



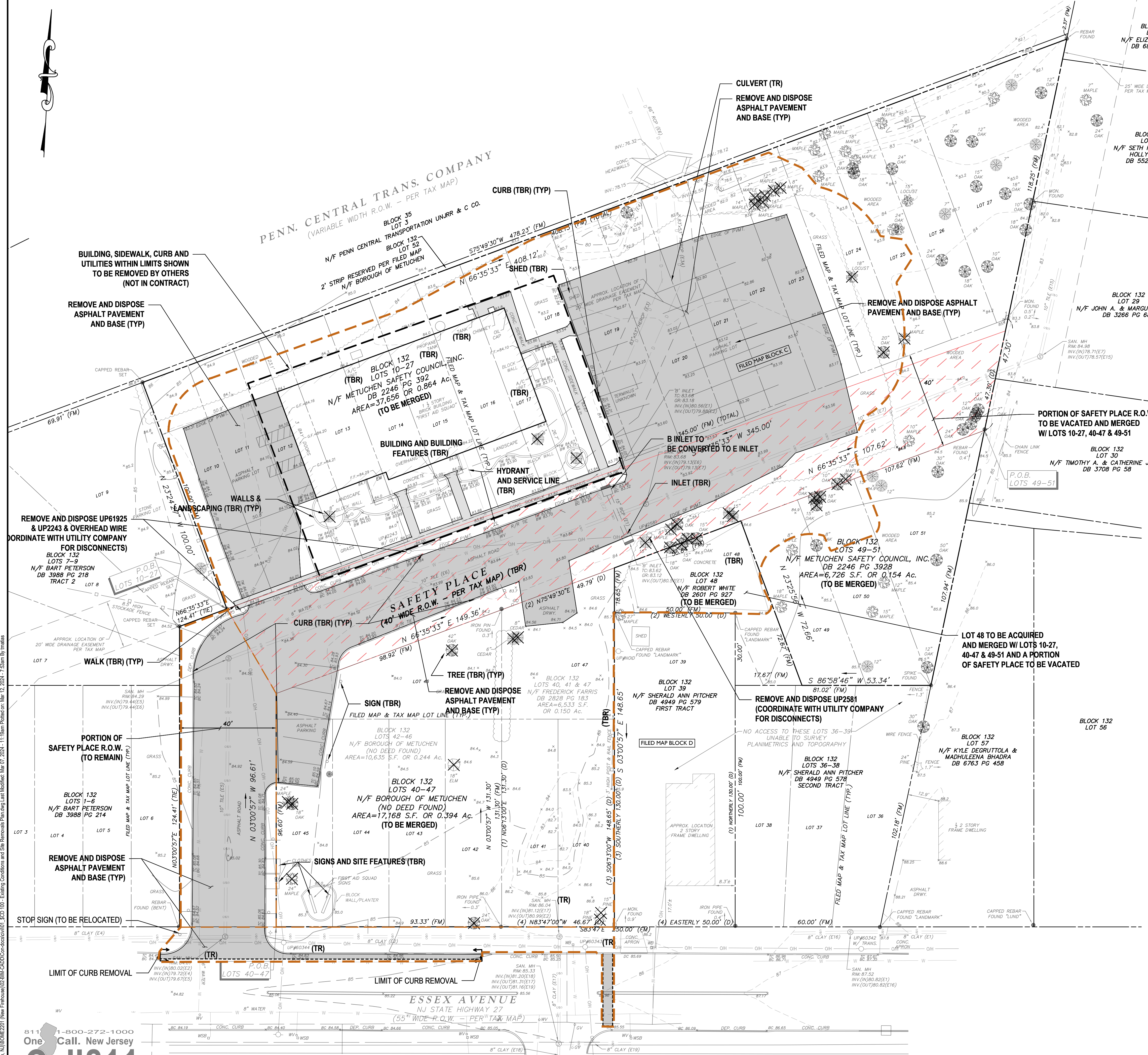
**H2M Architects & Engineers, Inc.**  
 119 Cherry Hill Road, Suite 110  
 Parsippany, NJ 07054  
 962.207.5900 • www.h2m.com  
 NJ Architecture Certificate of Authorization No. 21AC0012900  
 NJ Engineering Certificate of Authorization No. 24GA28025500

CONSULTANTS:

MARK	DATE	DESCRIPTION

RICHARD B. SCHOMMER, JR. P.E.  
 NJ PROFESSIONAL ENGINEER Lic. No. 24GE0223400  
 ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS LEGAL  
 THIS SHALL NOT BE CONSIDERED AN OFFICIAL DOCUMENT UNLESS IT CONTAINS THE PREFERRED SEAL OF THE LICENSEE  
 DESIGNED BY: RBS | DRAWN BY: LN | CHECKED BY: TM | REVIEWED BY: RBS  
 PROJECT NO: BOME2201 | DATE: MAR 12, 2024 | SCALE: AS SHOWN

**Borough of Metuchen**  
 EMERGENCY SERVICES CENTER  
 MARCH 20, 1900



**SITE REMOVAL LEGEND**

DESCRIPTION	SYMBOL
LIMIT OF DISTURBANCE LINE	(Dashed line)
REMOVE AND DISPOSE EXISTING ASPHALT PAVEMENT	(Grey shaded area)
REMOVE AND DISPOSE EXISTING CONCRETE WALKWAY	(Light grey shaded area)
PORTION OF SAFETY PLACE ROW TO BE VACATED	(Hatched area)
(TO REMAIN)	(TR)
(TO BE REMOVED)	(TBR)
DECIDUOUS/EVERGREEN TREE (TO BE REMOVED)	(Tree symbol with cross)
DECIDUOUS/EVERGREEN TREE (TO REMAIN)	(Tree symbol)

- SITE DEMOLITION NOTES:**
- TOPOGRAPHIC AND EXISTING FEATURES INFORMATION SHOWN HEREON IS BASED ON A MAP ENTITLED "BOUNDARY AND TOPOGRAPHIC SURVEY FOR METUCHEN FIREHOUSE BLOCK 132 LOTS 10-27, 40-47, 49-51, BOROUGH OF METUCHEN, MIDDLESEX COUNTY, NEW JERSEY", PREPARED BY COLLIER ENGINEERING & DESIGN INC., DOING BUSINESS AS MASER CONSULTING, DATED SEPTEMBER 24, 2018, LAST REVISED MAY 12, 2023. CONTROL WAS ESTABLISHED USING THE KEYNET VIRTUAL REFERENCE SYSTEM RTK NETWORK. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) (NE W JERSEY STATE PLAN COORDINATE SYSTEM) VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
  - REPORT ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE PLANS TO THE ENGINEER IN WRITING IMMEDIATELY.
  - EXISTING UTILITIES SHOWN HEREON ARE NOT CERTIFIED AND ARE BASED ON SURFACE OBSERVATIONS, UTILITY MARKUPS AND INFORMATION PROVIDED BY THE SURVEY NOTED ABOVE. LOCATIONS ARE APPROXIMATE AND HAVE NOT BEEN VERIFIED. CONTRACTOR SHALL OBTAIN FIELD MARKOUT AND VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
  - AFTER MARKOUT AND PRIOR TO DISTURBING THE SITE, UNCOVER ALL SUBSURFACE UTILITIES AND STRUCTURES WITHIN LIMITS OF DISTURBANCE TO CONFIRM THEIR LOCATION AND DEPTH.
  - NO COMPENSATION WILL BE MADE FOR ANY INCONVENIENCE CAUSED BY ENCOUNTERING UTILITIES AND STRUCTURES WHICH ARE NOT SHOWN, OR ARE INACCURATELY SHOWN ON THE PLANS.
  - REPAIR ANY DAMAGE TO EXISTING UTILITIES RESULTING FROM CONTRACTOR OPERATIONS IMMEDIATELY AT NO COST TO OWNER.
  - REPAIR ANY DAMAGE TO EXISTING SITE FEATURES SCHEDULED TO REMAIN RESULTING FROM CONTRACTOR OPERATIONS AT NO COST TO OWNER.
  - SAWCUT CONCRETE PAVEMENT BACK TO NEAREST EXPANSION/CONTROL JOINT.
  - PROVIDE TEMPORARY FENCING TO PROTECT WORK AREAS.
  - INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN PRIOR TO ANY GROUND DISTURBANCE.
  - DELINEATE THE LIMITS OF CLEARING AND REVIEW WITH THE OWNER PRIOR TO COMMENCING WORK.
  - NOTIFY OWNER AND ENGINEER IMMEDIATELY IN WRITING WHEN UNKNOWN STRUCTURES OR SUSPECTED HAZARDOUS OR CONTAMINATED MATERIALS ARE ENCOUNTERED PRIOR TO REMOVAL OR DISTURBANCE.
  - TAKE APPROPRIATE MEASURES TO PROTECT PEDESTRIANS AND VEHICULAR TRAFFIC DURING REMOVAL ACTIVITIES, AND PROVIDE TEMPORARY MEASURES FOR THE PROTECTION AND SAFETY OF THE PUBLIC UNTIL FINAL ACCEPTANCE BY THE OWNER.
  - BACKFILL ALL VOIDS RESULTING FROM THE REMOVAL OF EXISTING SITE FEATURES. BACKFILL TO BE SOIL, FREE OF ORGANIC MATERIAL, DEBRIS, TRASH, CLAY AND STONES LARGER THAN 4 INCHES.

811 One Call. New Jersey  
 Call811  
 Know what's below. Call before you dig  
 www.NJ1-Call.org

STATUS: **90% - NFC**

SHEET TITLE: **EXISTING CONDITIONS & DEMOLITION SITE PLAN**

DRAWING No.: **CD 100.00**

**H2M Architects & Engineers, Inc.**  
119 Cherry Hill Road, Suite 110  
Parsippany, NJ 07054  
862.207.5900 • www.h2m.com  
NJ Architecture Certificate of Authorization No. 21AC00102900  
NJ Engineering Certificate of Authorization No. 24GA28025500

CONSULTANTS:

MARK	DATE	DESCRIPTION

MARK	DATE	DESCRIPTION

**RICHARD B. SCHOMMER, JR. P.E.** DATE:     

NJ PROFESSIONAL ENGINEER LIC. NO. 24GE02353400  
ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL.  
THIS SHALL NOT BE CONSIDERED AN OFFICIAL DOCUMENT UNLESS IT CONTAINS THE SIGNED SEAL OF THE LICENSEE.

DESIGNED BY: RBS    DRAWN BY: LN    CHECKED BY: TM    REVIEWED BY: RBS

PROJECT NO: BOME2201    DATE: MAR 12, 2024    SCALE:    AS SHOWN

**Borough of Metuchen**

**EMERGENCY SERVICES CENTER**

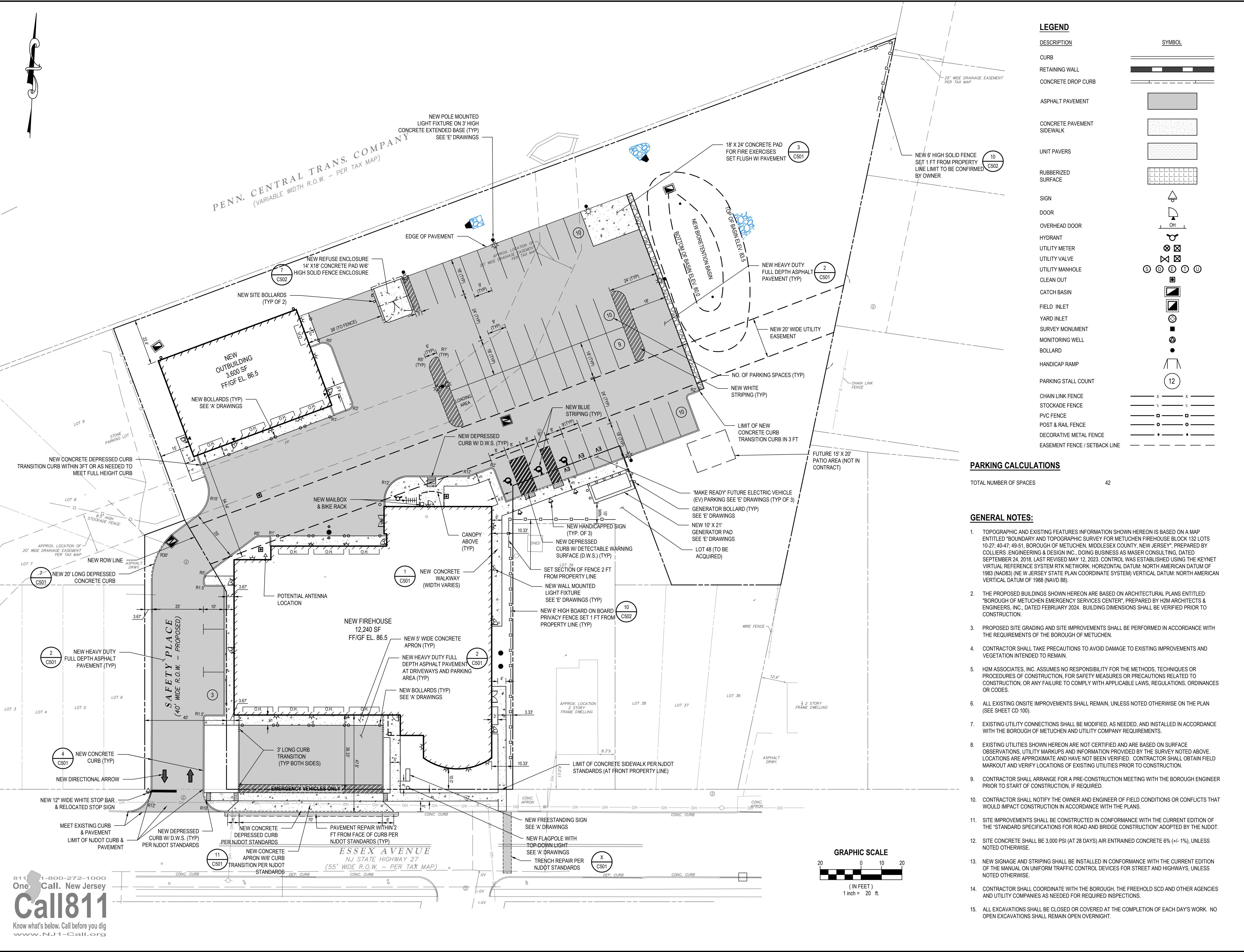


**1 SAFETY PLACE**  
**METUCHEN NJ, 08840**  
**BOROUGH OF METUCHEN**  
**COUNTY OF MIDDLESEX**  
**NEW JERSEY**

STATUS: **90% - NFC**

**DIMENSIONAL SITE PLAN**

DRAWING NO: **CS 100.00**



**LEGEND**

DESCRIPTION	SYMBOL
CURB	
RETAINING WALL	
CONCRETE DROP CURB	
ASPHALT PAVEMENT	
CONCRETE PAVEMENT	
SIDEWALK	
UNIT PAVERS	
RUBBERIZED SURFACE	
SIGN	
DOOR	
OVERHEAD DOOR	
HYDRANT	
UTILITY METER	
UTILITY VALVE	
UTILITY MANHOLE	
CLEAN OUT	
CATCH BASIN	
FIELD INLET	
YARD INLET	
SURVEY MONUMENT	
MONITORING WELL	
BOLLARD	
HANDICAP RAMP	
PARKING STALL COUNT	
CHAIN LINK FENCE	
STOCKADE FENCE	
PVC FENCE	
POST & RAIL FENCE	
DECORATIVE METAL FENCE	
EASEMENT FENCE / SETBACK LINE	

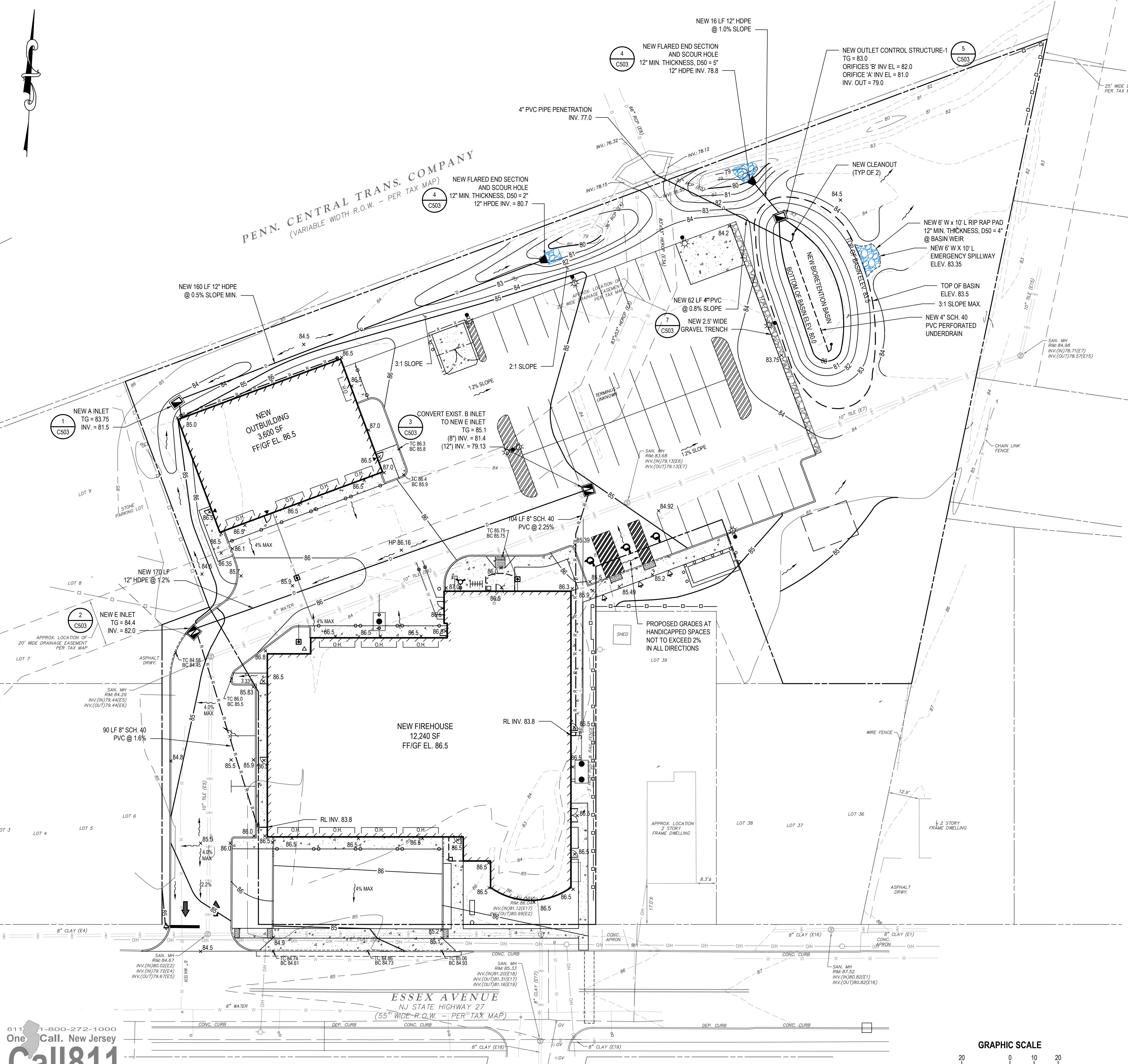
**PARKING CALCULATIONS**

TOTAL NUMBER OF SPACES	42
------------------------	----

- GENERAL NOTES:**
- TOPOGRAPHIC AND EXISTING FEATURES INFORMATION SHOWN HEREON IS BASED ON A MAP ENTITLED "BOUNDARY AND TOPOGRAPHIC SURVEY FOR METUCHEN FIREHOUSE BLOCK 132 LOTS 10-27, 40-47, 49-51, BOROUGH OF METUCHEN, MIDDLESEX COUNTY, NEW JERSEY", PREPARED BY COLLIER'S ENGINEERING & DESIGN INC., DOING BUSINESS AS MASER CONSULTING, DATED SEPTEMBER 24, 2018, LAST REVISED MAY 12, 2023. CONTROL WAS ESTABLISHED USING THE KEYNET VIRTUAL REFERENCE SYSTEM RTK NETWORK. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) (NEW JERSEY STATE PLAN COORDINATE SYSTEM) VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
  - THE PROPOSED BUILDINGS SHOWN HEREON ARE BASED ON ARCHITECTURAL PLANS ENTITLED: "BOROUGH OF METUCHEN EMERGENCY SERVICES CENTER", PREPARED BY H2M ARCHITECTS & ENGINEERS, INC., DATED FEBRUARY 2024. BUILDING DIMENSIONS SHALL BE VERIFIED PRIOR TO CONSTRUCTION.
  - PROPOSED SITE GRADING AND SITE IMPROVEMENTS SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE BOROUGH OF METUCHEN.
  - CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID DAMAGE TO EXISTING IMPROVEMENTS AND VEGETATION INTENDED TO REMAIN.
  - H2M ASSOCIATES, INC. ASSUMES NO RESPONSIBILITY FOR THE METHODS, TECHNIQUES OR PROCEDURES OF CONSTRUCTION, FOR SAFETY MEASURES OR PRECAUTIONS RELATED TO CONSTRUCTION, OR ANY FAILURE TO COMPLY WITH APPLICABLE LAWS, REGULATIONS, ORDINANCES OR CODES.
  - ALL EXISTING ONSITE IMPROVEMENTS SHALL REMAIN, UNLESS NOTED OTHERWISE ON THE PLAN (SEE SHEET CD 100).
  - EXISTING UTILITY CONNECTIONS SHALL BE MODIFIED, AS NEEDED, AND INSTALLED IN ACCORDANCE WITH THE BOROUGH OF METUCHEN AND UTILITY COMPANY REQUIREMENTS.
  - EXISTING UTILITIES SHOWN HEREON ARE NOT CERTIFIED AND ARE BASED ON SURFACE OBSERVATIONS. UTILITY MARKUPS AND INFORMATION PROVIDED BY THE SURVEY NOTED ABOVE. LOCATIONS ARE APPROXIMATE AND HAVE NOT BEEN VERIFIED. CONTRACTOR SHALL OBTAIN FIELD MARKOUT AND VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
  - CONTRACTOR SHALL ARRANGE FOR A PRE-CONSTRUCTION MEETING WITH THE BOROUGH ENGINEER PRIOR TO START OF CONSTRUCTION, IF REQUIRED.
  - CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF FIELD CONDITIONS OR CONFLICTS THAT WOULD IMPACT CONSTRUCTION IN ACCORDANCE WITH THE PLANS.
  - SITE IMPROVEMENTS SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE CURRENT EDITION OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED BY THE NJDOT.
  - SITE CONCRETE SHALL BE 3,000 PSI (AT 28 DAYS) AIR ENTRAINED CONCRETE 6% (+/- 1%), UNLESS NOTED OTHERWISE.
  - NEW SIGNAGE AND STRIPING SHALL BE INSTALLED IN CONFORMANCE WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS, UNLESS NOTED OTHERWISE.
  - CONTRACTOR SHALL COORDINATE WITH THE BOROUGH, THE FREEHOLD SCD AND OTHER AGENCIES AND UTILITY COMPANIES AS NEEDED FOR REQUIRED INSPECTIONS.
  - ALL EXCAVATIONS SHALL BE CLOSED OR COVERED AT THE COMPLETION OF EACH DAY'S WORK. NO OPEN EXCAVATIONS SHALL REMAIN OPEN OVERNIGHT.

811  
**Call811**  
Know what's below. Call before you dig  
www.NJ1-Call.org

X:\SOURCE\Borough of Metuchen - NJ\BOME2201\New Firehouse\BOME2201-CD100-As-Reviewed.dwg, 2/23/24, 11:25am, Plotted on: Mar 12, 2024, 11:25am, By: h2m



PENN. CENTRAL TRANS. COMPANY  
(VARIABLE WIDTH R.O.W. - PER TAX MAP)

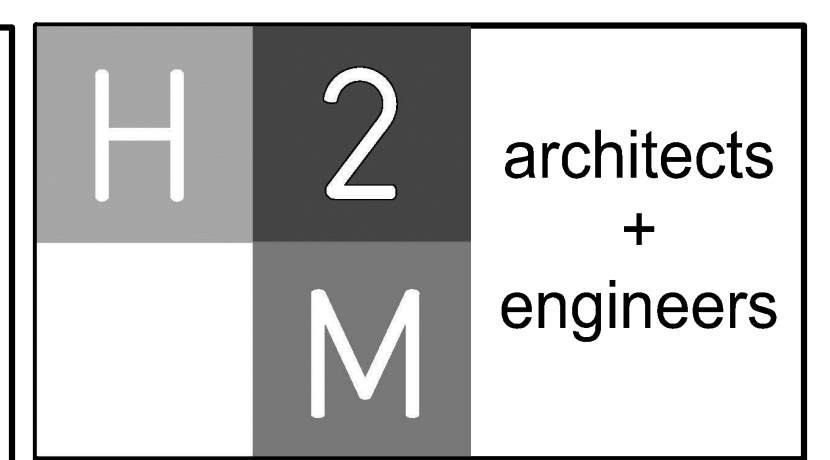
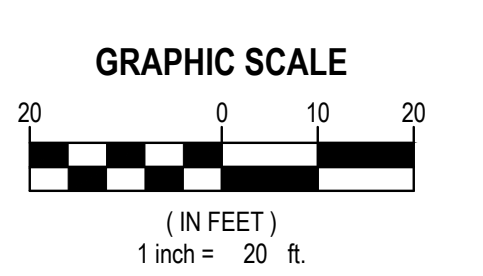
ESSEX AVENUE  
NJ STATE HIGHWAY 27  
(55' WIDE R.O.W. - PER TAX MAP)

**LEGEND**

DESCRIPTION	SYMBOL
SPOT ELEVATION	+121.50
TOP AND BOTTOM CURB ELEVATION	TC140.00 BC139.50
MAJOR CONTOUR	240
MINOR CONTOUR	241
VALVE PIT STRUCTURE	(Symbol: Circle with 'X')
BORING / TEST HOLE LOCATION	(Symbol: Circle with crosshair)
RIDGE LINE	(Symbol: Dashed line)
RETAINING WALL	(Symbol: Thick solid line)
FIELD INLET	(Symbol: Square)
CATCH BASIN	(Symbol: Square with 'C')
UTILITY MANHOLE	(Symbol: Circle with 'U')
YARD INLET	(Symbol: Circle with 'Y')
BLOW-OFF PIT	(Symbol: Circle with 'B')
ROOF LEADER	(Symbol: Circle with 'R')
DRYWELL W/GRATE	(Symbol: Circle with 'D')
DRYWELL W/ SOIL COVER	(Symbol: Circle with 'D' and 'S')
MONITORING WELL	(Symbol: Circle with 'M')
HYDRANT	(Symbol: Circle with 'H')
UTILITY METER/VALVE	(Symbol: Square with 'U')
CLEAN OUT	(Symbol: Square with 'C')
SANITARY SEPTIC TANK / GREASE TRAP	(Symbol: Rectangle with 'S')
SANITARY LEACHING POOL	(Symbol: Circle with 'S')
LIGHT POLE	(Symbol: Star)
GROUND LIGHT	(Symbol: Circle with 'G')
UTILITY POLE/GUY POLE	(Symbol: Circle with 'U')
TRAFFIC SIGNAL POLE	(Symbol: Circle with 'T')
TRAFFIC CONTROL BOX	(Symbol: Square with 'T')
CABLE BOX	(Symbol: Square with 'C')
LIGHT POLE W/FIXTURE(S)	(Symbol: Star with 'L')
FLOW ARROW	(Symbol: Arrow)
BLOWOFF LINE	(Symbol: Dashed line with 'B')
GAS LINE	(Symbol: Dashed line with 'G')
SANITARY LINE	(Symbol: Dashed line with 'S')
DRAINAGE LINE	(Symbol: Dashed line with 'D')
ELECTRIC LINE	(Symbol: Dashed line with 'E')
CABLE TELEVISION LINE	(Symbol: Dashed line with 'C')
ROOF LEADER LINE	(Symbol: Dashed line with 'R')
FIRE SERVICE LINE	(Symbol: Dashed line with 'F')
WATER LINE	(Symbol: Dashed line with 'W')
WATER SERVICE LINE	(Symbol: Dashed line with 'WS')
SANITARY HOUSE CONNECTION	(Symbol: Dashed line with 'HC')
SANITARY FORCEMAIN LINE	(Symbol: Dashed line with 'FM')
OVERHEAD UTILITIES LINE	(Symbol: Dashed line with 'OH')

**GRADING AND DRAINAGE NOTES:**

- FOR NEW CONSTRUCTION THAT MEETS EXISTING CONDITIONS, ABUTTING SURFACES SHALL BE FLUSH AND ALIGNED.
- THE CONTRACTOR SHALL CONFIRM INVERT ELEVATIONS OF ALL ROOF DRAINS AND SANITARY HOUSE CONNECTIONS PRIOR TO COMMENCING SITE DRAINAGE AND SANITARY CONSTRUCTION.
- ADJUST ALL EXISTING CASTINGS AND VALVE COVERS TO MEET PROPOSED GRADE.
- CONSTRUCTION DEBRIS AND EXCESS SOIL SHALL BE REMOVED AND LEGALLY DISPOSED OFF SITE.
- UNSATURABLE SOILS ENCOUNTERED DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER IMMEDIATELY IN WRITING BEFORE REMOVAL OR DISTURBANCE.



**H2M Architects & Engineers, Inc.**  
119 Cherry Hill Road, Suite 110  
Parsippany, NJ 07054  
862.207.5900 • www.h2m.com  
NJ Architecture Certificate of Authorization No. 21AC00102900  
NJ Engineering Certificate of Authorization No. 24GA28025500

CONSULTANTS:

MARK	DATE	DESCRIPTION

MARK	DATE	DESCRIPTION

**RICHARD B. SCHOMMER, JR. P.E.** DATE \_\_\_\_\_

NJ PROFESSIONAL ENGINEER Lic. No. 24J60203400  
ALTERNATE OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL.  
THIS SHALL NOT BE CONSIDERED AN OFFICIAL DOCUMENT UNLESS IT CONTAINS THE RABED SEAL OF THE LICENSEE.

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
RBS	LN	TM	RBS

PROJECT NO: BOME2201 DATE: MAR 12, 2024 SCALE: AS SHOWN

CLIENT

**Borough of Metuchen**

**EMERGENCY SERVICES CENTER**

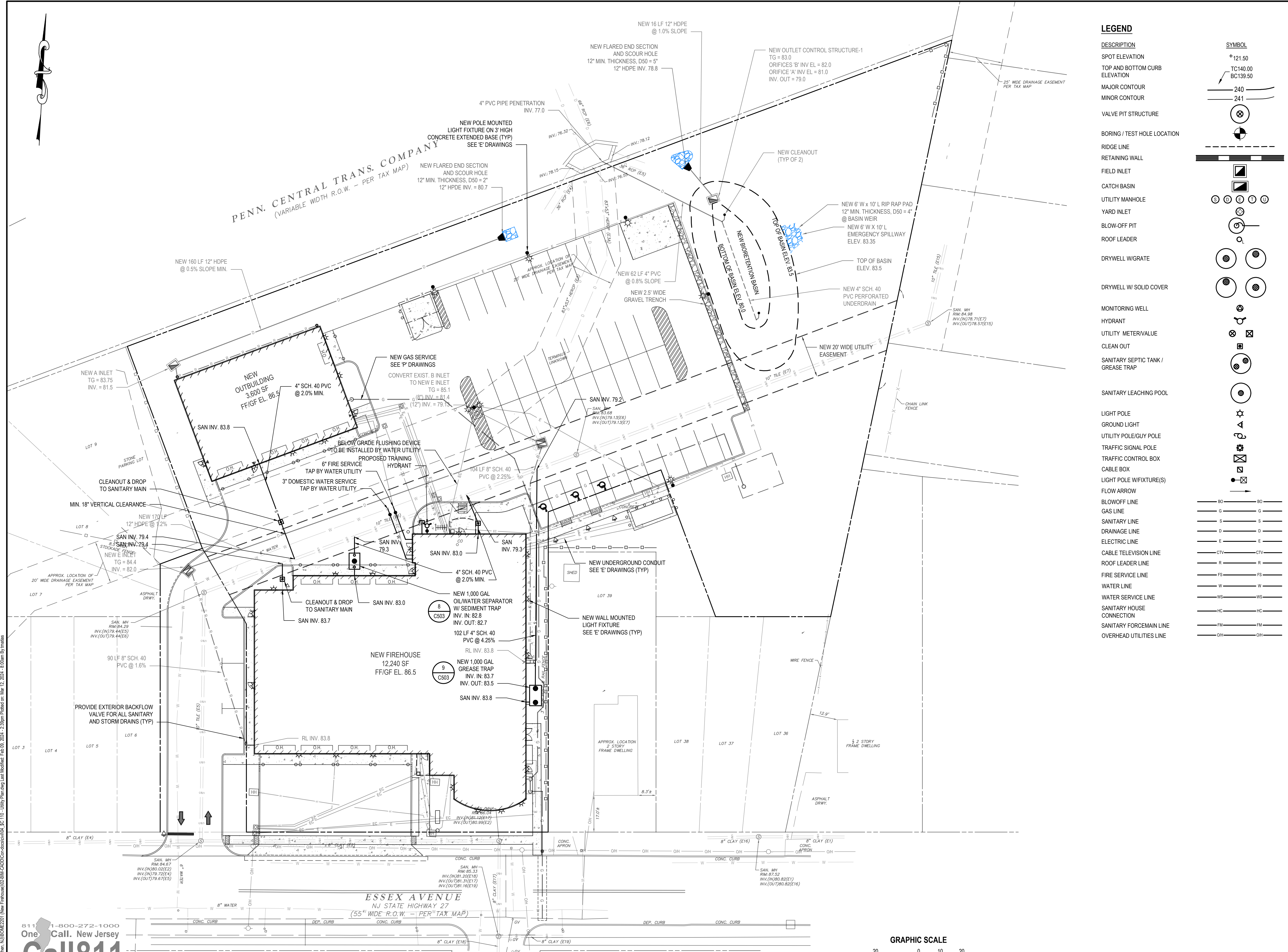
**1 SAFETY PLACE  
METUCHEN NJ, 08840  
BOROUGH OF METUCHEN  
COUNTY OF MIDDLESEX  
NEW JERSEY**

STATUS: **90% - NFC**

SHEET TITLE: **GRADING AND DRAINAGE PLAN**

DRAWING No.: **C 100.00**

811  
One Call. New Jersey  
**Call811**  
Know what's below. Call before you dig  
www.NJ1-Call.org



**LEGEND**

- | DESCRIPTION                        | SYMBOL               |
|------------------------------------|----------------------|
| SPOT ELEVATION                     | +121.50              |
| TOP AND BOTTOM CURB ELEVATION      | TC140.00<br>BC139.50 |
| MAJOR CONTOUR                      | 240                  |
| MINOR CONTOUR                      | 241                  |
| VALVE PIT STRUCTURE                |                      |
| BORING / TEST HOLE LOCATION        |                      |
| RIDGE LINE                         |                      |
| RETAINING WALL                     |                      |
| FIELD INLET                        |                      |
| CATCH BASIN                        |                      |
| UTILITY MANHOLE                    |                      |
| YARD INLET                         |                      |
| BLOW-OFF PIT                       |                      |
| ROOF LEADER                        |                      |
| DRYWELL W/GRATE                    |                      |
| DRYWELL W/ SOLID COVER             |                      |
| MONITORING WELL                    |                      |
| HYDRANT                            |                      |
| UTILITY METER/VALVE                |                      |
| CLEAN OUT                          |                      |
| SANITARY SEPTIC TANK / GREASE TRAP |                      |
| SANITARY LEACHING POOL             |                      |
| LIGHT POLE                         |                      |
| GROUND LIGHT                       |                      |
| UTILITY POLE/GUY POLE              |                      |
| TRAFFIC SIGNAL POLE                |                      |
| TRAFFIC CONTROL BOX                |                      |
| CABLE BOX                          |                      |
| LIGHT POLE W/FIXTURE(S)            |                      |
| FLOW ARROW                         |                      |
| BLOWOFF LINE                       |                      |
| GAS LINE                           |                      |
| SANITARY LINE                      |                      |
| DRAINAGE LINE                      |                      |
| ELECTRIC LINE                      |                      |
| CABLE TELEVISION LINE              |                      |
| ROOF LEADER LINE                   |                      |
| FIRE SERVICE LINE                  |                      |
| WATER LINE                         |                      |
| WATER SERVICE LINE                 |                      |
| SANITARY HOUSE CONNECTION          |                      |
| SANITARY FORCEMAIN LINE            |                      |
| OVERHEAD UTILITIES LINE            |                      |

CONSULTANTS:

MARK	DATE	DESCRIPTION


DESIGNED BY: RBS  
DRAWN BY: LN  
CHECKED BY: TM  
REVIEWED BY: RBS

PROJECT NO: BOME2201  
DATE: MAR 12, 2024  
SCALE: AS SHOWN

**RICHARD B. SCHOMMER, JR. P.E.** DATE: \_\_\_\_\_  
NJ PROFESSIONAL ENGINEER LIC. NO. 24609020400  
ALTERNATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL.  
THIS SHALL NOT BE CONSIDERED AN OFFICIAL DOCUMENT UNLESS IT CONTAINS THE RABED SEAL OF THE LICENSEE.

CLIENT

**Borough of Metuchen**  
**EMERGENCY SERVICES CENTER**



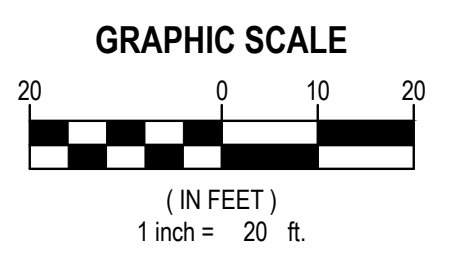
1 SAFETY PLACE  
METUCHEN NJ, 08840  
BOROUGH OF METUCHEN  
COUNTY OF MIDDLESEX  
NEW JERSEY

STATUS: **90% - NFC**

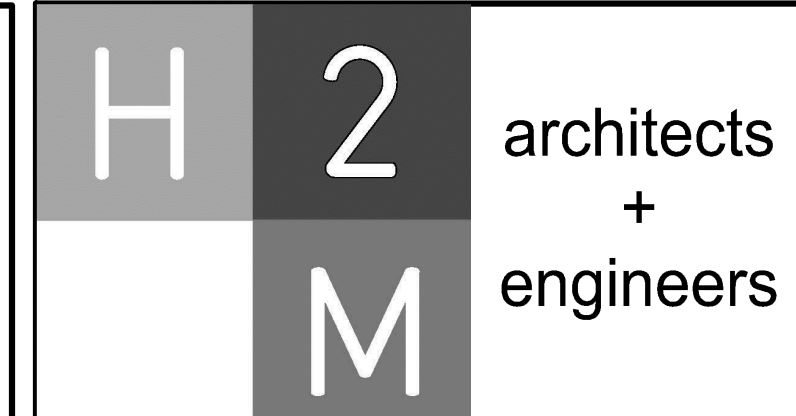
SHEET TITLE: **UTILITY PLAN**

DRAWING NO: **C 110.00**

811  
**Call811**  
Know what's below. Call before you dig  
www.NJ1-Call.org



X:\BOM E\Borough of Metuchen - NJ\BOME2201 - New Firehouse\ISS-811-CADD\DWG-utility\BOME2201.dwg, 12:20:24 - 2:30pm, Printed on: Mar 12, 2024 - 8:00am, By: mbs



H2M Architects & Engineers, Inc.  
119 Cherry Hill Road, Suite 110  
Parsippany, NJ 07054  
862.207.5900 • www.h2m.com  
NJ Architecture Certificate of Authorization No. 21AC00102900  
NJ Engineering Certificate of Authorization No. 24GA28025500

CONSULTANTS:

MARK	DATE	DESCRIPTION

MARK	DATE	DESCRIPTION

**AREA OF DISTURBANCE:**

**SOIL EROSION LEGEND**

DESCRIPTION	SYMBOL
LIMIT OF DISTURBANCE	- - - - -
NEW FILTER FABRIC FENCE	— SF —
TREE PROTECTION FENCING	—
NEW STABILIZED CONSTRUCTION ENTRANCE	[Pattern]
TOPSOIL STOCKPILE AREA	[Pattern]
TEST AREA FOR SOIL COMPACTION	[Pattern]
SOIL COMPACTION TESTING AREA LOCATION	[Symbol]
EXISTING TREE (TO REMAIN)	[Symbol]
EXISTING TREE (TO BE REMOVED)	[Symbol]

**SOIL TYPE:**  
LbuB: LANSLOWINE-URBAN LAND COMPLEX  
PbiAr: PARSIPPANY VERY POORLY DRAINED VARIANT SILT LOAM

**AREA OF DISTURBANCE:**

- WITHIN PROPERTY LIMITS = 659,383 SF / 1.36 ACRES
- WITHIN SAFETY PLACE R.O.W. = 4,760 SF / 0.11 ACRES
- WITHIN NJDOT R.O.W. = 2,582 SF / 0.06 ACRES

**TOTAL AREA OF DISTURBANCE FOR PROJECT = 66,725 SF / 1.53 ACRES**

**AREA OF SOIL DECOMPACTION TESTING:**

TOTAL AREA OF SOIL DECOMPACTION TESTING = 10,600 SF / 0.24 ACRES

**SEQUENCE OF CONSTRUCTION:**

ITEM	DAY(S)
• INSTALL FILTER FABRIC FENCE, INLET FILTER PROTECTION, GRAVEL TRACKING BLANKET, AND TREE PROTECTION FENCING	5
• CLEAR AND GRUB	8
• STRIP AND STOCKPILE TOPSOIL AND INSTALL FILTER FABRIC FENCE AT BASE	8
• ROUGH GRADE SITE	15
• UTILITY CONSTRUCTION	45
• BUILDING CONSTRUCTION	540
• CURBING, SIDEWALK, AND PAVEMENT BASE COURSE	20
• COMPLETE SITE GRADING INCLUDING STORMWATER CONTROL MEASURES	15
• PERFORM SUBSOIL COMPACTION REMEDIATION - SCARIFICATION/TILLAGE TO 6" MIN. DEPTH OR PERFORM SOIL COMPACTION TESTING.	1
• FINE GRADE SITE, SPREAD TOPSOIL, SEEDING, AND INSTALL LANDSCAPE PLANTS	20
• PAVEMENT TOP COURSE	5
• REMOVE ALL SOIL EROSION CONTROL MEASURES UPON COMPLETION OF PROJECT	5

**CLIENT**

**Borough of Metuchen**

**EMERGENCY SERVICES CENTER**

**1 SAFETY PLACE METUCHEN NJ,08840**  
BOROUGH OF METUCHEN  
COUNTY OF MIDDLESEX  
NEW JERSEY

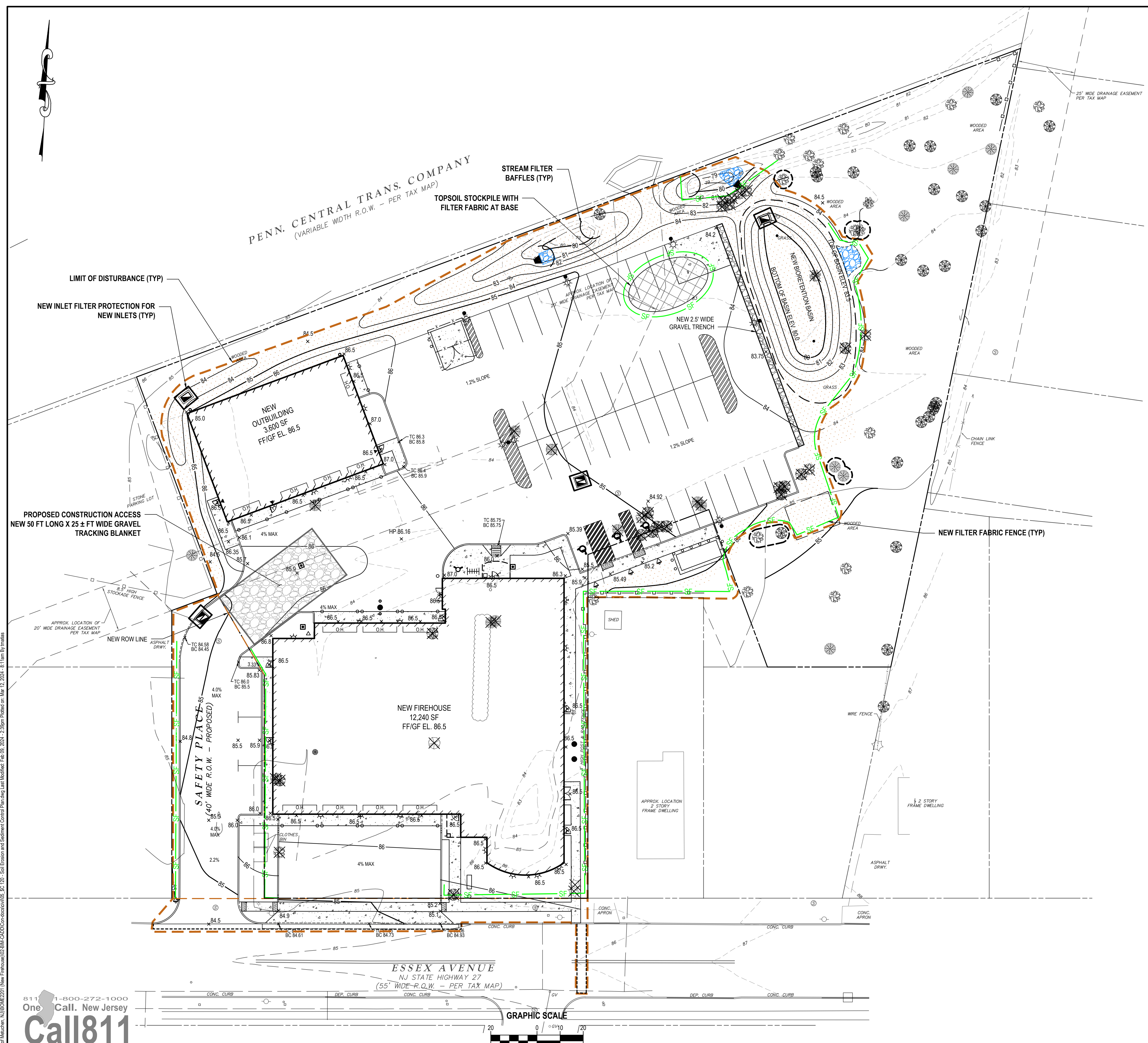


**1 SAFETY PLACE METUCHEN NJ,08840**  
BOROUGH OF METUCHEN  
COUNTY OF MIDDLESEX  
NEW JERSEY

**STATUS** 90% - NFC

**SHEET TITLE** SOIL EROSION AND SEDIMENT CONTROL PLAN

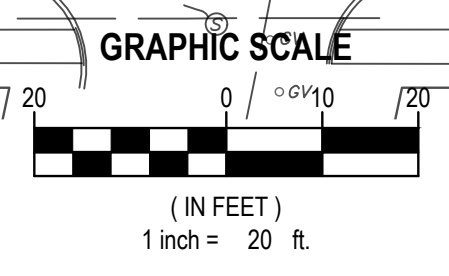
**DRAWING No.** C 120.00



**SOIL COMPACTION EXEMPTION NOTE**

AS DETERMINED BY THE STATE POLICY MAP, THE PROJECT AREA FALLS WITHIN THE METROPOLITAN PLANNING AREA (PA1). UNDER EXISTING CONDITIONS, THE SITE IS NOT COVERED IN WOODY VEGETATION NOR REGROWTH. IN ACCORDANCE WITH NEW JERSEY STANDARD FOR LAND GRADING (REVISED 2017), NON WOODY VEGETATED PA1 AREAS FALL UNDER THE SOIL COMPACTION EXEMPTION LIST AS A "URBAN REDEVELOPMENT" AND IS DEFINED BY NJDEP AS "PREVIOUSLY DEVELOPED".

1-800-272-1000  
One Call. New Jersey  
**Call811**  
Know what's below. Call before you dig.  
www.NJ1-Call.org



811 One Call New Jersey  
 X:\BOMC\Borough of Metuchen\NJPBOMC2201\New Firehouse\02\_Soil Erosion and Sediment Control\Plan\SSG\_CAD\SSG\_CAD.dwg  
 Plotted on Mar 12 2024 8:11 am by jrb  
 File Size: 2,309,772 bytes  
 Scale: 1/4" = 20'

**PLANTING SCHEDULE**

KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
<b>EVERGREEN TREES</b>						
Ps	12	PINUS STROBUS	EASTERN WHITE PINE	6' - 8'	12' O.C.	B & B, DENSE BRANCHING
Tpx	16	THUJA X 'GREEN GIANT'	GREEN GIANT ARBORVITAE	12' - 14'	8' O.C.	B & B, DENSE BRANCHING
<b>LARGE SHRUBS</b>						
Vr	2	VIBURNUM RHYTHIDOPHYLOIDES 'ALLEGHENY'	ALLEGHENY VIBURNUM	3' - 4'	6' O.C.	B & B (WHITE FLOWERS) EVERGREEN LEAVES
<b>DECIDUOUS / EVERGREEN SHRUBS</b>						
lvx	10	ITEA VIRGINICA 'LITTLE HENRY'	LITTLE HENRY (DWARF) VIRGINIA SWEETSPICE	18' - 24"	3' O.C.	NO. 2 CAN (RED FLOWERS)
<b>GRASSES / FORBS</b>						
Bgx	22	BOUTELOUOIA GRACILIS 'BLONDE AMBITION'	BLONDE AMBITION BLUE GAMMA GRASS	12" - 18"	30" O.C.	NO. 2 CAN, STAGGERED ROW
Ca	37	CAREX ALBICANS	WHITE-TINGED SEDGE	12" - 18"	30" O.C.	NO. 2 CAN, STAGGERED ROW
Cp	19	COREOPSIS PALMATA	STIFF COREOPSIS	12" - 18"	2' O.C.	NO. 2 CAN
Ssx	15	SCHIZACHYRIUM SCOPARIUM 'STANDING OVATION'	STANDING OVATION LITTLE BLUESTEM	12" - 18"	3' O.C.	NO. 2 CAN

B & B = BALLED AND BURLAPPED  
 NOTE - ALL NEW PLANTS SPECIFIED HEREON ARE NATIVE SPECIES AND ARE NOT LISTED ON THE NJ INVASIVE SPECIES STRIKE TEAMS' 2023 DO NOT PLANT LIST.

**LANDSCAPE LEGEND**

DESCRIPTION	SYMBOL
EXISTING DECIDUOUS TREE (TO REMAIN)	
NEW EVERGREEN TREE	
NEW DECIDUOUS/EVERGREEN SHRUBS	
NEW MEADOW AREA	
HARDWOOD MULCH BED	
NEW GRASSES / FORBS	

**LANDSCAPE NOTES**

- ALL SUPPLIED AND INSTALLED PLANT MATERIAL SHALL BE NURSERY GROWN STOCK IN ACCORDANCE WITH THE LATEST EDITION OF THE "AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z60.1). PLANT MATERIAL SHALL BE OF THE APPROVED SPECIES AND GROWN UNDER THE SAME CLIMATIC CONDITIONS AS THE SUBJECT SITE. THEY SHALL BE OF SYMMETRICAL GROWTH, FREE OF INSECTS, PESTS, AND DISEASE. SUBSTITUTIONS MUST BE APPROVED IN WRITING BY THE OWNER.
- CONFIRM THE LOCATION OF EXISTING SUBSURFACE UTILITIES WITH THE RESPECTIVE UTILITY COMPANIES AND COORDINATE WITH THE GRADING AND DRAINAGE PLAN OR UTILITY PLAN FOR THE LOCATION OF PROPOSED SUBSURFACE UTILITY LINES AND STRUCTURES PRIOR TO ANY EXCAVATION. NOTIFY THE LANDSCAPE ARCHITECT IF ANY CONFLICTS EXIST.
- NOTIFY THE OWNER IMMEDIATELY AND PRIOR TO THE INSTALLATION OF ANY PLANT MATERIALS IF SUB-GRADE SOIL CONDITIONS ARE DEleterIOUS TO PLANT GROWTH OR WILL INHIBIT DRAINAGE.
- IF ANY DISCREPANCY EXISTS BETWEEN THE PLANT COUNT SHOWN IN THE PLANTING SCHEDULE AND THE LANDSCAPE PLAN, THE PLAN SHALL TAKE PRECEDENCE.
- UNLESS OTHERWISE APPROVED IN WRITING, INSTALL VEGETATION DURING THE FOLLOWING PERIODS:
  - DECIDUOUS WOODY PLANTS: SEPTEMBER 15 TO MAY 15 OR WHENEVER TEMPERATURE IS ABOVE 40 DEGREES F.
  - EVERGREENS: AUGUST 15 TO SEPTEMBER 30 OR DURING MARCH 15 AND MAY 30 BEFORE THE START OF NEW GROWTH.
  - SEEDING: APRIL 1 TO MAY 15 AND AUGUST 15 TO OCTOBER 30.
- PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THEY BORE TO THE EXISTING GRADE IN THE NURSERY.
- INSTALL A 3" LAYER OF SHREDDED DARK MULCH IN ALL TREE PLANTING AREAS AND SHRUB BEDS. EXCEPT WHERE OTHERWISE NOTED ON PLAN (RIPARIAN ZONE), DO NOT PLACE MULCH DIRECTLY AGAINST TRUNKS OF TREES. FORM AN EARTH SAUCER AROUND EACH PLANT OR SHRUB BED SO AS TO HOLD WATER AND MULCH. PROVIDE SUFFICIENT IRRIGATION FOR ALL PLANT MATERIALS TO MAINTAIN HEALTHY AND VIGOROUS CONDITION UNTIL THE PROJECT IS ACCEPTED BY THE OWNER.
- REMOVE TREE STAKES AND OTHER PLANTING GUIDE MATERIALS, IF SPECIFIED, AFTER ONE YEAR FROM THE TIME OF PLANTING.
- ALL PLANT MATERIAL SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER PLANTING FOLLOWING ACCEPTANCE BY THE OWNER. UPON COMPLETION OF THE ONE YEAR PLANT GUARANTEE PERIOD, REPLACE ALL PLANT MATERIAL DEEMED DEAD, DYING OR DISEASED AS DETERMINED BY THE OWNER. REPLACE PLANT WITH THE SAME SPECIES AND SIZE IMMEDIATELY DURING THE CURRENT GROWING SEASON OR AT THE BEGINNING OF THE NEXT GROWING SEASON.
- UPON COMPLETION OF PLANTING OPERATION CULTIVATE AND NEATLY RAKE ALL PLANTING AREAS.
- RESTORE ALL DISTURBED LAWN AREAS AND ALL AREAS NOT SPECIFICALLY IDENTIFIED FOR OTHER IMPROVEMENTS WITH 4 INCHES OF TOPSOIL AND SEED. PROVIDE SUFFICIENT MULCH AND IRRIGATION TO ESTABLISH AND MAINTAIN A HEALTHY STAND OF LAWN UNTIL PROJECT IS ACCEPTED BY THE OWNER.
- THE MEADOW AREA AND BIORETENTION BASIN AREAS SHOWN HEREON SHALL BE COVERED WITH 4" MIN. THICK TOPSOIL LAYER AND PLANTED WITH NATIVE TREES AND SHRUBS IN ACCORDANCE WITH THIS PLAN. THE ENTIRE AREA SHALL BE SEEDED IN ACCORDANCE WITH THE "SEEDING SCHEDULE FOR MEADOW AND BIORETENTION BASINS." SEE SHEET C 902.00, SITE DETAILS.
- THE LOCATION OF THE NEW EVERGREEN TREES ALONG THE PROPERTY LINE ARE APPROXIMATELY SHOWN. CONTRACTOR SHALL LOCATE TREES WITHIN EXISTING CLEARING AREAS TO MINIMIZE DISTURBANCE OF EXISTING VEGETATION.

**Seeding Schedule For Bioretention Basin and New Meadow Areas**

**SITE PREPARATION**

- ERADICATE EXISTING INVASIVE SHRUBS AND OTHER VEGETATION WITH APPROVED HERBICIDE.
- INSPECT AREA. SURFACE SHALL BE REASONABLY UNIFORM, FREE OF ALL STONES 2 INCHES OR LARGER, REMOVE ALL DEBRIS, ROOTS, CLODS, OR OTHER UNSUITABLE MATERIAL.
- APPLY 6-12" TOPSOIL, FREE OF NOXIOUS SEEDS TO ALL DISTURBED AREAS.
- APPLY SEED MIX NOTED BELOW AT A RATE OF TOTAL PLS 11 LBS/ACRE OF NATIVE GRASS (COOL AND WARM SEASON) AND FORB COMBINATION TO DISTURBED AREAS.
- SEED TO BE BROADCASTED ONTO PREPARED SEED BED. AREA TO BE PASSED OVER WITH A CULTIVATOR (WITH TINES RAISED) OR A TRACKING BULLDOZER TO INCORPORATE THE SEED INTO SOIL FOLLOWING SEED APPLICATION. APPLY A LIGHT AMOUNT OF SALT HAY MULCH (1,000 LBS/ACRE) TO ENTIRE AREA. WATER ENTIRE DISTURBED AREA IMMEDIATELY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY WATERING THE SITE. IN THE EVENT OF DROUGHT CONDITIONS DURING THE FIRST GROWING SEASON FOLLOWING PLANTING, IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPLACE ANY PLANTS THAT DIE AS A RESULT OF IMPROPER OR INSUFFICIENT WATERING.

IDEAL PLANTING DATES : APRIL 15 TO SEPTEMBER 15.

**GROWING SEASON MAINTENANCE**

**FIRST GROWING SEASON**

- WHEN OVERALL MEADOW VEGETATION REACHES 18" - 24", TRIM THE MEADOW USING A BRUSH HOG MOWER OR STRING TRIMMER TO A HEIGHT OF NO LESS THAN 8" TO REDUCE COMPETITION BY FAST-GROWING WEEDS. A LAWN MOWER IS NOT RECOMMENDED TO PREVENT NATIVE SEEDLINGS FROM BEING KILLED.
- MOWING OF MEADOW AREA SHOULD BE DONE TWICE IN THE FIRST YEAR, A THIRD MOWING IS PREFERRED. TRIMMING SHOULD CEASE BY MID-SEPTEMBER.

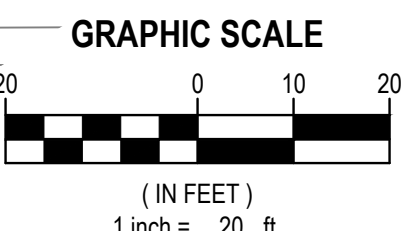
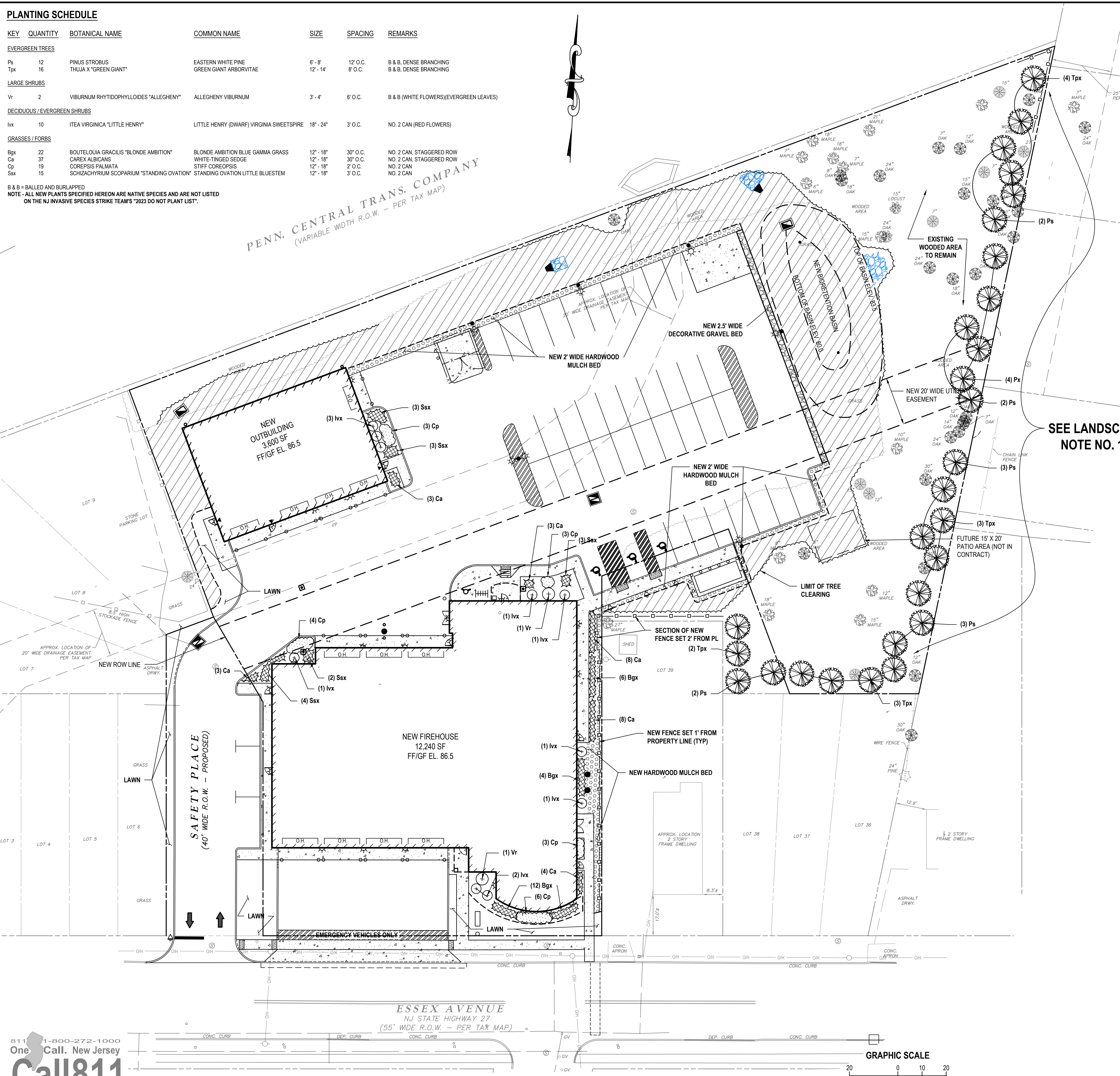
**SECOND GROWING SEASON AND BEYOND**

- A MINIMUM OF ONCE A YEAR MOWING IS RECOMMENDED FOLLOWING THE METHODS AND TIMING NOTED ABOVE.

GA PIEDMONT RIPARIAN MIX - BY ERNST CONSERVATION SEED, ERNM-508 OR APPROVED EQUAL

COMMON NAME	BOTANICAL NAME	PERCENTAGE (%) / RATES
INDIANGRASS, PA ECOTYPE	SORGHASTRUM NUTANS, PA ECOTYPE	28
VIRGINIA WILDRYE, AR ECOTYPE	ELYMUS VIRGINICUS, AR ECOTYPE	20
RESTOP PANICGRASS, PA ECOTYPE	PANICUM RIGIDULUM, PA ECOTYPE	15
SWITCHGRASS, CARTHAGE, NC ECOTYPE	PANICUM VIRGATUM, CARTHAGE, NC ECOTYPE	15
RIVER CATS, WY ECOTYPE	CHASMANTHIUM LATIFOLIUM, WY ECOTYPE	9.5
PARTRIDGE PEAS, FL ECOTYPE	CHAMAECRISTA ASCICULATA, FL ECOTYPE	4
BLACKEYED SUSAN	RUBICEKIA HIRTA	3
LANCELEAF COREOPSIS	COREOPSIS LANCEOLATA	2
OXEYE SUNFLOWER, PA ECOTYPE	HELIOPSIS HELANTHOIDES, PA ECOTYPE	2
WINTER BENTGRASS, PIEDMONT NC ECOTYPE	AGROSTIS HYEMALIS, PIEDMONT NC ECOTYPE	1
NEW YORK IRONWEED, PA ECOTYPE	VERNONIA NOVBORACENSIS, PA ECOTYPE	0.5
		100%

COVER CROP (FOR QUICK COVER)	WHEN SEED MIX IS APPLIED - COVER CROP DATES	
WINTER OATS	JAN 1 TO JULY 31	30 LBS/ACRE
WINTER RYE	AUG 1 TO DEC 31	30 LBS/ACRE



**H 2 M** architects  
+  
engineers

**H2M Architects & Engineers, Inc.**  
 119 Cherry Hill Road, Suite 110  
 Parsippany, NJ 07054  
 962.207.5900 • www.h2m.com  
 NJ Architecture Certificate of Authorization No. 21AC00102900  
 NJ Engineering Certificate of Authorization No. 24GA28025500

CONSULTANTS:

MARK	DATE	DESCRIPTION

MARK	DATE	DESCRIPTION

**RICHARD B. SCHOMMER, JR. P.E.** DATE  
 NJ PROFESSIONAL ENGINEER LIC. NO. 24GE02353400  
 ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL.  
 THIS SHALL NOT BE CONSIDERED AN OFFICIAL DOCUMENT UNLESS IT CONTAINS THE SIGNED SEAL OF THE LICENSEE.  
 DESIGNED BY: RBS DRAWN BY: LN CHECKED BY: TM REVIEWED BY: RBS  
 PROJECT NO: BOME2201 DATE: MAR 12, 2024 SCALE: AS SHOWN

**Borough of Metuchen**

**EMERGENCY SERVICES CENTER**

**1 SAFETY PLACE**  
**METUCHEN NJ, 08840**  
**BOROUGH OF METUCHEN**  
**COUNTY OF MIDDLESEX**  
**NEW JERSEY**

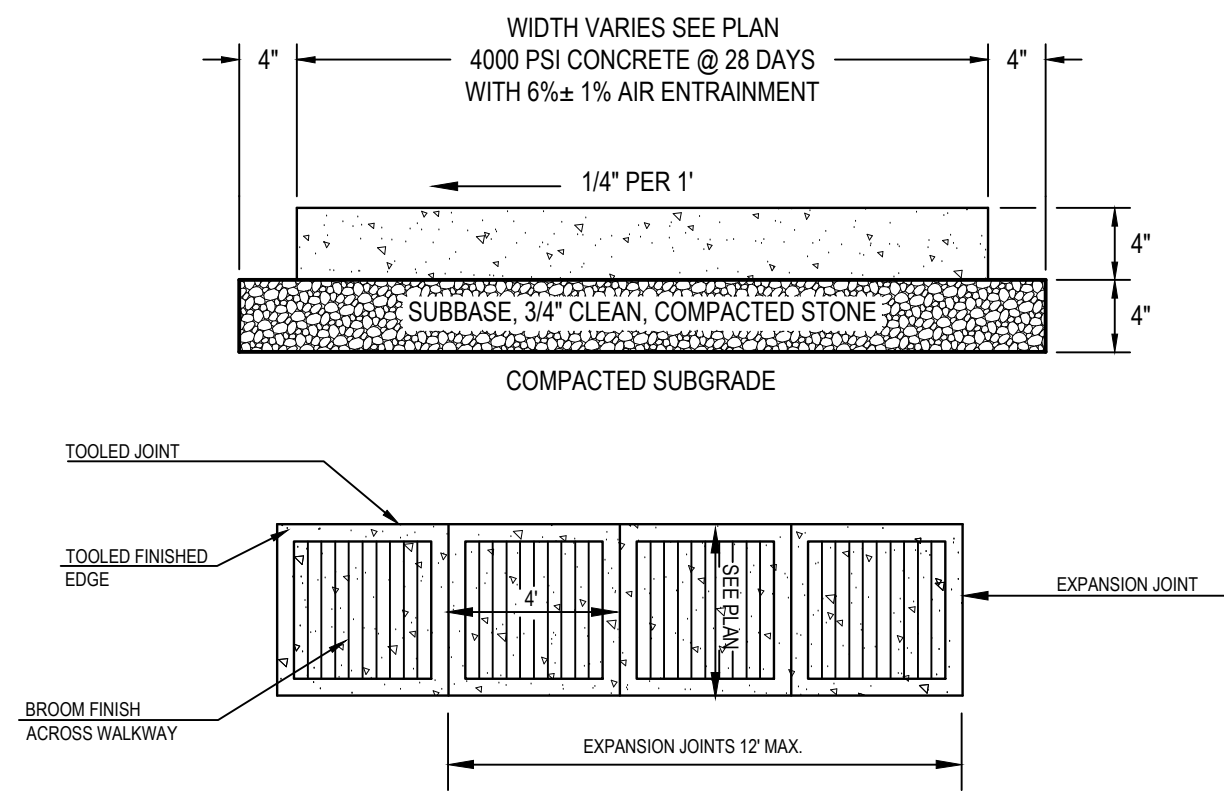
STATUS: **90% - NFC**

SHEET TITLE: **LANDSCAPE PLAN**

DRAWING No: **CL 100.00**

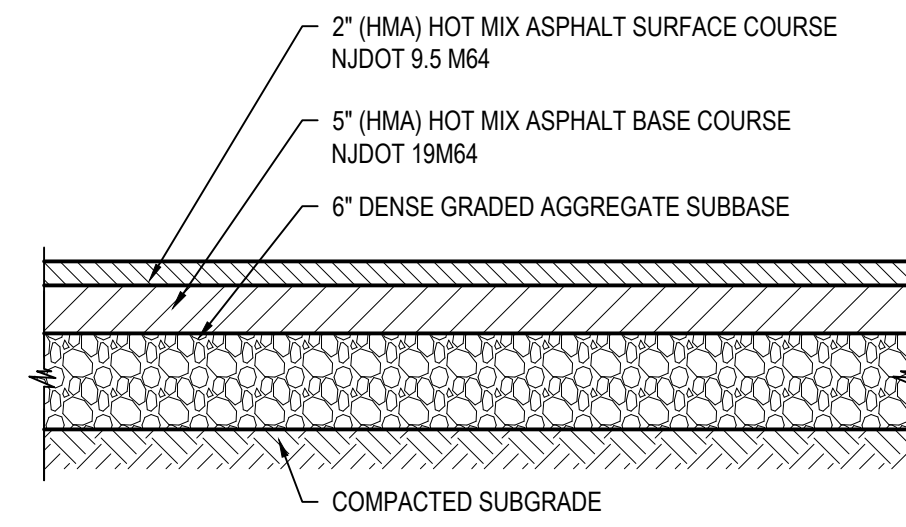
811  
 One Call, New Jersey  
**Call811**  
 Know what's below. Call before you dig  
 www.NJ1-Call.org





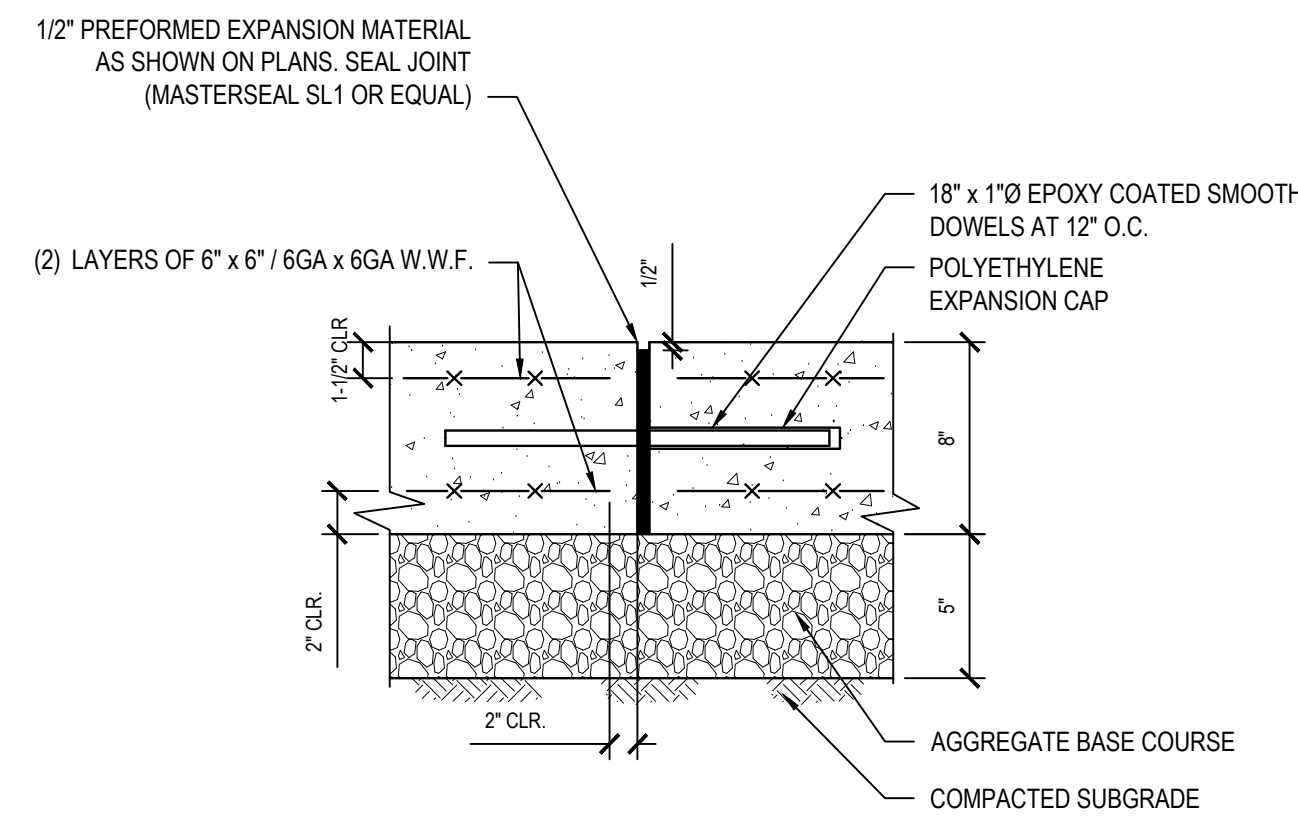
- NOTES:**
- COLOR AND SCORING PATTERNS SHALL MATCH EXISTING FOR CONCRETE SIDEWALK. SEE DETAIL.
  - ANY CONCRETE PLACED BETWEEN NOVEMBER 15 AND APRIL 1 MUST CONFORM TO ARTICLES 501.11 AND 501.17 OF THE N.J.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 1999 EDITION, USING 2% CALCIUM CHLORIDE, HOT WATER, COVERED WITH SALT HWY.
  - WHERE SIDEWALK ABUTS CURBING, INSTALL EXPANSION JOINT BETWEEN CURB AND SIDEWALK LONG ENTIRE LENGTH.
  - SLUMP TEST: 3" - 4".
  - EXPANSION JOINTS EVERY 12'. CONSTRUCTION JOINTS EVERY 4' AT A DEPTH OF 1/4 THICKNESS OF CONCRETE.
  - ALL SIDEWALK MUST BE SPRAYED WITH WHITE PIGMENTED CURING COMPOUND AFTER BROOM FINISHING.

**1 Concrete Sidewalk**  
SCALE: N.T.S.



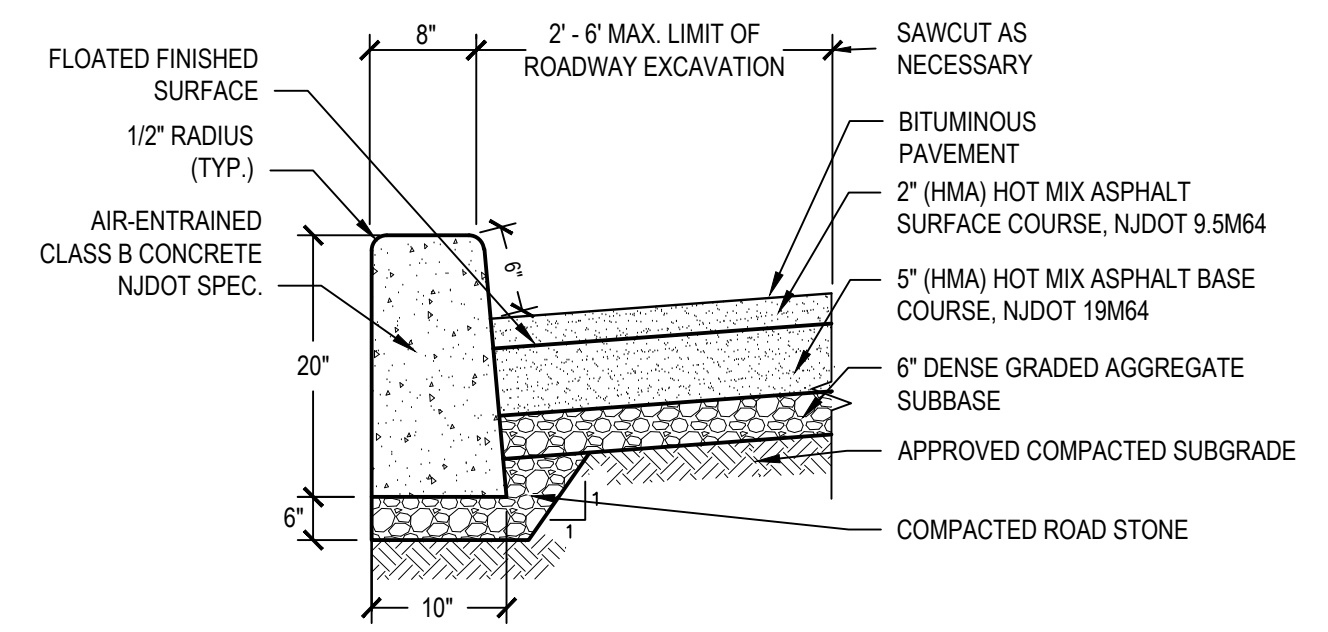
- NOTE:**  
COMPACT SUBGRADE TO 95% MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557.

**2 Driveway Pavement Section**  
SCALE: N.T.S.



- NOTE:**
- CONCRETE TO ACHIEVE 4,000 P.S.I. STRENGTH AT 28 DAYS.
  - APPLY BROOM FINISH PERPENDICULAR TO PRIMARY DIRECTION OF TRAVEL.
  - THIS DETAIL APPLIES TO ALL JOINTS IN NEW CONCRETE PAVEMENT AND WHEN NEW CONCRETE PAVEMENT ABUTS EXISTING CONCRETE PAVEMENT. WHEN ABUTTING EXISTING CONCRETE PAVEMENT, DRILL AND GROUT DOWELS INTO EXISTING CONCRETE PAVEMENT.
  - COMPACT SUBGRADE TO 95% MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557.

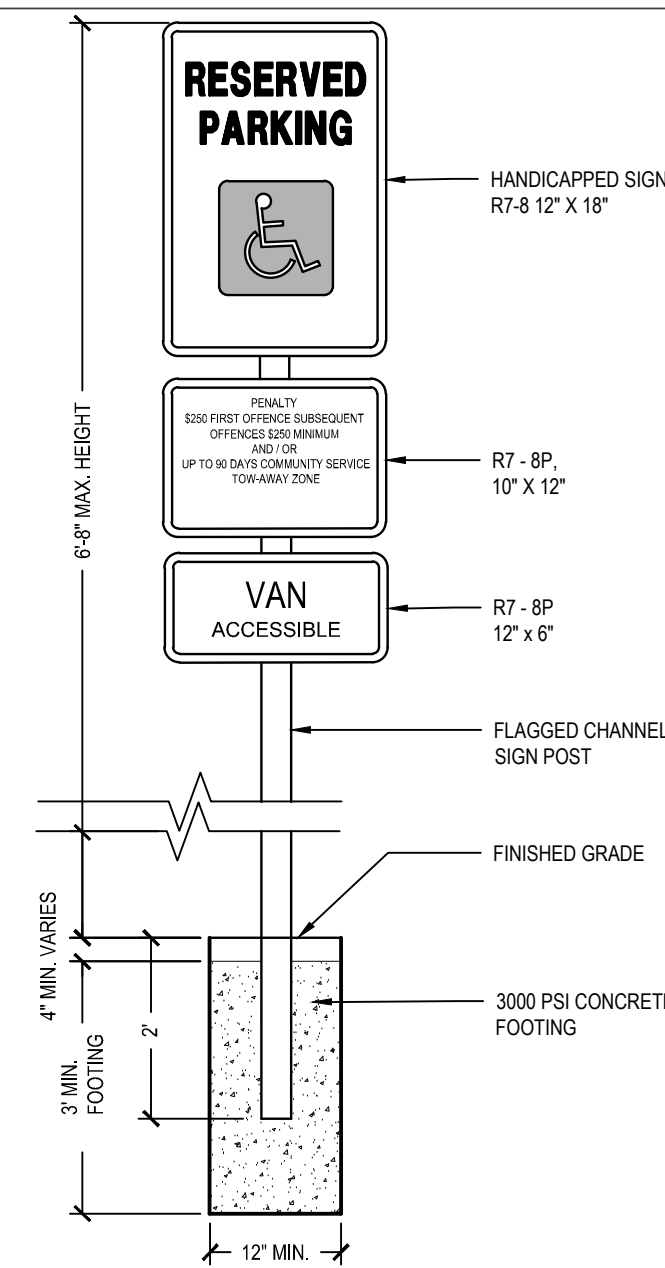
**3 Concrete Pad for Fire Exercises**  
SCALE: N.T.S.



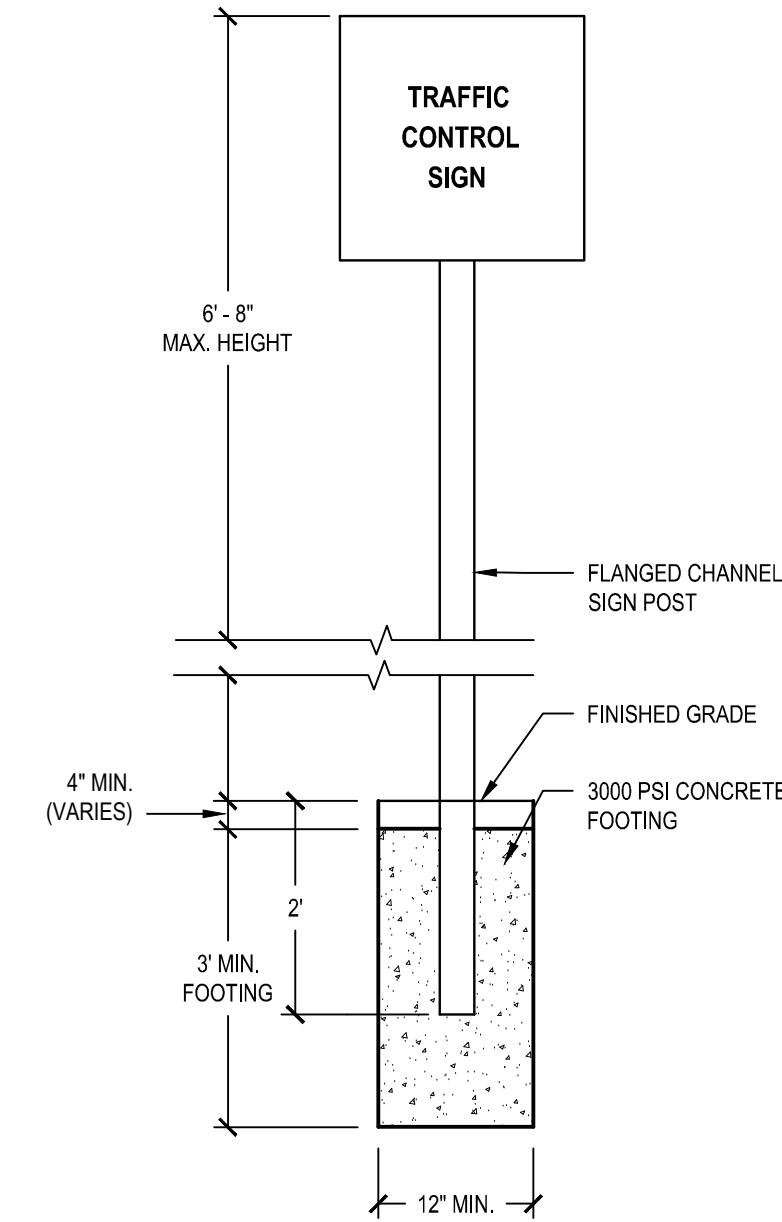
- NOTES:**
- EXPANSION JOINTS TO BE SET AT 10' INCREMENTS.
  - TRANSVERSE JOINTS 1/2" WIDE SHALL BE INSTALLED IN THE CURB 20'-0" APART AND SHALL BE FILLED WITH PREFORMED BITUMINOUS-IMPREGNATED FIBER JOINT FILLER, COMPLYING WITH THE REQUIREMENT OF A.A.S.H.T.O. SPEC. M-123, RECESSED 1/4" IN. FROM FRONT FACE AND TOP OF CURB. EXPANSION JOINTS THRU AND ADJACENT TO THE CURB SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CURB.

**4 Concrete Curb & Roadway Excavation at Curb**  
SCALE: N.T.S. SPECIFICATION #

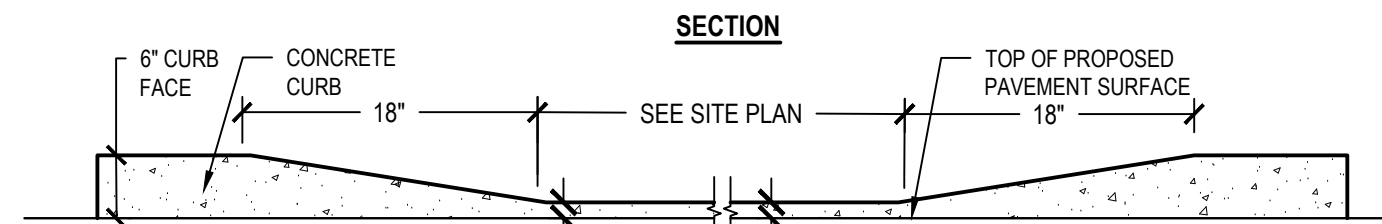
MARK	DATE	DESCRIPTION



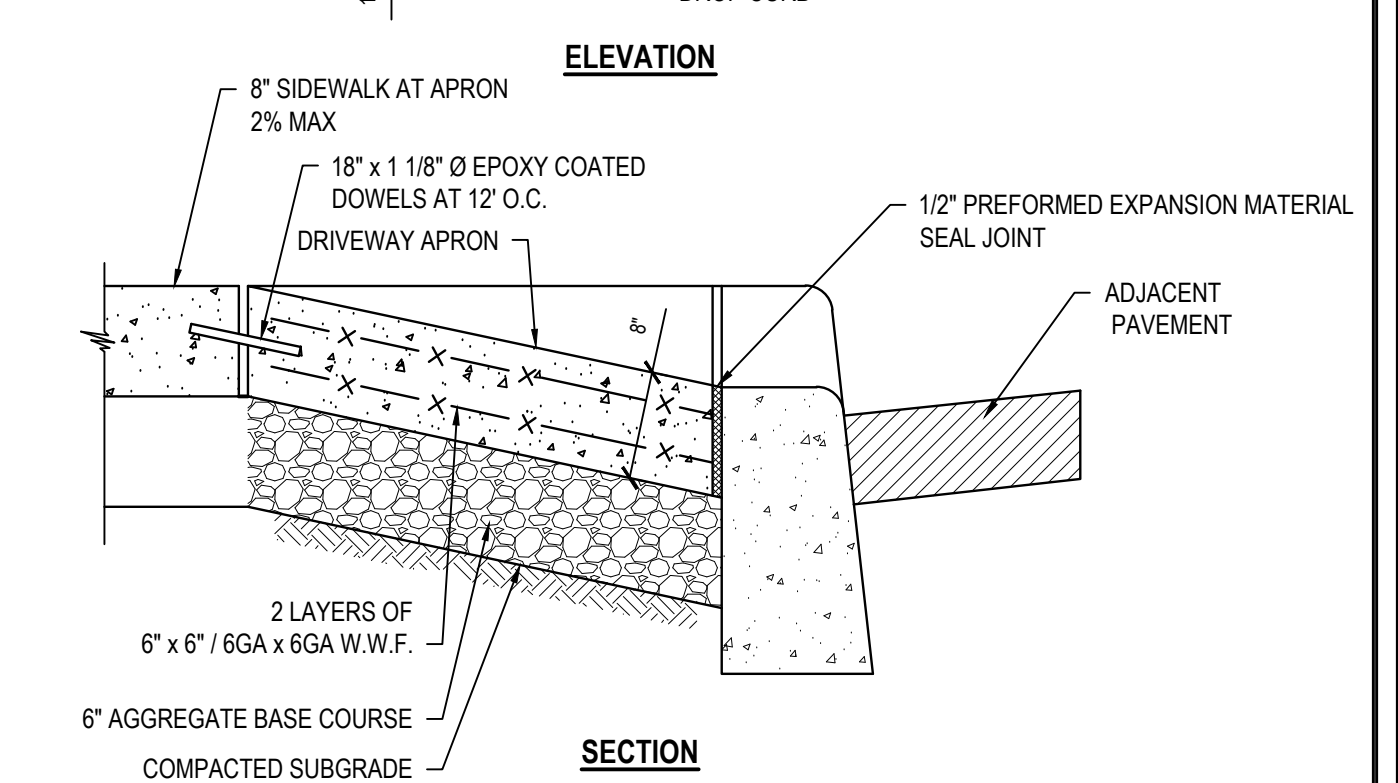
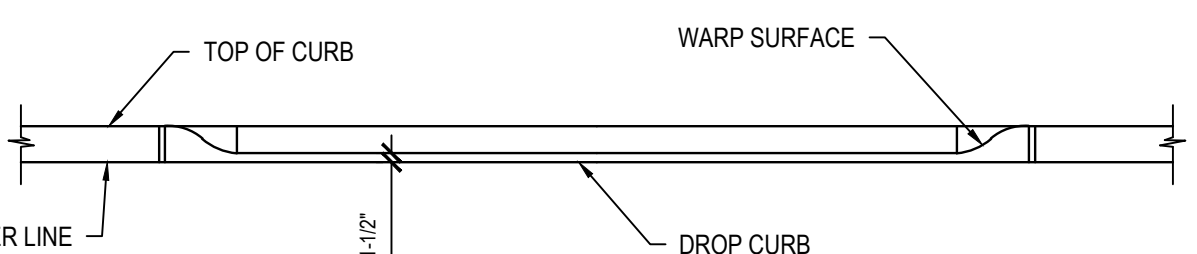
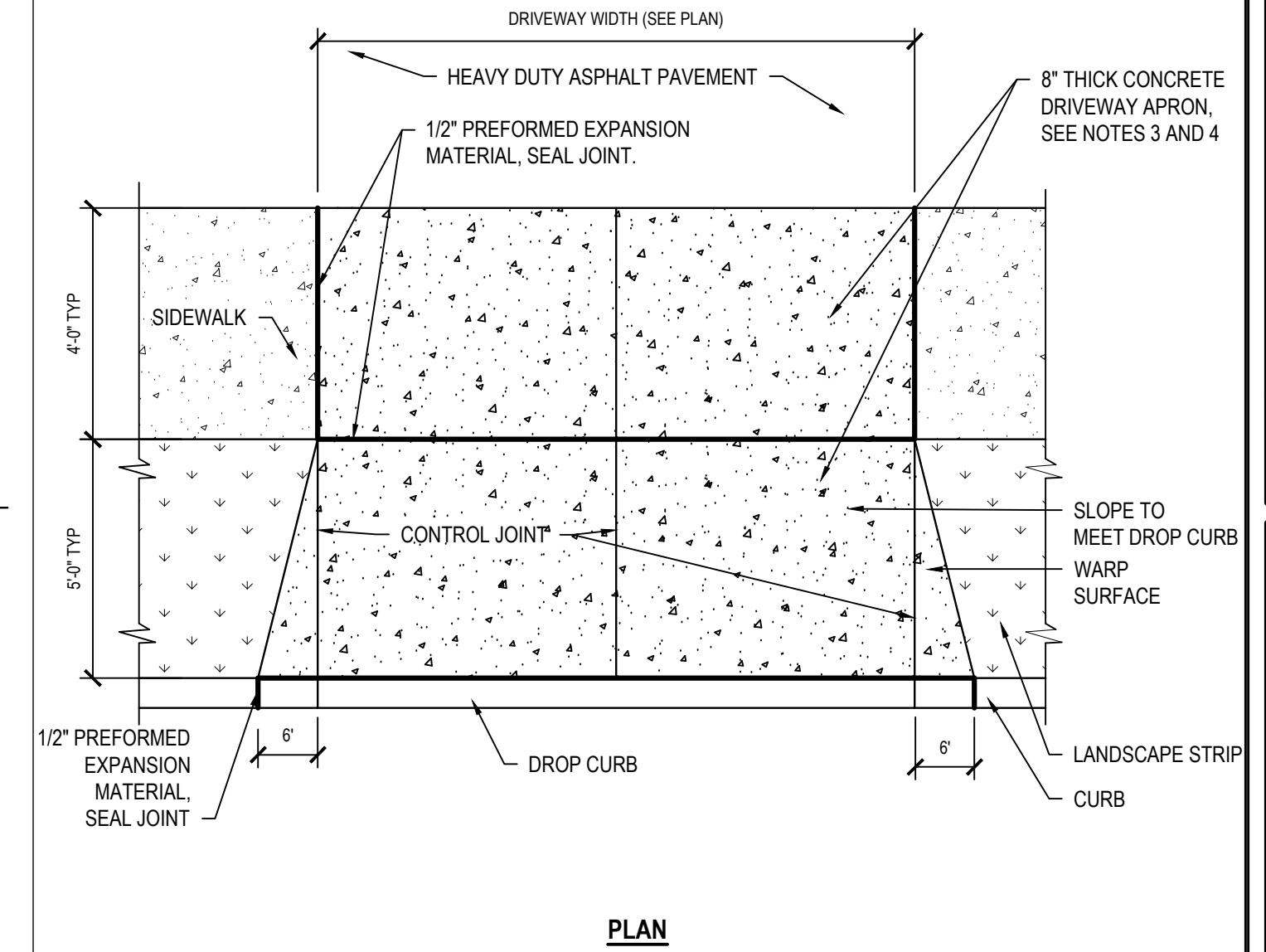
**5 Handicapped Parking Sign R7-8 with R7-8P and R7-8A**  
SCALE: N.T.S.



**6 Mounting Post for Traffic Control Signs**  
SCALE: N.T.S.



**7 Depressed Concrete Curb**  
SCALE: N.T.S.



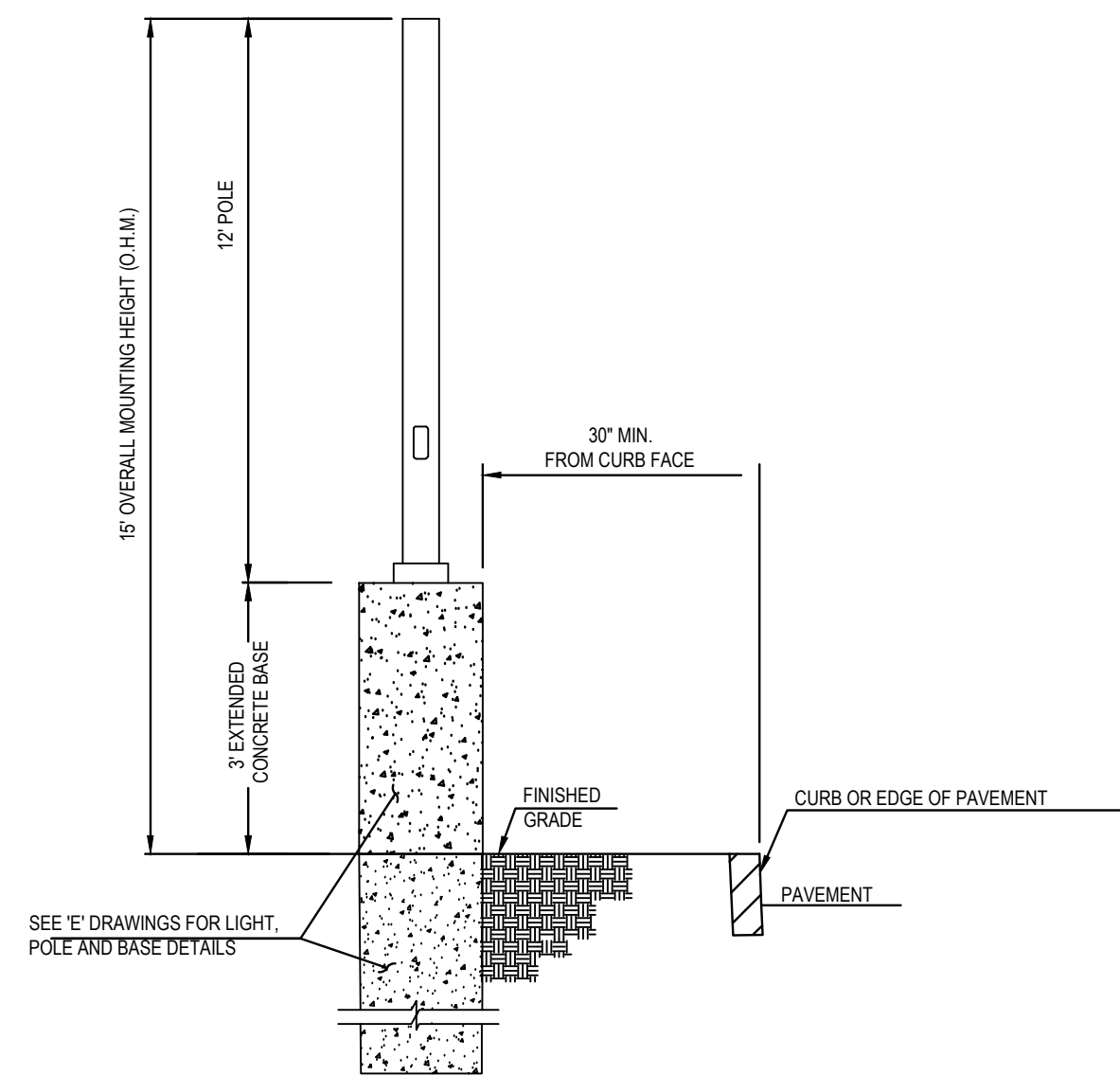
- NOTES:**
- CONCRETE TO ACHIEVE 4,000 P.S.I. STRENGTH AT 28 DAYS.
  - COMPACT SUBGRADE TO 95% MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557.
  - APPLY BROOM FINISH PERPENDICULAR TO DIRECTION OF PEDESTRIAN TRAVEL.
  - APPLY BROOM FINISH PERPENDICULAR TO DIRECTION OF VEHICULAR TRAVEL.

**11 Driveway Apron (On Extended Concrete Base)**  
SCALE: N.T.S.

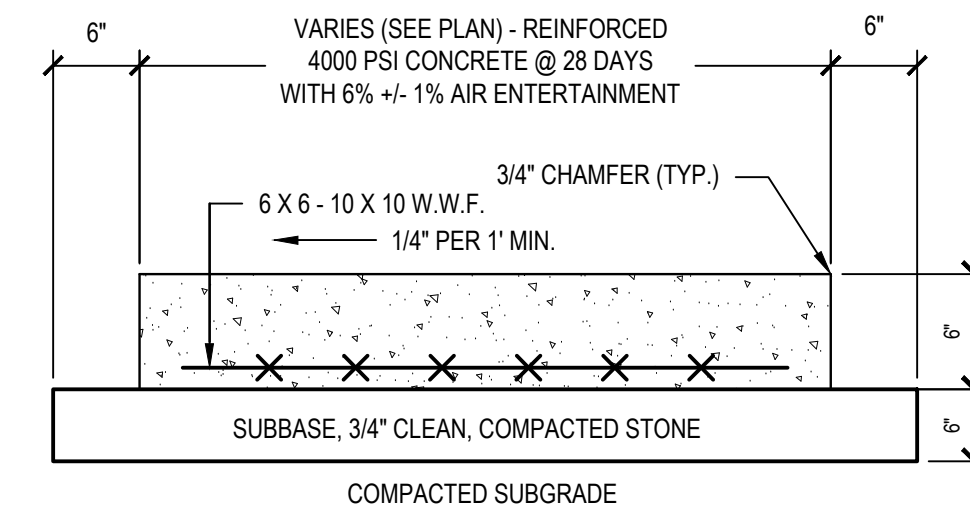


R 1-1 (24" X 24")

**8 Stop Sign**  
SCALE: N.T.S.

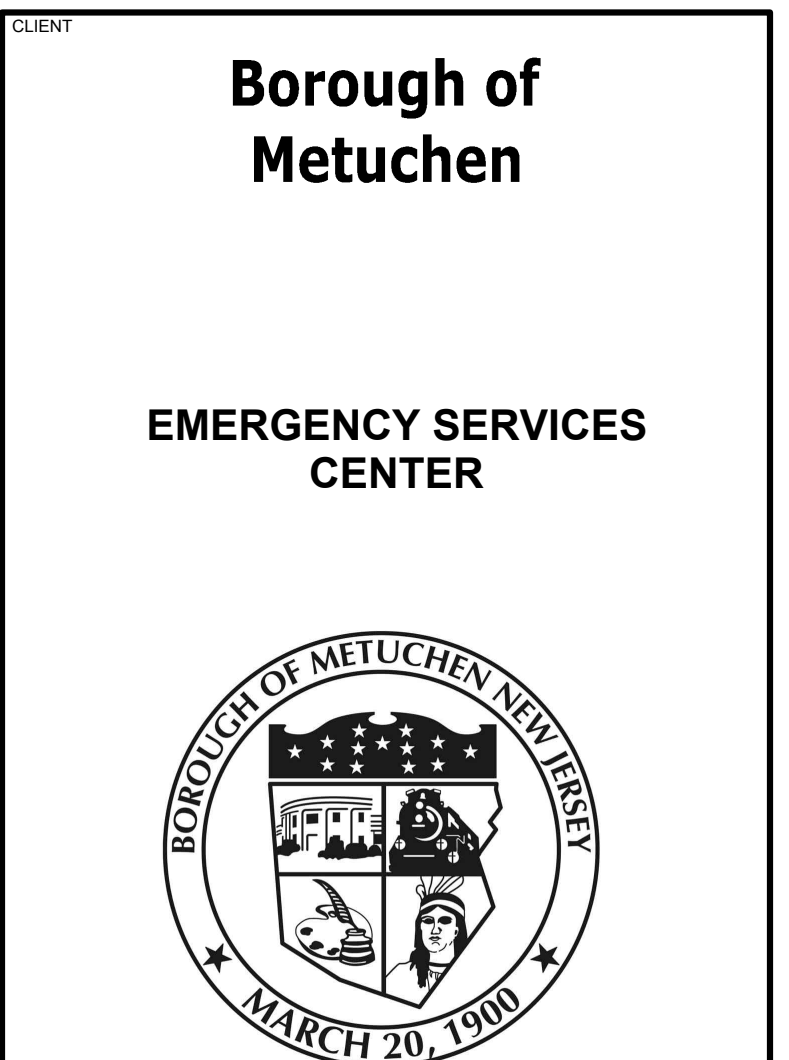


**9 Pole-Mounted Light Fixture (On Extended Concrete Base)**  
SCALE: N.T.S.



- NOTES:**
- CONCRETE PLACED DURING COLD WEATHER PERIODS SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 501.11 AND 501.17 OF THE NJDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AS AMENDED.
  - SLUMP TEST: 3" - 4".

**10 Concrete Pad**  
SCALE: N.T.S.

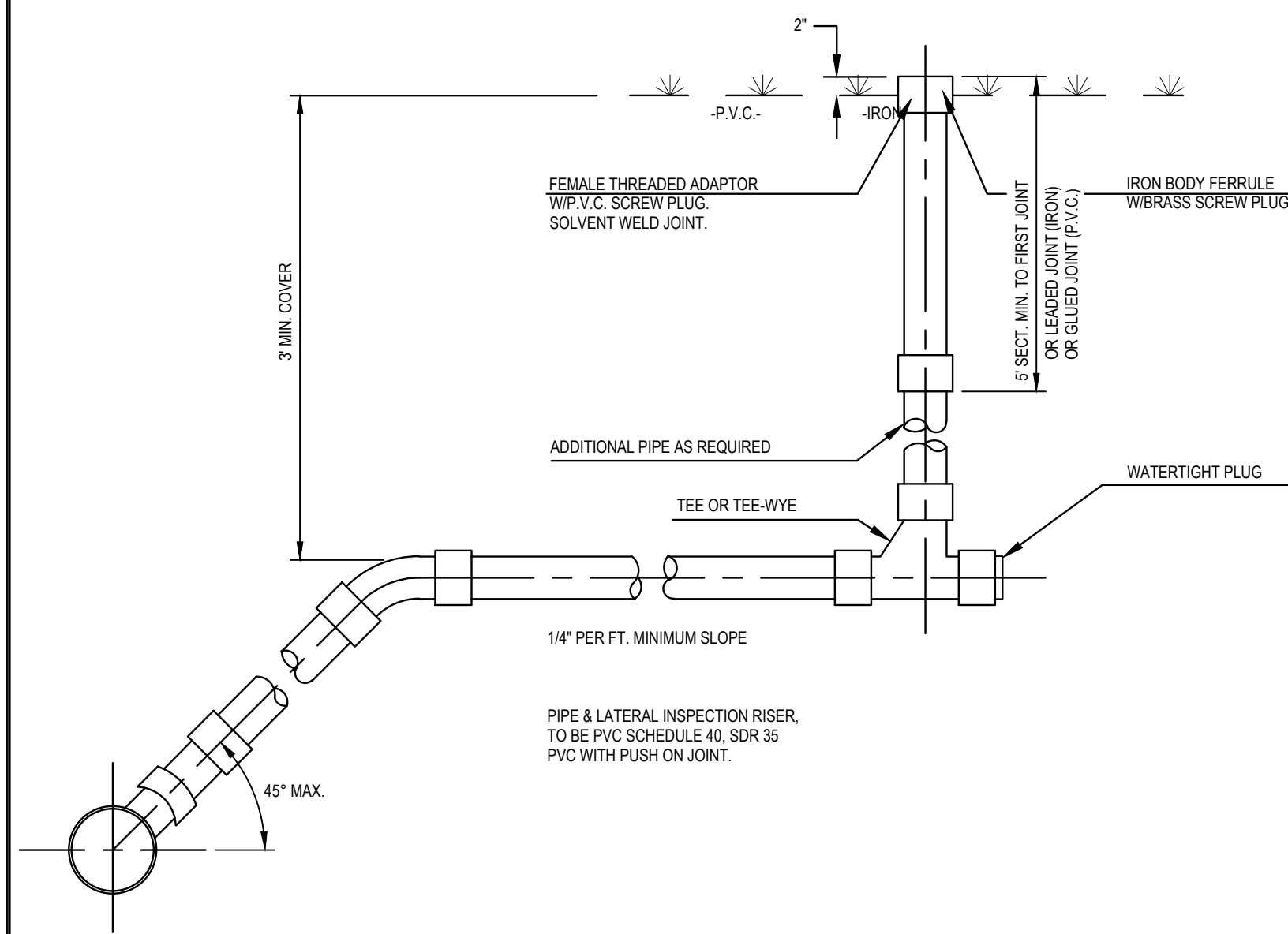


**1 SAFETY PLACE**  
**METUCHEN NJ, 08840**  
**BOROUGH OF METUCHEN**  
**COUNTY OF MIDDLESEX**  
**NEW JERSEY**

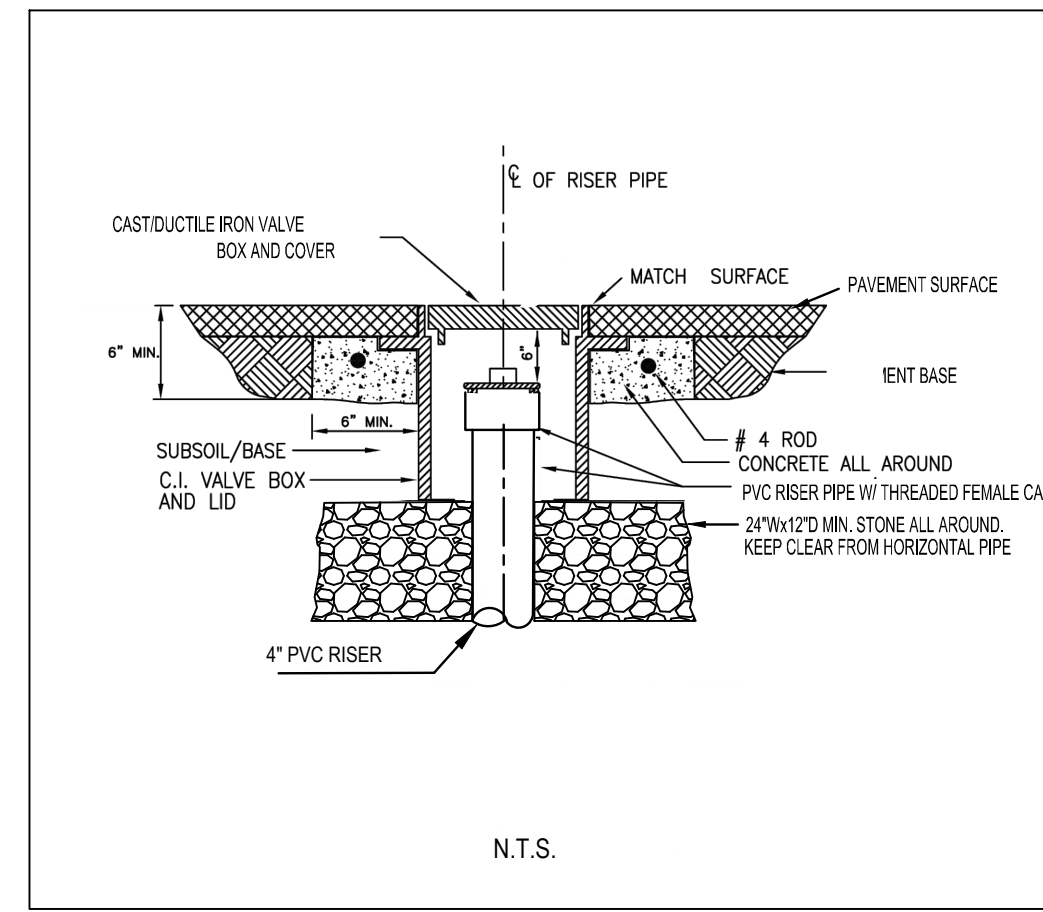
STATUS	<b>90% - NFC</b>
SHEET TITLE	<b>SITE DETAILS</b>

X:\SOURCE\Borough of Metuchen - NJ\BOME2201-New-Files\Drawings\02-SITE\02-CADD\02-Accessories\08\_EC-501\_Detailed.dwg Last Modified: Feb 09, 2024 1:07pm Plotted on: Mar 12, 2024 8:46am By: jrb

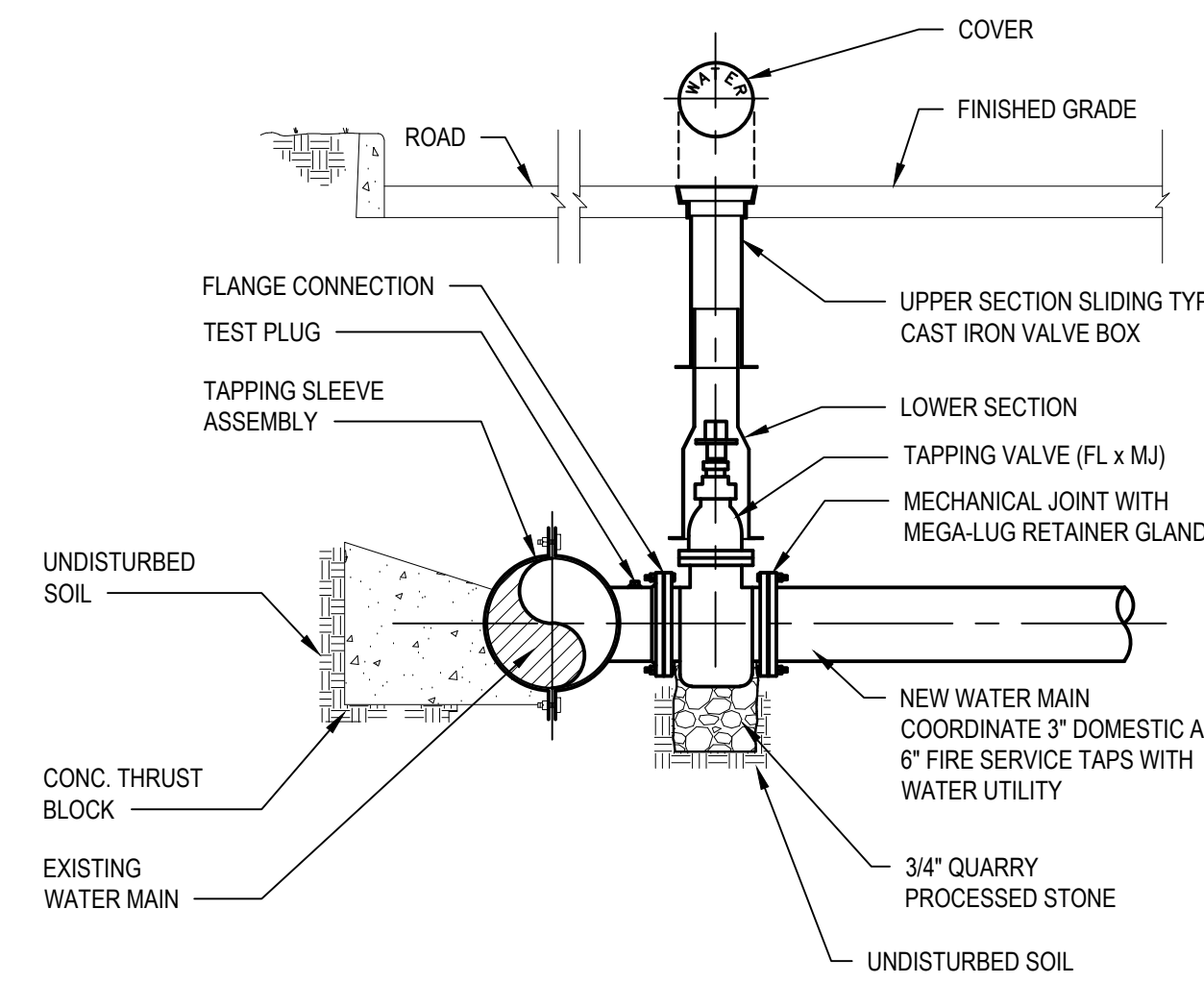




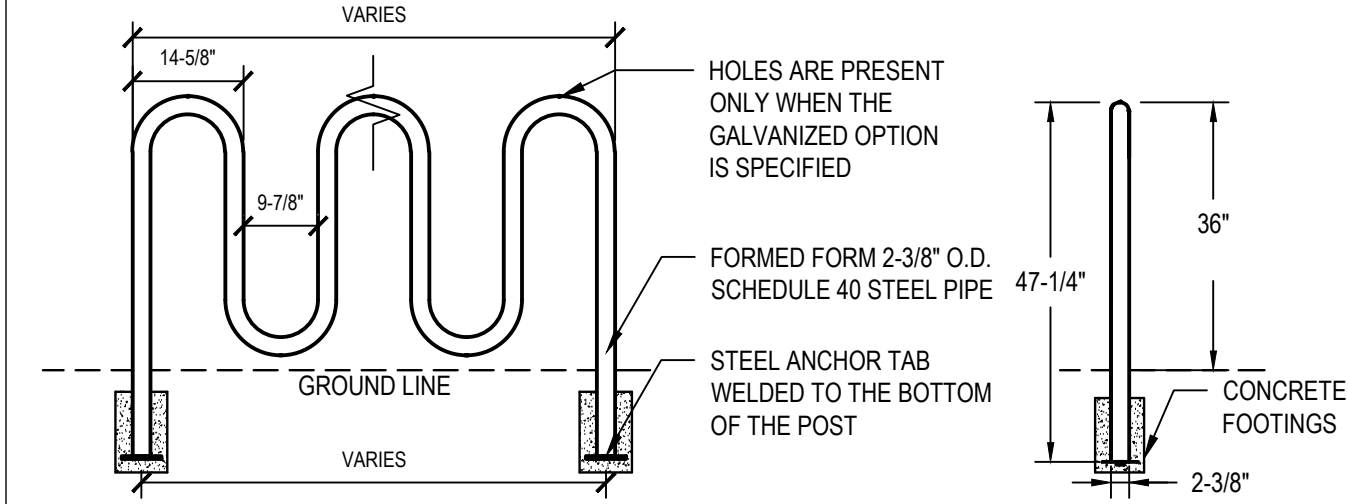
1 Sanitary Lateral & Inspection Riser  
SCALE: N.T.S.



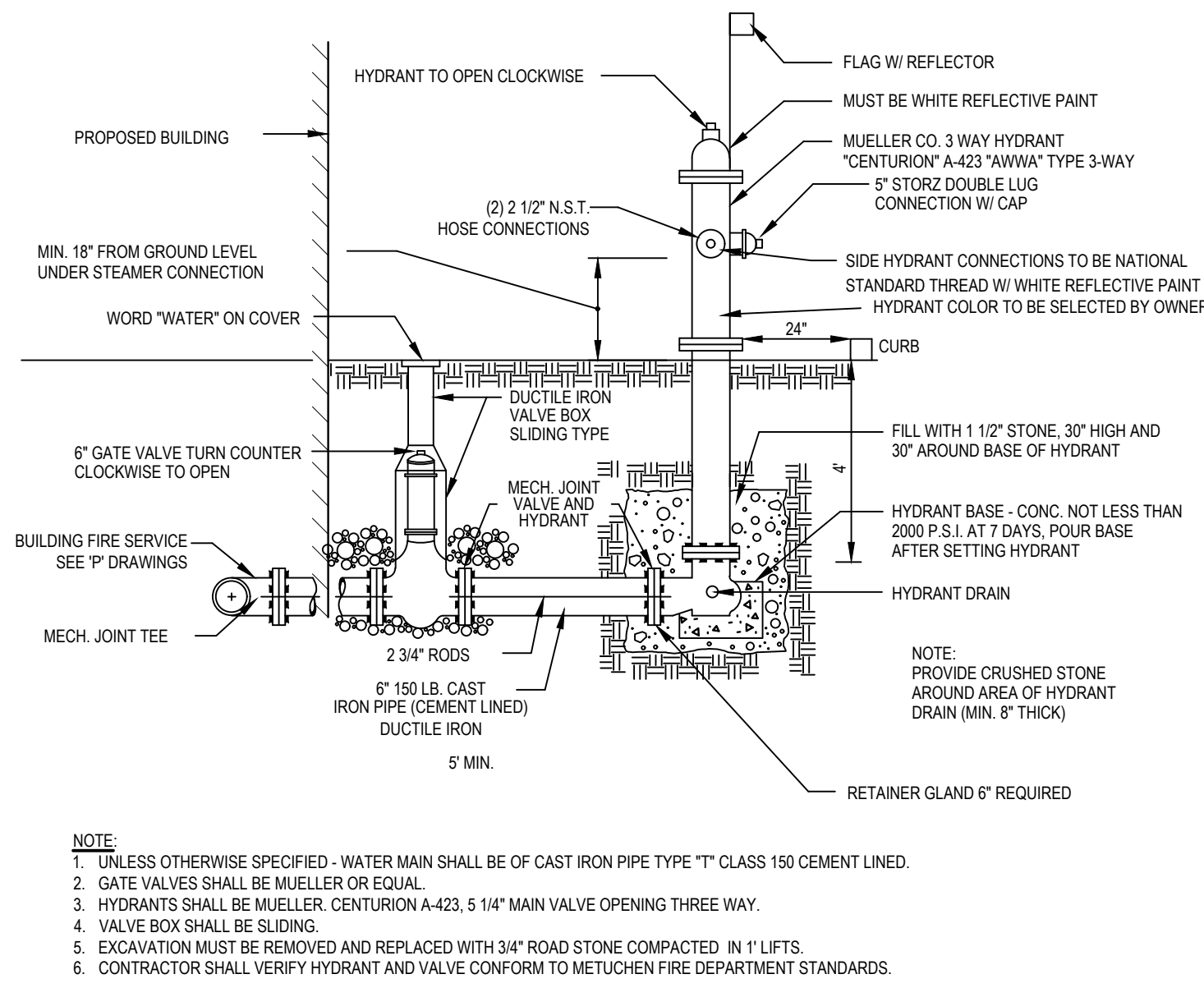
2 Sanitary Sewer Clean-Out (Traffic Areas Only)  
SCALE: N.T.S.



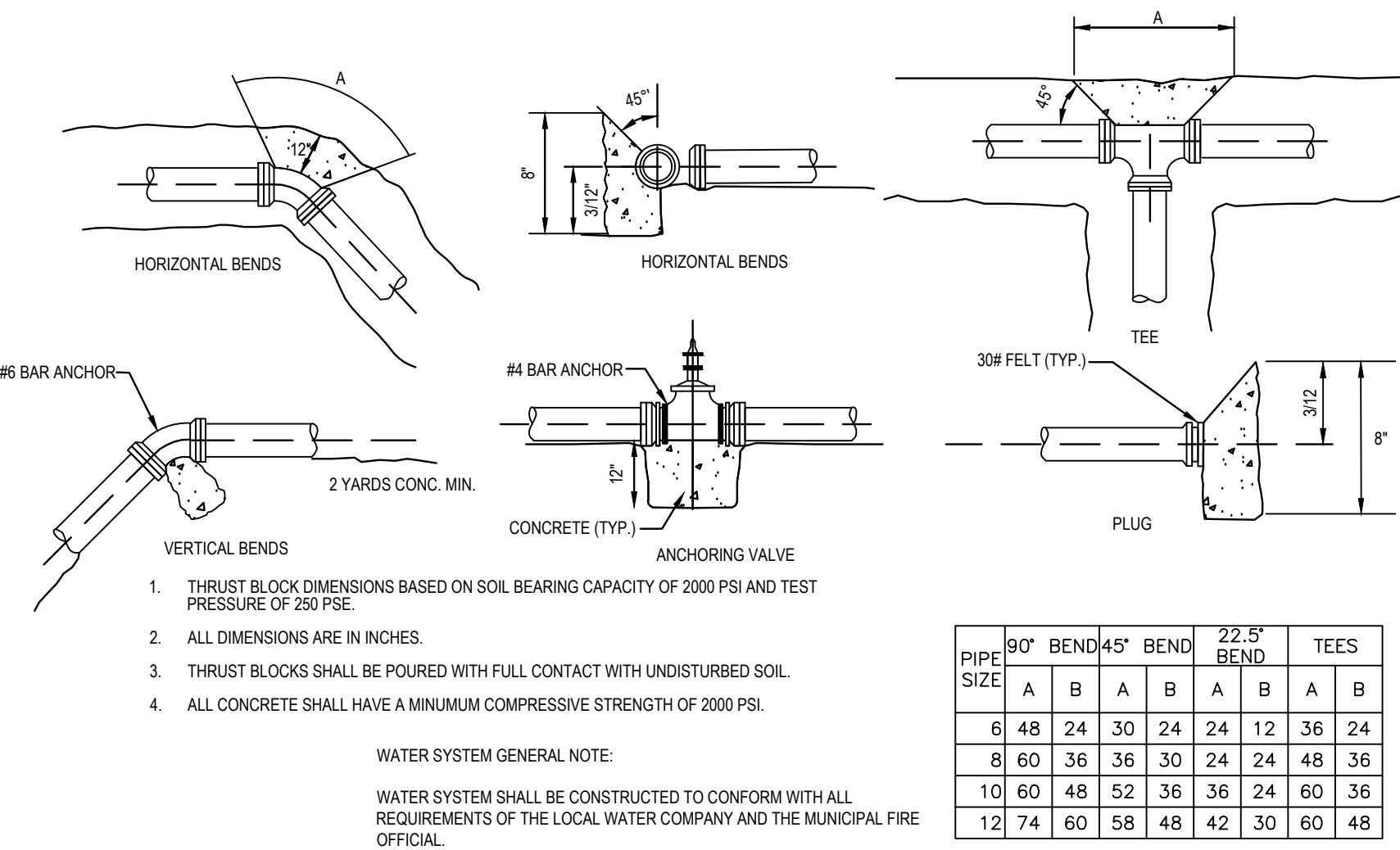
3 Wet Tap Connection  
SCALE: N.T.S. 331411



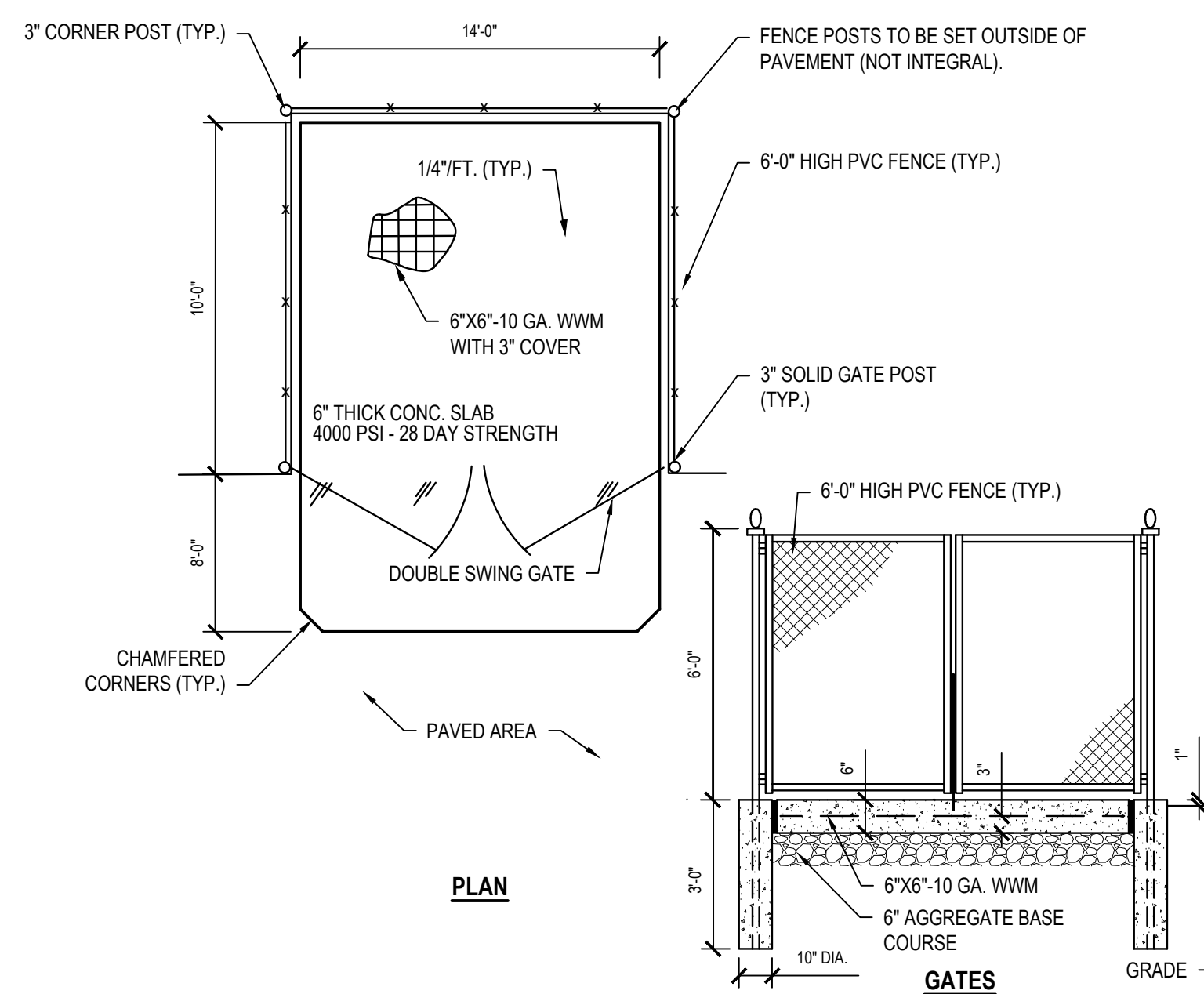
4 Bike Rack Detail  
SCALE: N.T.S.



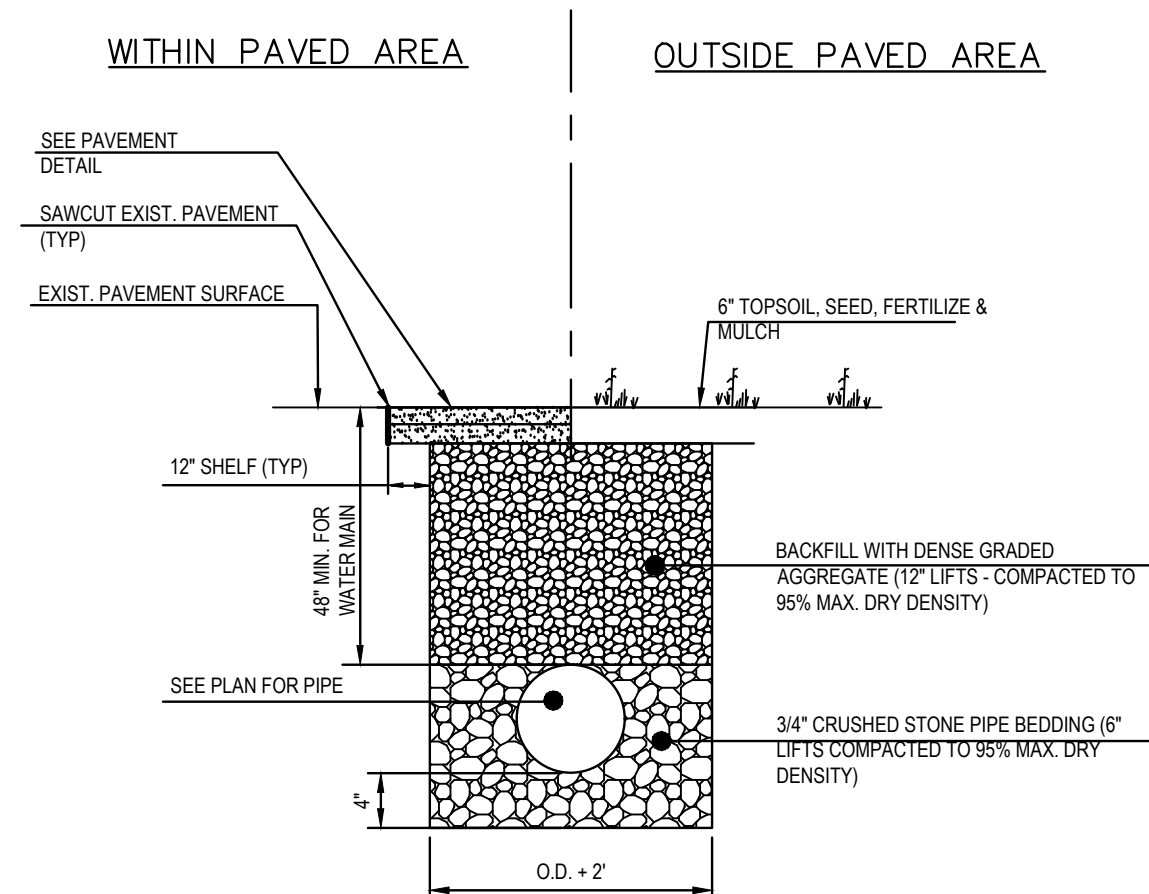
5 Training Hydrant Installation  
SCALE: N.T.S.



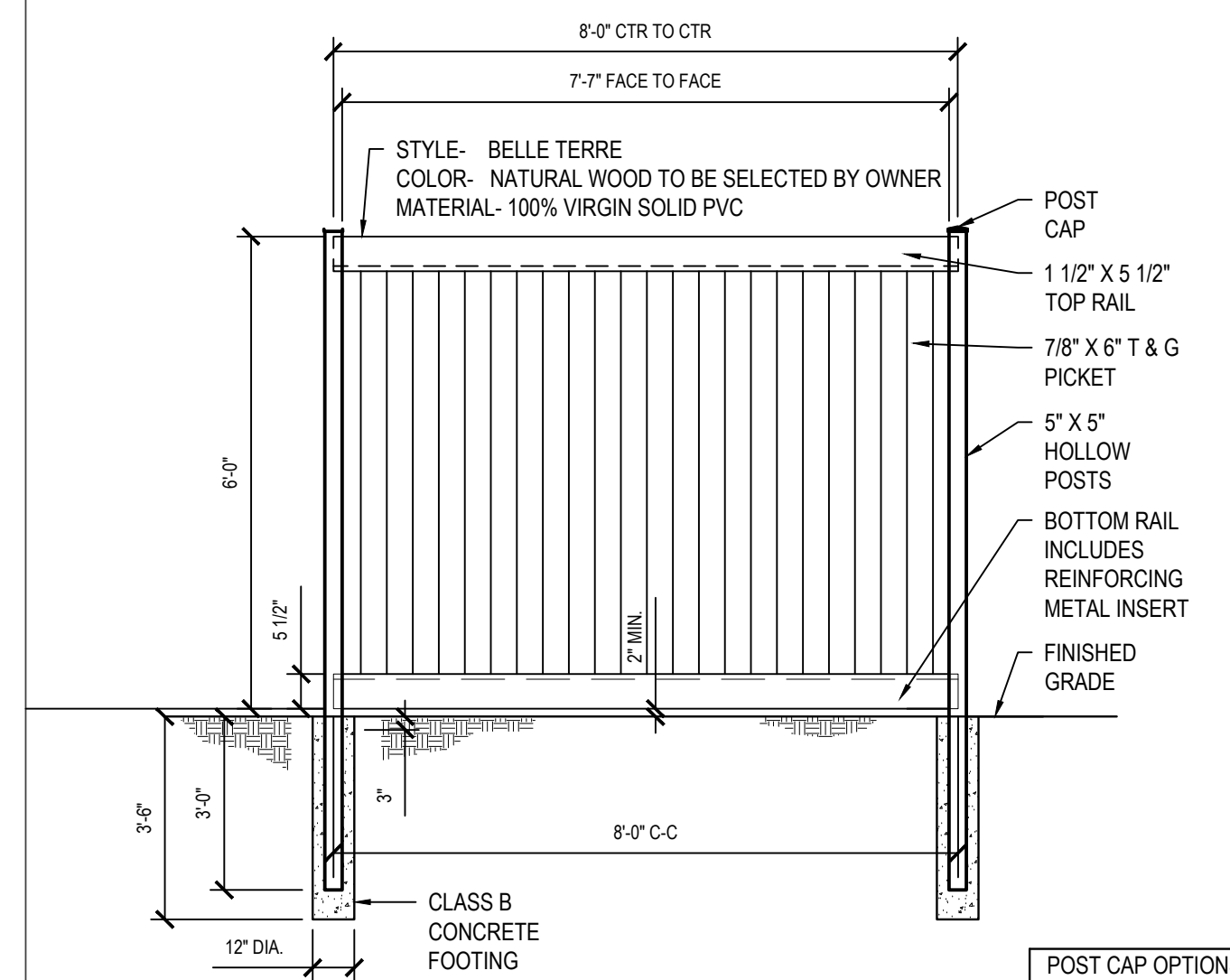
6 Thrust Block Detail  
SCALE: N.T.S.



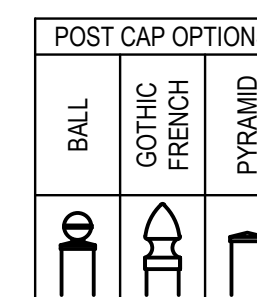
7 Dumpster Enclosure & Pad  
SCALE: N.T.S.



8 Pipe Trench  
SCALE: N.T.S.



10 6'-0" PVC Fence  
SCALE: N.T.S.



H2M Architects & Engineers, Inc.

119 Cherry Hill Road, Suite 110  
Parsippany, NJ 07054  
962.207.5900 • www.h2m.com  
NJ Architecture Certificate of Authorization No. 21ACA0102900  
NJ Engineering Certificate of Authorization No. 24GA28025500

CONSULTANTS:

MARK	DATE	DESCRIPTION

**RICHARD B. SCHOMMER, JR. P.E.** DATE  
NJ PROFESSIONAL ENGINEER LIC. NO. 24260203400  
 ALTERNATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL.  
 THIS SHALL NOT BE CONSIDERED AN OFFICIAL DOCUMENT UNLESS IT CONTAINS THE RABED SEAL OF THE LICENSEE.

DESIGNED BY: RBS DRAWN BY: LN CHECKED BY: TM REVIEWED BY: RBS  
 PROJECT NO: BOME2201 DATE: MAR 12, 2024 SCALE: AS SHOWN

CLIENT

**Borough of Metuchen**

**EMERGENCY SERVICES CENTER**

1 SAFETY PLACE  
 METUCHEN NJ, 08840  
 BOROUGH OF METUCHEN  
 COUNTY OF MIDDLESEX  
 NEW JERSEY

STATUS: 90% - NFC

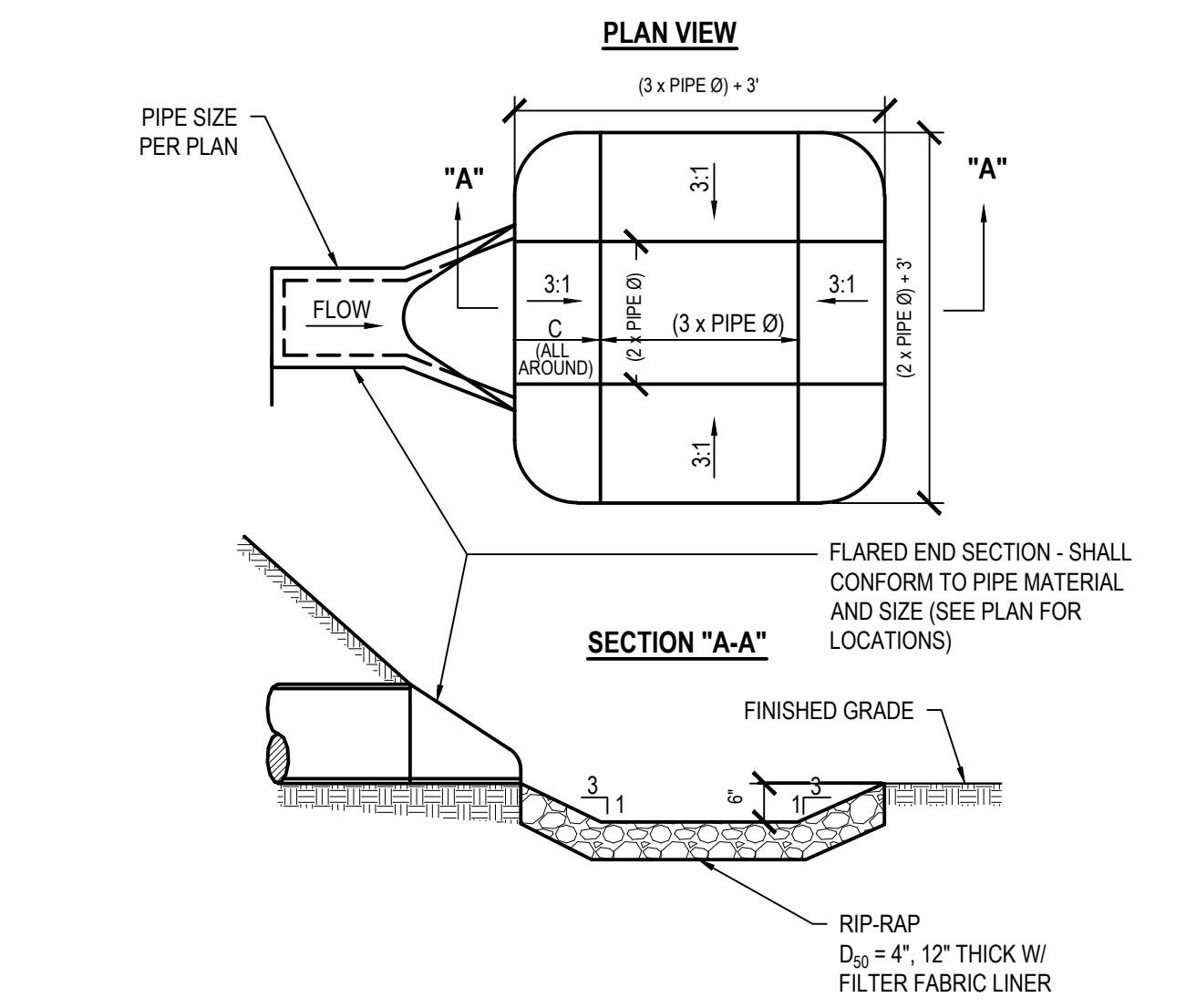
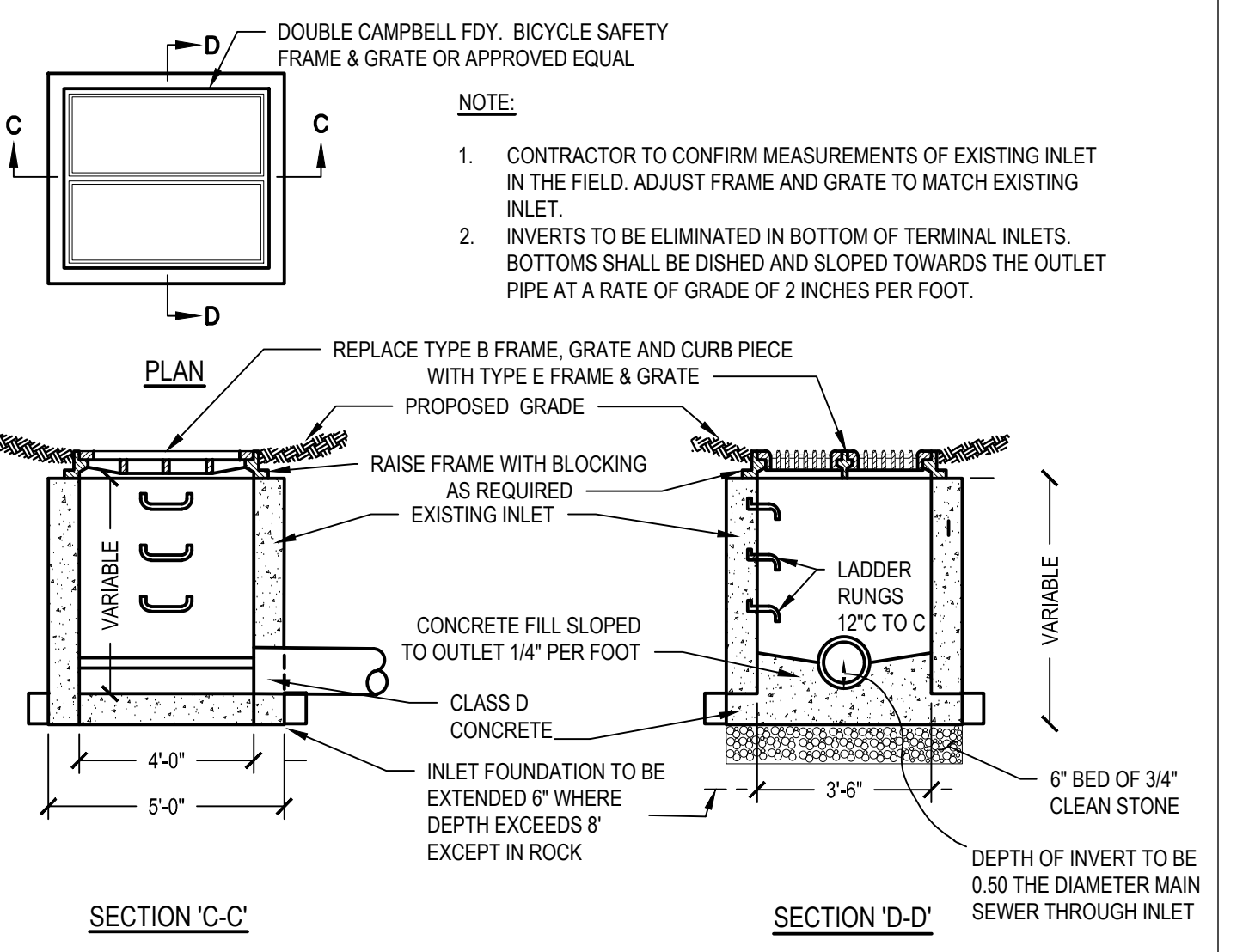
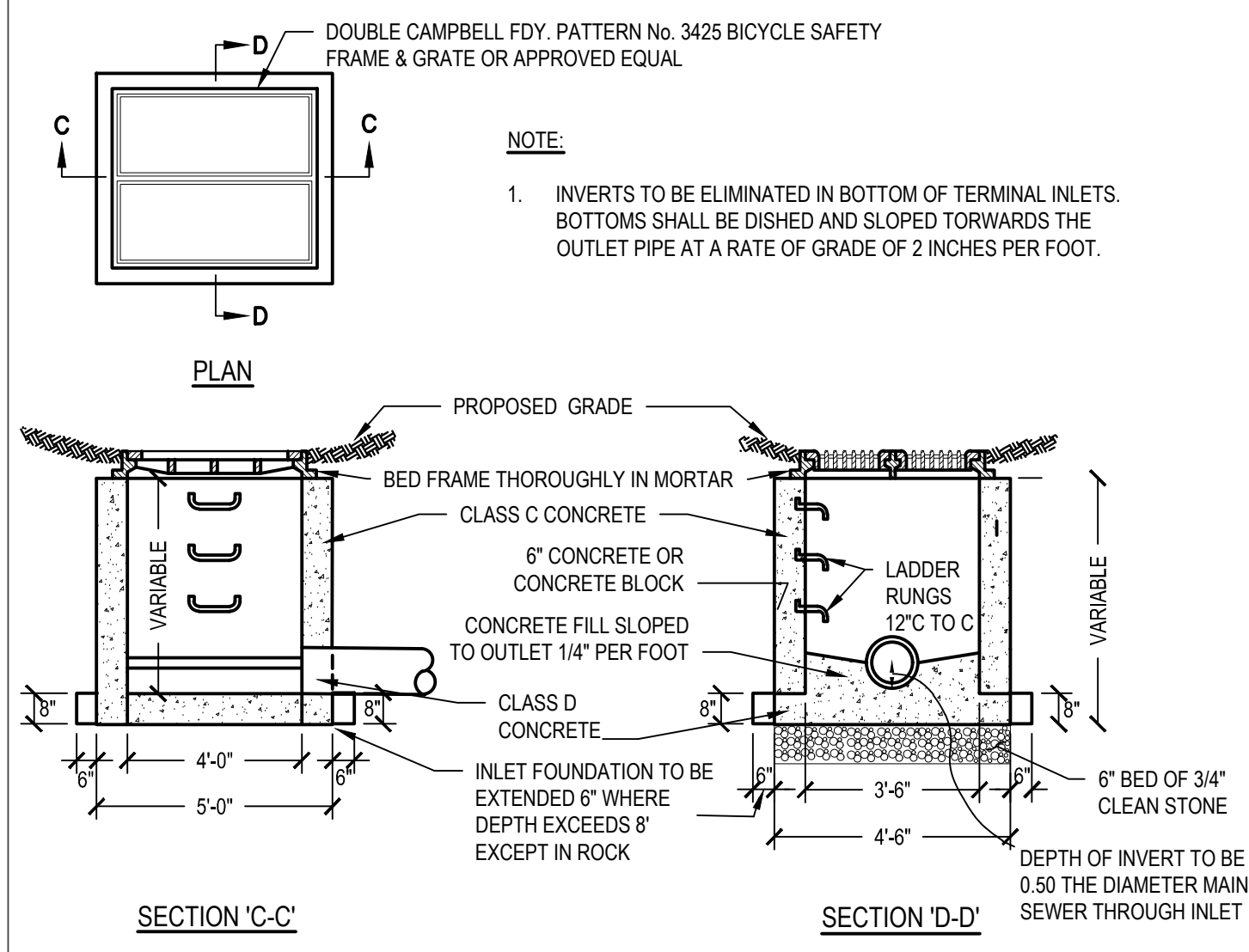
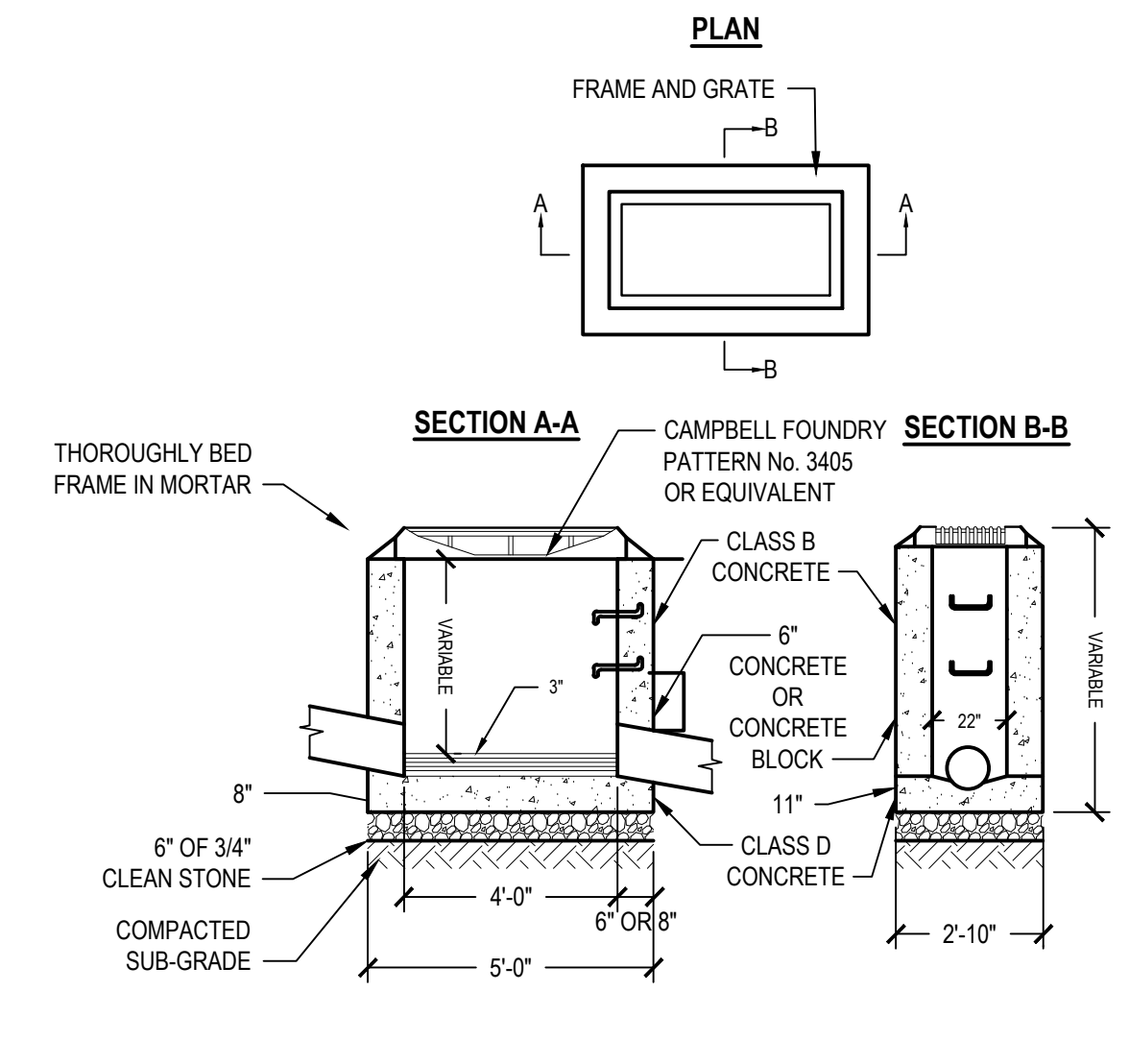
SHEET TITLE: SITE DETAILS

DRAWING NO. C 502.00

X:\BOMC\Borough of Metuchen - NJ\BOMC2201-New Firehouse\03-BM-CAD\02-CAD\02-Access\03-BOMC-02-Dishes.dwg Last Modified: Feb 09, 2024, 1:07pm Plotted on: Mar 12, 2024, 8:15am By: jbarbas

CONSULTANTS:


MARK	DATE	DESCRIPTION

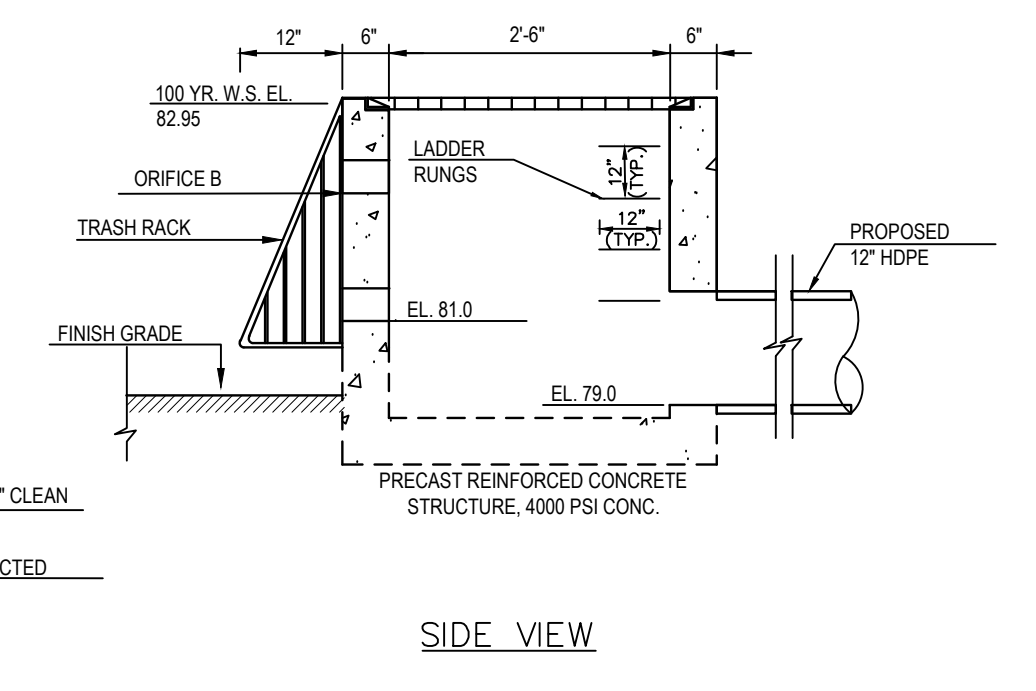
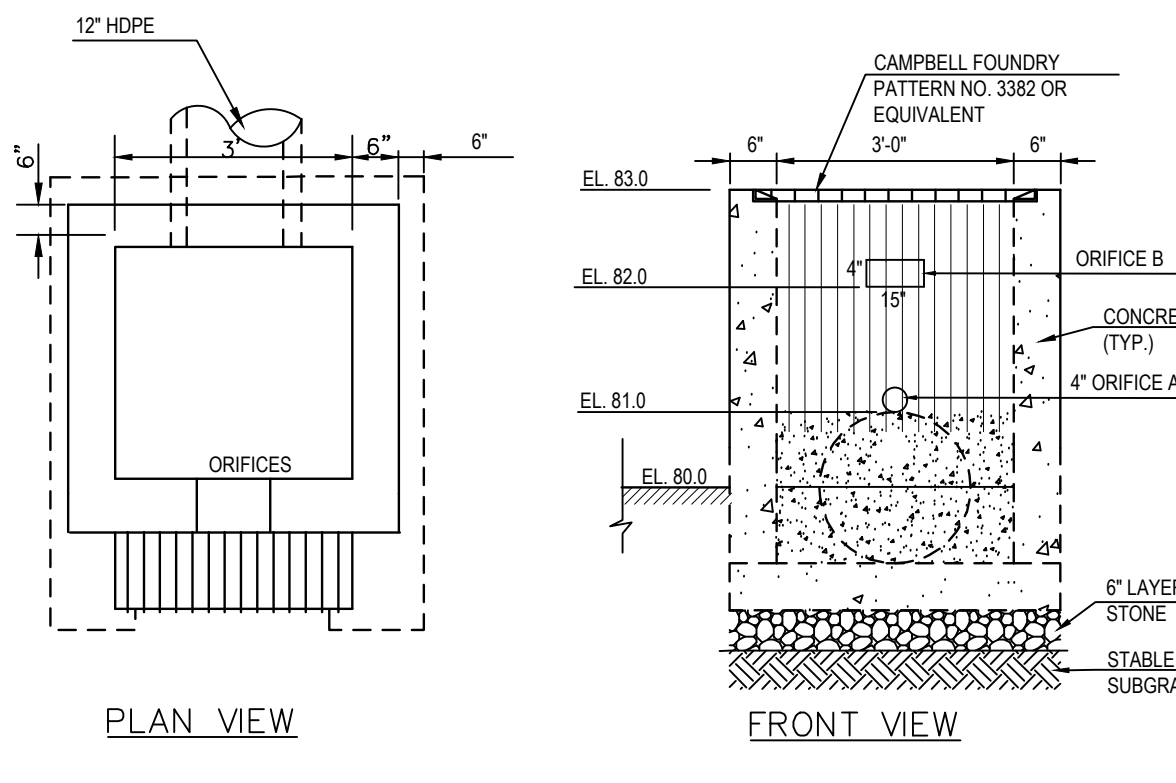


1 Type 'A' Inlet  
SCALE:N.T.S.

2 Type 'E' Inlet  
SCALE:N.T.S.

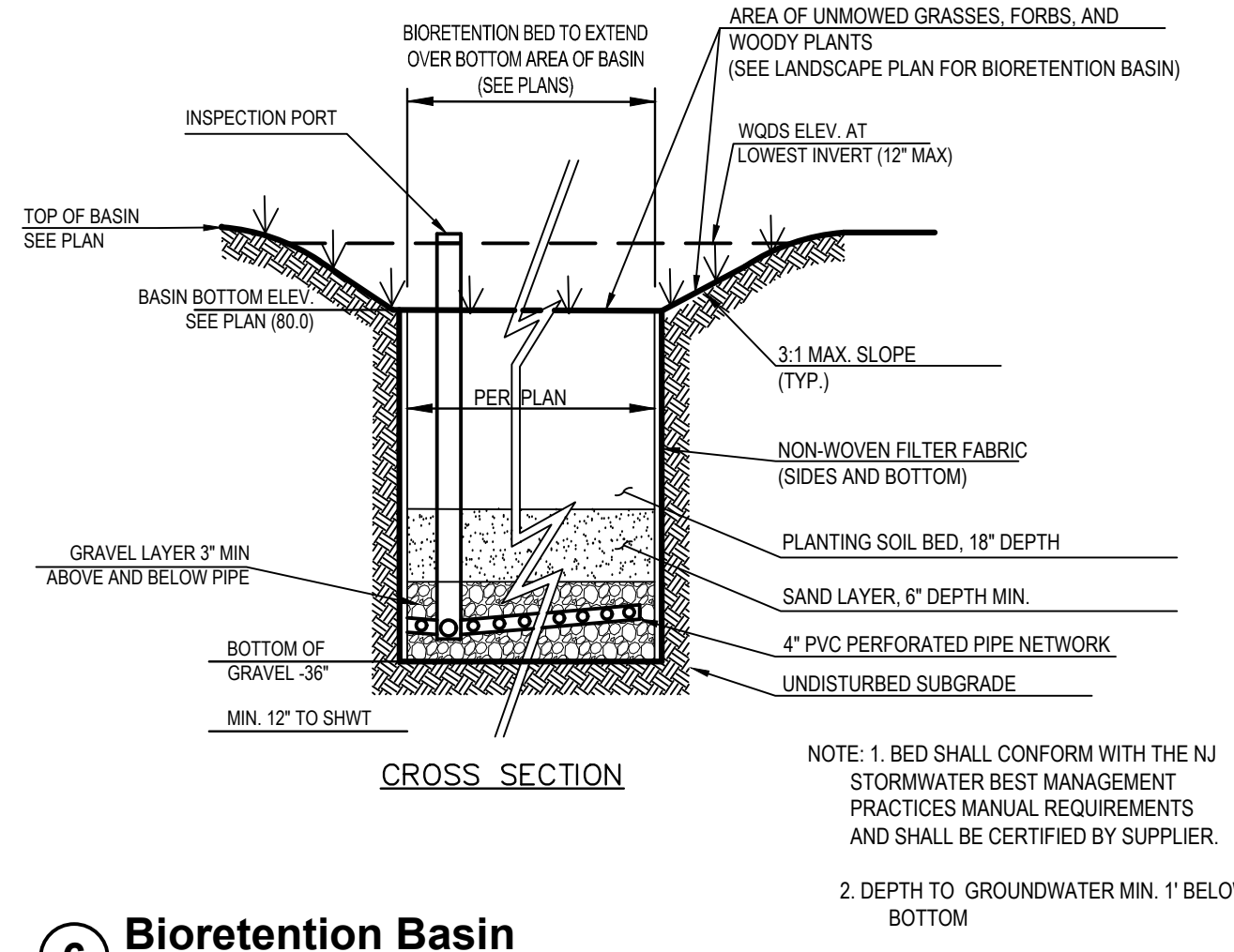
3 Type 'B' to 'E' Conversion  
SCALE:N.T.S.

4 Preformed Scour Hole w/ HDPE Flared End Section  
SCALE:N.T.S.



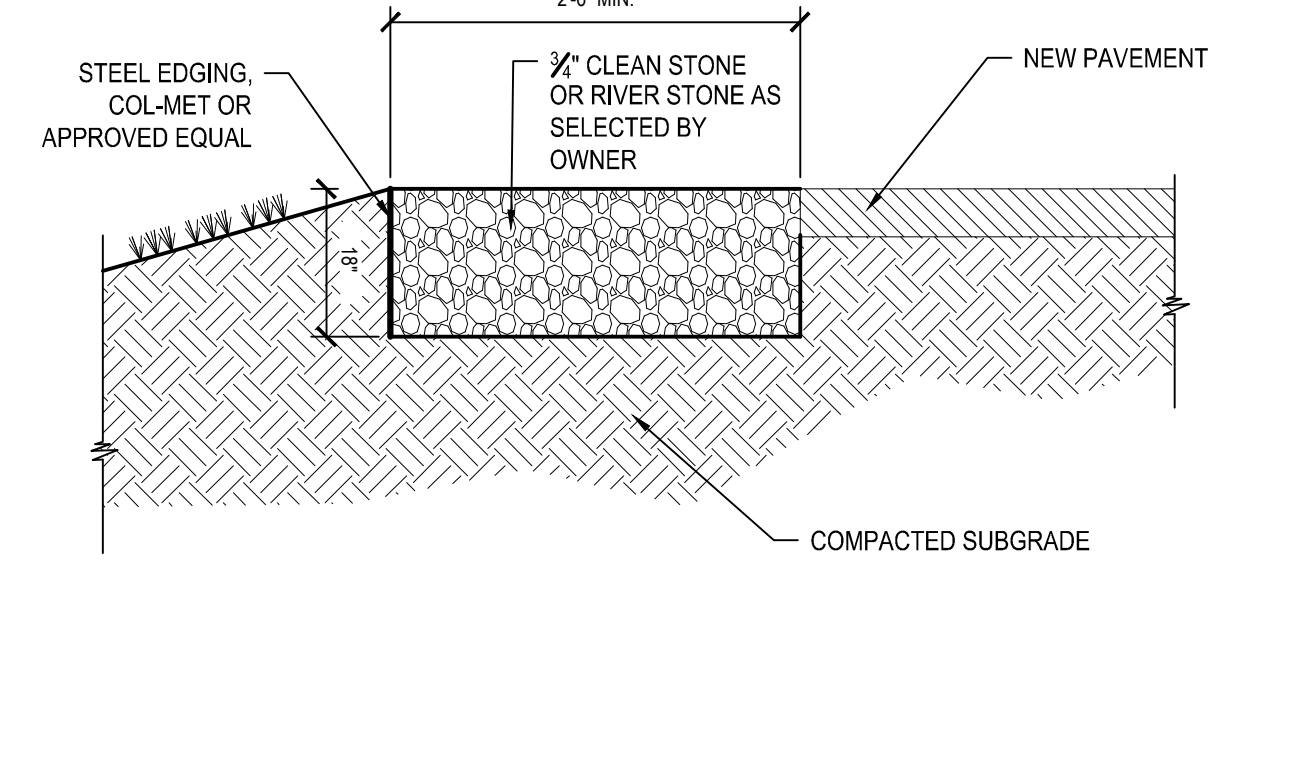
5 Outlet Control Structure (OCS-1)  
SCALE:N.T.S.

**NOTES:**  
1. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO CONSTRUCTION.  
2. TRASH RACK TO BE FABRICATED FROM ALUMINUM STOCK MOUNTED WITH STAINLESS STEEL ANCHOR BOLTS.



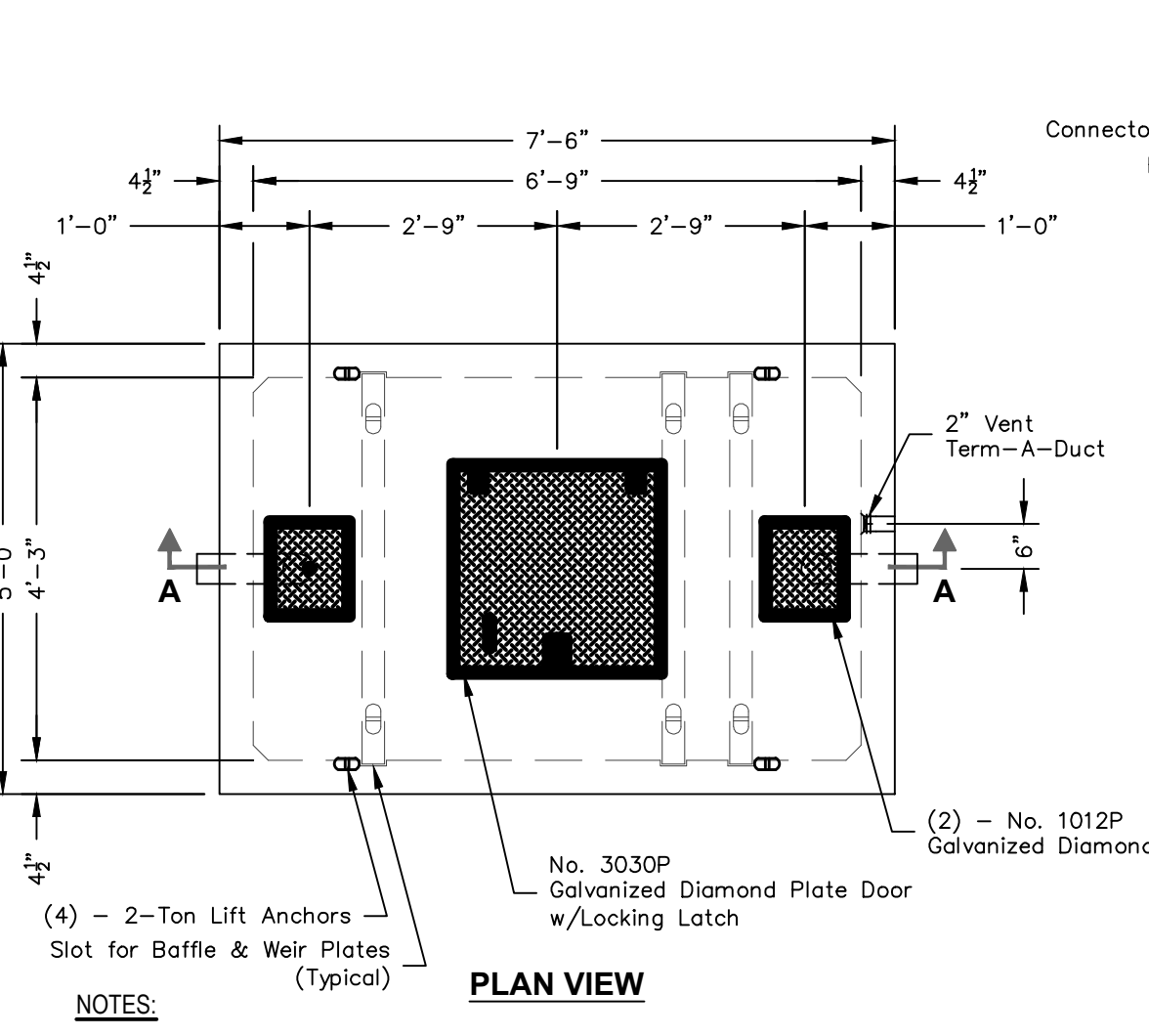
6 Bioretention Basin  
SCALE:N.T.S.

- SOIL BED REQUIREMENTS**
- THE SOIL BED MATERIAL MUST CONSIST OF THE FOLLOWING MIX, BY VOLUME: 85 TO 95% SAND, WITH NO MORE THAN 25% OF THE SAND AS FINE OR VERY FINE SANDS; NO MORE THAN 15% SILT AND CLAY WITH 2% TO 5% CLAY CONTENT. THE ENTIRE MIX MUST THEN BE AMENDED WITH 3 TO 7% ORGANICS, BY WEIGHT.
  - PRE-MIXED SOIL MUST BE CERTIFIED TO BE CONSISTENT WITH THE REQUIREMENT ABOVE BY EITHER THE VENDOR OR BY A PROFESSIONAL ENGINEER LICENSED BY THE STATE OF NEW JERSEY. THE CONTENT OF ANY SOIL MIXED ON-SITE MUST BE CERTIFIED BY A PROFESSIONAL ENGINEER LICENSED BY THE STATE OF NEW JERSEY. IN ADDITION, THE ENGINEER MUST BE PRESENT WHILE THE SOIL IS MIXED.
  - THE PH OF THE SOIL BED MATERIAL MUST RANGE FROM 5.5 TO 6.5.
  - THE SOIL BED MATERIAL MUST BE PLACED IN LIFTS NOT TO EXCEED 6 INCHES. ADDITIONAL MATERIALS MAY BE NECESSARY TO ACCOUNT FOR SETTLING OVER TIME.
- NOTE:** 1. BED SHALL CONFORM WITH THE NJ STORMWATER BEST MANAGEMENT PRACTICES MANUAL REQUIREMENTS AND SHALL BE CERTIFIED BY SUPPLIER.  
2. DEPTH TO GROUNDWATER MIN. 1' BELOW BASIN BOTTOM



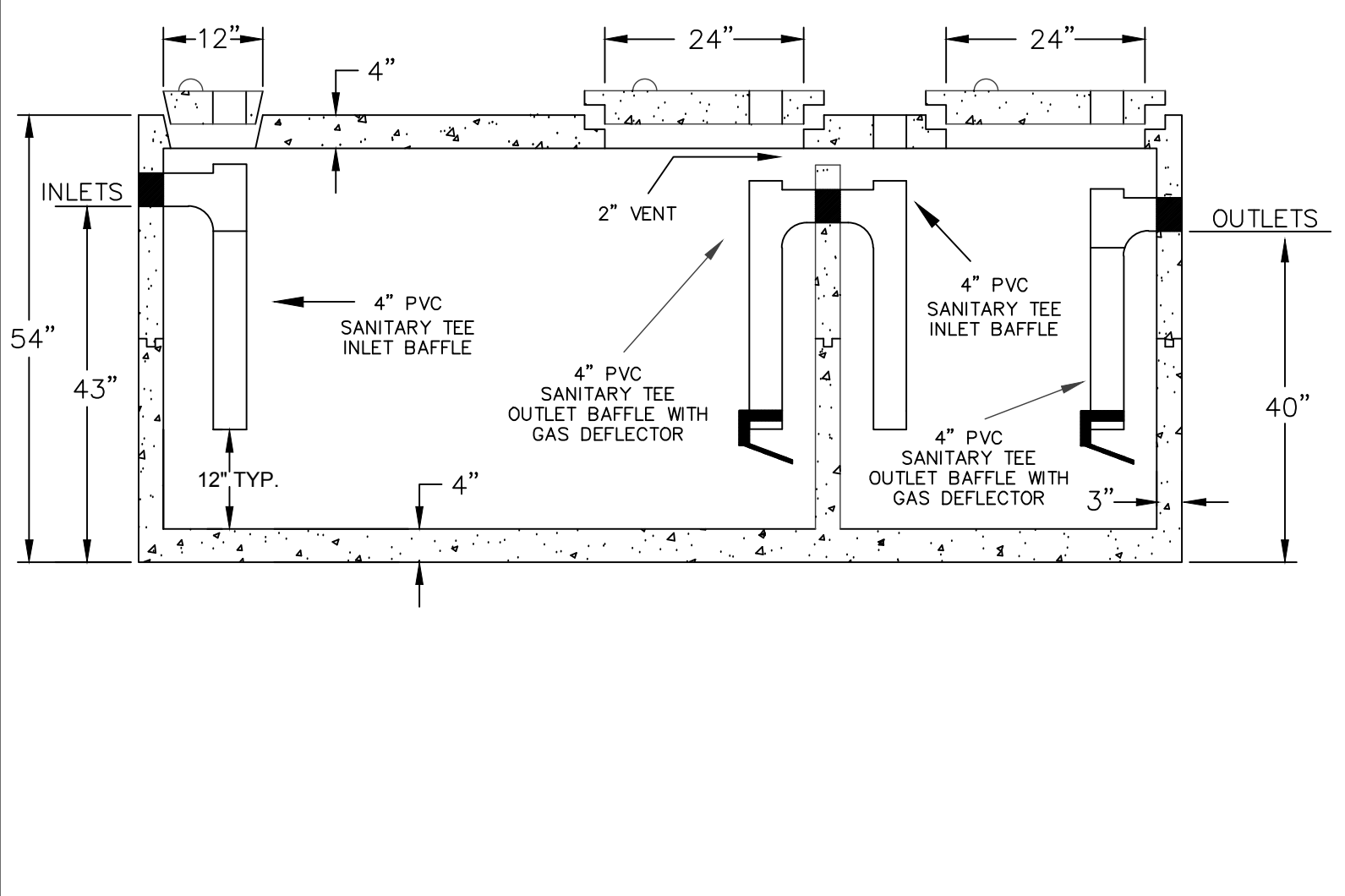
7 Gravel Trench  
SCALE:N.T.S.

**NOTE:** COMPACT SUBGRADE TO 92% MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557.



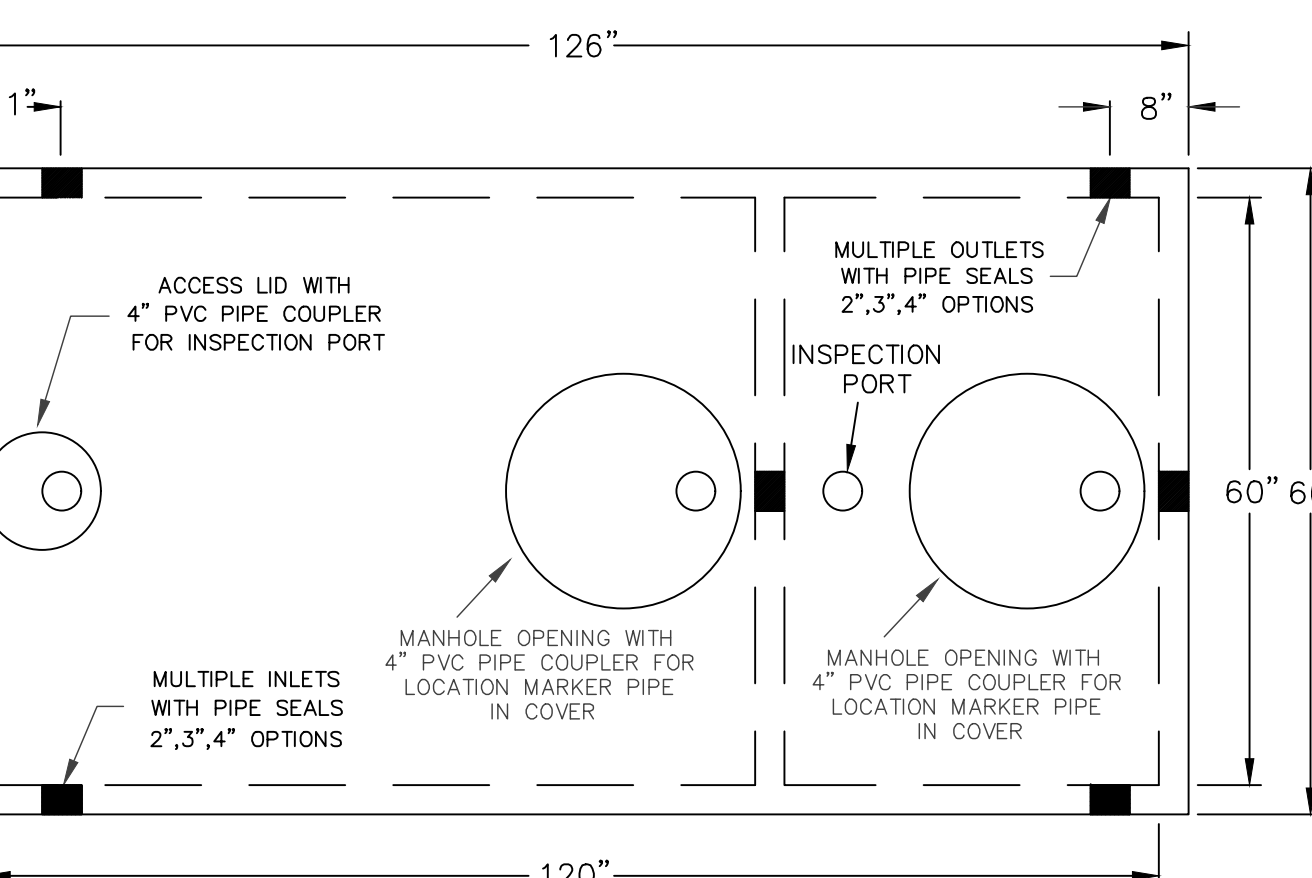
8 1,000 Gallon Oil / Water Separator w/Sediment Trap  
SCALE:N.T.S.

**NOTES:**  
1. OLD CASTLE 576-SA-1000 OR APPROVED EQUAL



9 1,000 Grease Trap  
SCALE:N.T.S.

**NOTES:**  
1. FLEMINGTON PRECAST OR APPROVED EQUAL.  
2. TANK SHALL MEET OR EXCEED REQUIREMENTS OF N.J.A.C. 7-9A



**RICHARD B. SCHOMMER, JR. P.E.** DATE: \_\_\_\_\_  
NJ PROFESSIONAL ENGINEER Lic. No. 24360250400  
ALTERNATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL.  
THIS SHALL NOT BE CONSIDERED AN OFFICIAL DOCUMENT UNLESS IT CONTAINS THE RATED SEAL OF THE LICENSEE.

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
RBS	LN	TM	RBS

PROJECT NO: BOME2201  
DATE: MAR 12, 2024  
SCALE: AS SHOWN

CLIENT: **Borough of Metuchen**

**EMERGENCY SERVICES CENTER**

**1 SAFETY PLACE**  
METUCHEN NJ, 08840  
BOROUGH OF METUCHEN  
COUNTY OF MIDDLESEX  
NEW JERSEY

STATUS: 90% - NFC

SHEET TITLE: **SITE DETAILS**

DRAWING No. **C 503.00**