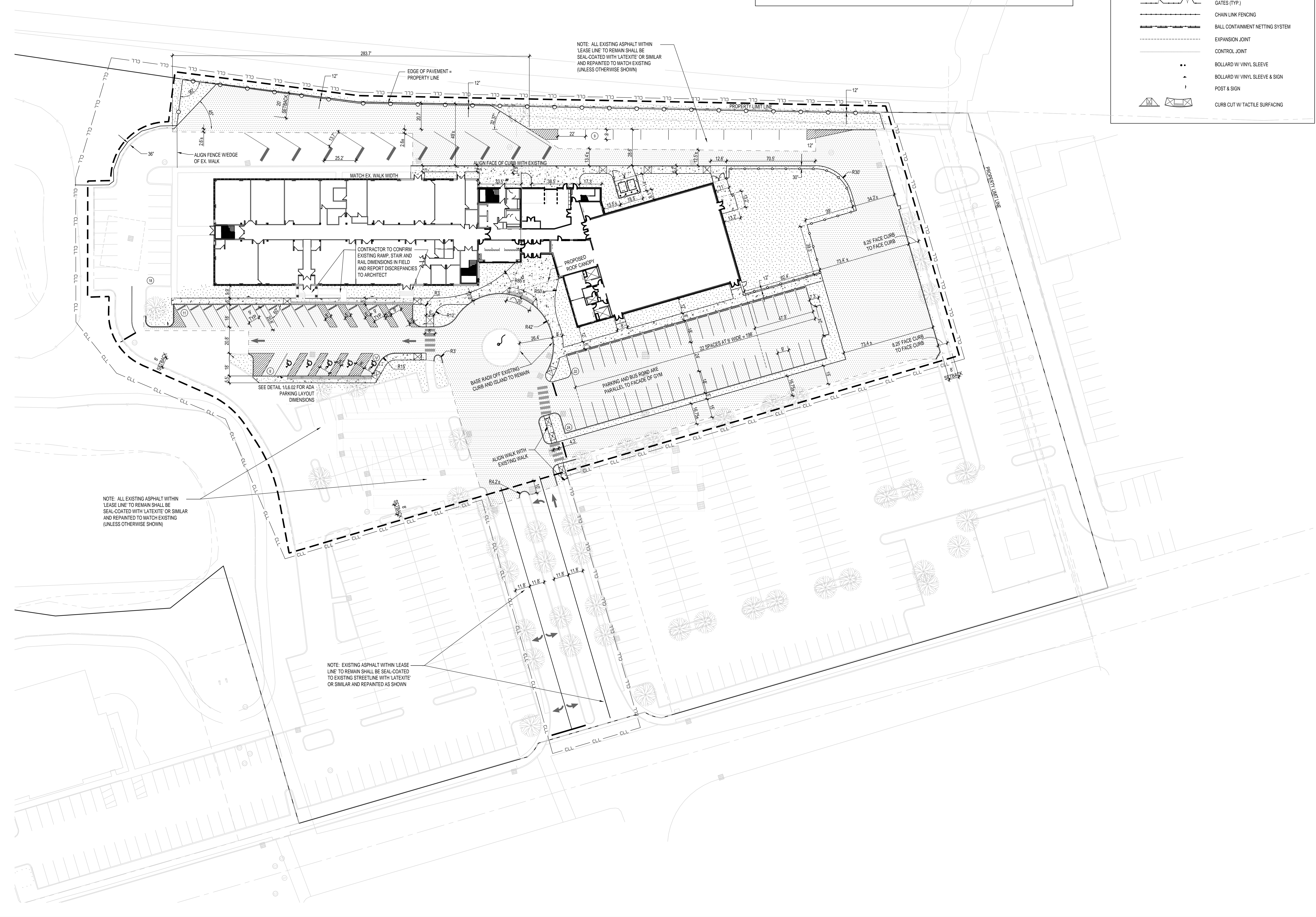
LEGEND

- PROPERTY LINE
- - - SETBACK LINE
- CLL --- CONTRACT LIMIT LINE
- LAYOUT BASE LINE
- RADIAL DIMENSION
- LINEAR DIMENSION
- ANGULAR DIMENSION
- CURB (CONCRETE)
- FLUSH CONCRETE CURB
- CHAIN LINK FENCING (VINYL COATED)
- GATES (TYP.)
- CHAIN LINK FENCING
- BALL CONTAINMENT NETTING SYSTEM
- EXPANSION JOINT
- CONTROL JOINT
- BOLLARD W/ VINYL SLEEVE
- ▲ BOLLARD W/ VINYL SLEEVE & SIGN
- POST & SIGN
- CURB CUT W/ TACTILE SURFACING

NOTE: ALL EXISTING ASPHALT WITHIN LEASE LINE TO REMAIN SHALL BE SEAL-COATED WITH LATEXITE OR SIMILAR AND REPAINTED TO MATCH EXISTING (UNLESS OTHERWISE SHOWN)

NOTE: ALL EXISTING ASPHALT WITHIN LEASE LINE TO REMAIN SHALL BE SEAL-COATED WITH LATEXITE OR SIMILAR AND REPAINTED TO MATCH EXISTING (UNLESS OTHERWISE SHOWN)

NOTE: EXISTING ASPHALT WITHIN LEASE LINE TO REMAIN SHALL BE SEAL-COATED TO EXISTING STREETLINE WITH LATEXITE OR SIMILAR AND REPAINTED AS SHOWN

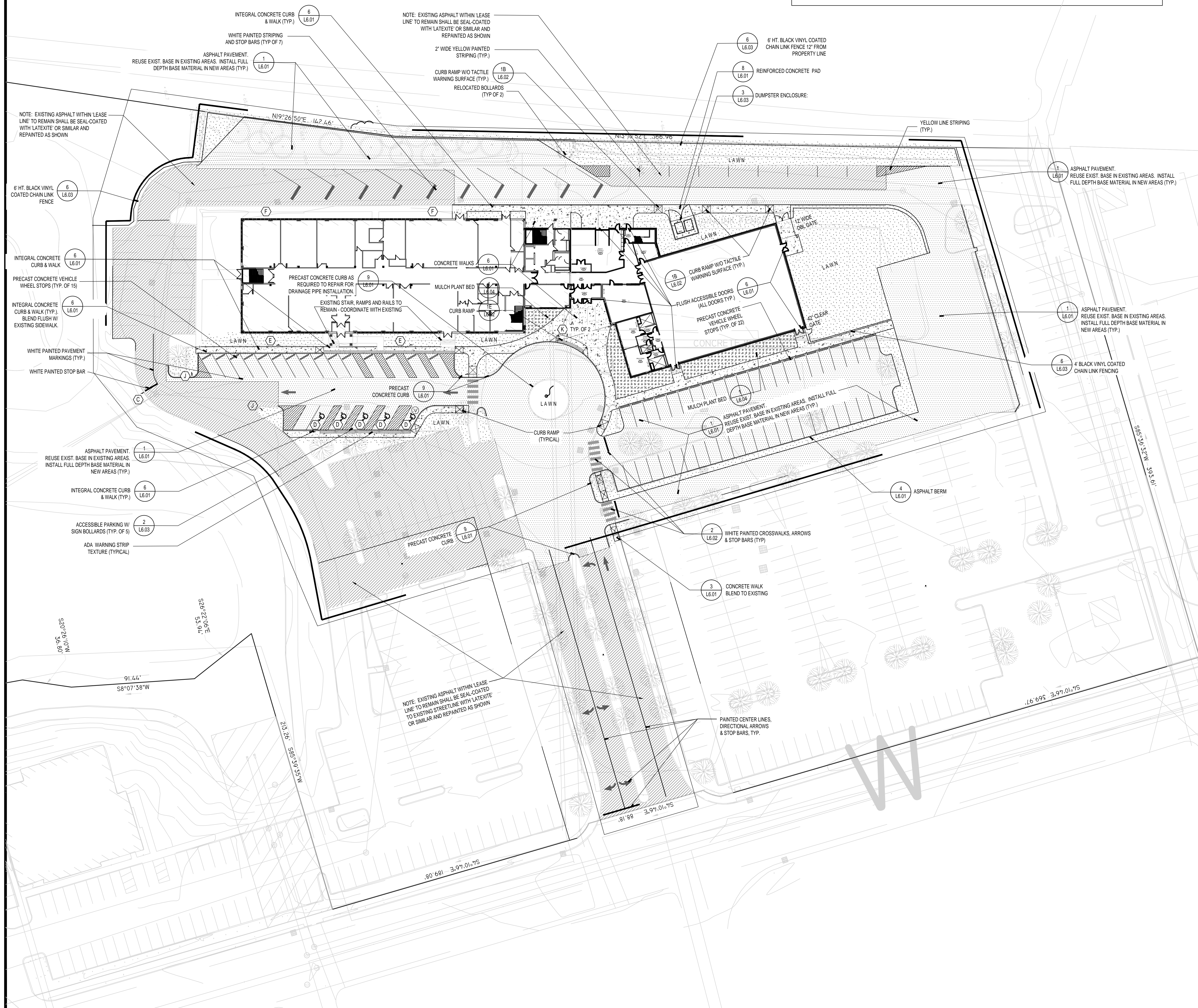


NOTES

1. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL MATERIALS INFORMATION.
2. REFER TO CIVIL DRAWINGS FOR ADDITIONAL MATERIALS AND LAYOUT INFORMATION REGARDING PAVEMENTS, CURBS & CONCRETE PADS.
3. REFER TO DETAILS FOR ADDITIONAL MATERIALS & LAYOUT INFORMATION.
4. INSTALL PRIVACY SLATS & BOTTOM RAIL ON CHAIN LINK FENCING AT DUMPSTER PAD (TYP.).
5. ALL PLANT BEDS NOT BOUND BY WALKS, BUILDING OR CURBING SHALL BE SURROUNDED BY METAL EDGING (REFER TO SPECS.). EDGING NOT REQUIRED AT INDIVIDUAL TREE PLANTINGS IN LAWN AREAS UNLESS OTHERWISE NOTED.
6. SEAL ALL CONCRETE JOINTS IN CONCRETE PAVEMENT & CURBING. INSTALL EXPANSION MATERIAL BETWEEN BUILDING & ABUTTING CONCRETE WALKS SEAL JOINT. PROVIDE COLOR MATCH SEALANT FOR ALL PAVEMENTS TO BE SELECTED BY LANDSCAPE ARCHITECT.
7. NOTE THAT TEXT ON MATERIALS PLAN IS MASKED FOR CLARITY. DESIGNATED MATERIALS WITHIN AREAS CONTINUE UNDER MASKED TEXT.

LEGEND

	PROPERTY LINE
	SETBACK LINE
	CONTRACT LIMIT LINE
	DETAIL REFERENCE TAG
	INDICATES MATERIAL CHANGE
	CONCRETE PAVEMENT
	LAWN
	ASPHALT PAVEMENT (DRIVE/PARKING)
	STONE MULCH PLANT BED
	RESEAL & REPAINT EXISTING ASPHALT PAVEMENT
	CURB
	FLUSH CURB
	CHAIN LINK FENCING
	GATES (TYP.)
	BOLLARDS
	BOLLARD W/ SIGN
	POST & SIGN
	SIDEWALK CURB RAMP W/ DETECTABLE WARNING SURFACE SET IN CONTINUOUS CONC. WALK

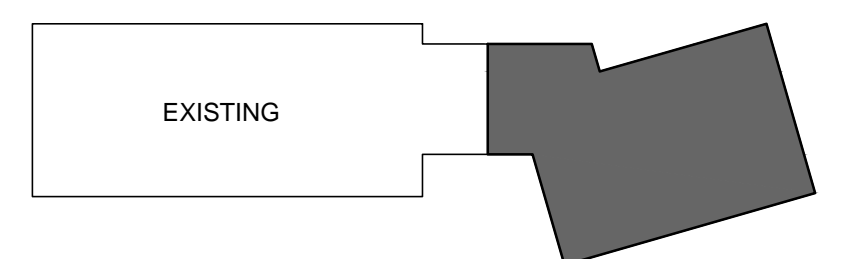


ISSUE DATE

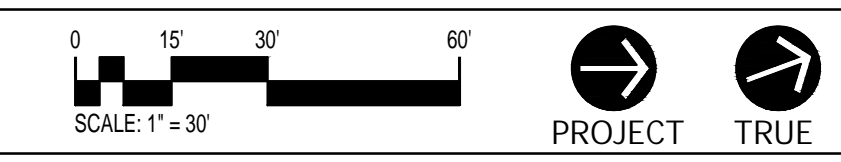
DATE	DESCRIPTION
APRIL 29, 2022	ISSUED FOR RIDEM REVIEW
MAY 2, 2022	ISSUED FOR BID PRICING
AUGUST 18, 2022	24/30 LAYOUTS - RIDEM
FEBRUARY 7, 2023	DPR REVIEW

REVISIONS

DATE	DESCRIPTION
JULY 29, 2022	FENCE @ PROPERTY LINE



KEY PLAN



**ACHIEVEMENT
FIRST ILLUMINAR
SCHOOL ADDITION**

85 GARFIELD AVE, CRANSTON,
RI, 02920

PROJECT NO.: 21012.02 DRAWN BY: DGM

**SITE
MATERIALS
PLAN**

DRAWING NO.:

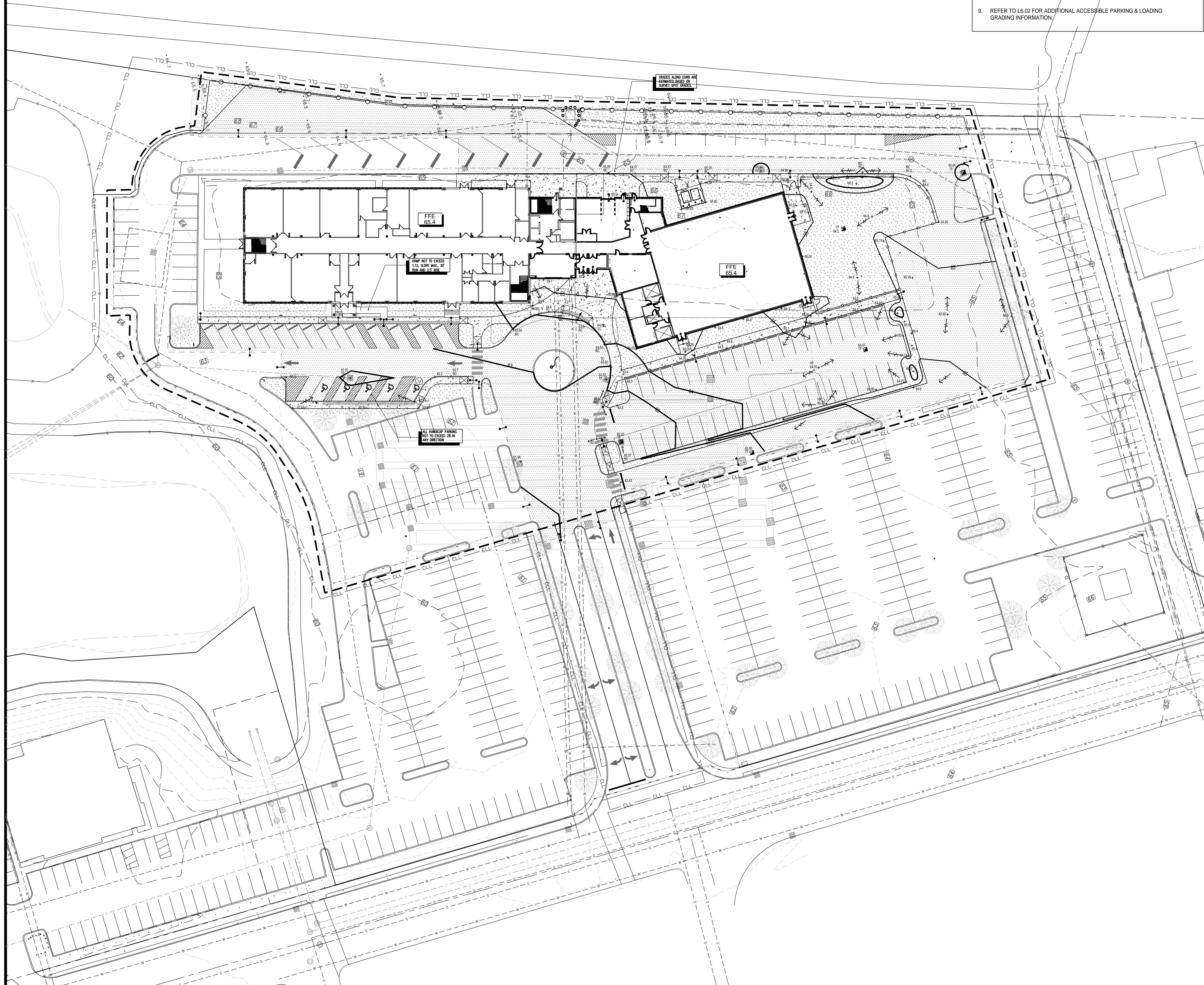
L3.01

GRADING NOTES

- CONTRACTOR IS RESPONSIBLE TO VERIFY ALL EXISTING CONDITIONS LAYOUT INFORMATION. BRING ANY DISCREPANCIES TO THE ARCHITECT'S ATTENTION FOR REVIEW AND CLARIFICATION.
- SMOOTHLY BLEND ALL PROPOSED GRADES TO EXISTING CONDITIONS. ROUND OFF TOP AND TOE OF ALL SLOPES.
- SEE CIVIL DRAWINGS FOR ALL SITE DRAINAGE INFORMATION. 'L' SERIES GRADING PLANS ARE FOR SITE GRADING ONLY. REFER TO CIVIL DRAWINGS FOR CB, YD & MH ELEVATIONS.
- PAVED WALKS NOT TO EXCEED 5% (1:20) MAXIMUM SLOPE OR 2% (1:50) CROSS PITCH UNLESS SPECIFICALLY NOTED OTHERWISE.
- ALL HANDICAP PARKING SPACES, SEATING AREAS AND PASSENGER LOADING ZONES SHALL NOT EXCEED 2.0% (1:50) IN ANY DIRECTION.
- ALL BUILDING DOORS/EGRESSES SHALL BE FLUSH WITH ADJOINING MATERIAL UNLESS NOTED OTHERWISE.
- ALL EXPANSION JOINTS AND SCORE JOINTS SHALL BE FLUSH UNLESS NOTED OTHERWISE.
- CURB RAMPS SHALL NOT EXCEED 1:12 OR 2% CROSS PITCH.
- REFER TO L6.02 FOR ADDITIONAL ACCESSIBLE PARKING & LOADING GRADING INFORMATION.

GRADING LEGEND

- PROPERTY LINE
- SETBACK LINE
- BASE BID CONSTRUCTION LIMIT LINE
- AREA ENLARGEMENT
- HANDICAP ACCESSIBLE ROUTE (SLOPE NOT TO EXCEED 5% IN DIRECTION OF TRAVEL & SHALL BE MAX. 2% CROSS SLOPE. TYP.)
- EXISTING CONTOUR
- PROP. INTERMEDIATE CONTOUR
- PROP. INTERVAL CONTOUR
- SPOT ELEVATION
- FLUSH CONDITION
- CATCH BASIN
- AREA YARD DRAIN
- DRAINAGE ARROW
- F.F.E. FINISH FLOOR ELEVATION
- B.W. BOTTOM OF WALL
- T.W. TOP OF WALL
- B.S. BOTTOM OF STAIRS
- T.S. TOP OF STAIRS
- B.C. BOTTOM OF CURB
- T.C. TOP OF CURB
- T.F. TOP OF FRAME
- H.P. HIGH POINT
- L.P. LOW POINT
- CST CONSISTENT
- EXIST. EXISTING
- ACCESSIBLE ENTRANCE

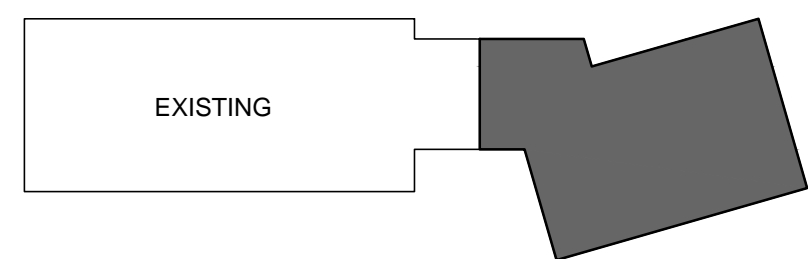


ISSUE DATE

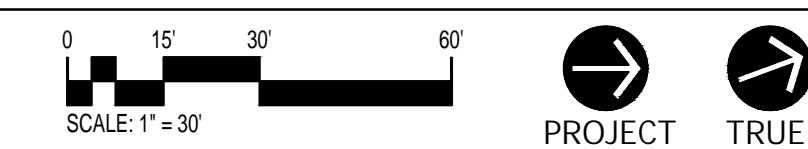
DATE	DESCRIPTION
APRIL 29, 2022	ISSUED FOR RIDEW REVIEW
MAY 2, 2022	ISSUED FOR BID PRICING
AUGUST 18, 2022	24/36 LAYOUTS - RIDEW
FEBRUARY 7, 2023	DPR REVIEW

REVISIONS

DATE	DESCRIPTION
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KEY PLAN



ACHIEVEMENT FIRST ILLUMINAR SCHOOL ADDITION

85 GARFIELD AVE, CRANSTON,
RI, 02920

PROJECT NO.: 21012.02 DRAWN BY: DGM

SITE GRADING PLAN

DRAWING NO.:

L4.01

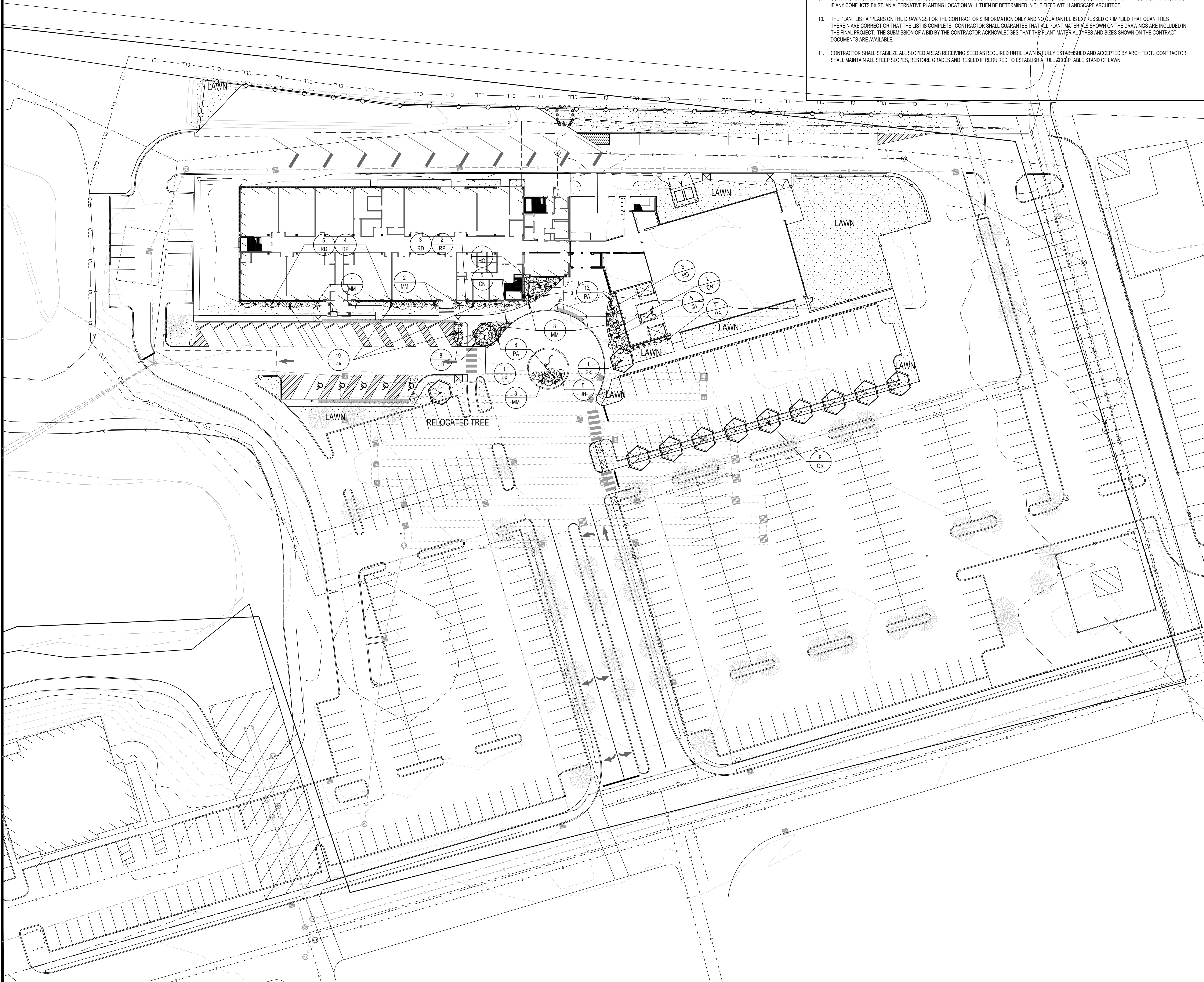
CODE	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
TREES				
PK	PRUNUS KANZAN	KWANZAN FLOWERING CHERRY	2 1/2' - 3' CAL	B+B
QR	QUERCUS RUBRA	RED OAK	2 1/2' - 3' CAL	B+B
SHRUBS				
CN	CHAMAECYPARIS OBTUSA 'NANA'	HINOKI CYPRESS	3 GAL	CONT.
JH	JUNIPERUS HORIZONTALIS 'BLUE RUG'	BLUE RUG JUNIPER	3 GAL	CONT.
RD	ROSA DOUBLE PINK KNOCK OUT	DOUBLE PINK KNOCK OUT ROSE	3 GAL	CONT.
RP	ROSA KNOCK OUT PEACHY	KNOCKOUT PEACHY LANDSCAPE ROSE	3 GAL	CONT.
PERENNIALS, & ORNAMENTAL GRASSES				
MM	MISCANTHUS SINENSIS MORNING LIGHT	MORNING LIGHT MAIDEN GRASS	3 GAL	CONT.
PA	PENNISETUM ALOPECUROIDES 'HALEM'	DWARF FOUNTAIN GRASS	3 GAL	CONT.
HO	HOSTA 'FIRST FROST'	FIRST FROST HOSTA	2 GAL	CONT.

NOTES

- ALL EXTERIOR GROUND AREAS DISTURBED BY CONSTRUCTION AND NOT COVERED BY BUILDINGS, STRUCTURES, PAVING, CONTINUOUS PLANTING BEDS OR OTHER SITE IMPROVEMENTS SHALL HAVE TOPSOIL APPLIED TO A MINIMUM OF 6" GRADED AND SEEDED WITH SPECIFIED GENERAL LAWN MIXTURE.
- ALL MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN HORTICULTURAL STANDARDS FOR NURSERY STOCK.
- ALL TREE STAKING OR GUYING SHALL BE DONE IMMEDIATELY AFTER PLANTING, BUT IN NO INSTANCE MORE THAN 24 HOURS AFTER PLANTING. SEE STAKING/GUYING DETAIL. AT COMPLETION OF MAINTENANCE PERIOD REMOVE ALL STAKES, FLAGS, GUYS, TREE WRAP, AND ANCHORS.
- MULCH ALL NEW SHRUB BEDS AND PLANT PITS TO ACHIEVE A 3" DEPTH (AFTER SETTLEMENT). MULCH ALL GROUND COVER BEDS TO ACHIEVE A 2" DEPTH (AFTER SETTLEMENT). MULCH FOR SAUCERS AND PLANTING AREAS TO BE A DOUBLE SHREDDED BARK MULCH.
- ALL LAWN AND PLANTING AREA SOIL PREPARATION SHALL BE FERTILIZED AND AMENDED ACCORDING TO RECOMMENDATIONS OF A SOIL ANALYSIS PROVIDED BY AN APPROVED SOIL TESTING LABORATORY.
- SEE SPECIFICATIONS FOR GENERAL LAWN AREA SEED MIXTURES
- INSTALL METAL EDGING AROUND ALL MULCHED PLANT BEDS NOT BOUND BY WALKS, WALLS OR OTHER FEATURES. REFER TO MATERIALS PLAN & SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- FINAL LOCATION OF PLANT MATERIAL TO BE APPROVED BY LANDSCAPE ARCHITECT IN THE FIELD. CONTRACTOR SHALL NOTE AND INDICATE UNDERGROUND UTILITIES AS-BUILT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING PLANT LOCATION WITH UNDERGROUND UTILITIES PRIOR TO COMMENCING PLANTINGS. NOTIFY ARCHITECT IF ANY CONFLICTS EXIST. AN ALTERNATIVE PLANTING LOCATION WILL THEN BE DETERMINED IN THE FIELD WITH LANDSCAPE ARCHITECT.
- THE PLANT LIST APPEARS ON THE DRAWINGS FOR THE CONTRACTOR'S INFORMATION ONLY AND NO GUARANTEE IS EXPRESSED OR IMPLIED THAT QUANTITIES THEREIN ARE CORRECT OR THAT THE LIST IS COMPLETE. CONTRACTOR SHALL GUARANTEE THAT ALL PLANT MATERIALS SHOWN ON THE DRAWINGS ARE INCLUDED IN THE FINAL PROJECT. THE SUBMISSION OF A BID BY THE CONTRACTOR ACKNOWLEDGES THAT THE PLANT MATERIAL TYPES AND SIZES SHOWN ON THE CONTRACT DOCUMENTS ARE AVAILABLE.
- CONTRACTOR SHALL STABILIZE ALL SLOPED AREAS RECEIVING SEED AS REQUIRED UNTIL LAWN IS FULLY ESTABLISHED AND ACCEPTED BY ARCHITECT. CONTRACTOR SHALL MAINTAIN ALL STEEP SLOPES, RESTORE GRADES AND RESEED IF REQUIRED TO ESTABLISH A FULL ACCEPTABLE STAND OF LAWN.

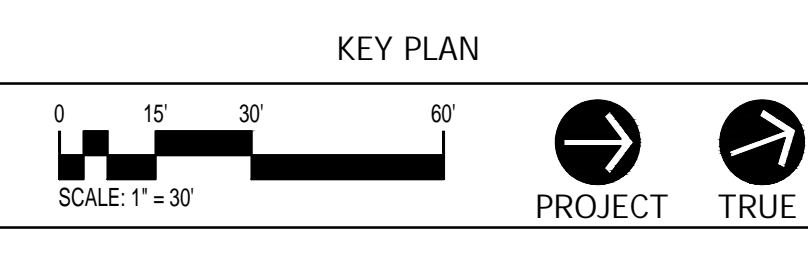
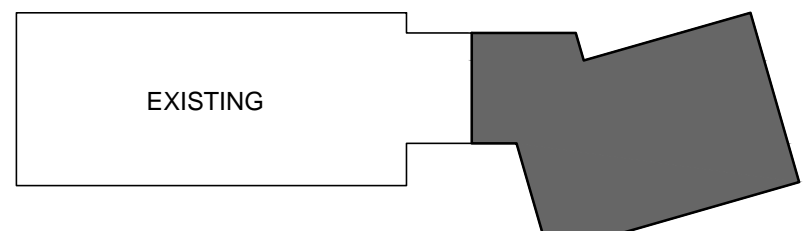
LEGEND

--- PROPERTY LINE
 --- CLL --- CONSTRUCTION LIMIT LINE
 QTY. PLANT TAG
 SYMB. PROPOSED GENERAL LAWN MIX (MIN. 6" TOPSOIL)
 --- SEED LIMIT LINE
 ○ ○ PROPOSED SHRUB
 * * PROPOSED ORNAMENTAL GRASS
 ○ ○ PROPOSED PERENNIAL
 ○ ○ PROPOSED FLOWERING TREE
 ○ ○ PROPOSED EVERGREEN TREE
 ○ ○ PROPOSED DECIDUOUS TREE



DATE	DESCRIPTION
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MAY 2, 2022	ISSUED FOR BID PRICING
AUGUST 18, 2022	24/36 LAYOUTS - RIDEEM
FEBRUARY 7, 2023	DPR REVIEW

DATE	REVISIONS	DESCRIPTION



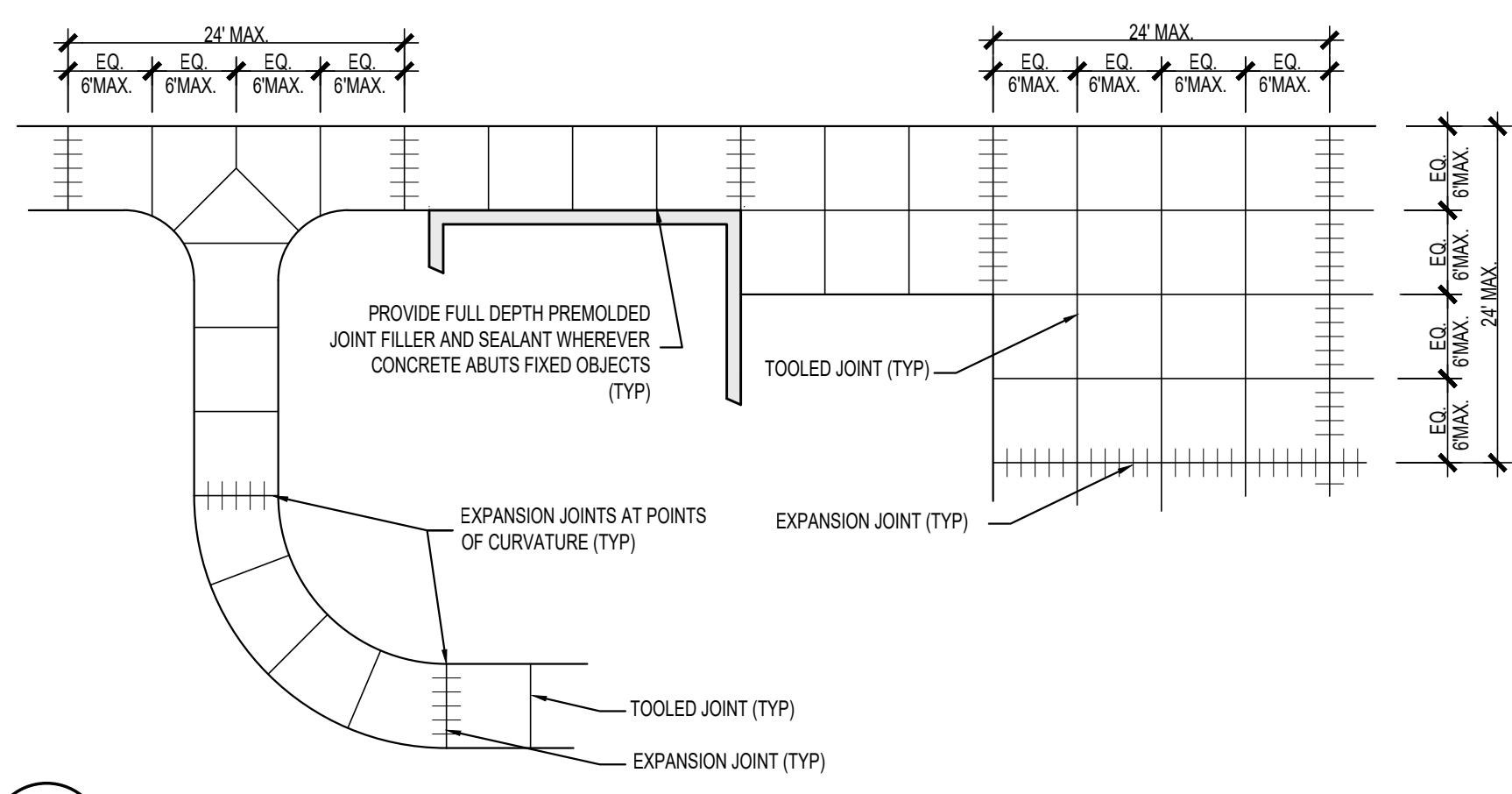
**ACHIEVEMENT
 FIRST ILLUMINAR
 SCHOOL ADDITION**

85 GARFIELD AVE, CRANSTON,
 RI, 02920

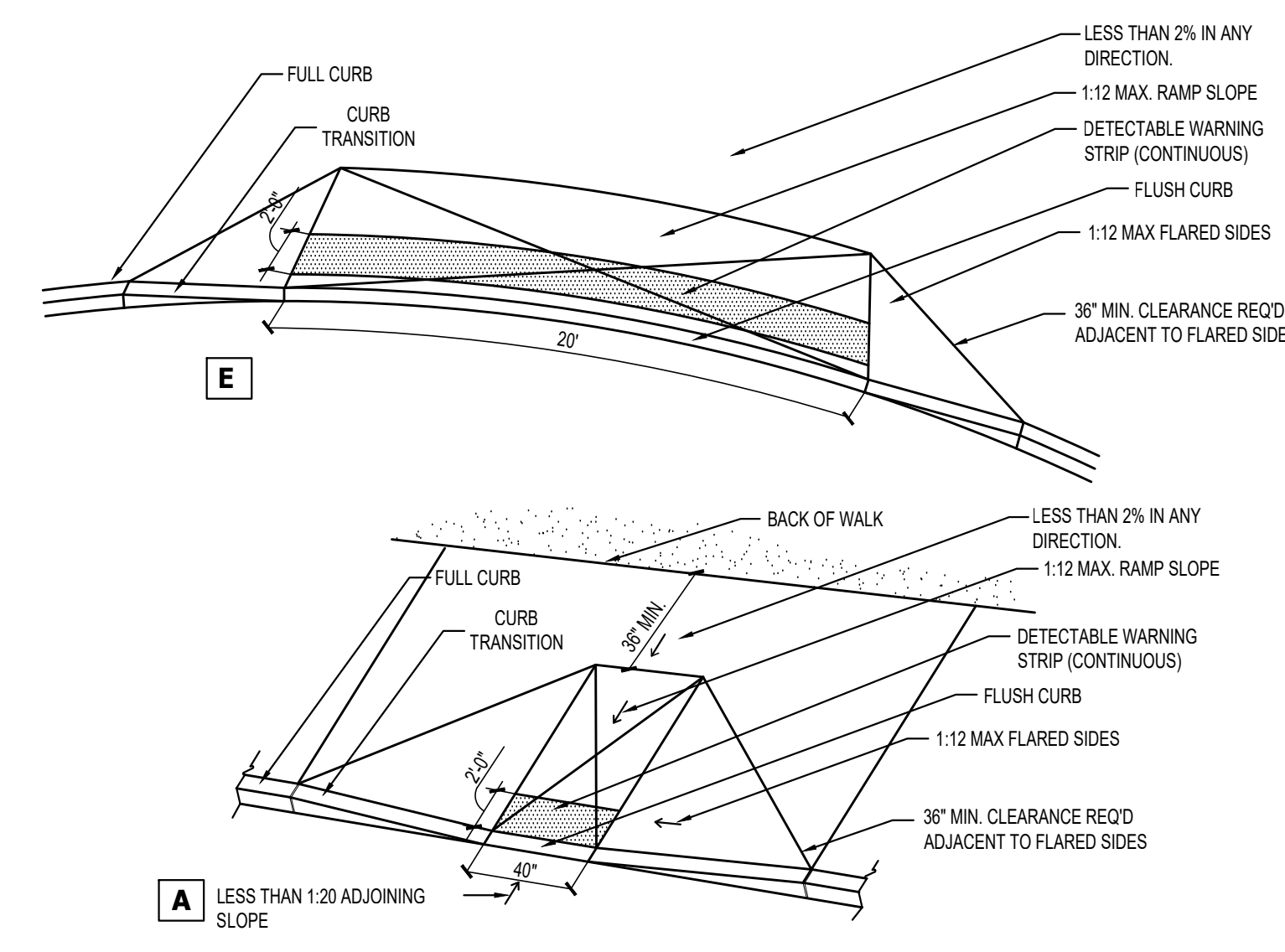
PROJECT NO.: 21012.02 DRAWN BY: DGM

**SITE
 PLANTING
 PLAN**

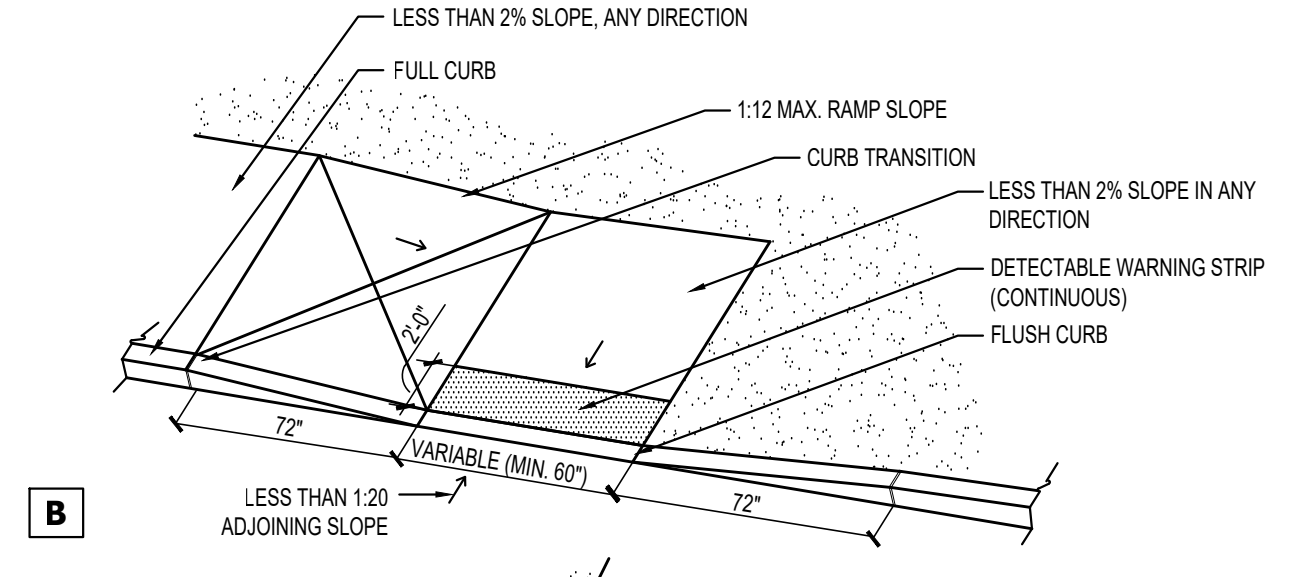
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L5.01



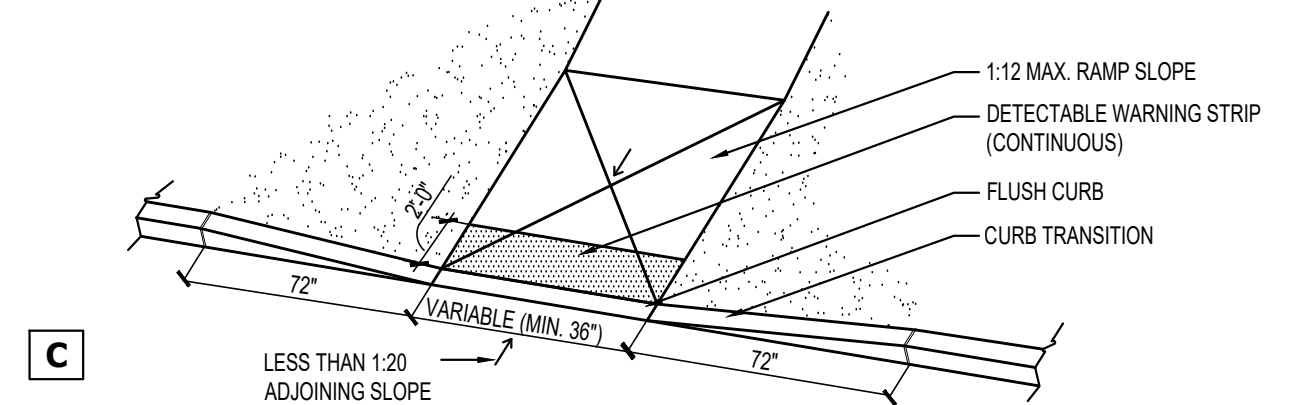
14 TYPICAL JOINT PLACEMENT IN CONCRETE
SCALE: N.T.S.



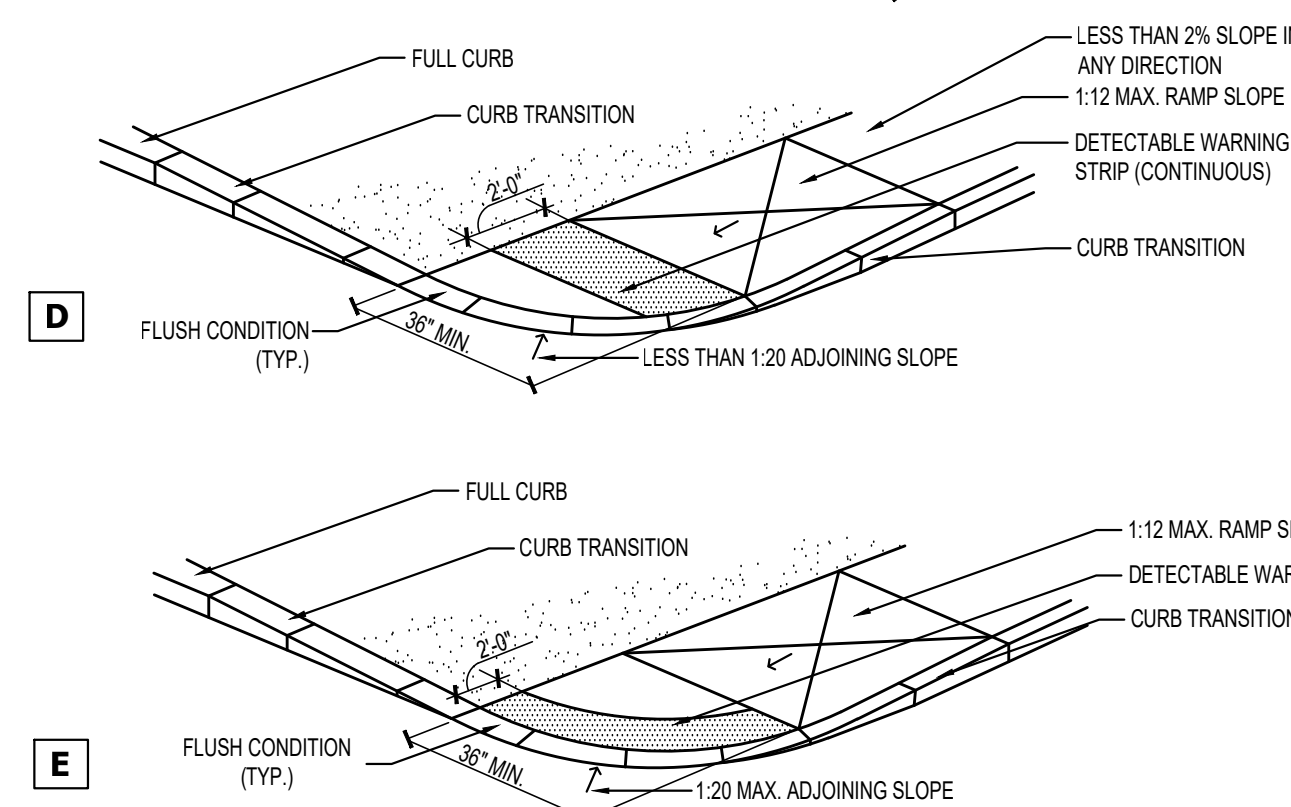
7 INTEGRAL CONCRETE WALK/CURB
SCALE: N.T.S.



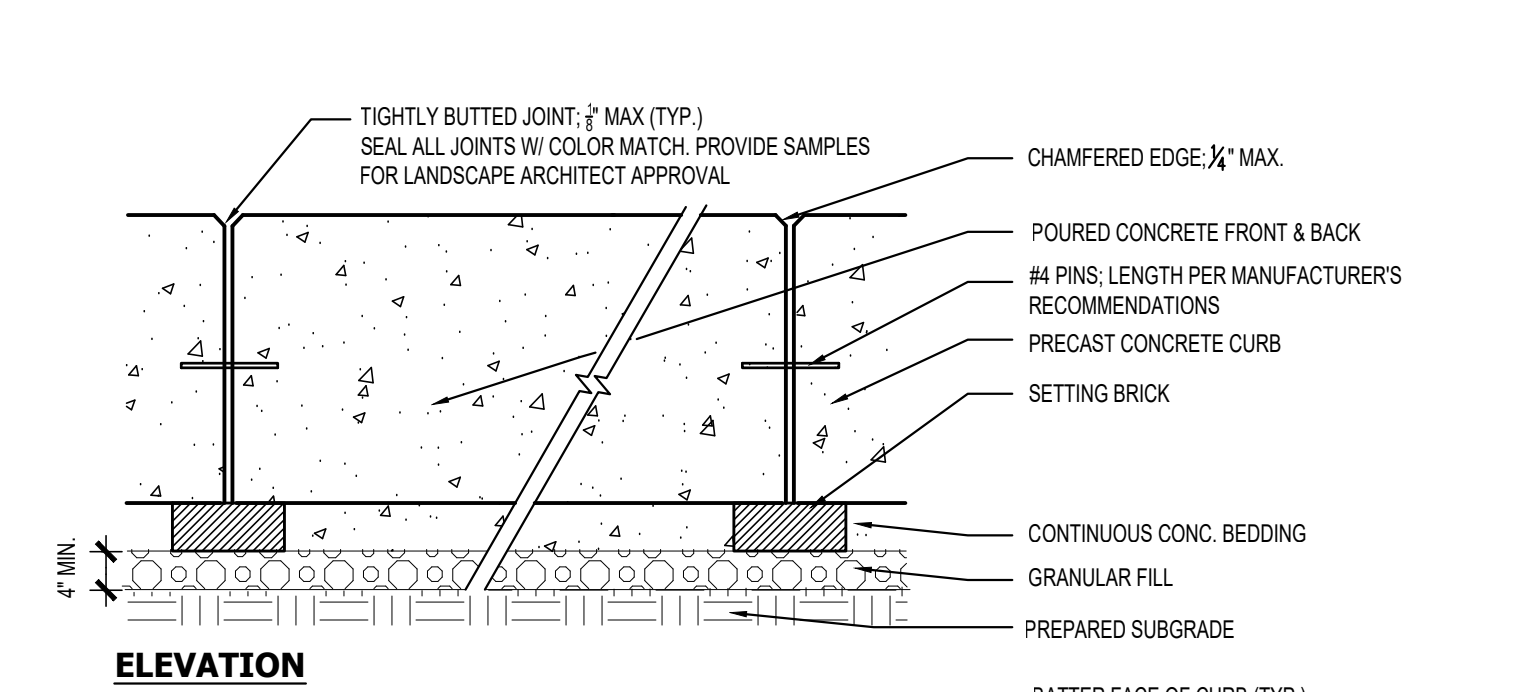
8 EXPANSION JOINT
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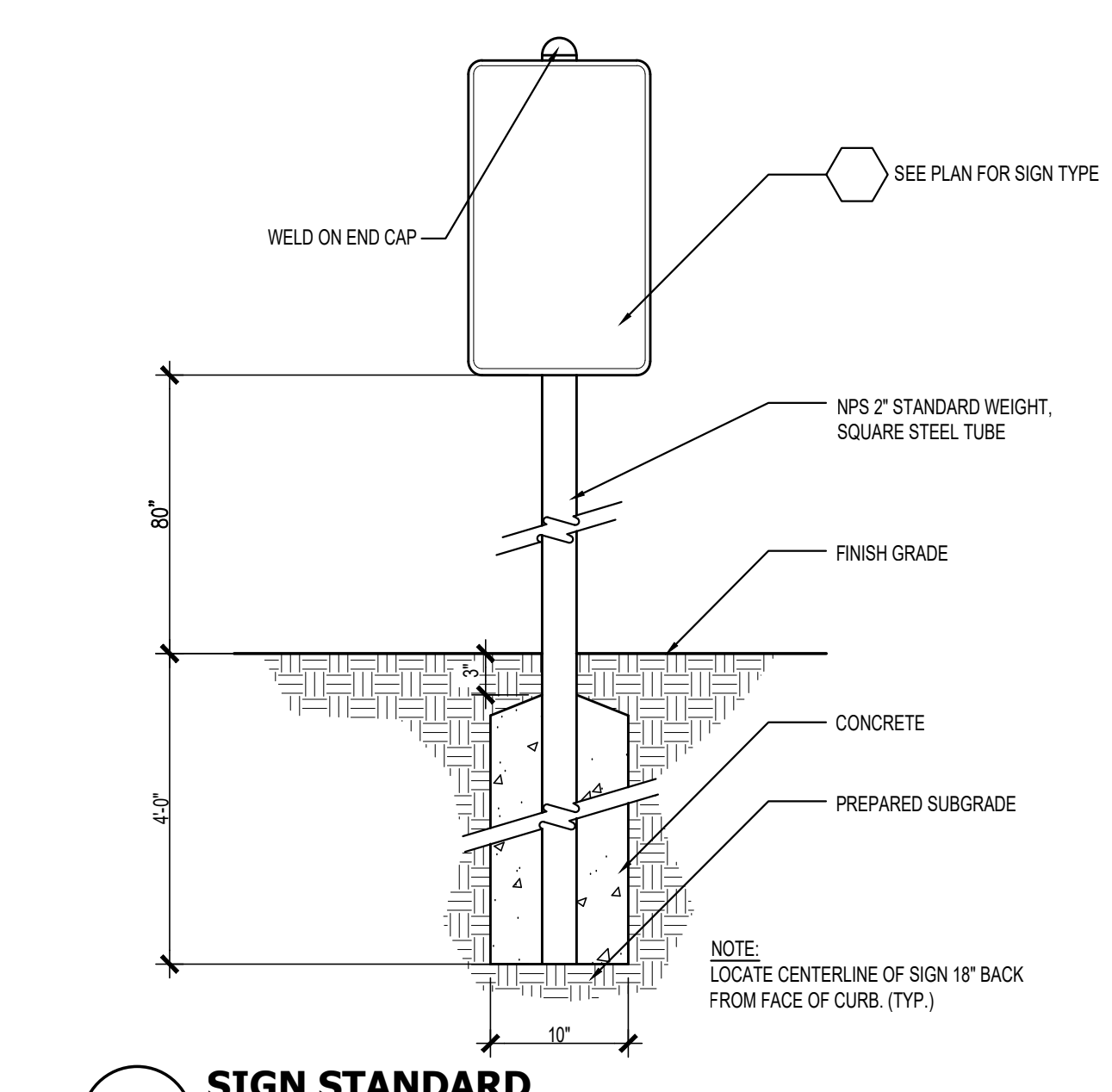
9 REINFORCED CONCRETE PAD W/ HAUNCH
SCALE: N.T.S.



11 CURB RAMP (TYP.)
SCALE: N.T.S.



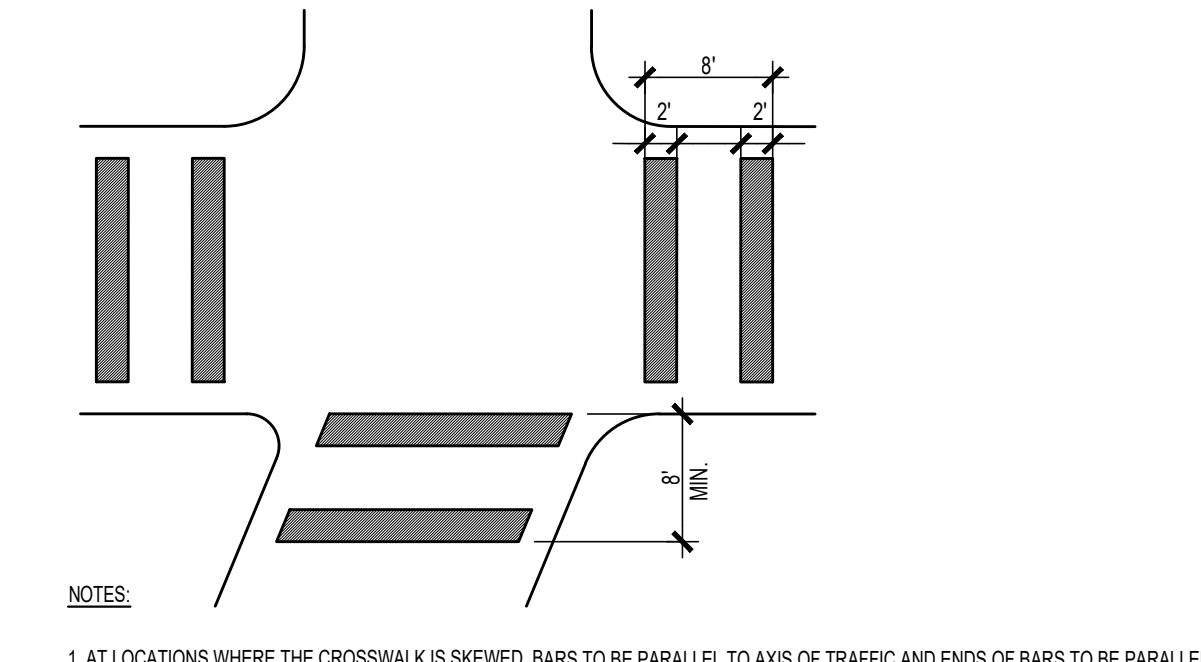
10 PRECAST CONCRETE CURB
SCALE: N.T.S.



13 SIGN STANDARD
SCALE: N.T.S.

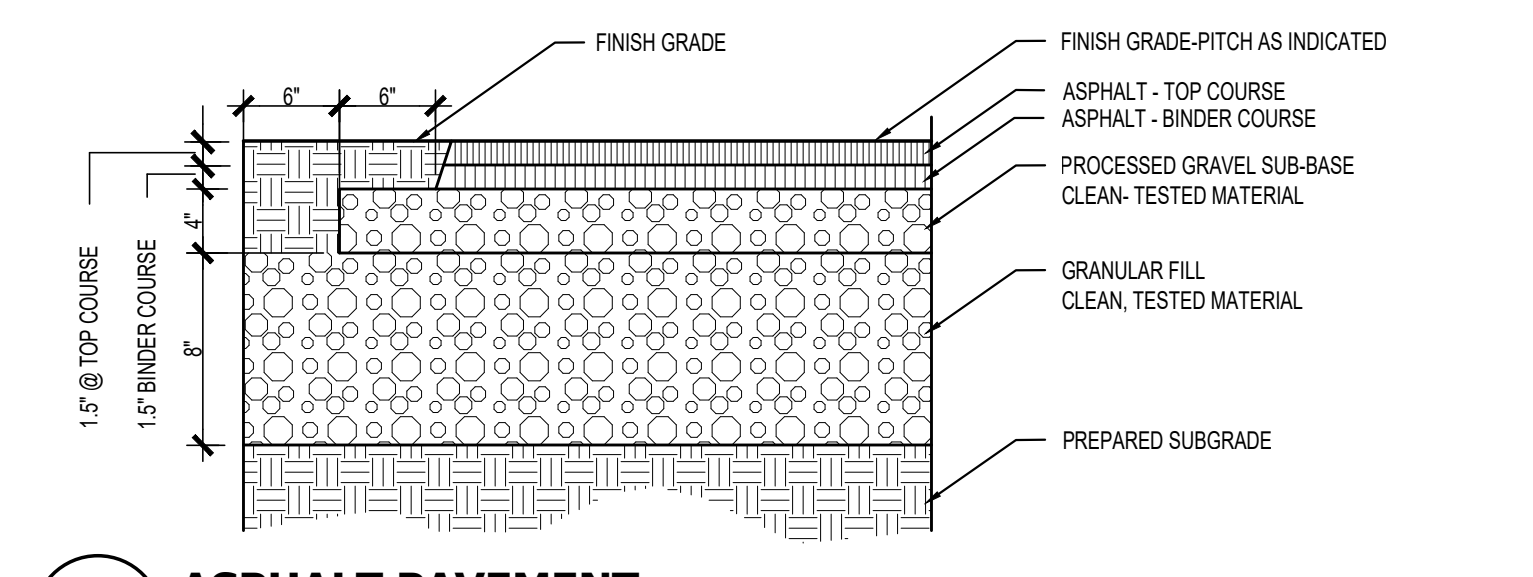
15 DETAIL NOT USED

16 DETAIL NOT USED



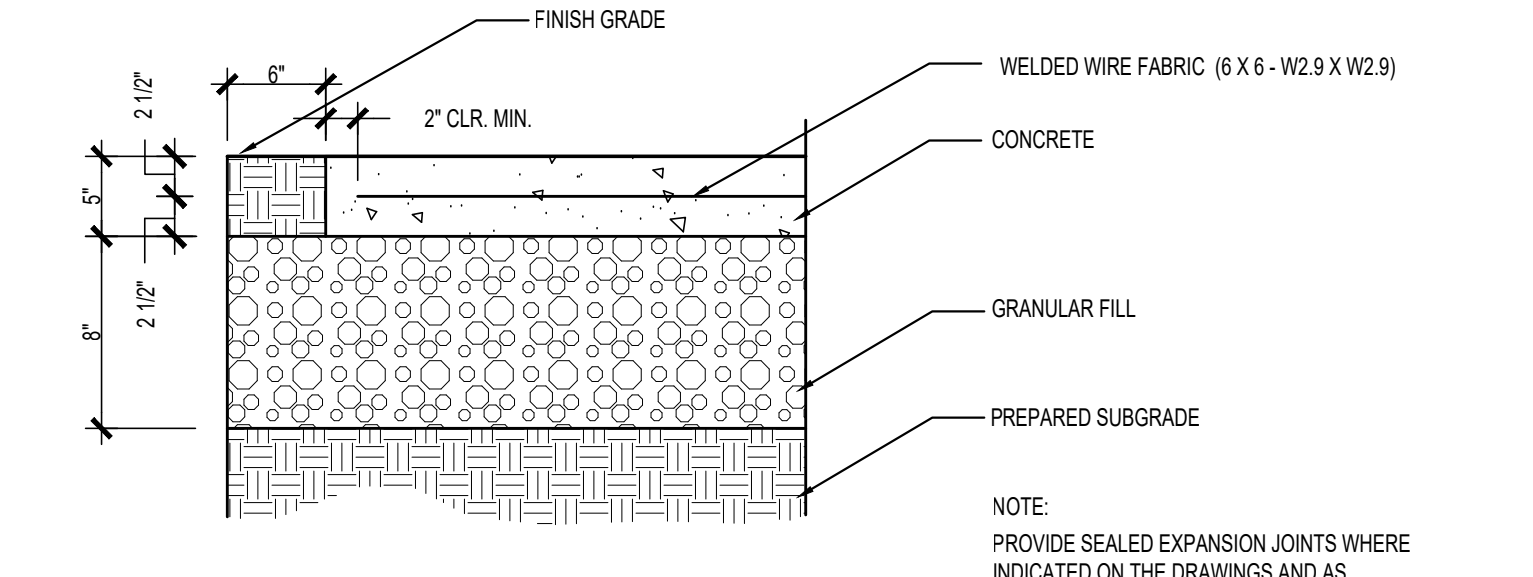
12 CROSSWALK LAYOUT (TYP.)
SCALE: N.T.S.

GENERAL NOTE:
ALL FILL MATERIAL BEING IMPORTED AS PART OF THE CAPPING SYSTEM (TOP 12\"/>

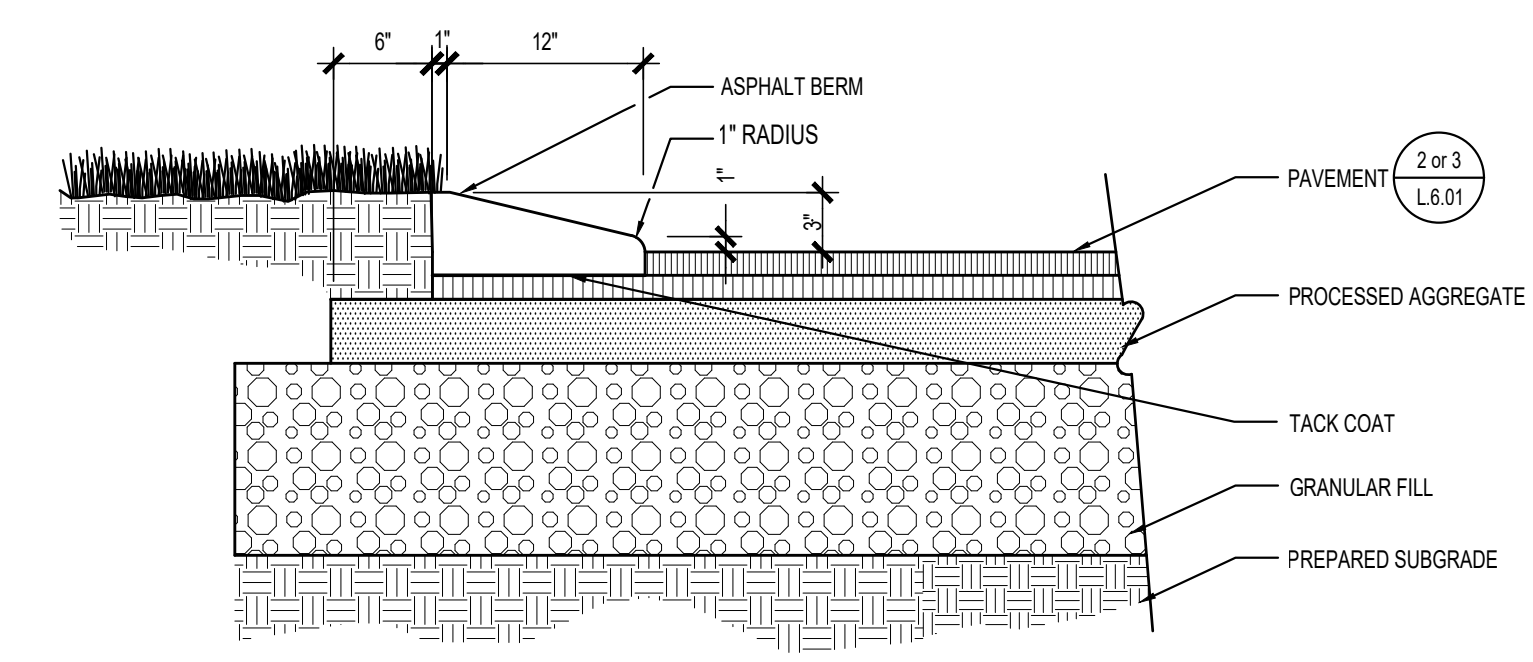


1 ASPHALT PAVEMENT
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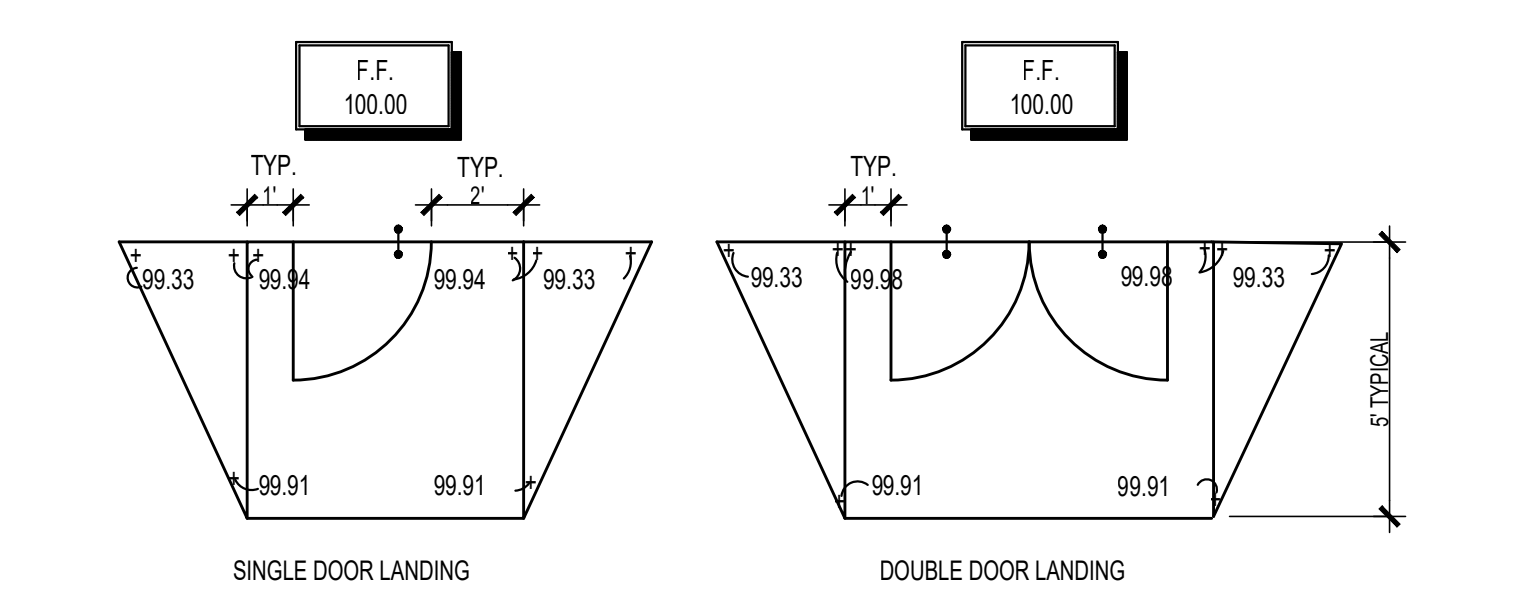
2 DETAIL NOT USED



4 CONCRETE WALK
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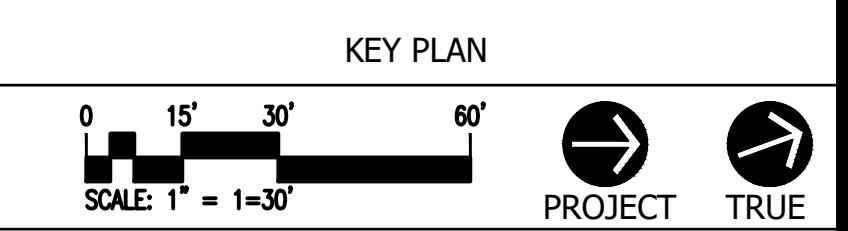
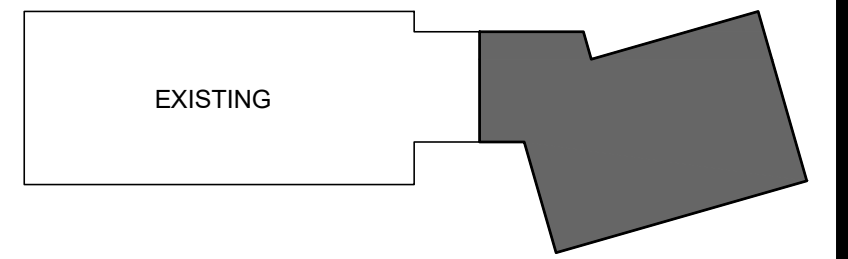
5 ASPHALT BERM
SCALE: N.T.S.



6 FLUSH HANDICAP ACCESSIBLE ENTRANCES
SCALE: N.T.S.

ISSUE DATE	
DATE	DESCRIPTION
APRIL 29, 2022	ISSUED FOR RIDEEM REVIEW
MAY 2, 2022	ISSUED FOR BID PRICING
AUGUST 18, 2022	24X36 LAYOUTS - RIDEEM
FEBRUARY 7, 2023	DPR REVIEW

REVISIONS	
DATE	DESCRIPTION



**ACHIEVEMENT
FIRST ILLUMINAR
SCHOOL ADDITION**

**85 GARFIELD AVE, CRANSTON,
RI, 02920**

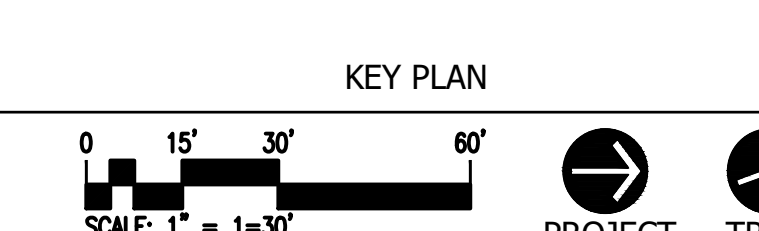
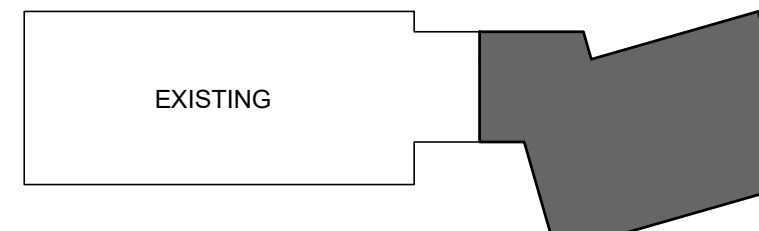
PROJECT NO.: 21012.02 DRAWN BY: DGM

**SITE
DETAILS**

DRAWING NO.:
L6.01

ISSUE DATE	
DATE	DESCRIPTION
APRIL 29, 2022	ISSUED FOR RFP REVIEW
MAY 2, 2022	ISSUED FOR BID PRICING
AUGUST 18, 2022	24X36 LAYOUTS - RFP REVIEW
FEBRUARY 7, 2023	DPR REVIEW

REVISIONS	
DATE	DESCRIPTION



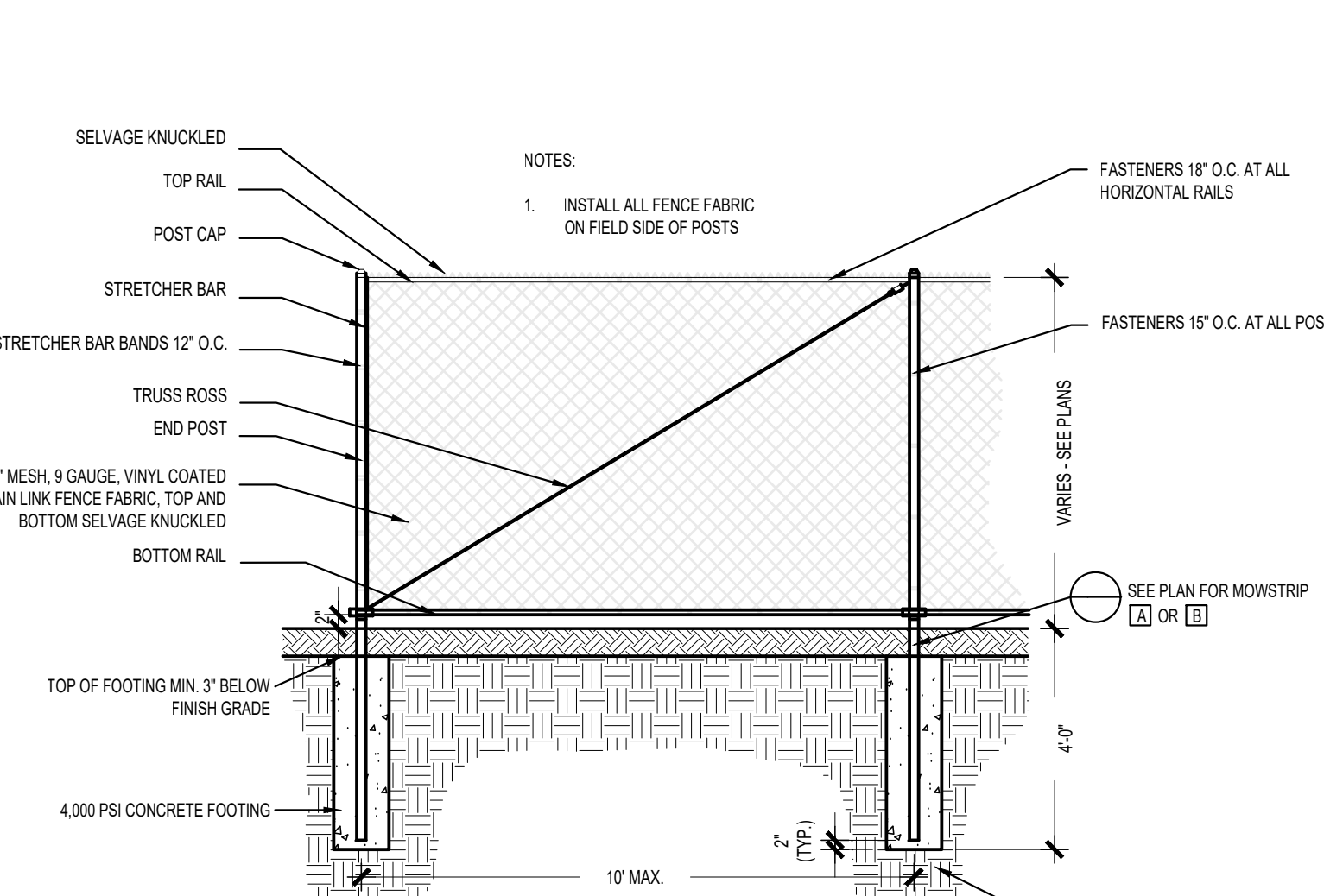
**ACHIEVEMENT
FIRST ILLUMINAR
SCHOOL ADDITION**

85 GARFIELD AVE, CRANSTON,
RI, 02920

PROJECT NO.: 21012.02 DRAWN BY: DGM

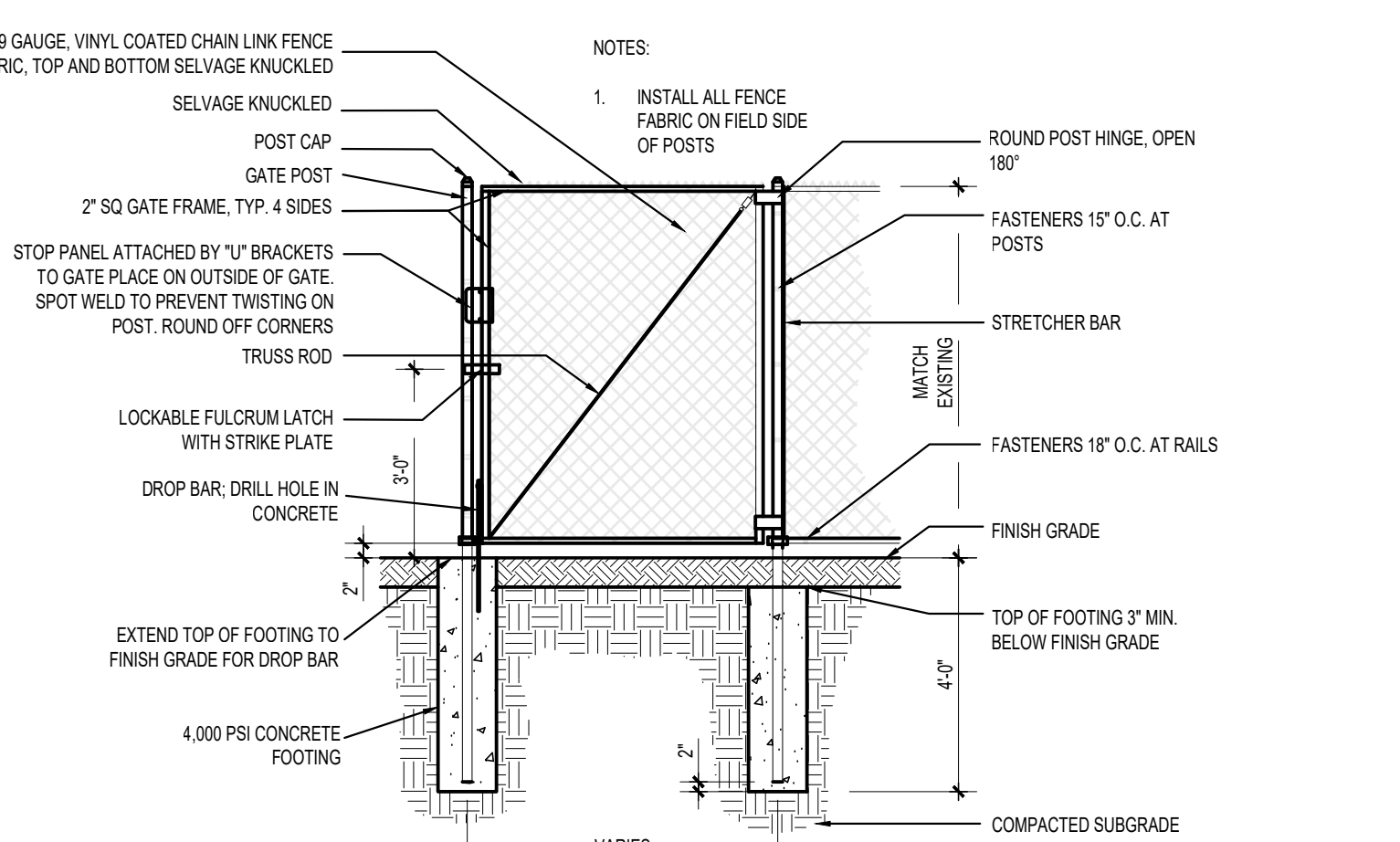
**SITE
DETAILS**

DRAWING NO.:
L6.02



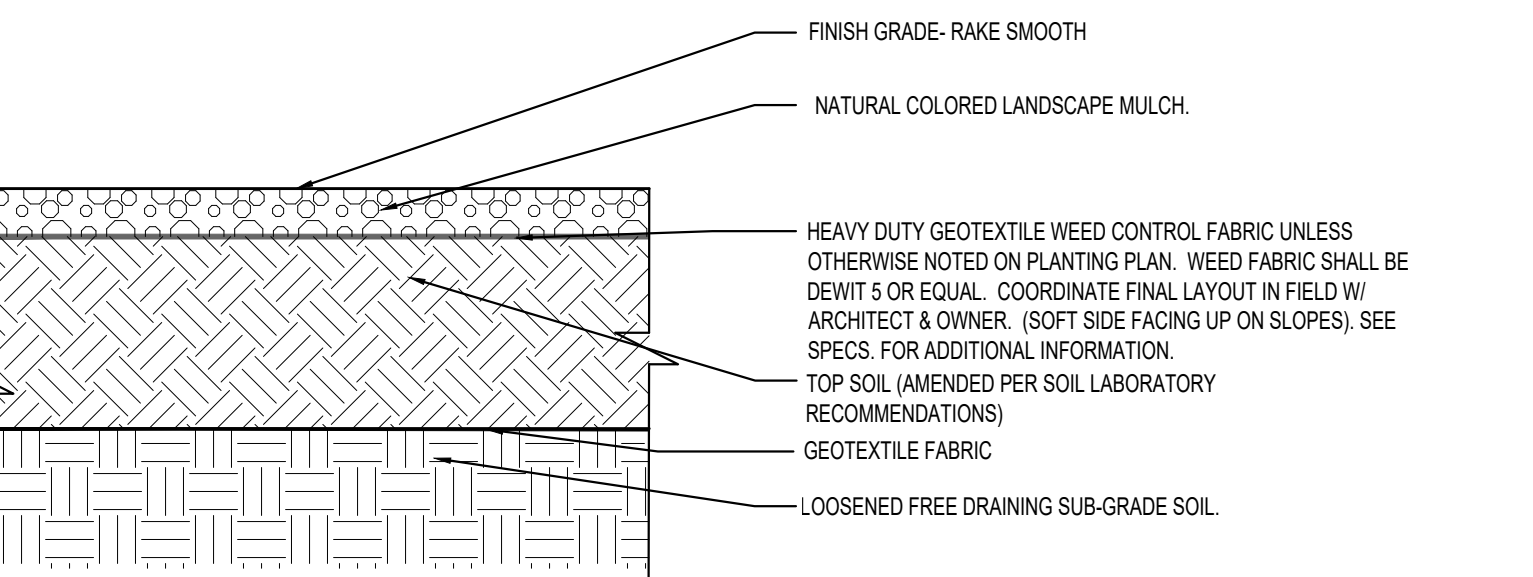
FABRIC HEIGHT	UP TO 4'	5' TO 6'	8' TO 10'
END CORNER & PULL POST	2.375" O.D.	2.875" O.D.	3.875" O.D.
LINE POST	1.897" O.D.	2.375" O.D.	2.875" O.D.
TOP AND BOTTOM RAIL	1.897" O.D.	1.897" O.D.	1.897" O.D.
MIDDLE RAIL	NONE	NONE	1.897" O.D.
FOOTING	12" DIA.	12" DIA.	15" DIA.

8 CHAIN LINK FENCE
SCALE: N.T.S.

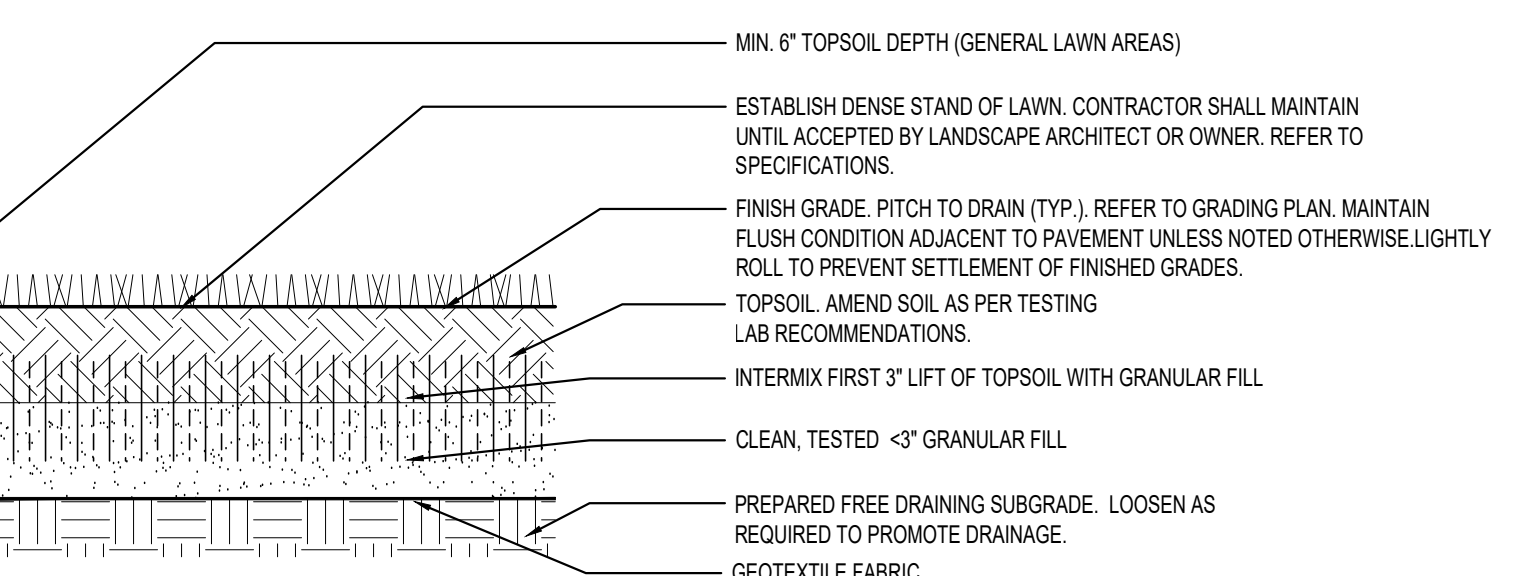


GATE LEAF SINGLE LEAF	6\"/>	
GATE POST	2.875" O.D.	4" O.D.
GATE FRAME (4 SIDES)	1.875"	1.875"
INTERIOR UPRIGHT	NONE	1.112"
FOOTING	12" DIA.	15" DIA.

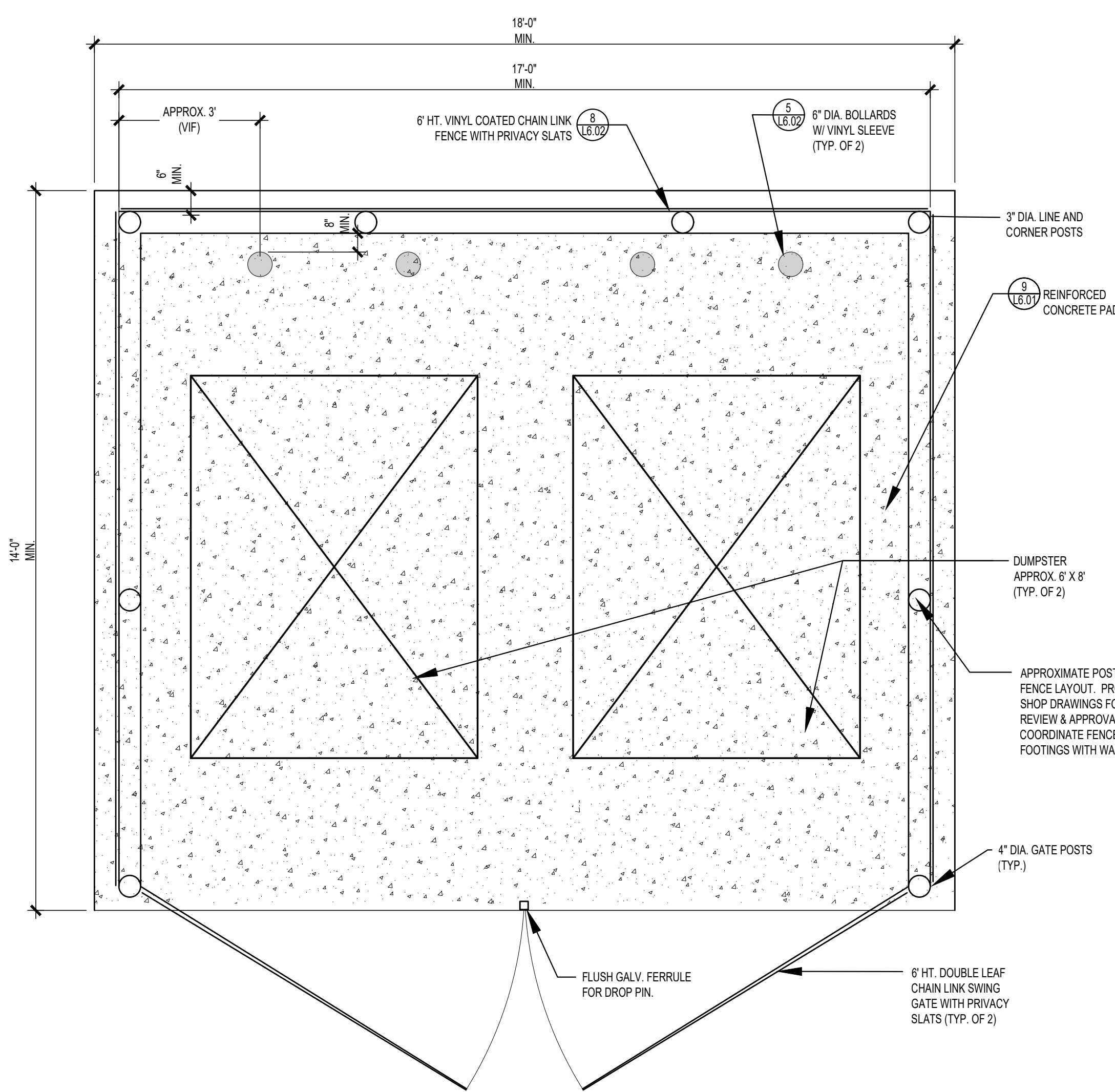
9 CHAIN LINK FENCE GATE
SCALE: N.T.S.



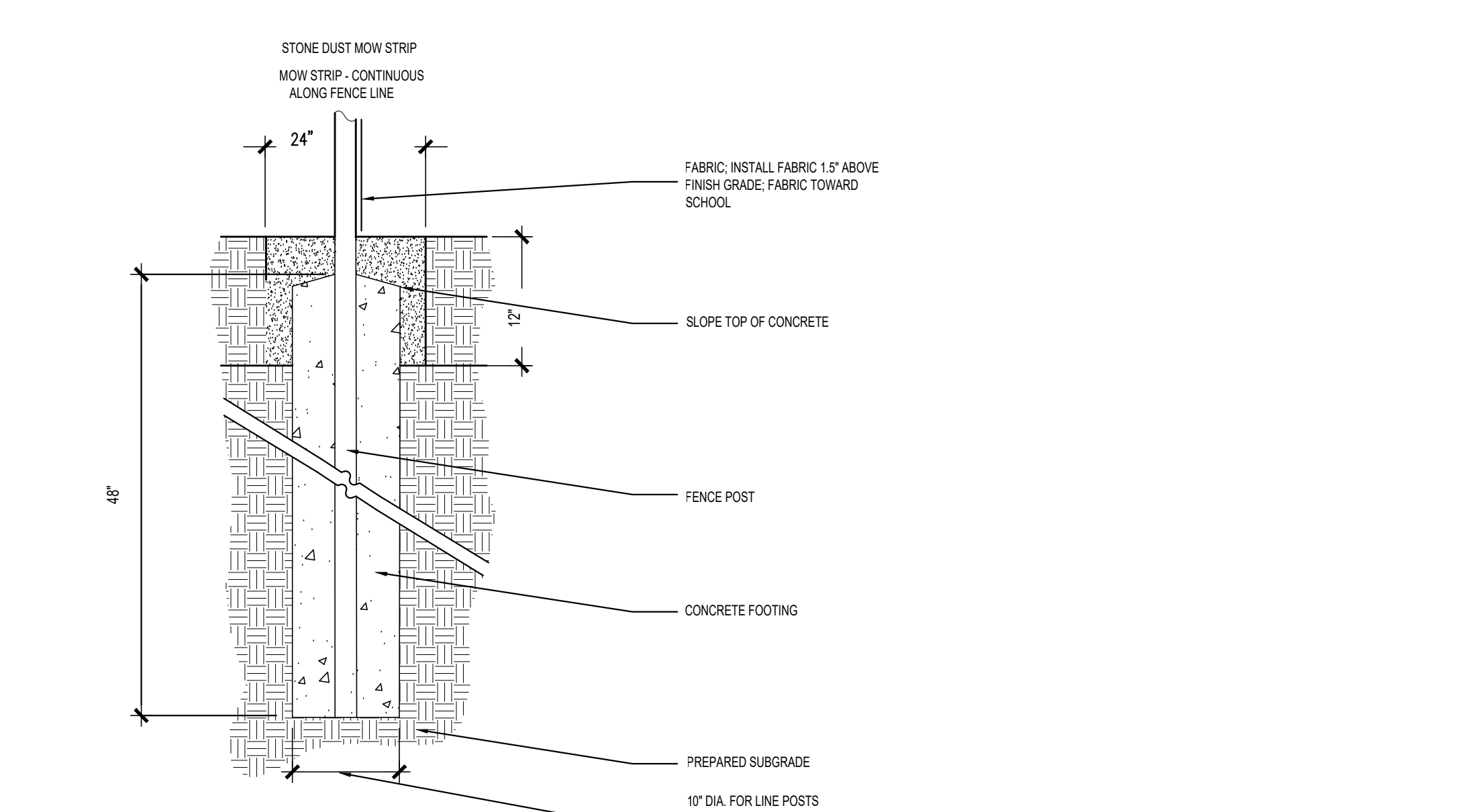
10 PLANTING BED W/ MULCH
SCALE: N.T.S.



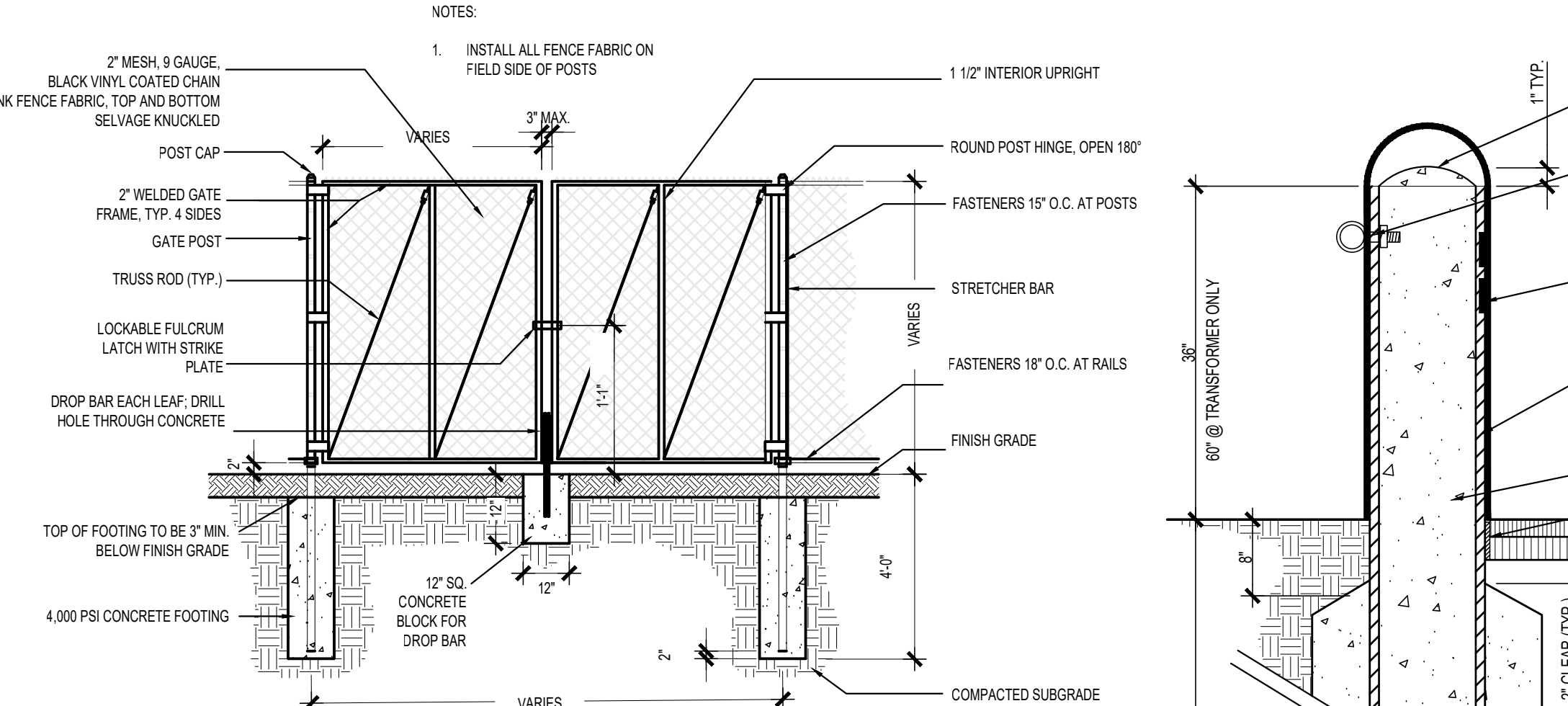
11 LAWN PLANTING (TYP.)
SCALE: N.T.S.



4 DUMPSTER ENCLOSURE PAD
SCALE: N.T.S.

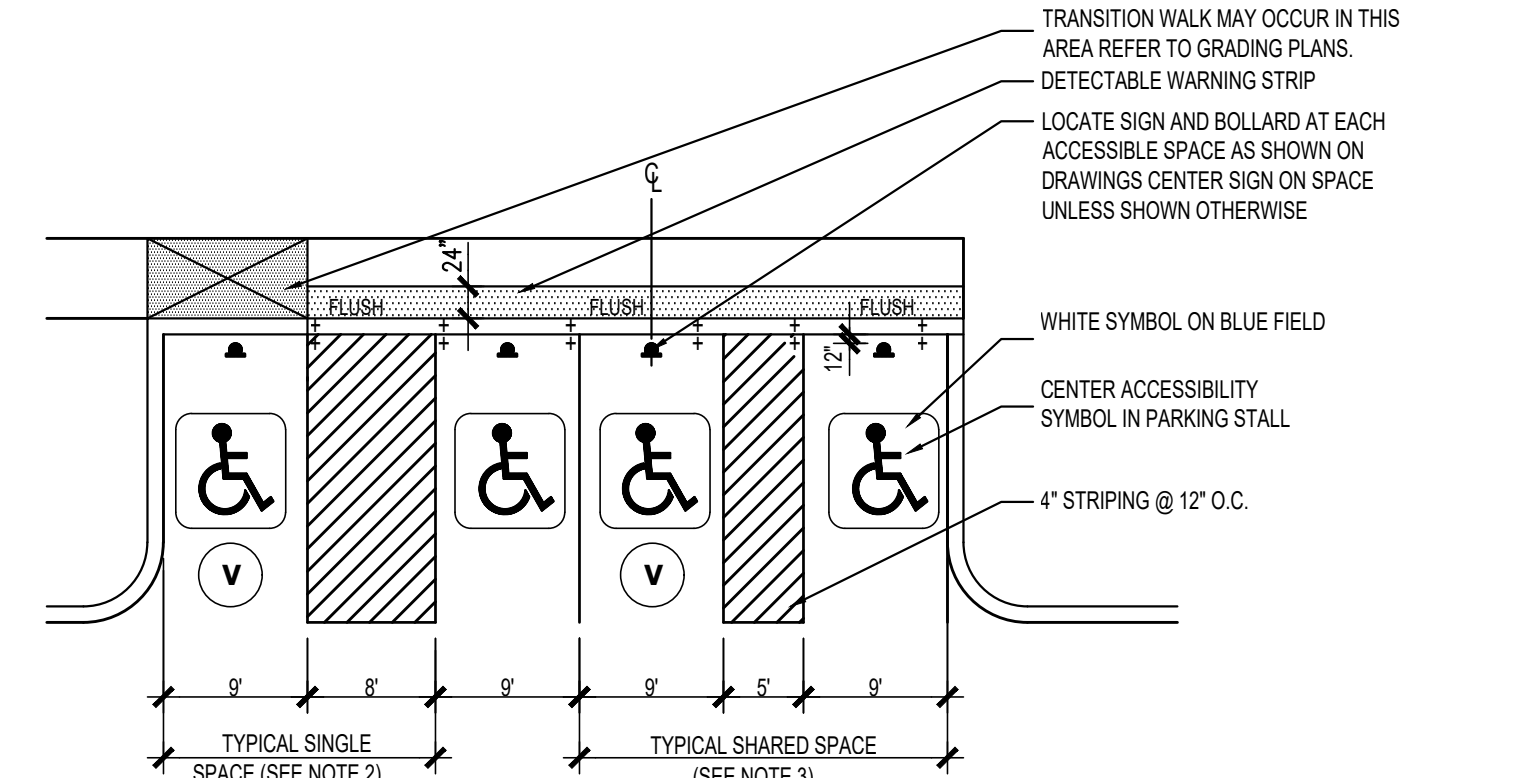


5 CHAIN LINK FENCE POST FOOTING & MOW STRIP
SCALE: N.T.S.



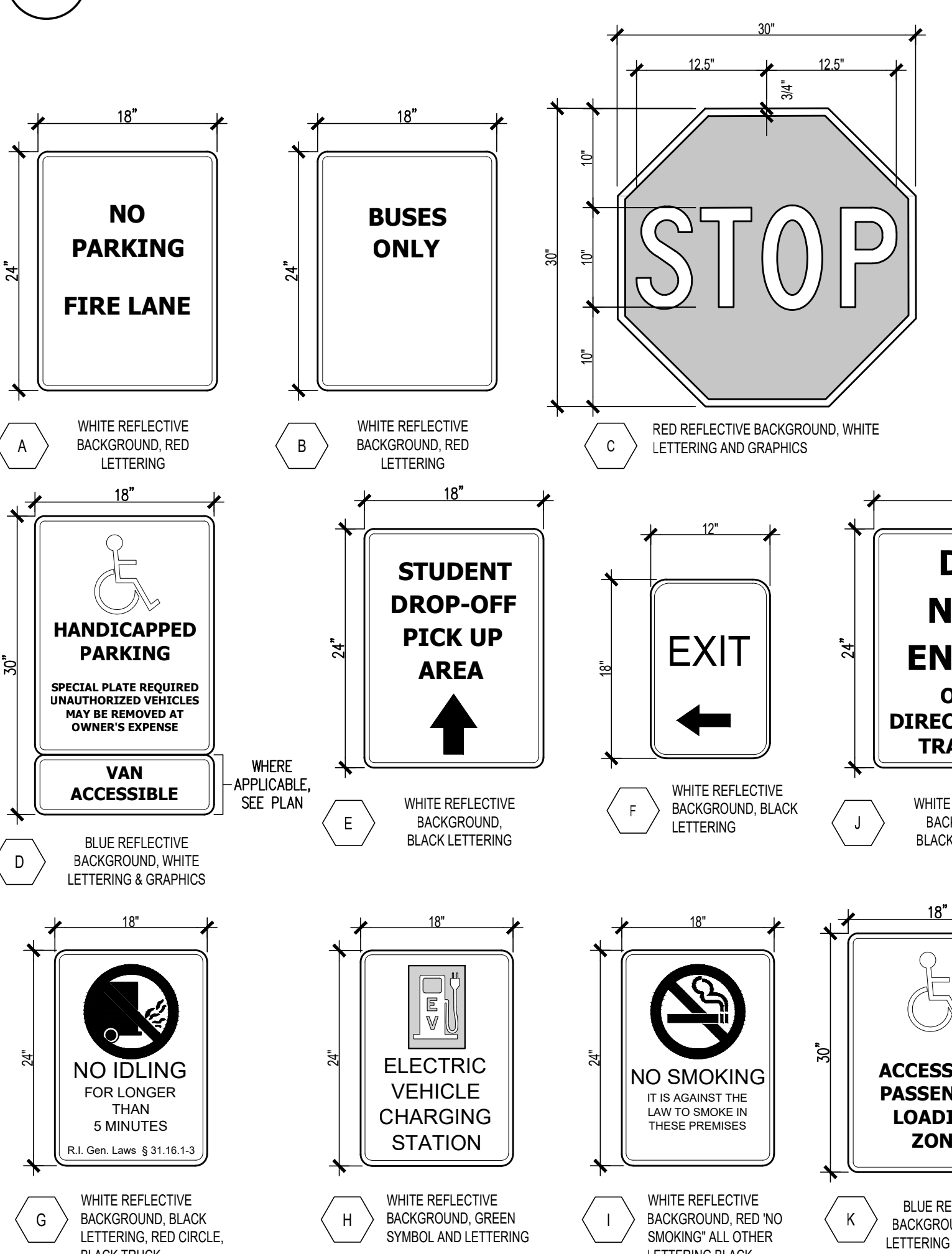
GATE LEAF DOUBLE LEAF	6\"/>		
GATE POST	2.875" O.D.	4" O.D.	4" O.D.
GATE FRAME (4 SIDES)	2"	2.375"	2.375"
INTERIOR UPRIGHT	NONE	1.112"	2.375"
HEAVY DUTY HINGE	3 PER LEAF	3 PER LEAF	4 PER LEAF
FOOTING	12" DIA.	15" DIA.	15" DIA.

7 CHAIN LINK FENCE GATE - DOUBLE
SCALE: N.T.S.

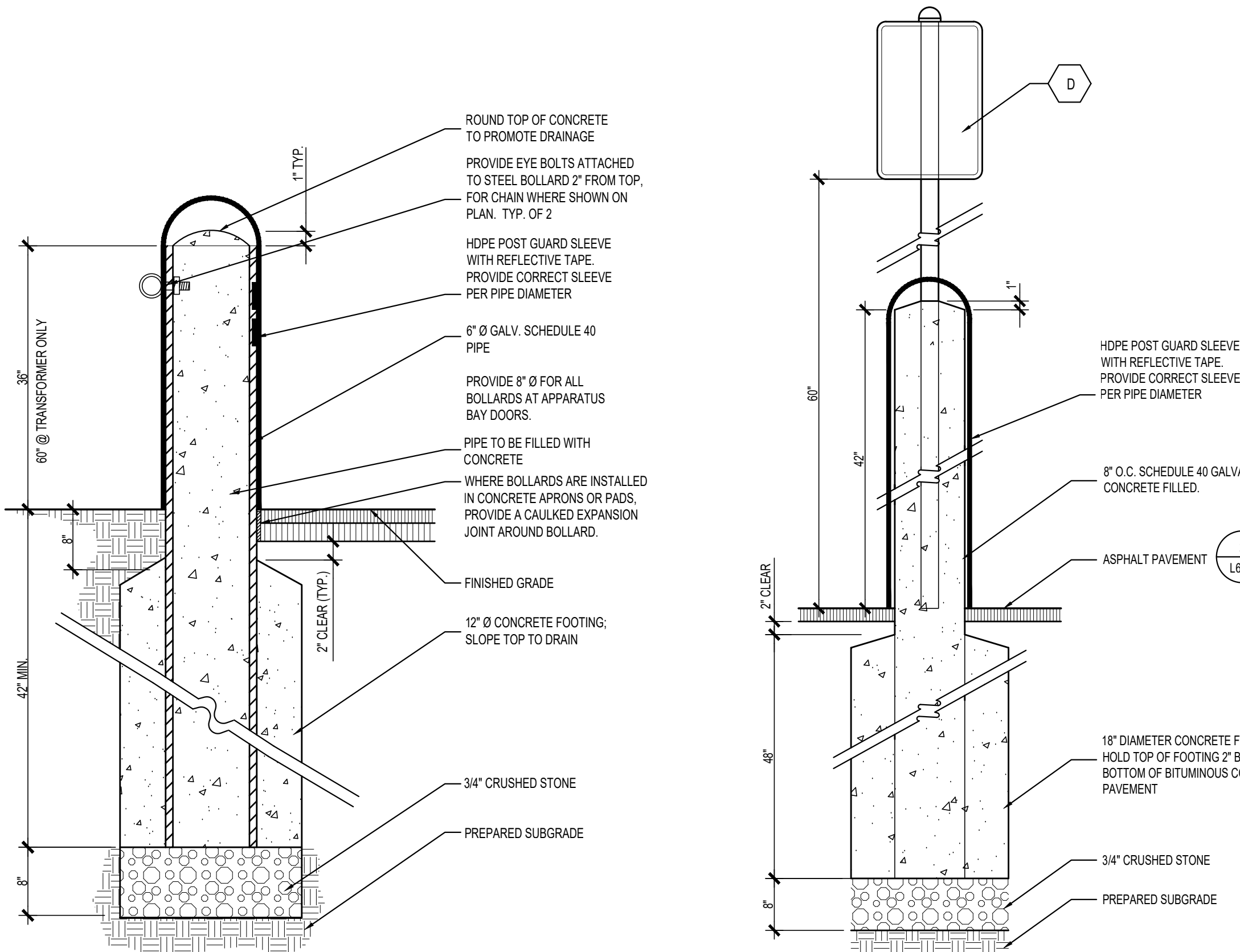


NOTES:
1. PITCH PAVEMENT NO MORE THAN A 2% SLOPE ANY DIRECTION
2. CROSS HATCH AISLE FOR SINGLE SPACE IS LOCATED ON THE RIGHT SIDE OF THE VEHICLE APPROACH. AISLE WIDTH IS 8' UNLESS VEHICLE ACCESSIBILITY IS NOT REQUIRED AND THE PLANS INDICATE A WIDTH OF 5'.
3. SHARED PARKING SPACES SHALL ONLY BE PERMITTED WHERE A VEHICLE CAN BACK INTO EITHER SPACE FROM THE NORMAL VEHICULAR CIRCULATION PATTERN.

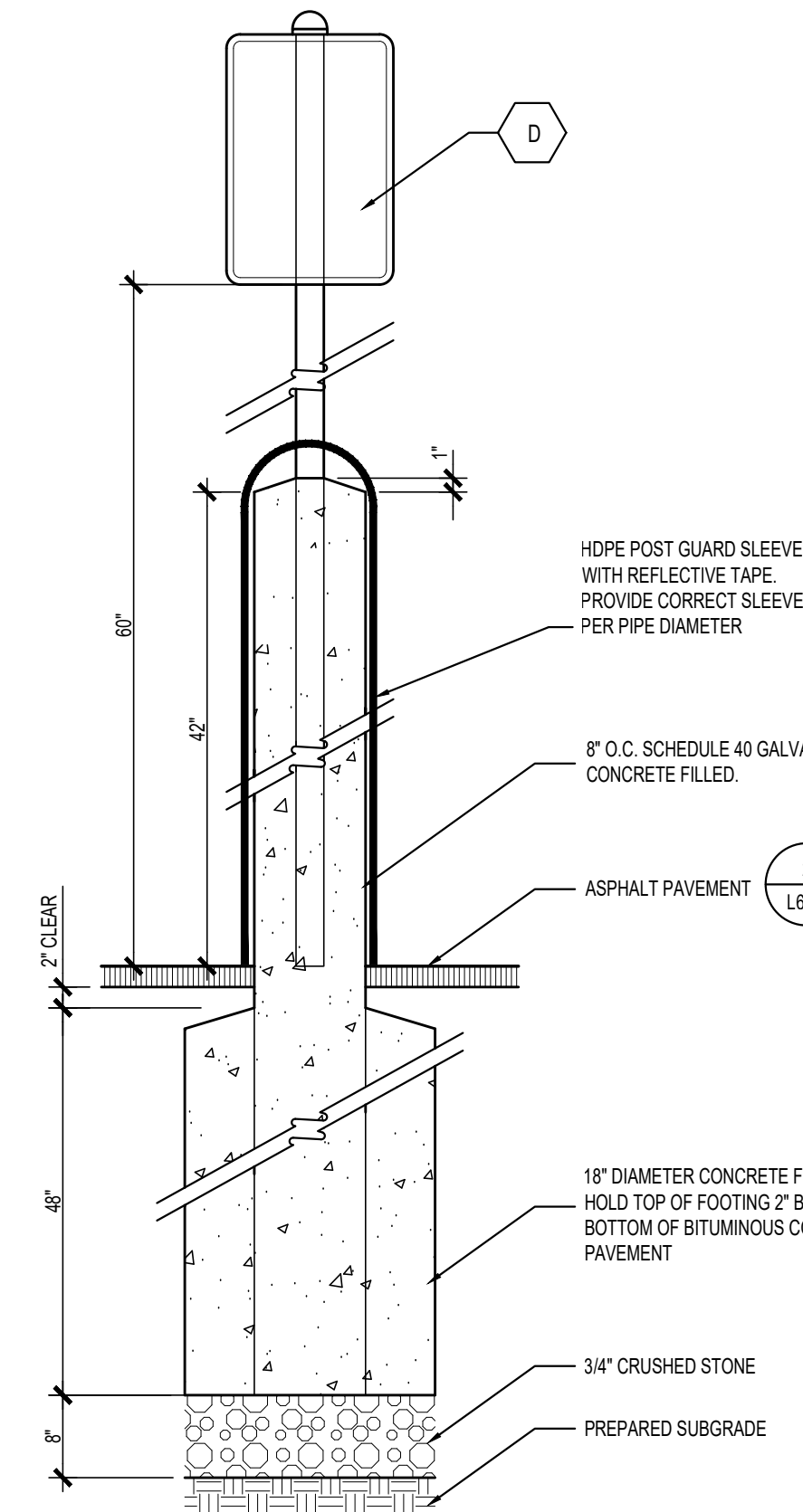
1 ACCESSIBLE PARKING SPACES (W/ BOLLARD SIGNAGE)
SCALE: N.T.S.



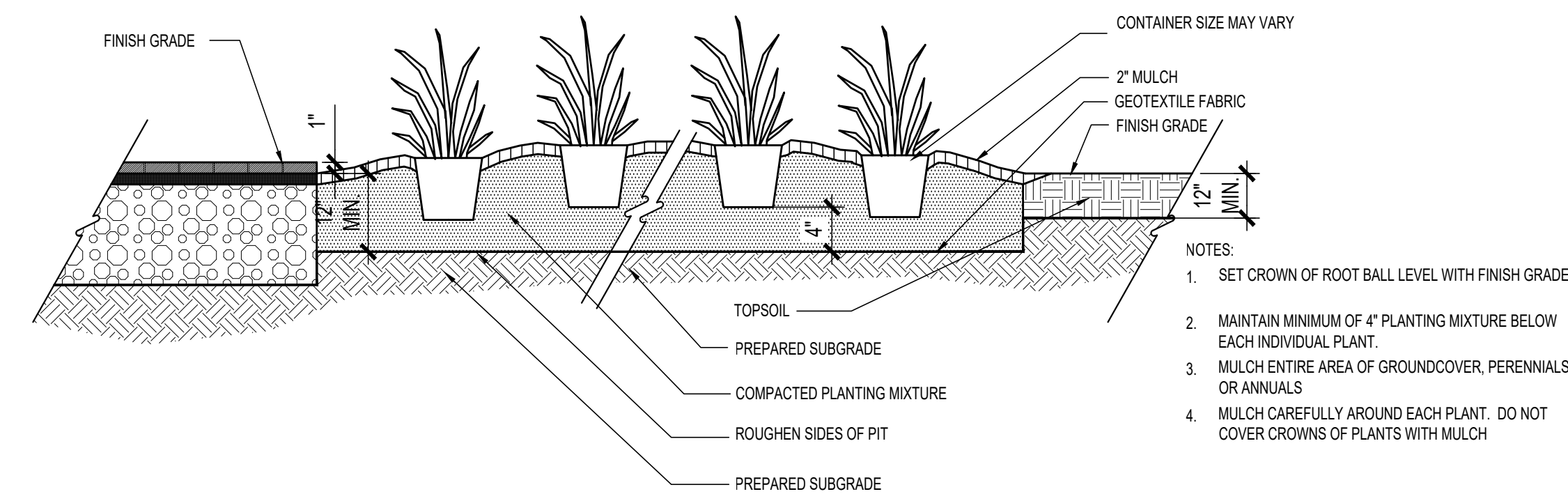
2 PROJECT SIGNAGE
SCALE: N.T.S.



6 STEEL PIPE BOLLARD
SCALE: N.T.S.

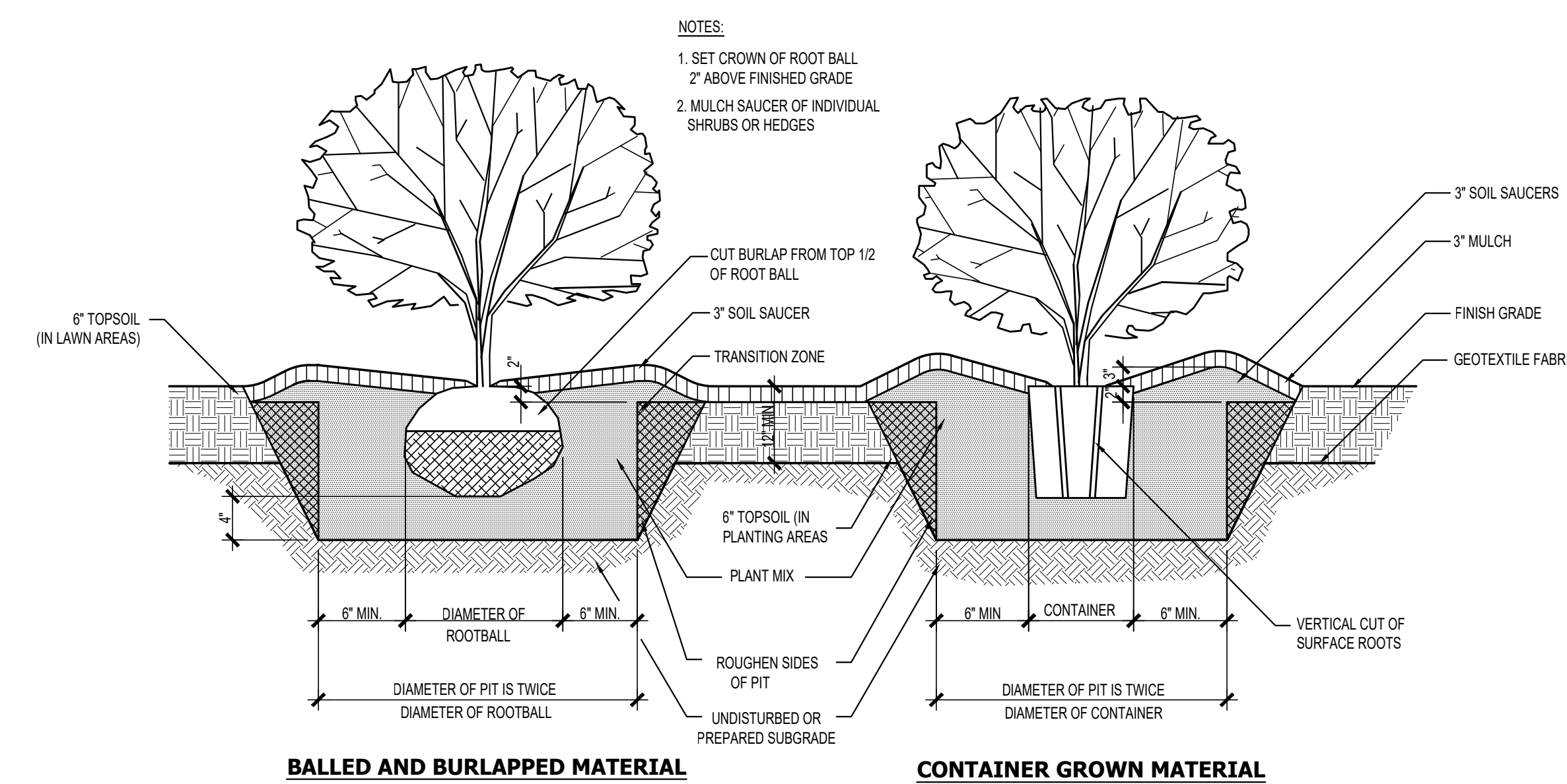


3 STEEL PIPE BOLLARD & SIGNAGE
SCALE: N.T.S.



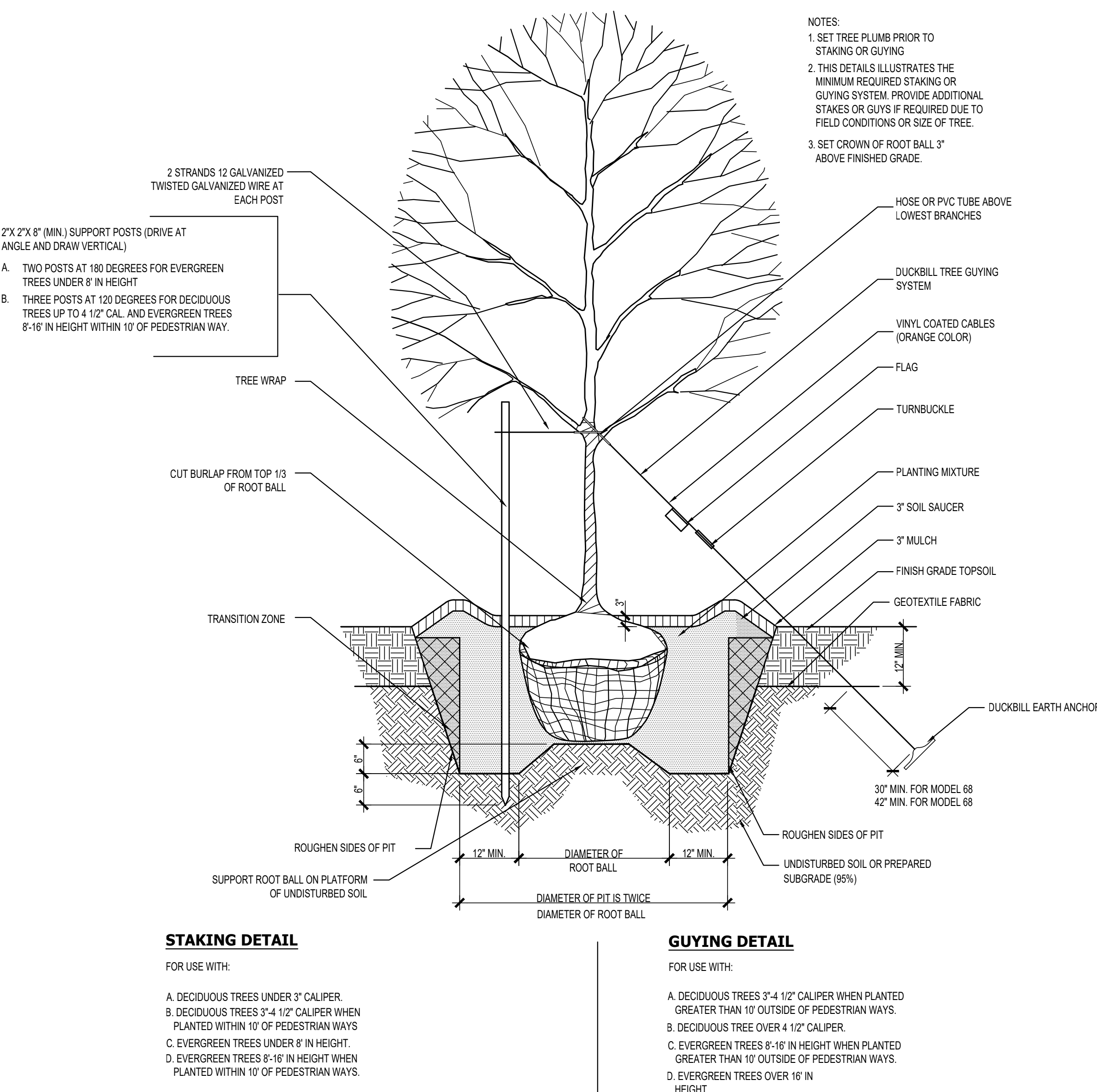
1 GROUNDCOVER, PERENNIALS OR ANNUALS - CONTINUOUS PLANTING BED

SCALE: N.T.S.



2 SHRUB PLANTING

SCALE: N.T.S.

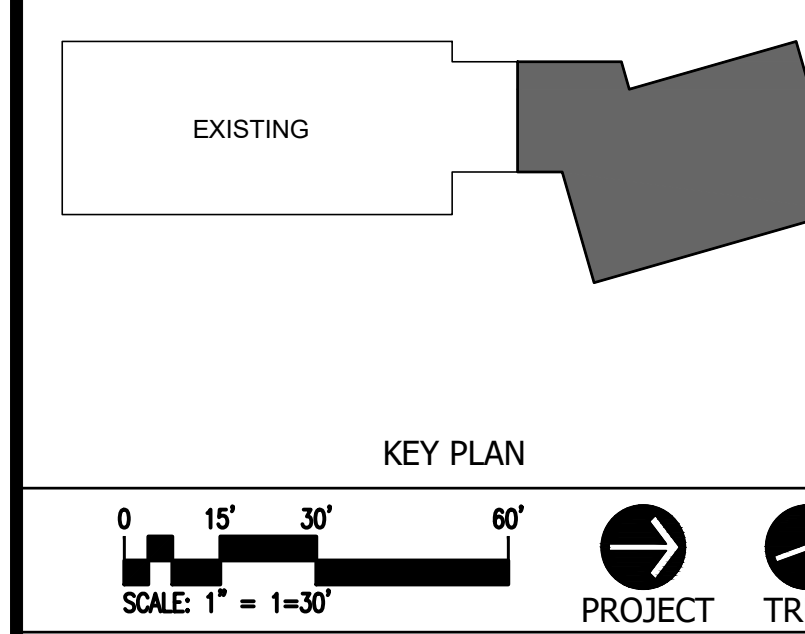


3 TREE PLANTING

SCALE: N.T.S.

ISSUE DATE	
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FEBRUARY 7, 2023	DPR REVIEW

REVISIONS	
DATE	DESCRIPTION



**ACHIEVEMENT
FIRST ILLUMINAR
SCHOOL ADDITION**

85 GARFIELD AVE, CRANSTON,
RI, 02920

PROJECT NO.: 21012.02 DRAWN BY: DGM

**SITE
DETAILS**

DRAWING NO.:
L6.03

Project Consultant

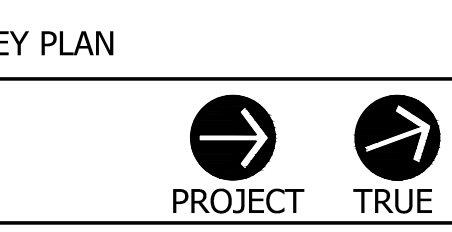
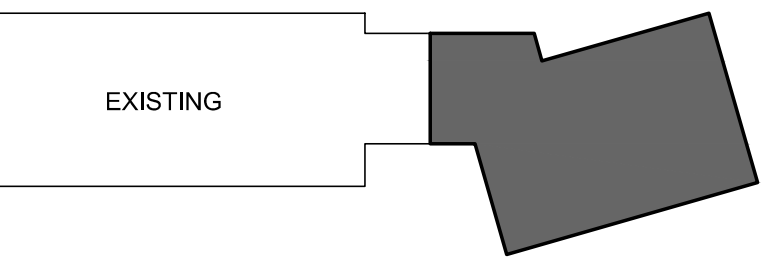


GREEN INTERNATIONAL AFFILIATES, INC.
Civil and Structural Engineers
100 Ames Pond Drive,
Tewksbury, MA 01876
GreenInt.com
(978) 923-0400

ISSUE DATE	
DATE	DESCRIPTION
JUNE 13, 2022	ISSUED FOR BID

REVISIONS	
DATE	DESCRIPTION

FOR ALL ABBREVIATIONS, SYMBOL LEGENDS, AND GENERAL NOTES SEE SHEET R0.01




ACHIEVEMENT FIRST ILUMINAR SCHOOL ADDITION

85 GARFIELD AVE, CRANSTON, RI, 02920

PROJECT NO.: 21012.02 DRAWN BY:

NOTES AND LEGEND

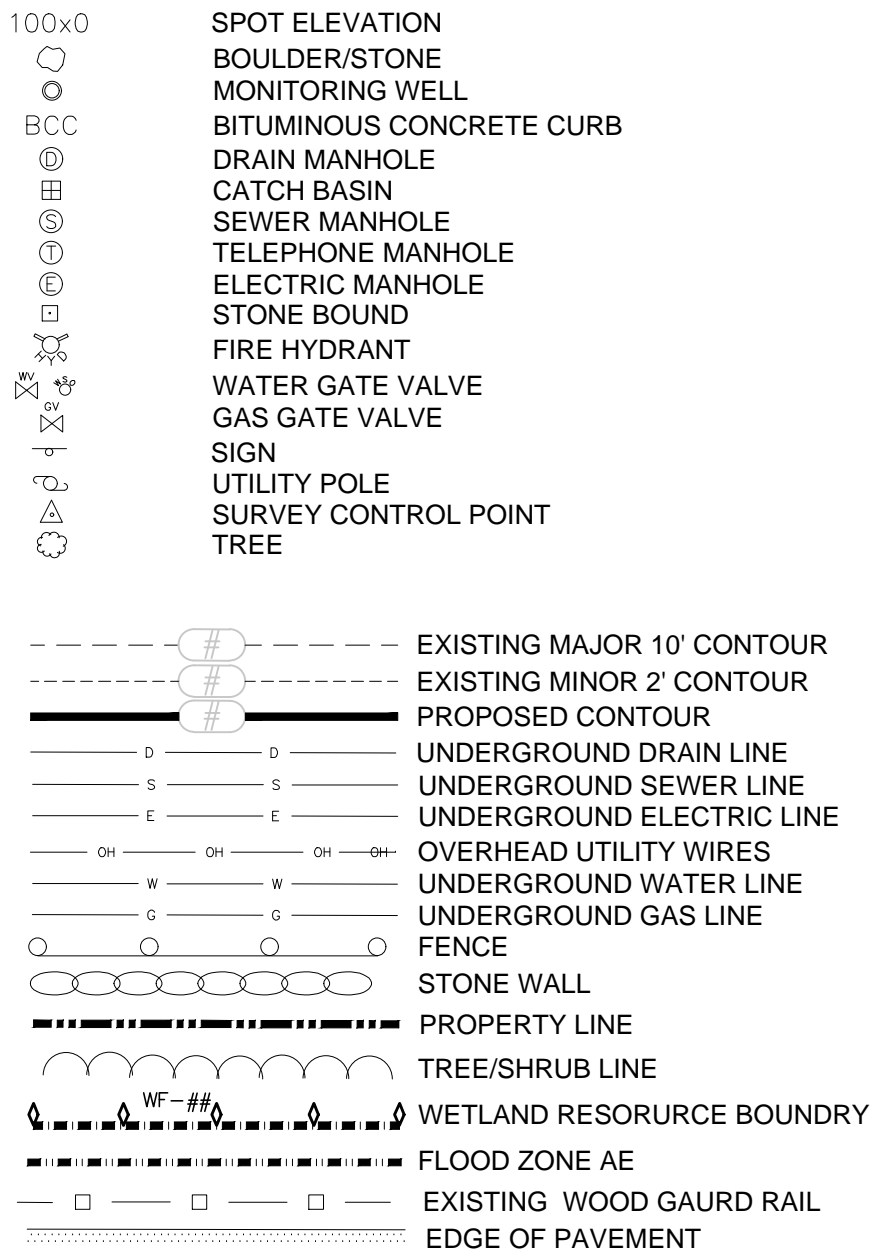
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GENERAL CONSTRUCTION NOTES

- ALL CONSTRUCTION DEBRIS SHALL BE DISPOSED OF LEGALLY OFF SITE.
- CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL. DUST CONTROL SHALL INCLUDE THE WATERING OF UNPAVED ROAD SURFACES AND STREET SWEEPING OF PAVED SURFACES. STREET SWEEPING SHALL OCCUR ON THE PAVED SURFACES WITHIN THE SITE AND OFF THE SITE WHERE VEHICLE TRACKING OF SEDIMENTS HAS OCCURRED.
- DURING CONSTRUCTION, TRENCHES ARE NOT TO BE LEFT IN A CONDITION THAT WOULD DIRECT RUNOFF AROUND TREATMENT AND DETENTION FACILITIES.
- ALL SITE WORK SHALL BE SECURED AT THE END OF THE WORK DAY TO REDUCE EROSION AND SEDIMENT PROBLEMS. THIS INCLUDES AS APPLICABLE, COVERING STOCKPILES OF SOIL, INSTALLING TEMPORARY VEGETATION OR BY USING GEOTEXTILES TO COVER DISTURBED AREAS WITH STEEPER SLOPES.
- DEWATERING OPERATION SHALL COMPLY WITH THE REQUIREMENTS OF THE RIPDES CONSTRUCTION GENERAL PERMIT FOR CONSTRUCTION SITES THAT ARE GREATER THAN 1 ACRE.
- CONSTRUCTION FENCING SHALL BE SET TO PREVENT UNCONTROLLED ACCESS TO THE SITE AT ALL TIMES AND ADJUSTED AS NECESSARY THROUGHOUT CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER DEPENDING ON PHASING.

PLAN SYMBOLS - EXISTING CONDITIONS



SITE PREPARATION NOTES

- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES AND PROCEDURES; AND FOR THE SAFETY PRECAUTIONS AND PROGRAMS REQUIRED FOR THE WORK UNDER THIS CONTRACT. THE CONTRACT DOCUMENTS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY AND THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING ALL SAFETY BARRIERS, WARNING FLASHERS, AND THE LIKE AS REQUIRED FOR THE PROTECTION OF WORKERS AND THE PUBLIC. COMPLY WITH OSHA REQUIREMENTS.
- PRIOR TO THE START OF WORK, INSTALL WOVEN POLYPROPYLENE GEOTEXTILE FILTER BAGS IN CATCH BASINS AND/OR DRYWELL STRUCTURES ON AND NEAR THE SITE. WHEN INSTALLING FILTER BAGS, HOLD APPROXIMATELY SIX INCHES OUTSIDE THE FRAME AND REPLACE THE GRATE, USING THE WEIGHT OF THE GRATE TO HOLD THE FILTER BAG IN PLACE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL NECESSARY CONSTRUCTION PERMITS REQUIRED FOR THIS PROJECT.
- THE CONTRACTOR SHALL PROTECT ALL UTILITIES WITHIN THE PROJECT AREA, IN THE STREET, AND ON ADJACENT PROPERTIES FROM DAMAGE AND UNDERMINING DURING EXCAVATION.
- THE CONTRACTOR SHALL PERFORM ALL WORK IN THE PUBLIC RIGHT-OF-WAY IN ACCORDANCE WITH THE CITY OF CRANSTON DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS.
- ALL EXISTING WATER AND GAS SERVICES DESIGNATED TO BE REMOVED OR ABANDONED SHALL BE CUT AND CAPPED AT THE MAIN IN THE STREET.
- ALL EXISTING SEWER AND DRAIN LINES DESIGNATED TO BE REMOVED OR ABANDONED SHALL BE CUT AND CAPPED AT THE MAIN IN THE STREET.
- ALL EXISTING UTILITY FRAMES, COVERS AND/OR GRATES WITHIN PROJECT LIMITS ARE TO BE ADJUSTED TO PROPOSED FINISHED GRADE UNLESS OTHERWISE NOTED.
- TEMPORARY CONSTRUCTION ENTRANCES SHALL BE INSTALLED AS SHOWN ON PLANS.
- REMNANTS OF PREVIOUS BUILDING FOUNDATION, UTILITY STRUCTURES AND UNDERGROUND UTILITIES MAY BE ENCOUNTERED DURING EXCAVATION AND SHALL BE REMOVED AND DISPOSED LEGALLY OFF SITE.
- PROVIDE TREE PROTECTION AT ALL TREE TRUNKS WITHIN 20' OF L.O.W. OR TEMPORARY STOCKPILES OR AS SHOWN ON PLANS.
- CONTRACTOR SHALL USE EXTREME CAUTION IN REMOVING PAVEMENT AND SUB-BASE UNDER DRIP LINE OF EXISTING TREES TO AVOID DAMAGE TO ROOTS AND OVERHEAD BRANCHES.
- CONTRACTOR SHALL REMOVE AND LEGALLY DISPOSE OF ALL EXISTING SITE FEATURES AND STRUCTURES AS NECESSARY TO INSTALL PROPOSED SITE IMPROVEMENTS.

EROSION AND SEDIMENT CONTROLS

- A RIPDES PERMIT WILL BE REQUIRED FOR THIS PROJECT. A DRAFT SESC HAS BEEN PREPARED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CERTIFYING THE SESC AND FOLLOWING THE REQUIREMENTS OF THE SESC PURSUANT TO THE RIPDES CONSTRUCTION GENERAL PERMIT.
- THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING THE EROSION AND SEDIMENT DURING THE CONSTRUCTION PROCESS. SITE SPECIFIC CONDITIONS MAY REQUIRE MODIFICATIONS IN THE FIELD, BUT THE CONTRACTOR MUST ENSURE THAT THE PROJECT SPECIFICATIONS THAT ARE DEVELOPED IN THE FIELD MEET THE MINIMUM REQUIREMENTS OF THIS PLAN.
- IN ORDER TO MINIMIZE EROSION AND SEDIMENT RUNOFF FROM THE SITE, THE CONTRACTOR SHOULD MAINTAIN EXISTING VEGETATION WHERE POSSIBLE AND STABILIZE THE DISTURBED PORTIONS OF THE SITE AS QUICKLY AS POSSIBLE. THIS MAY INCLUDE PHASING THE PROJECT AS NEEDED TO MINIMIZE THE SIZE OF THE DISTURBED AREAS ON THE SITE.
- THE CONTRACTOR MUST ALSO ANTICIPATE INCREASED RUNOFF FROM STEEPER SLOPES AND DURING HIGH GROUNDWATER CONDITIONS. THIS MAY OCCUR DURING THE WET SEASON (TYPICALLY MARCH THROUGH APRIL) OR AFTER SIGNIFICANT PRECIPITATION EVENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF SILT FENCES, DRAINAGE SWALES, EARTH DIKES, TEMPORARY SETTLING BASINS, CHECK DAMS AND TEMPORARY OR PERMANENT SEDIMENT BASINS. THESE PRACTICES DIVERT FLOWS FROM EXPOSED SOILS, LIMIT RUNOFF AND THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE TO THE DEGREE ATTAINABLE.
- ALL DISTURBED SURFACES SHALL BE STABILIZED WITHIN 14 DAYS AFTER CONSTRUCTION IN ANY PORTION OF THE SITE THAT HAS BEEN COMPLETED OR WHERE CONSTRUCTION HAS TEMPORARILY CEASED.
- THE CONTRACTOR SHALL, AT ALL TIMES, HAVE A STOCKPILE OF STRAW WATTLES AND SILT FENCE ADEQUATE TO REINFORCE/REPLACE EROSION AND SEDIMENT CONTROL AS NEEDED.
- THE CONTRACTOR SHALL MAINTAIN EROSION CONTROL MEASURES AT ALL TIMES UNTIL ALL EARTHWORK OPERATIONS ARE COMPLETE AND ALL AREAS ARE STABILIZED TO PREVENT THE MOVEMENT OF SOIL, SILT, SEDIMENT, AND DEBRIS INTO THE DRAINAGE SYSTEM ON AND NEAR THE SITE. THE CONTRACTOR SHALL REMOVE ALL EROSION CONTROL DEVICES UPON COMPLETION AND ACCEPTANCE OF THE WORK. REFER TO LANDSCAPE PLANS FOR ADDITIONAL REQUIREMENTS.
- ALL AREAS OF DISTURBANCE MUST HAVE TEMPORARY OR FINAL STABILIZATION WITHIN 14 DAYS OF THE INITIAL DISTURBANCE. AFTER THIS TIME, ANY DISTURBANCE IN THE AREA MUST BE STABILIZED AT THE END OF EACH WORK DAY. THE FOLLOWING EXCEPTIONS APPLY:
 - i) STABILIZATION IS NOT REQUIRED IF WORK IS TO CONTINUE IN THE AREA WITHIN THE NEXT 24 HOURS AND THERE IS NO PRECIPITATION FORECAST FOR THE NEXT 24 HOURS.
 - ii) STABILIZATION IS NOT REQUIRED IF THE WORK IS OCCURRING IN A SELF-CONTAINED EXCAVATION WITH A DEPTH OF 2 FEET OR GREATER.

UTILITY NOTES

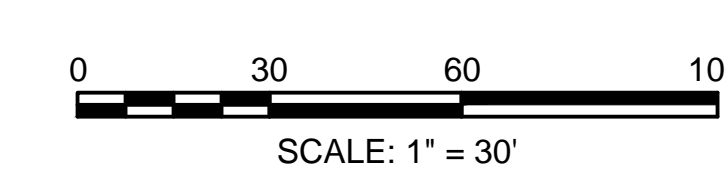
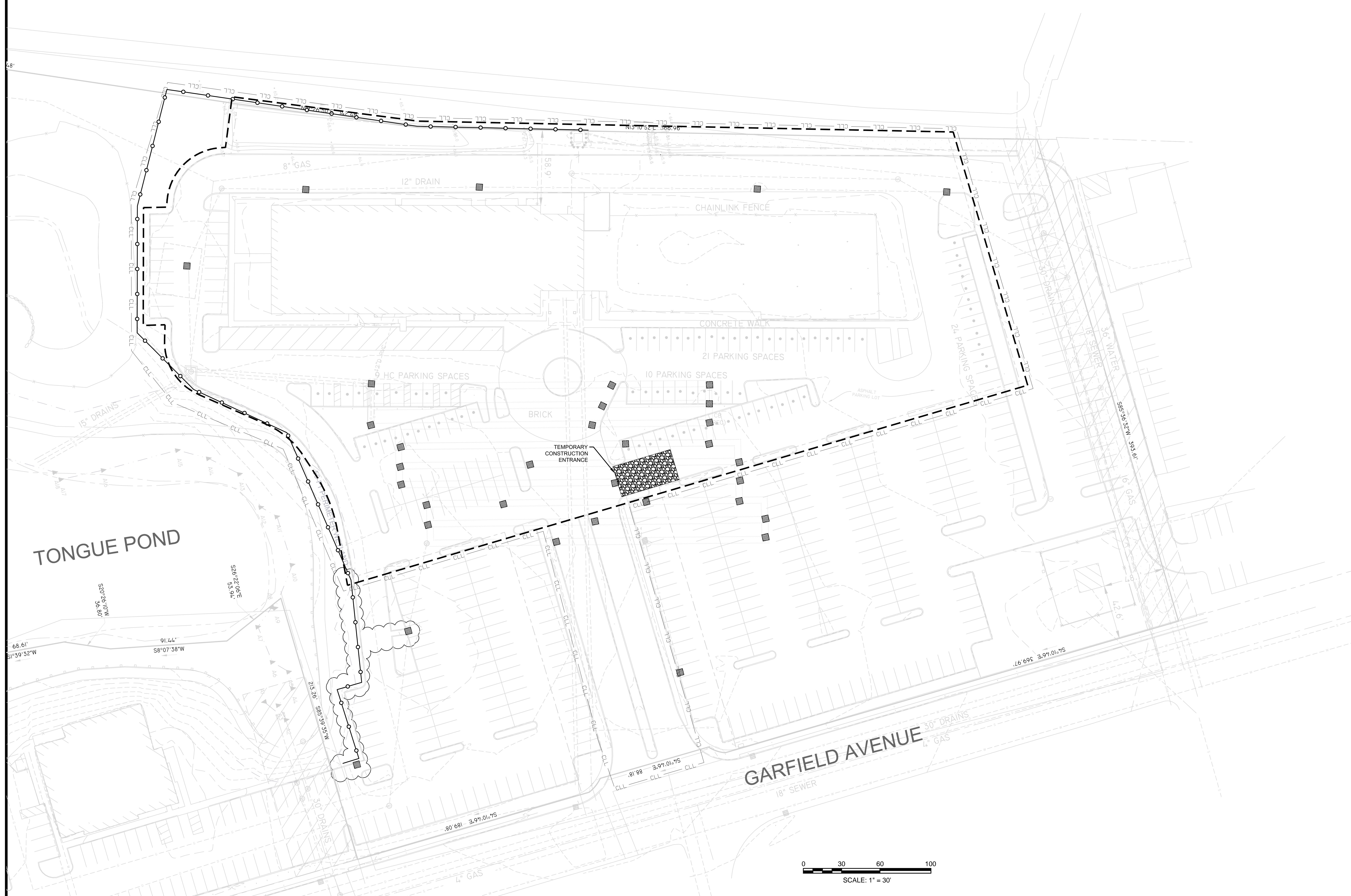
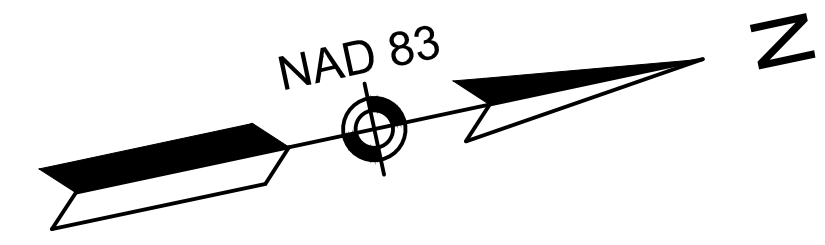
- UTILITY WORK WITHIN THE ZONE 10 FT OUTSIDE OF FOUNDATION WALL OF THE BUILDING SHALL CONFORM TO EFFECTIVE BUILDING CODE REQUIREMENTS, CITY OF CRANSTON REQUIREMENTS, AND THE MECHANICAL, ELECTRICAL AND PLUMBING SPECIFICATIONS. UTILITIES, WITHIN THIS AREA (10 FT FROM THE FOUNDATION WALL), ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES. REFER TO THE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR PIPE SIZES AND MATERIALS.
- ALL UNDERGROUND UTILITIES SHALL BE CONSIDERED APPROXIMATE. THEREFORE, PRIOR TO THE START OF ANY WORK ON THE SITE, THE CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION OF ALL UTILITIES, SHOWN OR NOT SHOWN ON THIS PLAN. CONTACT DIG-SAFE AT 1-888-344-7233 (1-888-DIG-SAFE) AT LEAST 72 HOURS PRIOR TO THE START OF EXCAVATION.
- CONTRACTOR TO ADJUST UTILITY ELEMENT MEANT TO BE FLUSH WITH GRADE (CLEAN-OUTS, UTILITY MANHOLES, CATCH BASINS, INLETS, ECT.) THAT ARE AFFECTED BY SITE WORK OR GRADE CHANGES, WHETHER SPECIFICALLY NOTED ON THE PLANS OR NOT.
- ALL WORK TO BE DONE WITHIN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO THE REQUIREMENTS AND SPECIFICATIONS OF THE CITY OF CRANSTON.
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE TAKEN FROM RECORD INFORMATION SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MAY BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UNDERGROUND UTILITIES.
- WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
- THE CONTRACTOR SHALL ALTER THE MASONRY OF THE TOP SECTION OF ALL EXISTING DRAINAGE STRUCTURES AS NECESSARY FOR CHANGES IN GRADE, AND RESET ALL WATER AND DRAINAGE FRAMES, GRATES, AND BOXES TO THE PROPOSED FINISH SURFACE GRADE.
- AREA OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION, AT NO ADDITIONAL COST TO THE OWNER.
- REFER TO MECHANICAL, ELECTRICAL AND PLUMBING PLANS FOR PROPOSED LOCATION OF UTILITY SERVICES AT BUILDING.
- THE LOCATION, SIZE, DEPTH, AND SPECIFICATIONS FOR CONSTRUCTION OF PRIVATE UTILITY SERVICES SHALL BE INSTALLED ACCORDING TO THE REQUIREMENTS PROVIDED BY, AND APPROVED BY, THE RESPECTIVE UTILITY COMPANY (GAS, TELEPHONE, ELECTRICAL). FINAL DESIGN AND LOCATIONS AT THE BUILDING WILL BE PROVIDED BY THE ARCHITECT. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE UTILITY CONNECTION WITH THE RESPECTIVE COMPANIES PRIOR TO ANY UTILITY CONSTRUCTION.
- ALL WORK MUST COMPLY WITH STATE AND LOCAL PERMITS, AS WELL AS RIDOT AND LOCAL REQUIREMENTS.
- REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL MATERIALS INFORMATION.
- THE CONTRACTOR SHALL VERIFY THE DEPTHS OF ALL UTILITIES WITHIN THE PROPOSED TRENCHES PRIOR TO ORDERING DRAINAGE STRUCTURES. NOTIFY THE DESIGNER OF ANY CONFLICT WITH THE DESIGN PLANS AND AN EXISTING UTILITY. THE DESIGNER RESERVES THE RIGHT TO REALIGN STRUCTURE AND PIPING LOCATIONS TO SUIT ACTUAL FIELD CONDITIONS ENCOUNTERED.
- THE CONTRACTOR SHALL PROTECT ALL UTILITIES WITHIN SITE AND PUBLIC WAYS NOT DESIGNATED TO BE REMOVED AND RELOCATED FROM DAMAGE AND UNDERMINING DURING EXCAVATION. THE CONTRACTOR SHALL REPLACE ITEMS DAMAGED DURING CONSTRUCTION DUE TO NEGLIGENCE, CARELESSNESS, OR MISHANDLING WITH NO COST TO THE OWNER.
- SOME EXISTING UTILITY SERVICE LINES MAY NOT BE SHOWN ON THIS PLAN THAT NEED TO BE REMOVED AND RELOCATED AND/OR REMOVED AND DISPOSED TO ALLOW FOR THE PROPOSED SITE CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH UTILITY OWNERS AND TO VERIFY, LOCATE, AND DISCONNECT/RELOCATE SUCH LINES.
- UTILITIES TO BE ABANDONED MAY BE REMOVED AT THE CONTRACTOR'S DISCRETION. ENDS OF ABANDONED PIPES TO REMAIN SHALL BE CUT AND CAPPED/PLUGGED. ABANDONED UTILITIES OVER 12" IN DIAMETER SHALL BE FILLED WITH FLOWABLE FILL IF TO REMAIN IN PLACE.
- REFER TO LANDSCAPE PLANS AND SPECIFICATIONS FOR ADDITIONAL CONSTRUCTION REQUIREMENTS.

NOTES

1. REFER TO NOTES ON SHEET C1.00 FOR ADDITIONAL REQUIREMENTS.
2. REFER TO LANDSCAPE DEMOLITION PLAN FOR REMOVAL OR PROTECTION OF TREES AND SURFACE ELEMENTS.
3. DRAINAGE INLET STRUCTURE SHALL BE REMOVED TO A MINIMUM DEPTH OF 1' BELOW FINISHED GRADE AND MODIFIED WITH A MANHOLE FRAME AND COVER TO BE LEFT BURIED.
4. ALL EXISTING UTILITY FRAMES, COVERS AND/OR GRATES WITHIN PROJECT LIMITS ARE TO BE ADJUSTED TO PROPOSED FINISHED GRADE UNLESS OTHERWISE NOTED.

LEGEND

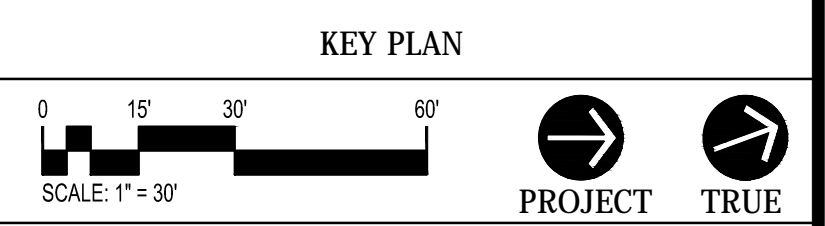
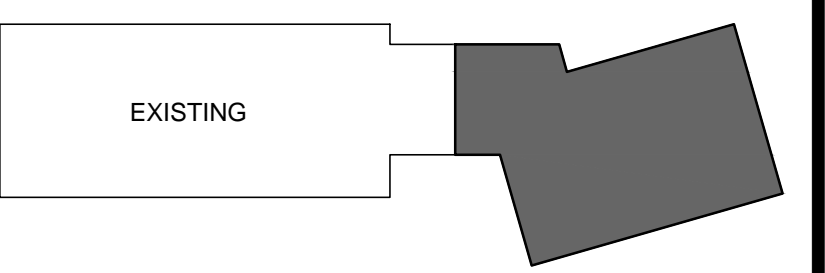
- PROPERTY LINE
- - - LIMIT OF DISTURBANCE
- SETBACK LINE
- ○ ○ SILT FENCE AND COMPOST FILTER TUBE
- - - - - LIMIT OF WORK LINE
- DRAINAGE INLET PROTECTION



ISSUE DATE	
DATE	DESCRIPTION
JUNE 13, 2022	ISSUED FOR BID
OCTOBER 13, 2022	RIDEM RPD REVISIONS

REVISIONS	
DATE	DESCRIPTION

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**ACHIEVEMENT
FIRST ILLUMINAR
SCHOOL ADDITION**

85 GARFIELD AVE, CRANSTON, RI, 02920

PROJECT NO.: 21012.02 DRAWN BY: BV

**SITE
PREPARATION
AND EROSION
CONTROL**

DRAWING NO.:

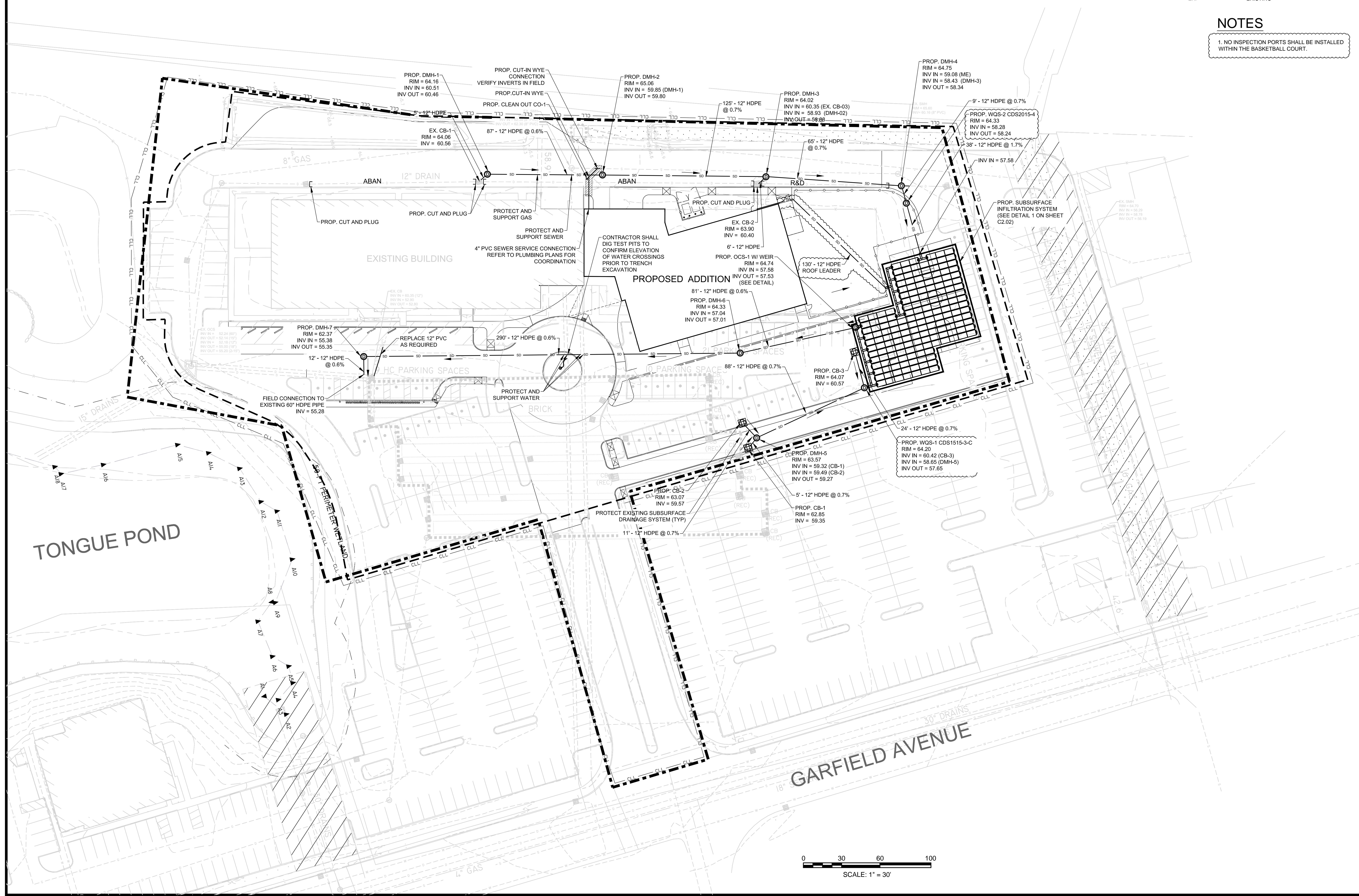
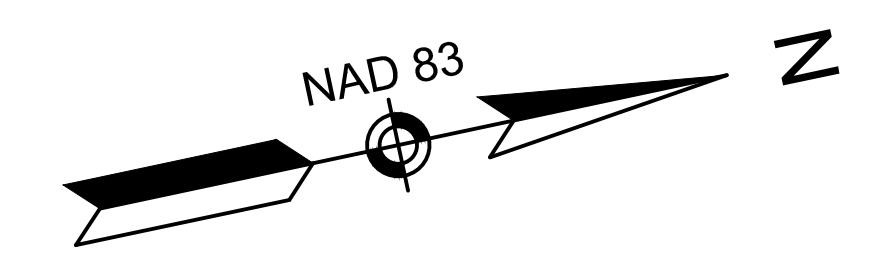
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LEGEND

- PROPERTY LINE
- LIMIT OF DISTURBANCE
- SETBACK LINE
- CLL --- CONTRACT LIMIT LINE
- SD --- PROPOSED STORM DRAIN PIPE
- SS --- PROPOSED SANITARY SEWER PIPE
- ⊙ --- PROPOSED DRAIN MAINHOLE
- ⊙ --- PROPOSED CATCH BASIN
- --- PROPOSED CLEAN-OUT
- ABAN --- ABANDON
- OCS --- OUTLET CONTROL STRUCTURE
- WQS --- WATER QUALITY STRUCTURE
- PROP. --- PROPOSED
- EX. --- EXISTING

NOTES

1. NO INSPECTION PORTS SHALL BE INSTALLED WITHIN THE BASKETBALL COURT.



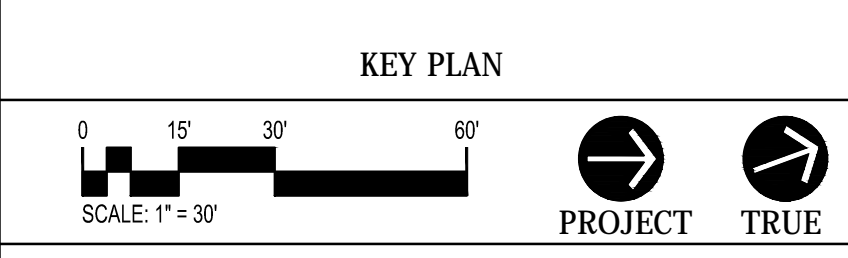
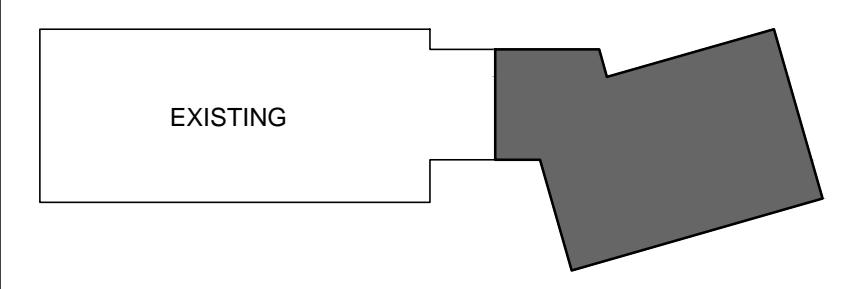
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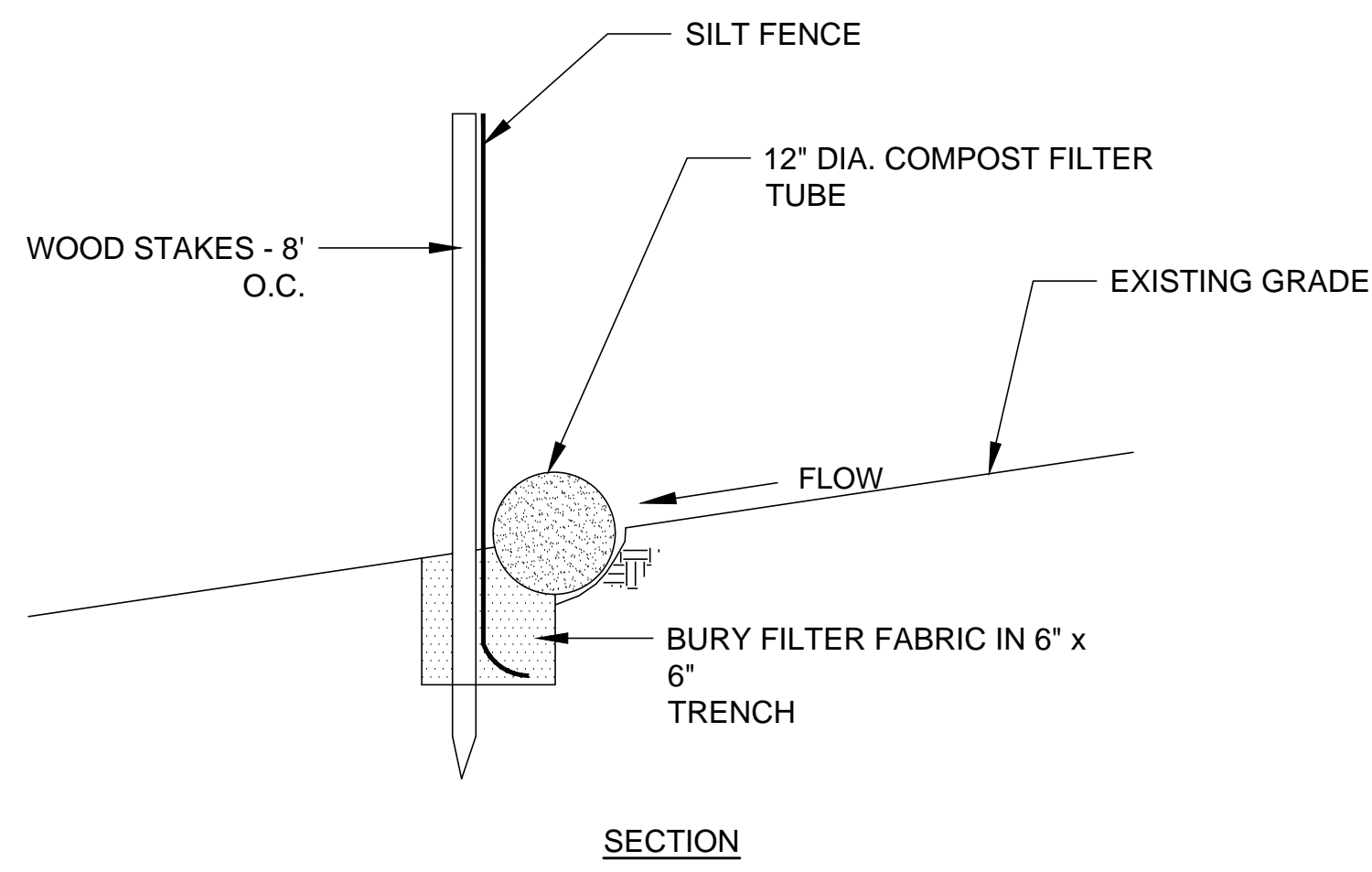
**ACHIEVEMENT
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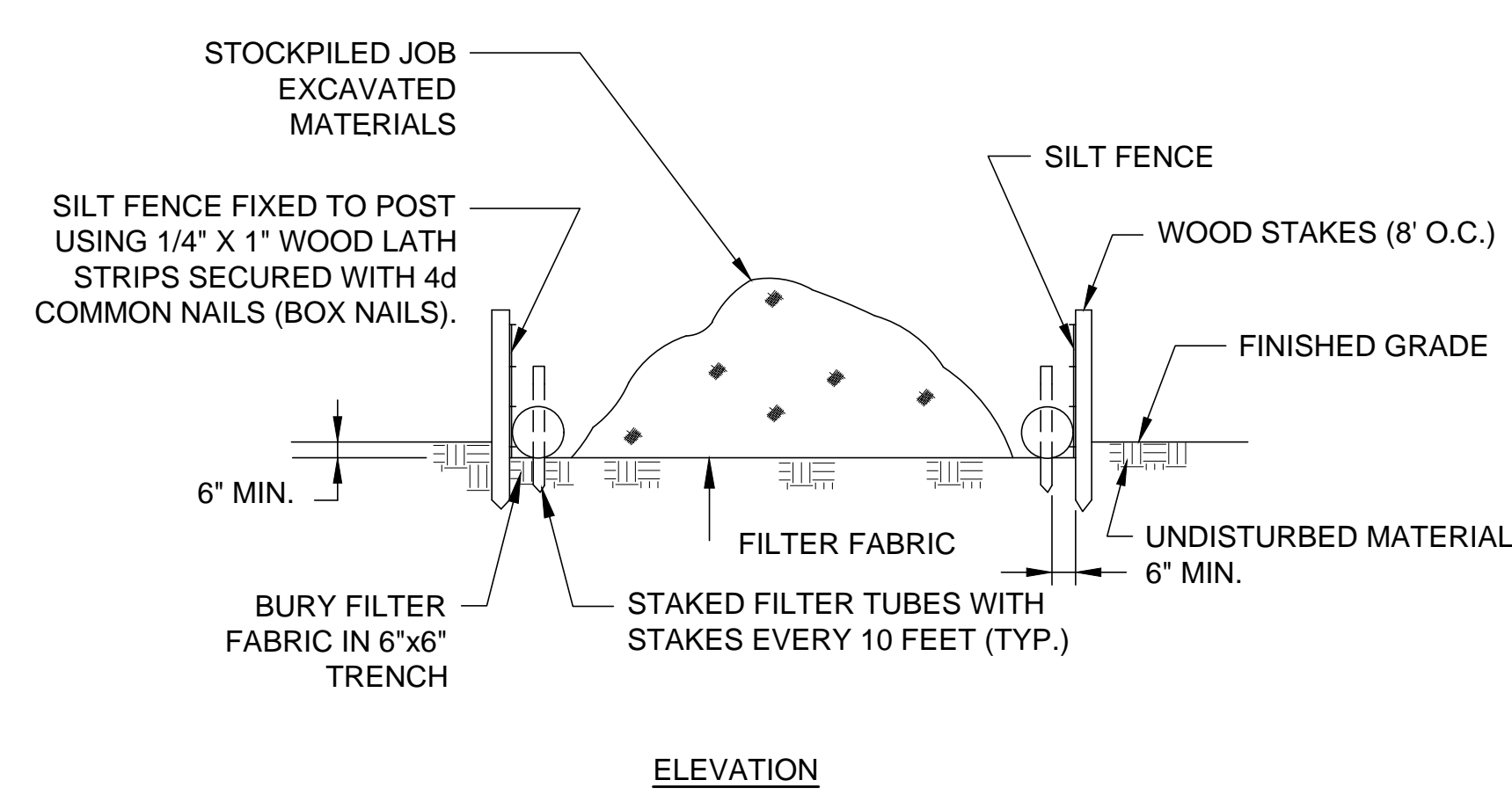
PROJECT NO.: 21012.02 DRAWN BY: BV

**SITE UTILITIES
AND DRAINAGE
PLAN**

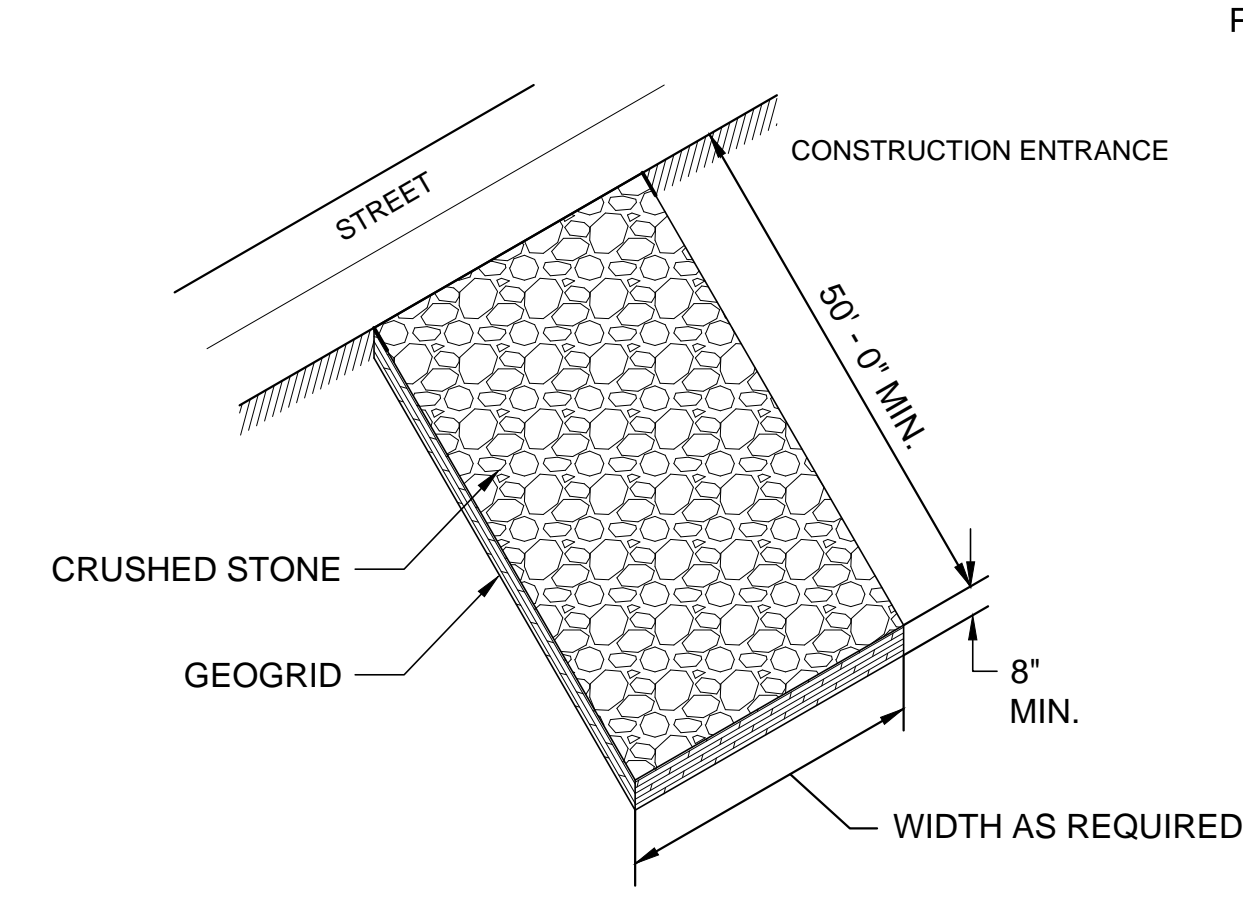




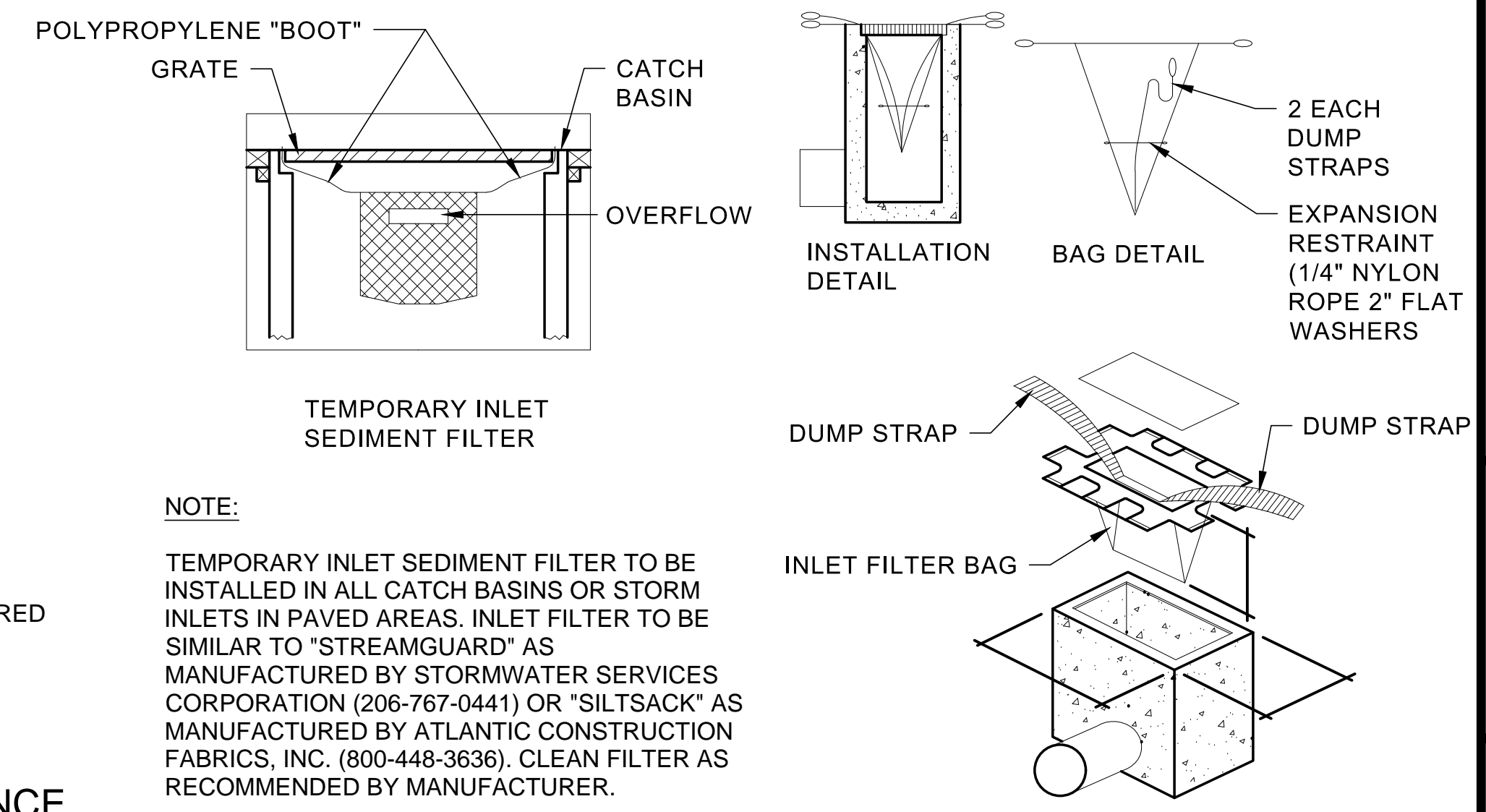
1 COMPOST FILTER TUBE / SILT FENCE
NOT TO SCALE



2 STOCKPILED MATERIAL
NOT TO SCALE

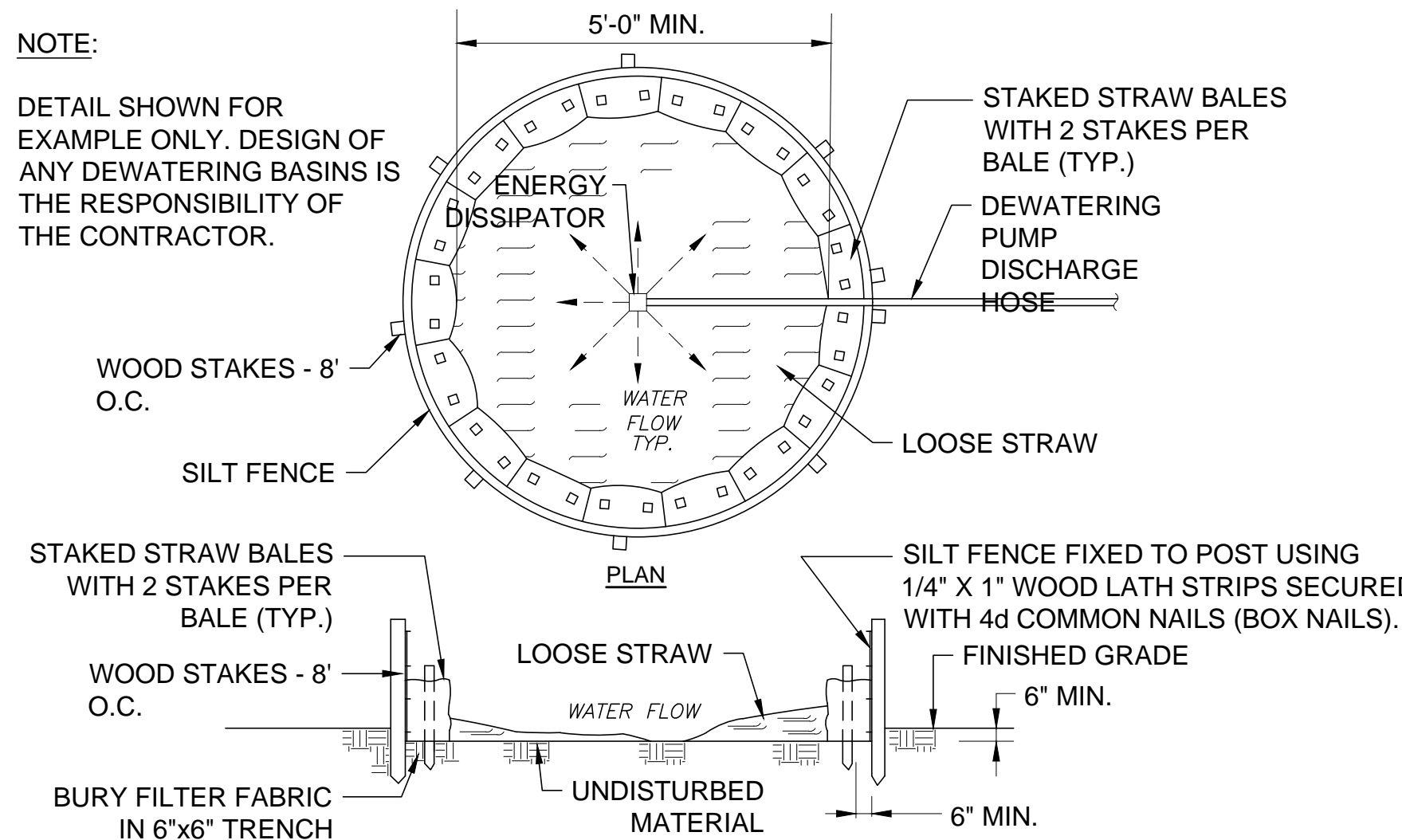


3 TEMPORARY CONSTRUCTION ENTRANCE
NOT TO SCALE

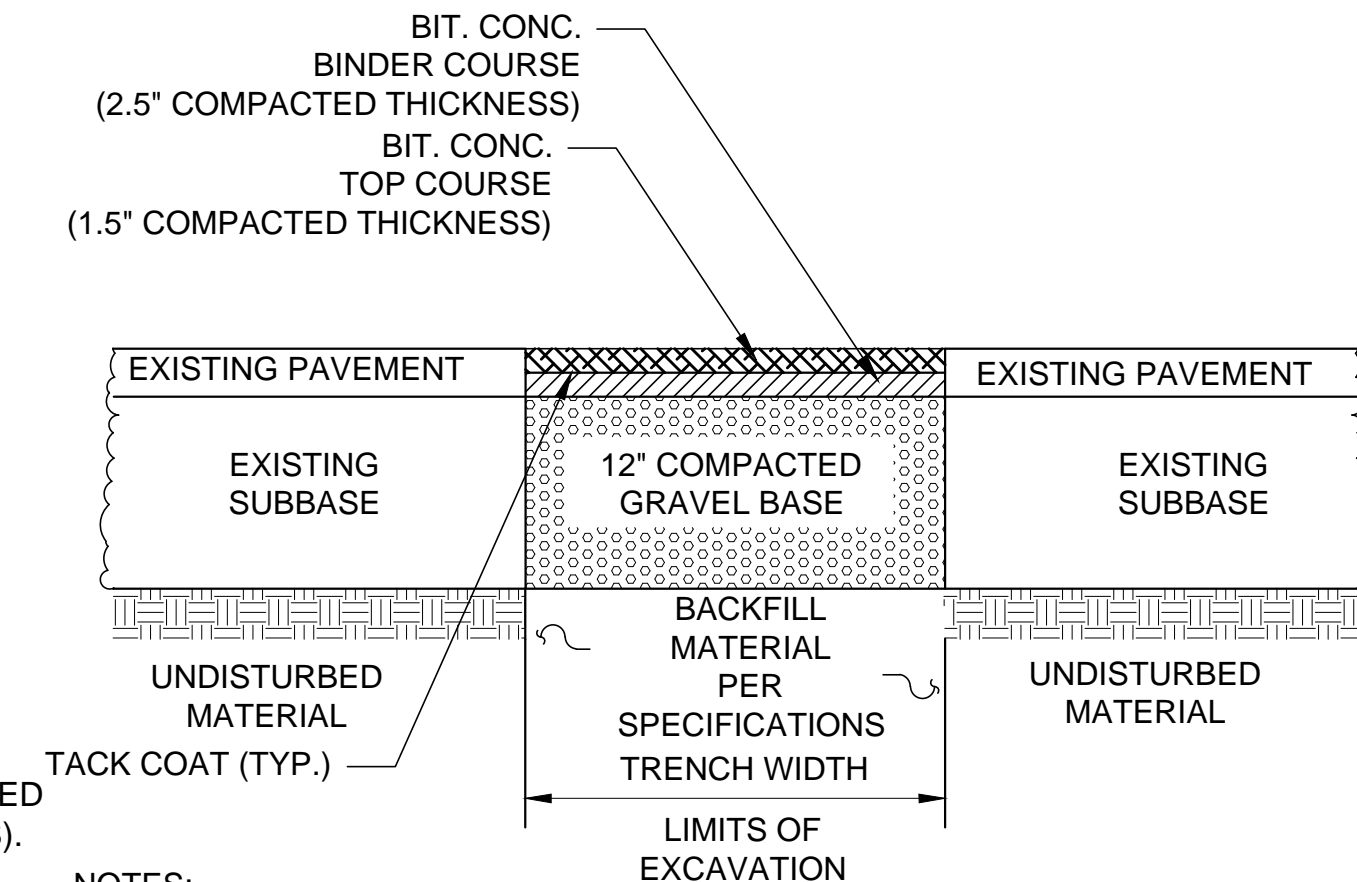


NOTE:
TEMPORARY INLET SEDIMENT FILTER TO BE INSTALLED IN ALL CATCH BASINS OR STORM INLETS IN PAVED AREAS. INLET FILTER TO BE SIMILAR TO \"STREAMGUARD\" AS MANUFACTURED BY STORMWATER SERVICES CORPORATION (206-767-0441) OR \"SILTSACK\" AS MANUFACTURED BY ATLANTIC CONSTRUCTION FABRICS, INC. (800-448-3636). CLEAN FILTER AS RECOMMENDED BY MANUFACTURER.

4 TEMPORARY INLET SEDIMENT FILTER
NOT TO SCALE

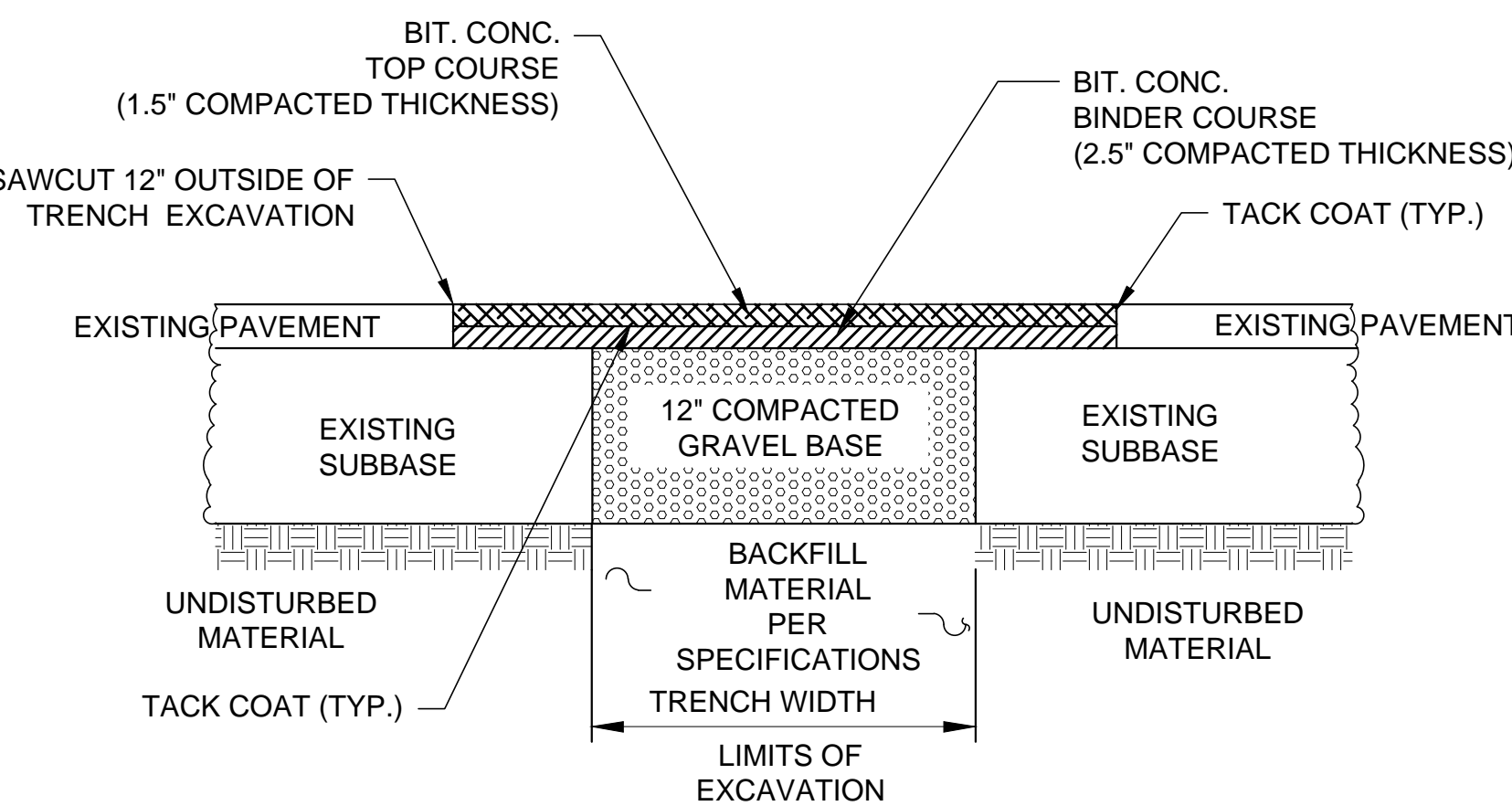


5 DEWATERING BASIN
NOT TO SCALE



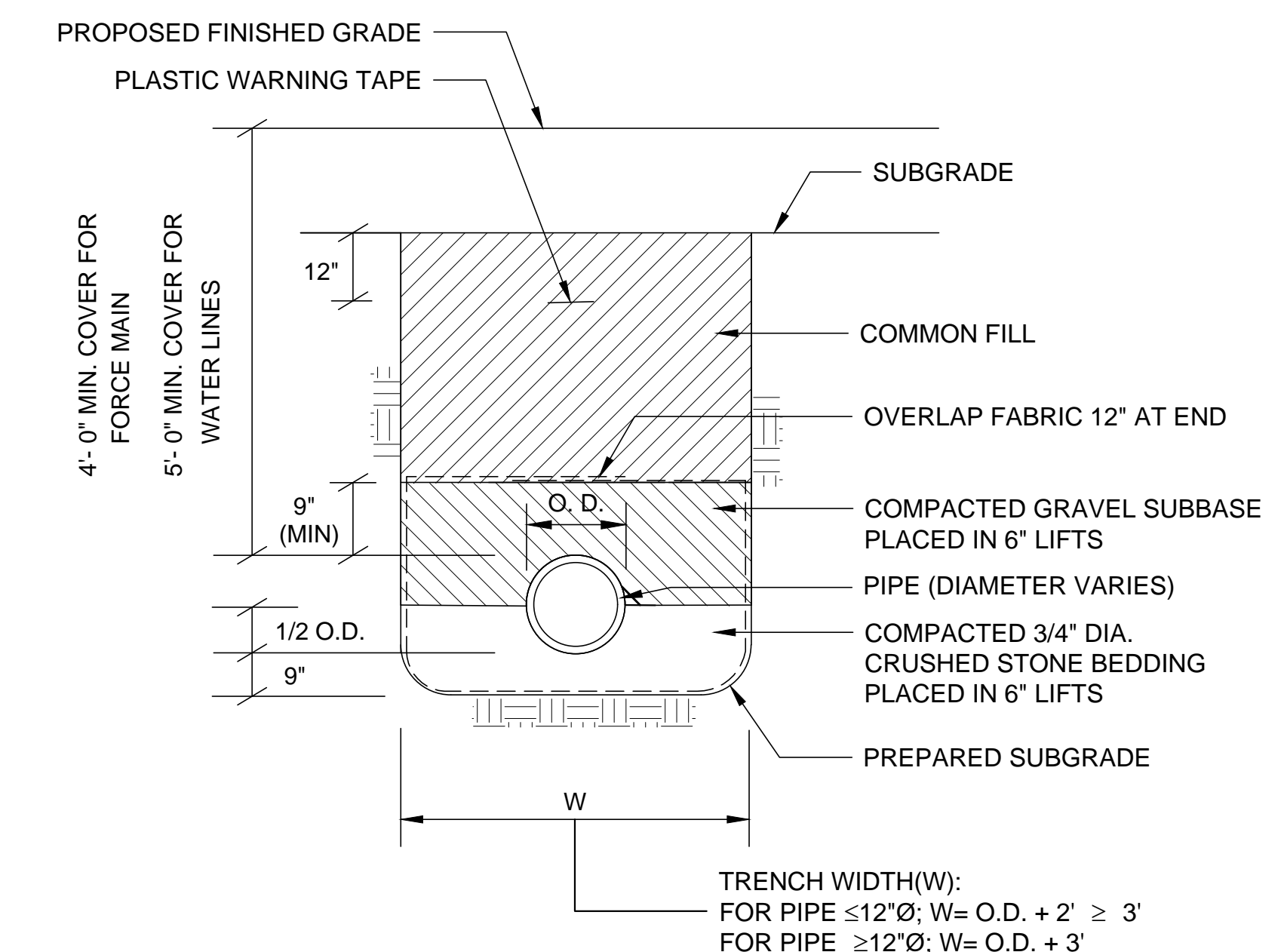
- NOTES:
1. THE CONTRACTOR SHALL MAINTAIN TEMPORARY PAVEMENT FOR A MINIMUM OF 60 DAYS.
 2. IF TEMPORARY PAVEMENT IS PLACED AFTER OCTOBER 1ST, THEN IT SHALL BE MAINTAINED UNTIL APRIL 15 OF THE FOLLOWING YEAR.
 3. CONTRACTOR SHALL MATCH EXISTING ROADWAY GRADES.

6 TEMPORARY TRENCH PAVEMENT
NOT TO SCALE



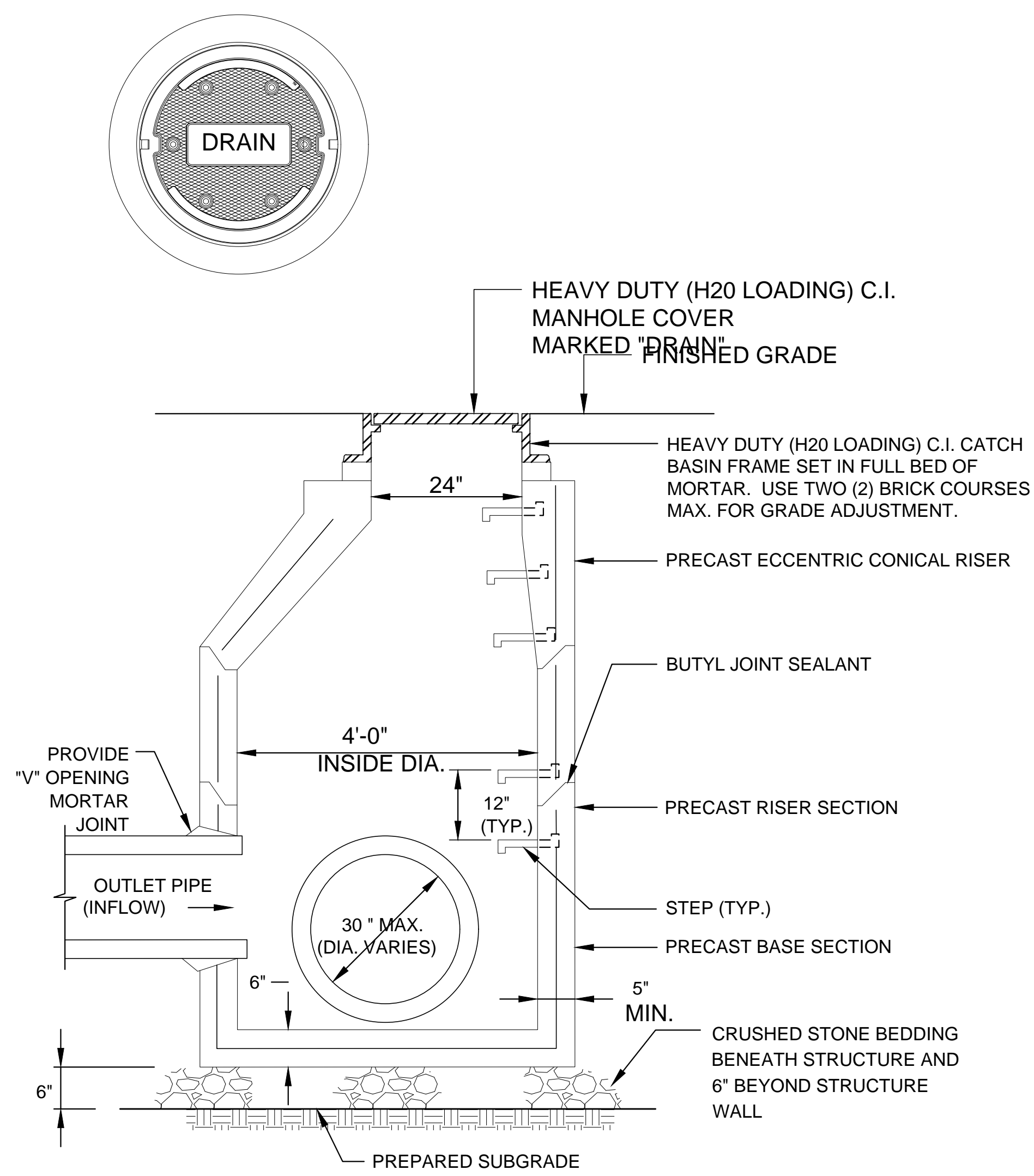
- NOTES:
1. PERMANENT PAVEMENT SHALL BE PLACED BETWEEN APRIL 15 AND DECEMBER 1 OF EACH CALENDAR YEAR.
 2. THE CONTRACTOR SHALL SAWCUT 12-INCHES OUTSIDE OF TRENCH EXCAVATION. TEMPORARY PAVEMENT SHALL BE REMOVED AND DISPOSED OF. THE GRAVEL BASE SHALL BE FINE GRADED, TACK COAT PLACED ON ALL JOINTS, AND PERMANENT PAVEMENT PLACED IN TWO COURSES.
 3. CONTRACTOR SHALL MATCH EXISTING ROADWAY GRADES.

7 PERMANENT TRENCH PAVEMENT
NOT TO SCALE



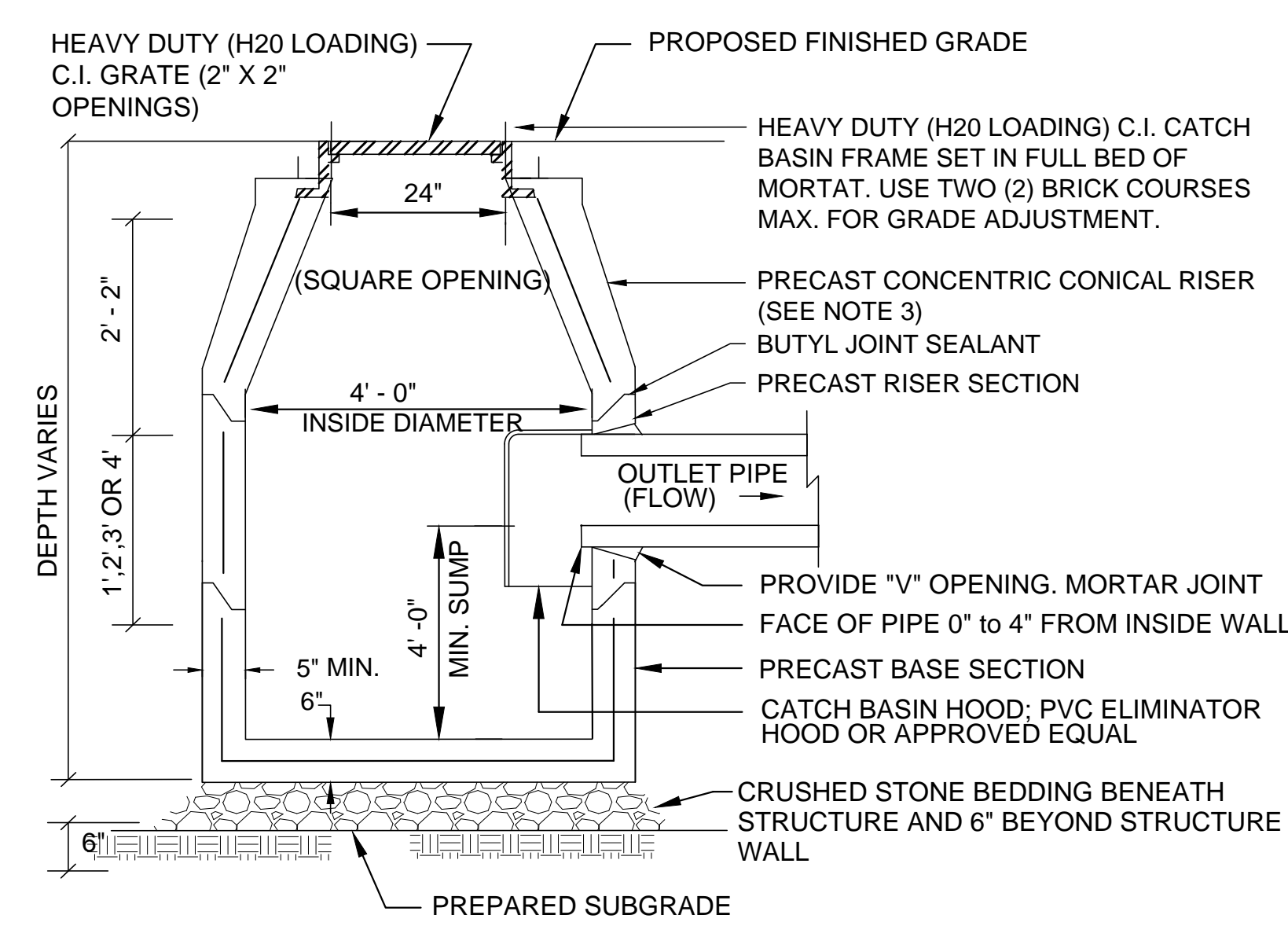
- TRENCH EXCAVATION AND BACKFILLING:
1. EXCAVATE TRENCH BOTTOMS AS INDICATED. REMOVE STONES AND SHARP OBJECTS TO AVOID POINT LOADING. PLACE CRUSHED STONE PIPE BEDDING AS INDICATED.
 2. PLACE AND COMPACT INITIAL BACKFILL OF SAND-GRAVEL MATERIAL, FREE OF PARTICLES GREATER THAN 1 INCH, TO A HEIGHT OF 12\"/>

8 TYPICAL PIPE TRENCH
NOT TO SCALE



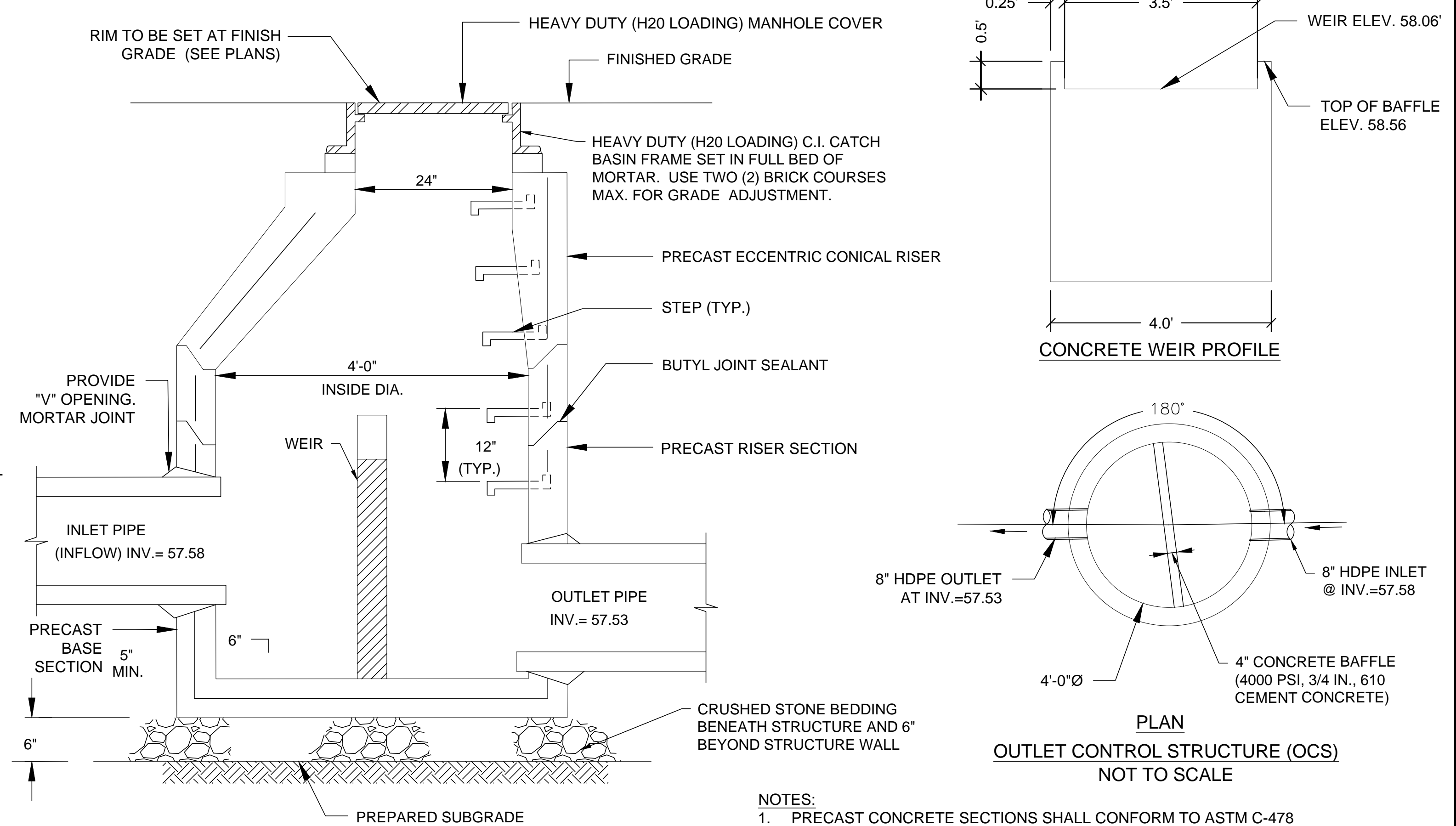
- NOTES:
1. PRECAST CONCRETE SECTIONS SHALL CONFORM TO ASTM C-478
 2. STEEL REINFORCING SHALL CONFORM TO ASTM A185
 3. MANHOLE STEPS SHALL BE 14\"/>

9 TYPICAL PRECAST CONCRETE DRAIN MANHOLE
NOT TO SCALE



- NOTES:
1. PRECAST CONCRETE SECTIONS SHALL CONFORM TO ASTM C-478
 2. STEEL REINFORCING SHALL CONFORM TO ASTM A185
 3. USE FLAT TOP SLAB WHEN PIPE(S) COVER IS LESS THAN 2 FT.

10 TYPICAL PRECAST CATCH BASIN
NOT TO SCALE



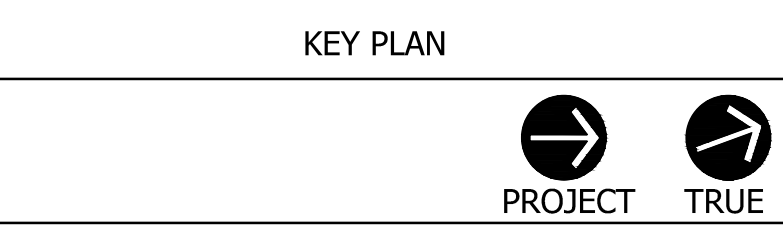
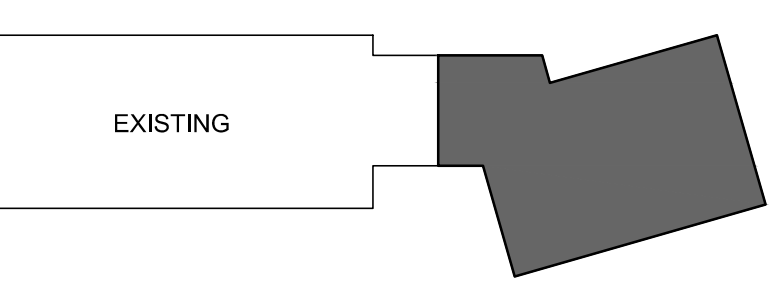
- NOTES:
1. PRECAST CONCRETE SECTIONS SHALL CONFORM TO ASTM C-478
 2. STEEL REINFORCING SHALL CONFORM TO ASTM A185
 3. MANHOLE STEPS SHALL BE 14\"/>

11 TYPICAL OUTLET CONTROL STRUCTURE (OCS-1)
NOT TO SCALE

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ACHIEVEMENT FIRST LUMINAR SCHOOL ADDITION

85 GARFIELD AVE, CRANSTON, RI, 02920

PROJECT NO.: 21012.02 DRAWN BY:

SITE DETAILS I

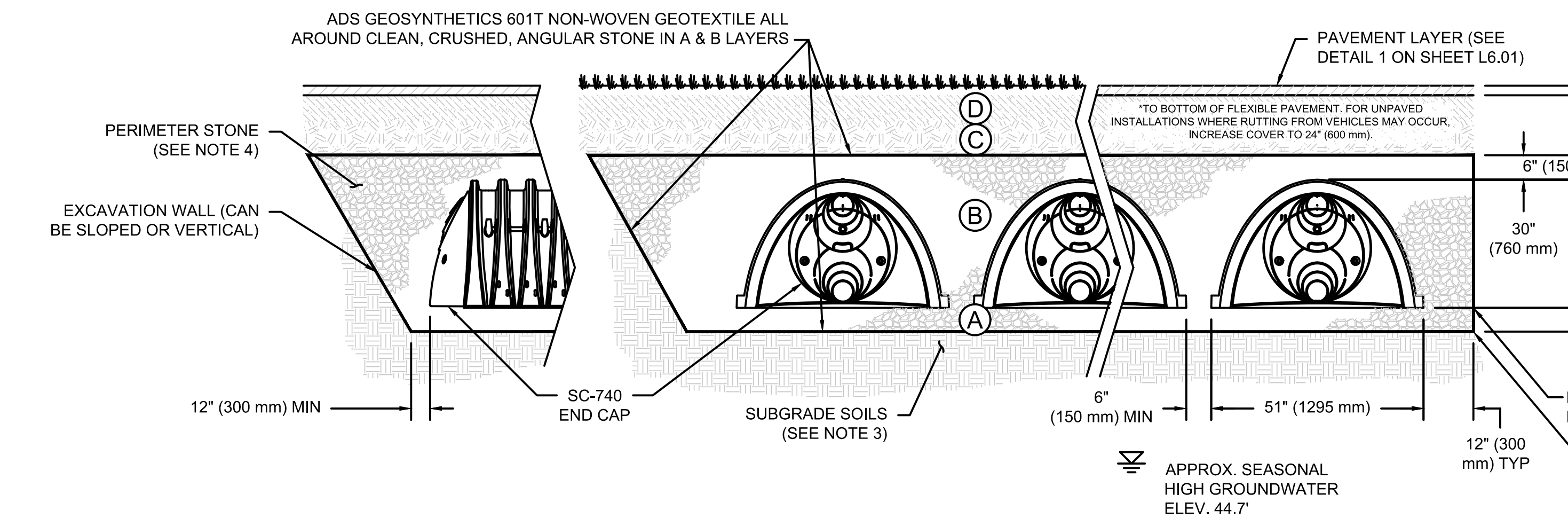
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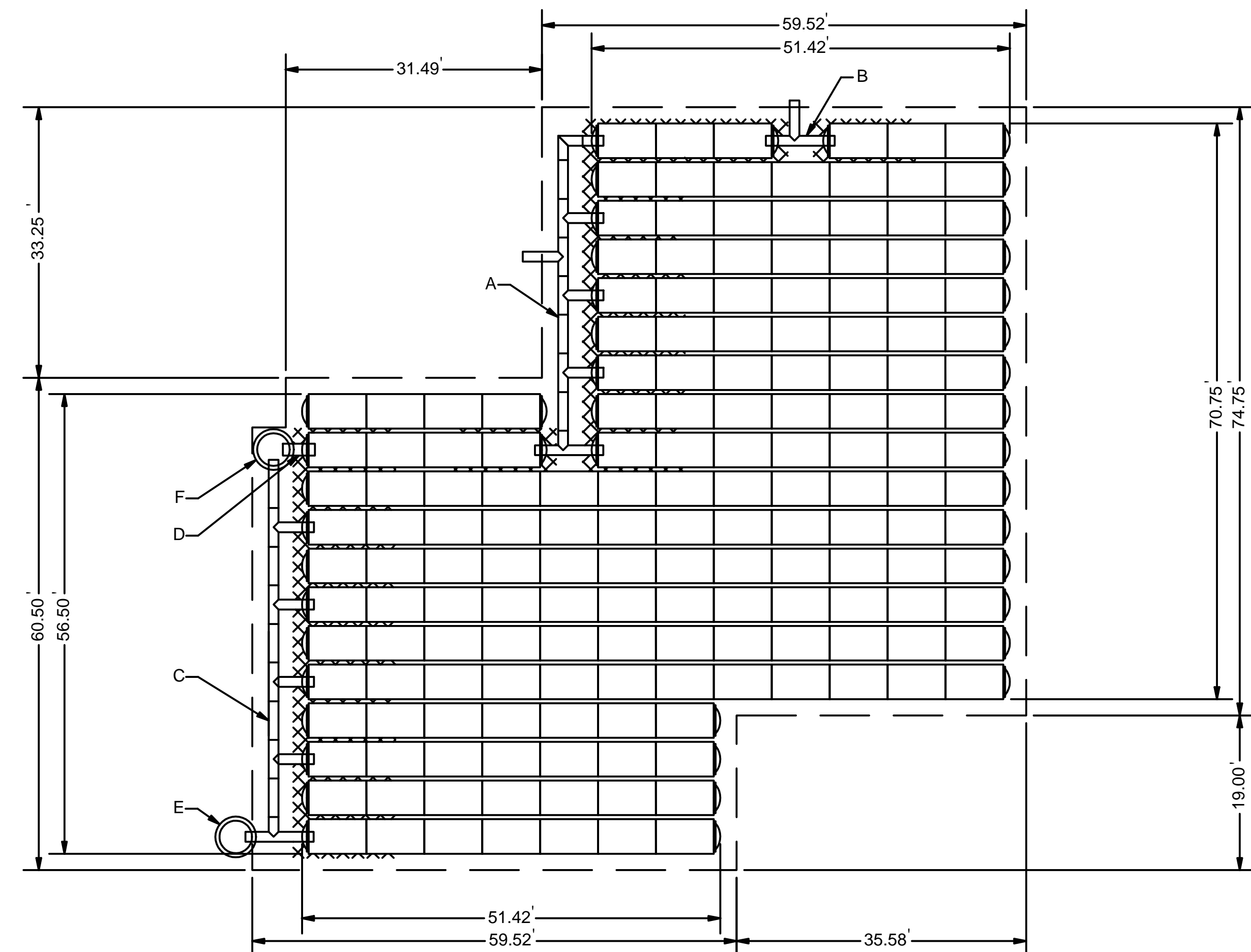
ACCEPTABLE FILL MATERIALS: CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

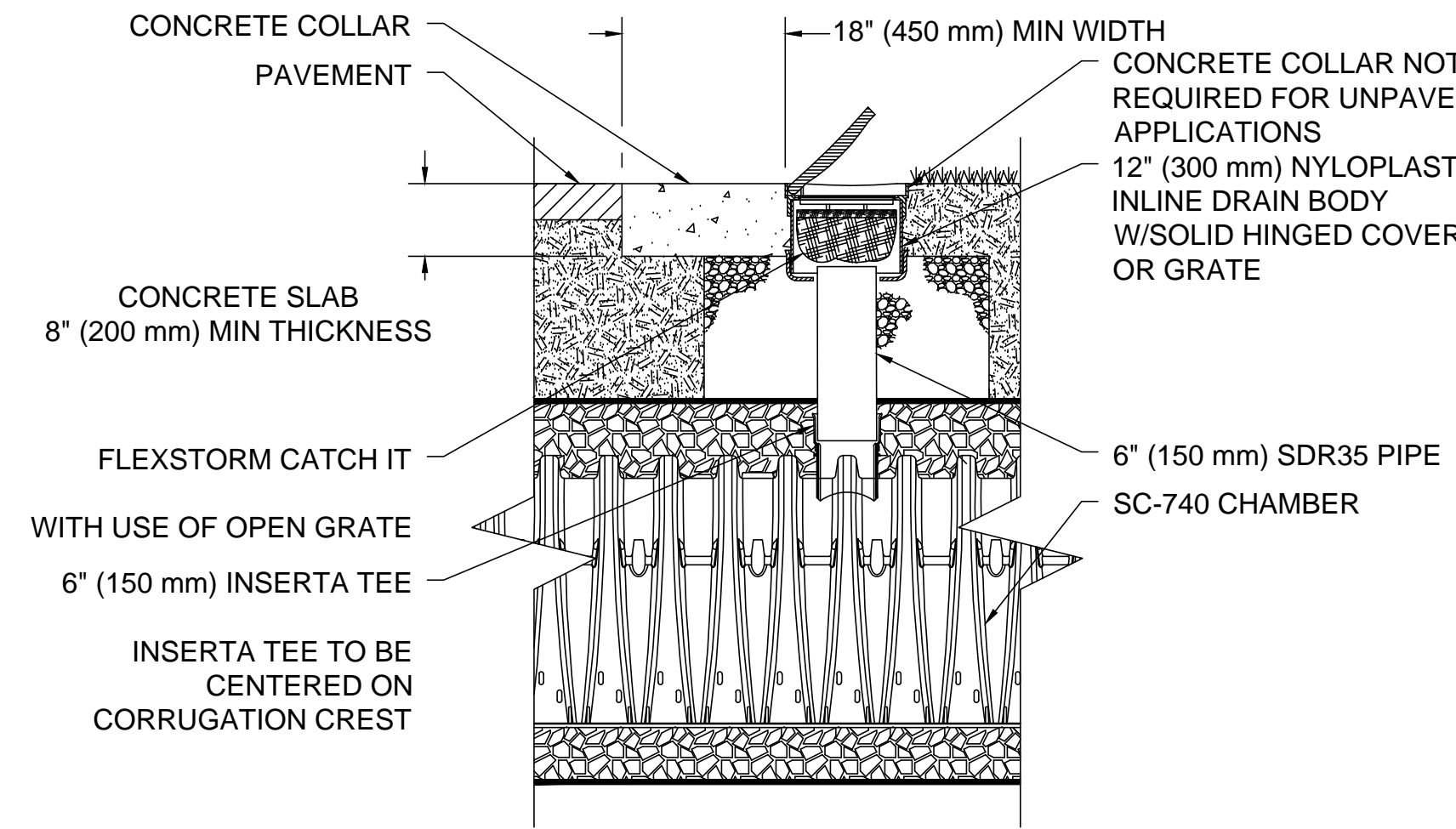
PLEASE NOTE:
 1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
 2. COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
 3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT MANUFACTURER FOR COMPACTION REQUIREMENTS.



PROPOSED LAYOUT	PROPOSED ELEVATIONS	
170' STORMTECH SC-740 CHAMBERS	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	68.08
24' STORMTECH SC-740 END CAPS	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	67.88
4' STONE ABOVE (m)	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	67.88
12' STONE BELOW (m)	MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT):	61.88
30' STONE VOID	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	61.88
INSTALLED SYSTEM VOLUME (CF)	TOP OF STONE:	60.88
PERIMETER STONE INCLUDED	TOP OF SC-740 CHAMBER:	60.08
COVER STONE (ONE INCLUDED)	TOP BOTTOM CONNECTION INVERT:	57.88
700' SYSTEM AREA (SF)	12" x 12" BOTTOM MANIFOLD INVERT:	57.88
377' SYSTEM PERIMETER (m)	BOTTOM OF STONE:	56.88



1 SUBSURFACE STORAGE SYSTEM
NOT TO SCALE



STORAGE CHAMBER 6" INSPECTION PORT DETAIL
NTS

NOTES:

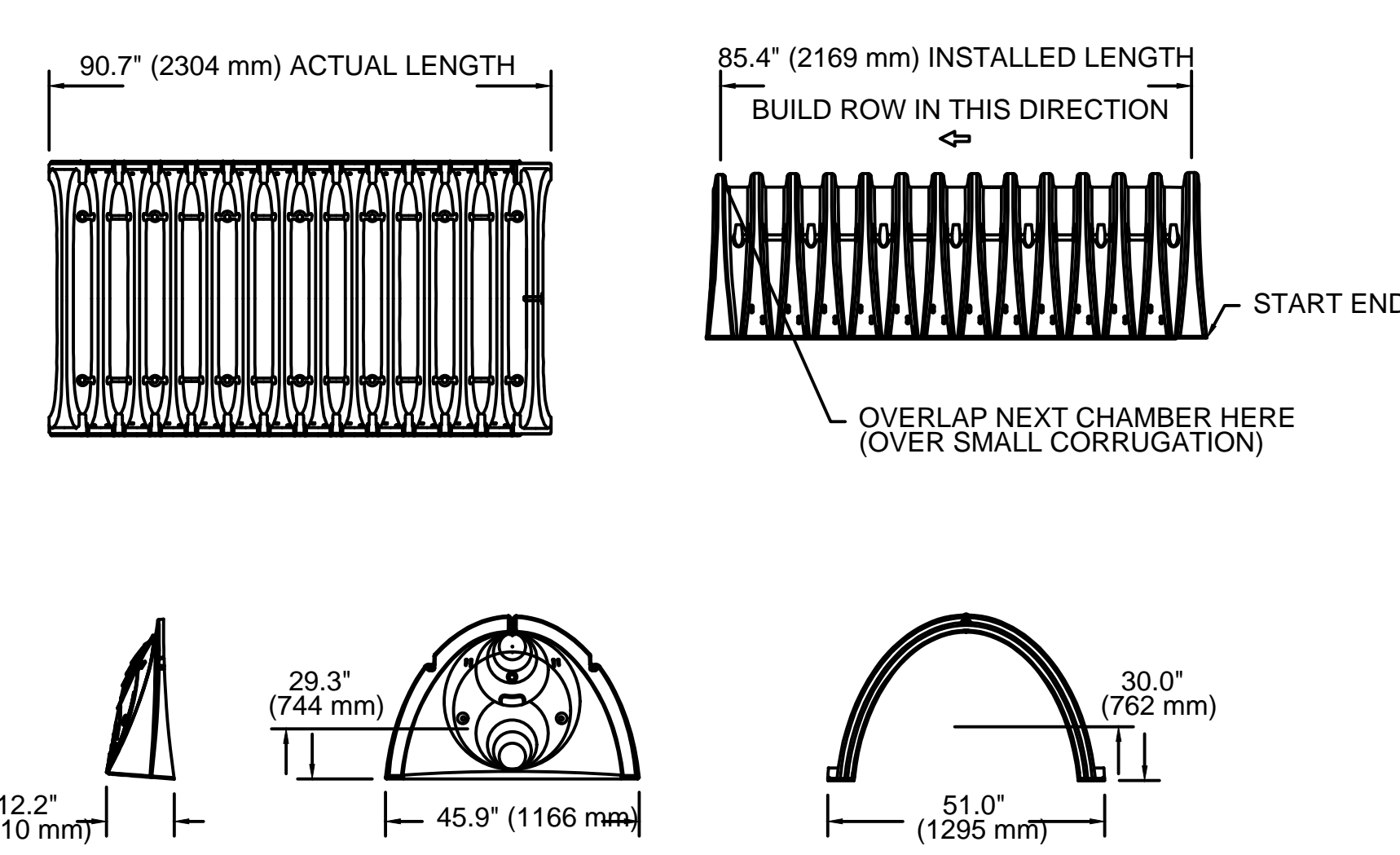
- STORAGE CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- STORAGE CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

PART TYPE	ITEM ON LAYOUT	DESCRIPTION	INVERT	MAX FLOW
MANIFOLD	A	12" x 12" BOTTOM MANIFOLD	1.20'	7.3 CFS IN
MANIFOLD	B	12" x 12" BOTTOM MANIFOLD	1.20'	4.8 CFS IN
MANIFOLD	C	12" x 12" BOTTOM MANIFOLD	1.20'	4.8 CFS IN
PIPE CONNECTION	D	15" BOTTOM CONNECTION	1.3'	10.1 CFS IN
CONCRETE STRUCTURE	E	DESIGN BY ENGINEER / PROVIDED BY OTHERS		4.7 CFS OUT
CONCRETE STRUCTURE	F	0.65-1 PER PLAN		

SC-740 STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH SC-740.
- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 550 LBS/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
 - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
 - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
 - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.

SC-740 TECHNICAL SPECIFICATION
NTS



NOMINAL CHAMBER SPECIFICATIONS	51.0" X 30.0" X 85.4"	(1295 mm X 762 mm X 2169 mm)
SIZE (W X H X INSTALLED LENGTH)	45.9 CUBIC FEET	(1.30 m ³)
CHAMBER STORAGE	74.9 CUBIC FEET	(2.12 m ³)
MINIMUM INSTALLED STORAGE*	75.0 lbs.	(33.6 kg)
WEIGHT	*ASSUMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS	

PRE-FAB STUB AT BOTTOM OF END CAP WITH FLAMP END WITH "BR"
 PRE-FAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
 PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
 PRE-CORED END CAPS END WITH "PC"

PART #	STUB	A	B	C
SC740EPE06T / SC740EPE06TPC	6" (150 mm)	10.9" (277 mm)	18.5" (470 mm)	---
SC740EPE06B / SC740EPE06BPC	8" (200 mm)	12.2" (310 mm)	16.5" (419 mm)	0.5" (13 mm)
SC740EPE08T / SC740EPE08TPC	10" (250 mm)	13.4" (340 mm)	14.5" (368 mm)	0.6" (15 mm)
SC740EPE08B / SC740EPE08BPC	12" (300 mm)	14.7" (373 mm)	14.5" (368 mm)	0.7" (18 mm)
SC740EPE10T / SC740EPE10TPC	15" (375 mm)	18.4" (467 mm)	12.5" (318 mm)	---
SC740EPE10B / SC740EPE10BPC	18" (450 mm)	19.7" (500 mm)	9.0" (229 mm)	---
SC740EPE12T / SC740EPE12TPC	24" (600 mm)	18.5" (470 mm)	5.0" (127 mm)	---
SC740EPE12B / SC740EPE12BPC	24" (600 mm)	18.5" (470 mm)	---	1.2" (30 mm)
SC740EPE15T / SC740EPE15TPC	24" (600 mm)	18.5" (470 mm)	---	1.3" (33 mm)
SC740EPE15B / SC740EPE15BPC	24" (600 mm)	18.5" (470 mm)	---	---
SC740EPE18T / SC740EPE18TPC	24" (600 mm)	18.5" (470 mm)	---	---
SC740EPE18B / SC740EPE18BPC	24" (600 mm)	18.5" (470 mm)	---	1.6" (41 mm)
SC740EPE24B*	24" (600 mm)	18.5" (470 mm)	---	0.1" (3 mm)
SC740EPE24BR*	24" (600 mm)	18.5" (470 mm)	---	0.1" (3 mm)

ALL STUBS, EXCEPT FOR THE SC740EPE24B/SC740EPE24BR ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

* FOR THE SC740EPE24B/SC740EPE24BR THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL. NOTE: ALL DIMENSIONS ARE NOMINAL

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-740 SYSTEM

- STORMTECH SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
 - STONESHOOTER LOCATED OFF THE CHAMBER BED.
 - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
 - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm).
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

- STORMTECH SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- THE USE OF CONSTRUCTION EQUIPMENT OVER SC-740 CHAMBERS IS LIMITED:
 - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 - NO RUBBER TIRE LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

INSTALLATION NOTE

- NO INSTALLATION PORTS SHALL BE INSTALLED WITHIN THE BASKETBALL COURT.

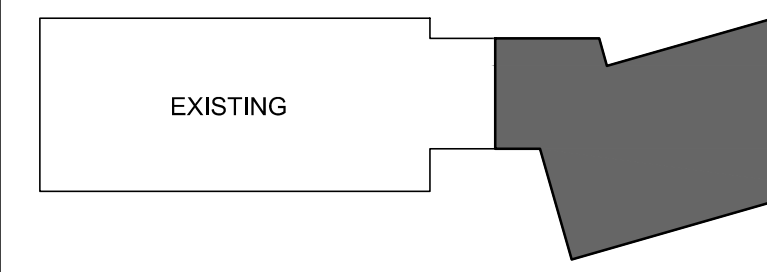
16 Chestnut Street, Suite 301, Foxborough, MA 02035
 Phone: 508-549-9906 Fax: 508-549-9907
 416 Stater Road, P.O. Box 2590, New Britain, CT 06050-2590
 Phone: 860-229-0361 Fax: 860-229-5303
 Additional offices located in Massachusetts and Rhode Island
 Email: kba@kba-architects.com Web: www.kba-architects.com

Project Consultant
GREEN INTERNATIONAL AFFILIATES, INC.
 Civil and Structural Engineers
 100 Ames Pond Drive, Tewksbury, MA 01876
 GreenIntl.com (978) 923-0400

DATE	DESCRIPTION
JUNE 13, 2022	ISSUED FOR BID

DATE	DESCRIPTION

FOR ALL ABBREVIATIONS, SYMBOL LEGENDS, AND GENERAL NOTES SEE SHEET R0.01



KEY PLAN
 PROJECT TRUE

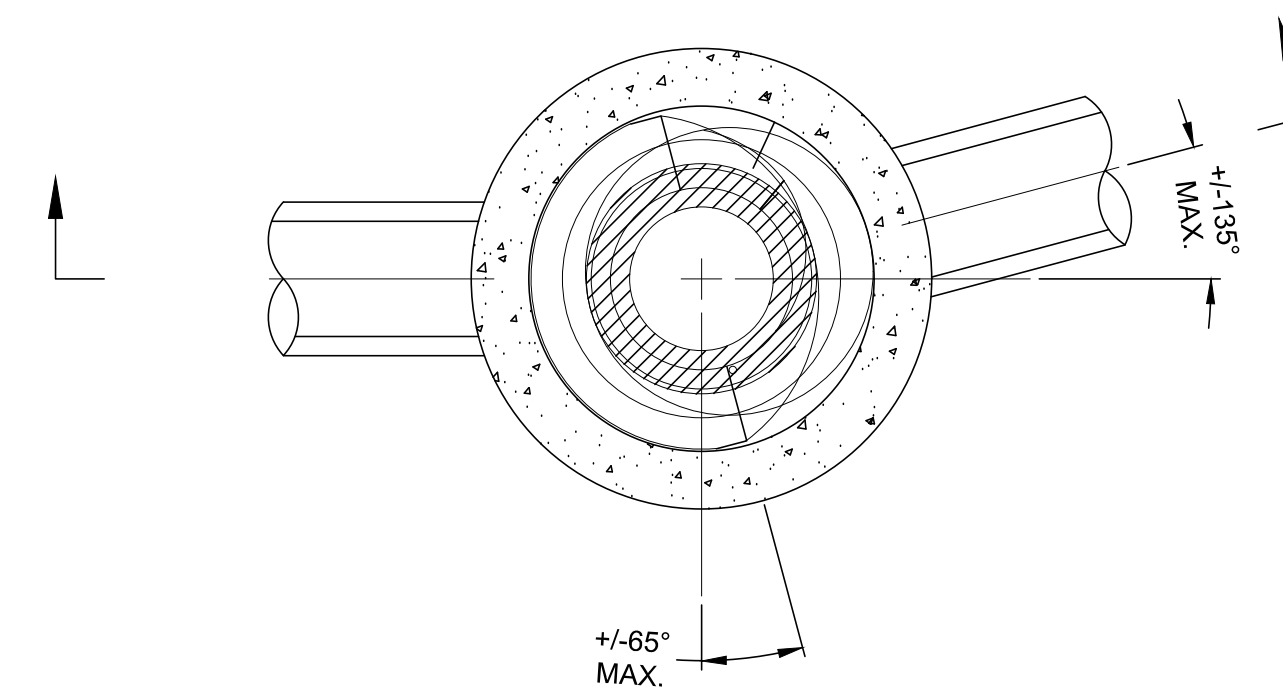


85 GARFIELD AVE, CRANSTON, RI, 02920

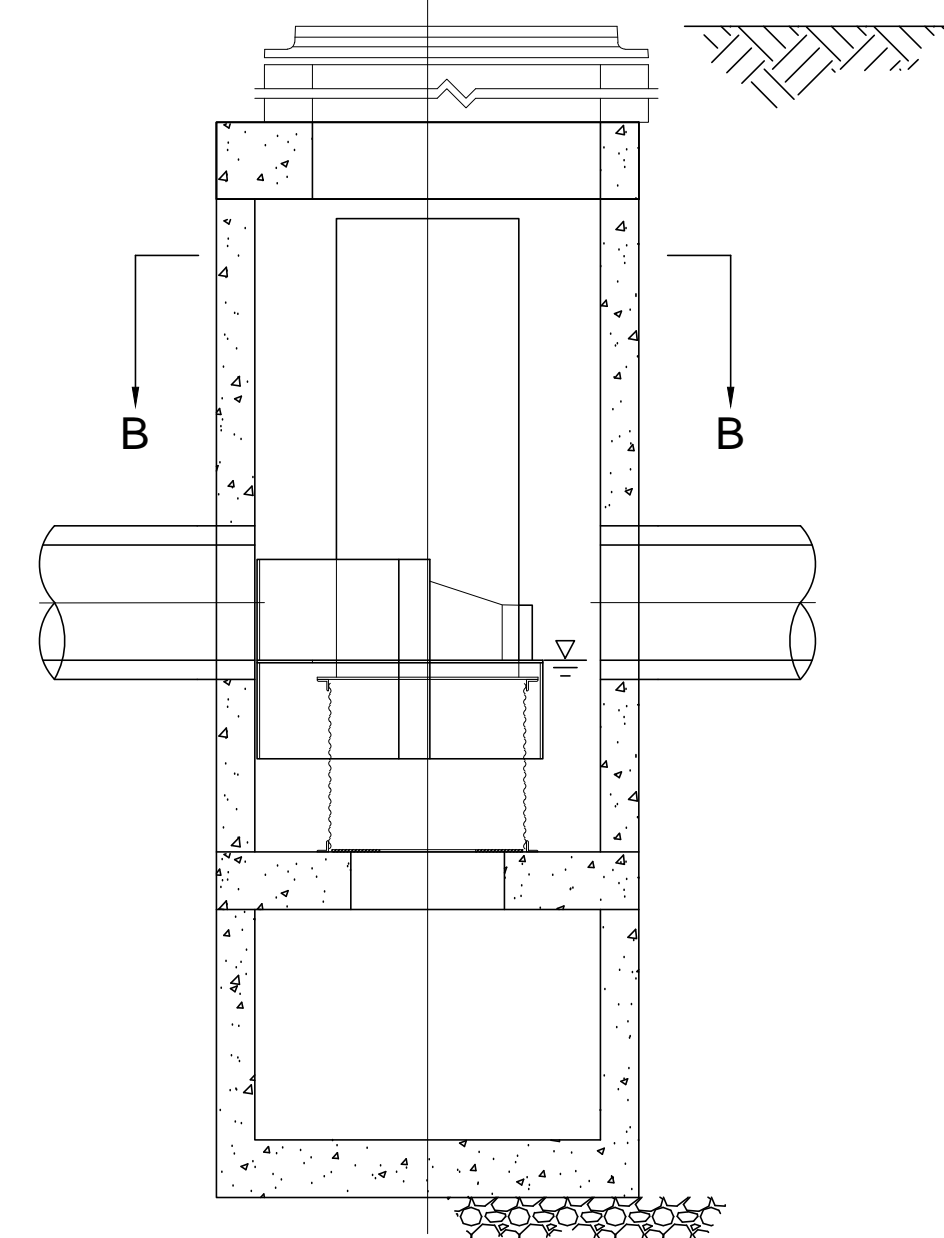
PROJECT NO.: 21012.02 DRAWN BY:

SITE DETAILS II

DRAWING NO.: **C2.02**

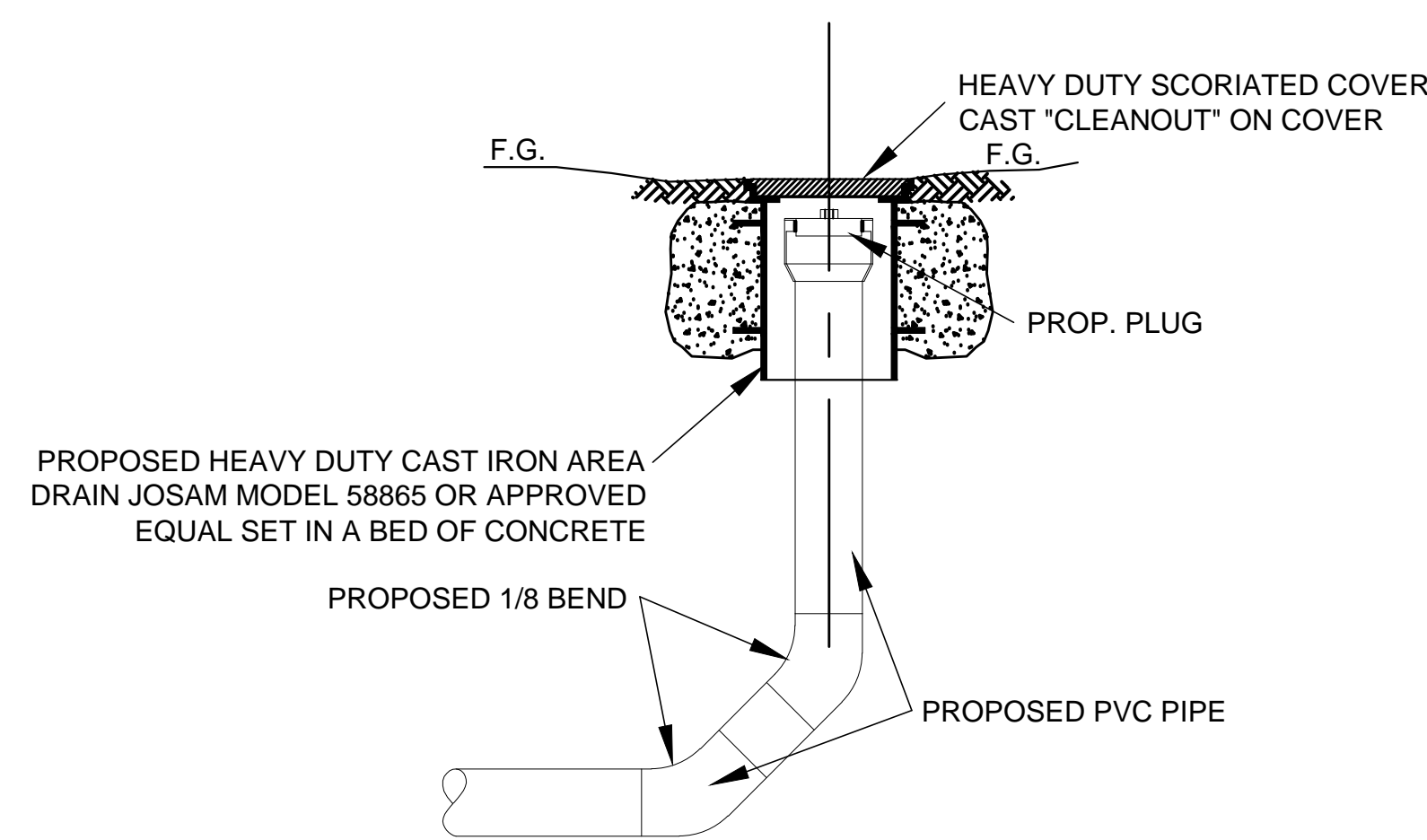


PLAN VIEW B-B
N.T.S.

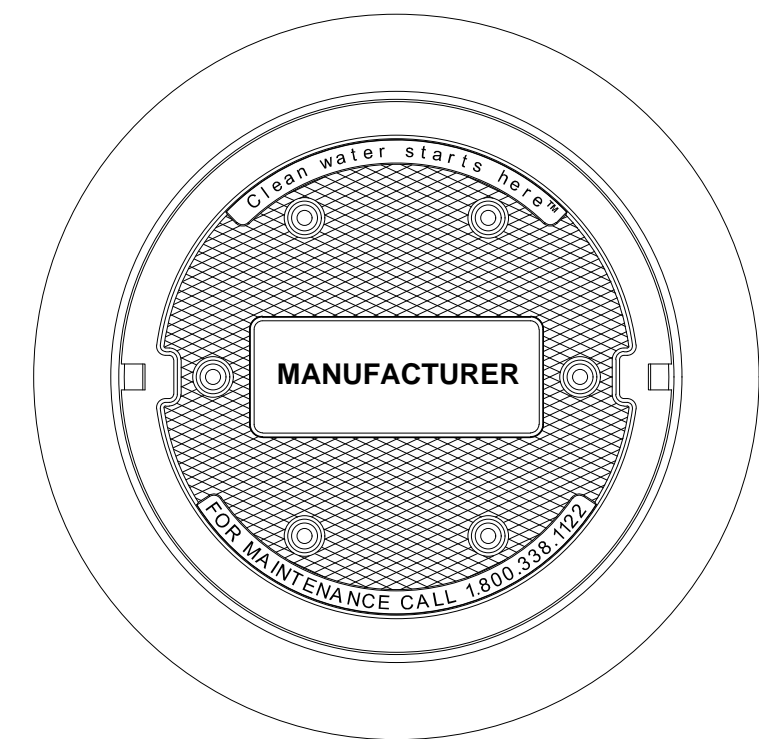


ELEVATION A-A
N.T.S.

1 WATER QUALITY STRUCTURE 1 (CDS1515-3-C)
NOT TO SCALE



3 TYPICAL CLEANOUT DETAIL
NOT TO SCALE

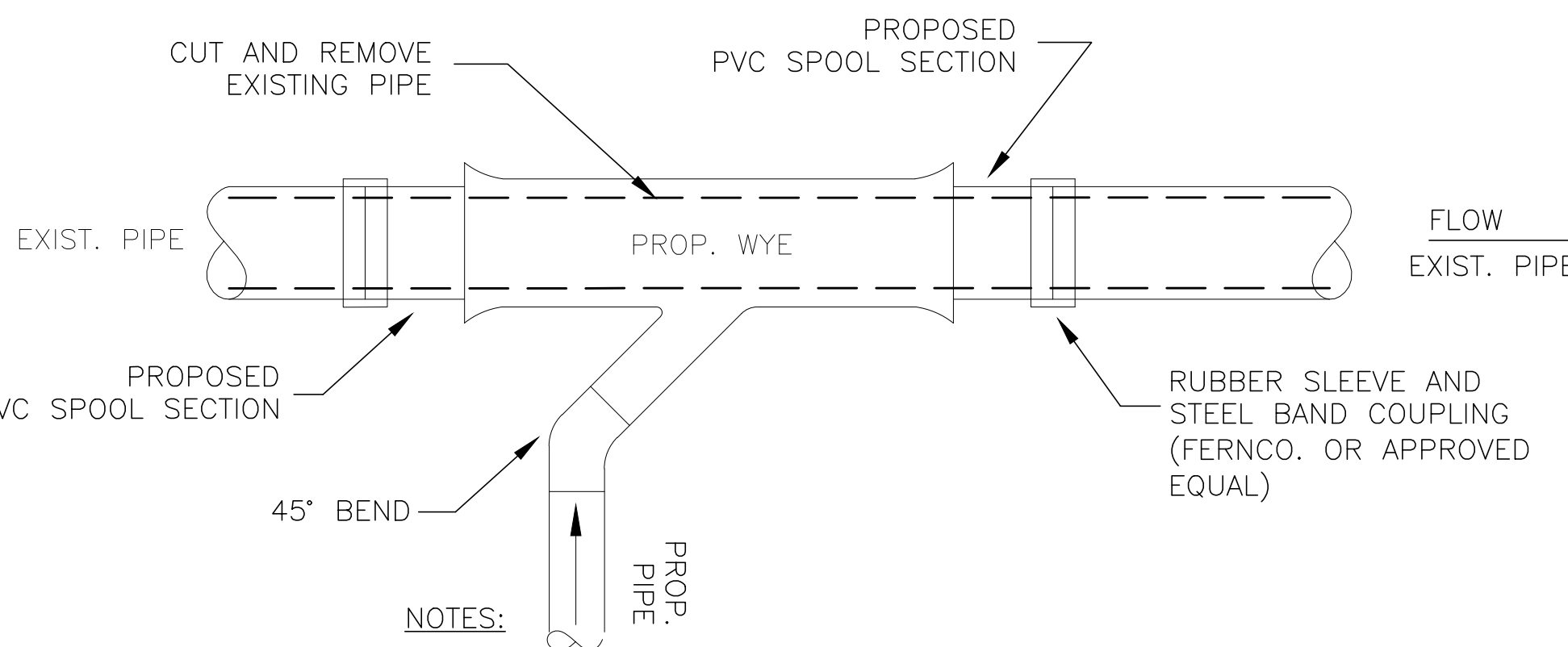


FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

- GENERAL NOTES**
1. MANUFACTURER TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
 2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR MANUFACTURER REPRESENTATIVE.
 3. 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.
 4. STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2', AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE MANUFACTURER LOGO.
 5. IF REQUIRED, PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.
 6. STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.
 7. WATER QUALITY FLOW RATE SHALL BE EQUAL TO 0.33 CFS FOR WQS-1.

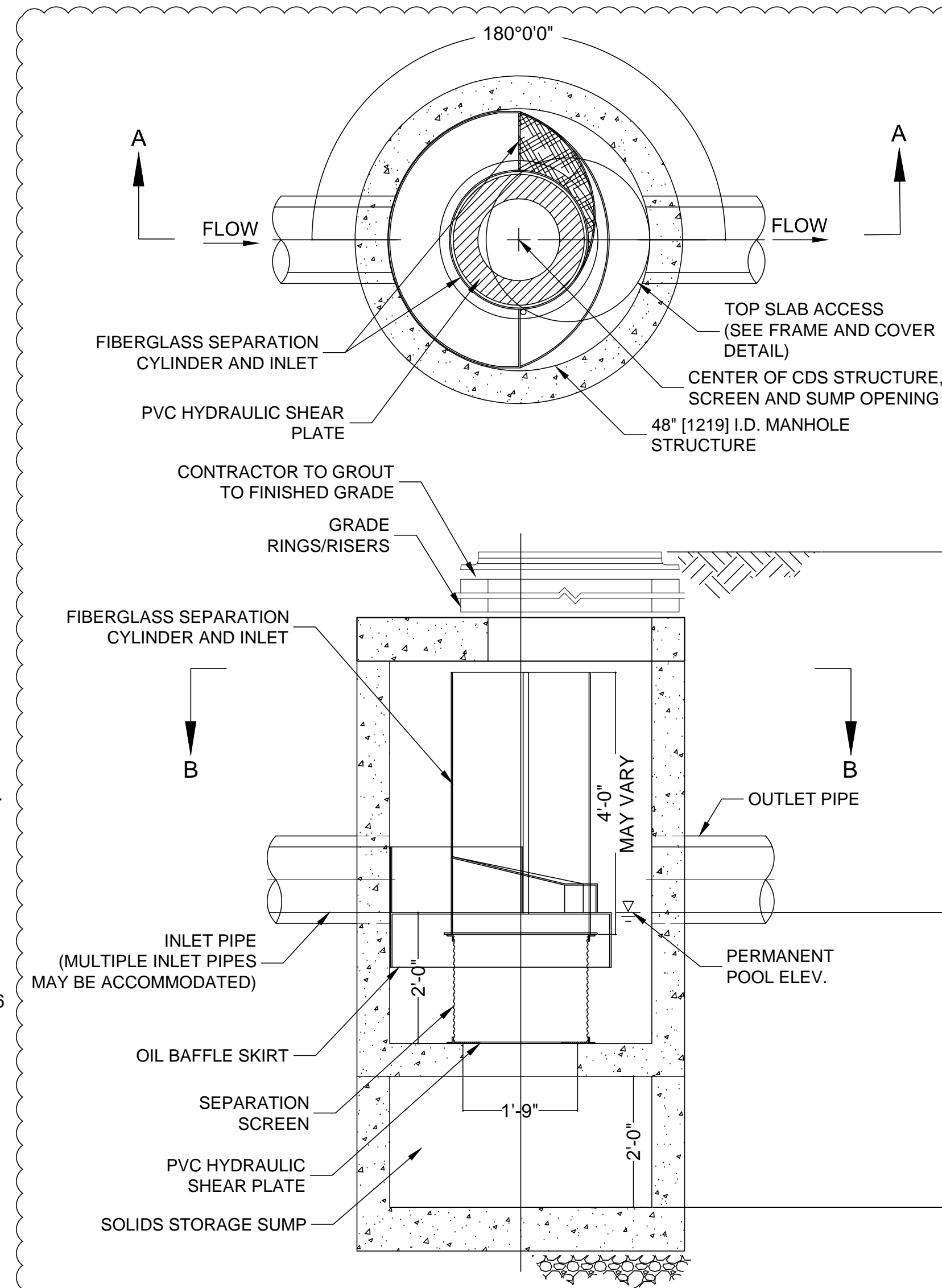
- INSTALLATION NOTES**
- A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
 - B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE.
 - C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
 - D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
 - E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

- NOTES:**
- WQS-1 SHALL BE OF ONE LISTED BELOW, OR APPROVED EQUAL:
1. CONTINUOUS DEFLECTIVE SEPARATOR CDS1515-3-C BY CONTECH



- NOTES:**
1. CUT AND REMOVE SECTION OF EXISTING PIPE
 2. REPLACE WITH WYE AND SPOOL PIECES AS INDICATED
 3. PROVIDE TEMPORARY BULKHEAD AND BYPASS PUMP SYSTEM UPSTREAM OF CONNECTION DURING CONSTRUCTION IF REQUIRED.

4 TYPICAL CUT-IN WYE CONNECTION TO EXISTING PIPE
NOT TO SCALE

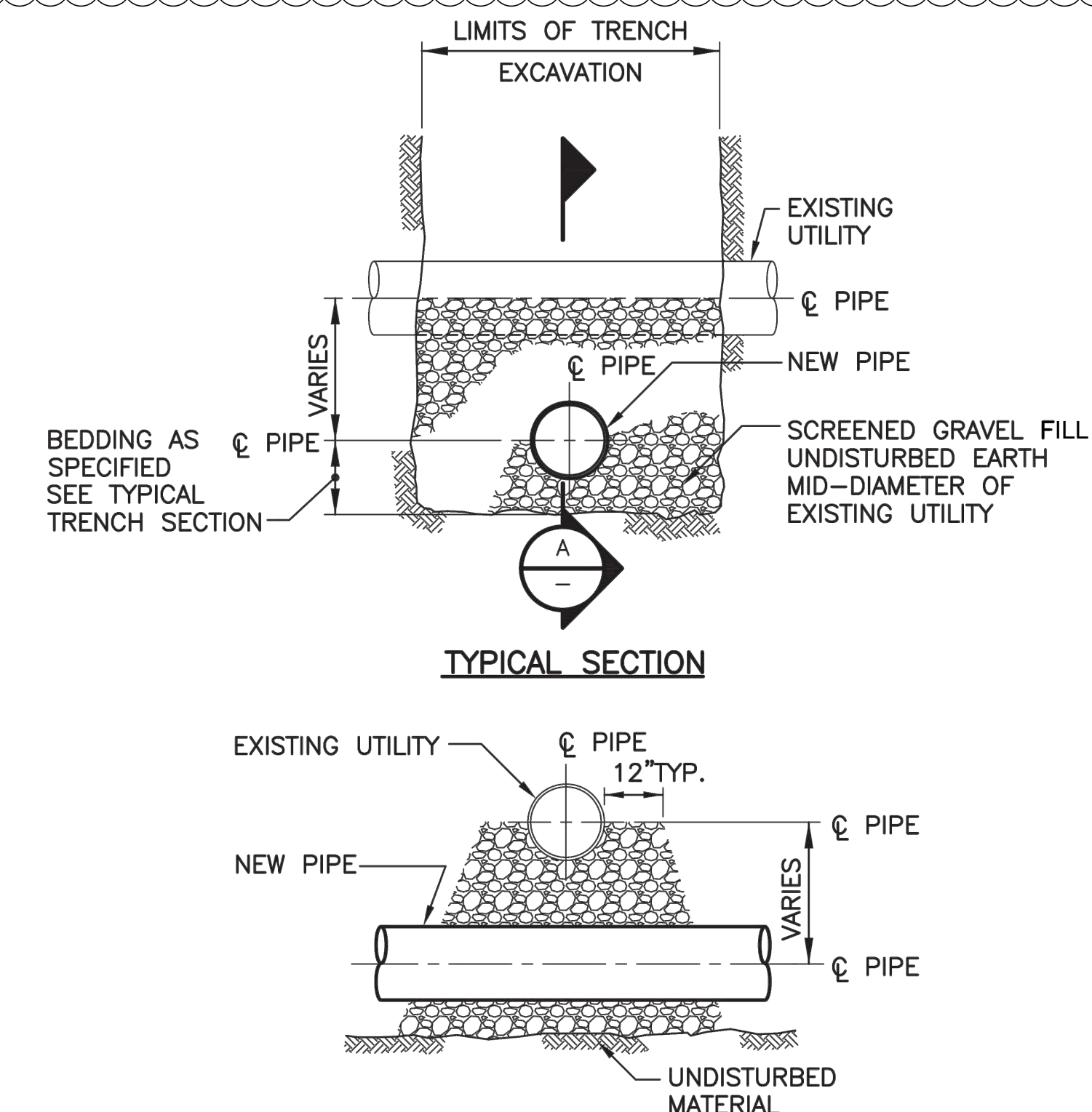


2 WATER QUALITY STRUCTURE 2 (CDS2015-4-C)
NOT TO SCALE

- GENERAL NOTES**
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
 2. DIMENSIONS MARKED WITH () ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
 3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE.
 4. www.ContechES.com
 5. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
 6. STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET HS20 (AASHTO M 306) AND BE CAST WITH THE CONTECH LOGO.
 7. IF REQUIRED, PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.
 8. WATER QUALITY FLOW RATE SHALL BE EQUAL TO 0.64 CFS FOR WQS-2.

- INSTALLATION NOTES**
- A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
 - B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
 - C. CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
 - D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
 - E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

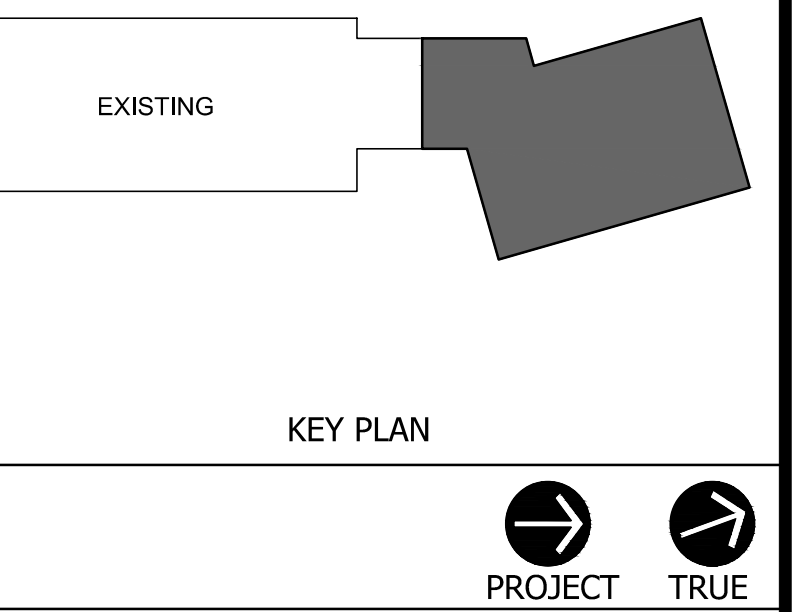
- NOTES:**
- WQS-2 SHALL BE OF ONE LISTED BELOW, OR APPROVED EQUAL:
1. CONTINUOUS DEFLECTIVE SEPARATOR CDS2015-4-C BY CONTECH



SECTION A-A

5 TYPICAL UTILITY CROSSING DETAIL
NOT TO SCALE

FOR ALL ABBREVIATIONS, SYMBOL LEGENDS, AND GENERAL NOTES SEE SHEET R0.01



ACHIEVEMENT FIRST ILLUMINAR SCHOOL ADDITION

85 GARFIELD AVE, CRANSTON, RI, 02920

PROJECT NO.: 21012.02 DRAWN BY:

SITE DETAILS III

DRAWING NO.:

C2.03