

PRELIMINARY AND FINAL SITE PLAN
FOR
1112 NORTH AVENUE, LLC
PROPOSED MULTI-FAMILY BUILDING

BLOCK 402, LOT 5; TAX MAP SHEET #17 - DATED 03-24-1987, REVISED 12-11-1989
1112-1118 NORTH AVENUE
CITY OF PLAINFIELD,
UNION COUNTY, NEW JERSEY

200' PROPERTY OWNERS LIST

PROPERTY OWNER	BLOCK	LOT	PROPERTY OWNER	BLOCK	LOT
NEW JERSEY TRANSIT CORP P.O. BOX 10099 NEWARK, N.J. 07101	401	1	JAGLI 1, LLC 28 STATE ST BLOOMFIELD, NJ 07003	616	3
VENTRIGLIA, PETER 1415 WATCHING AVE PLAINFIELD, N.J. 07060	402	2	PNC BANK NA C/O NATL TAX SEARCH, LLC 130 S. JEFFERSON ST. #300 CHICAGO, IL 60661	616	4
S & S PROPERTIES LLC 1128 NORTH AVE PLAINFIELD, N.J. 07060	402	3	ALSO TO BE NOTICED		
UNITED STATES POSTAL SERVICE 1633 BROADWAY NEW YORK, N.Y. 10098	402	4	AMERICAN WATER SSC P.O. BOX 3627 CHERRY HILL, NJ 08034		
NEW JERSEY TRANSIT CORP P.O. BOX 10099 NEWARK, N.J. 07101	402	6	PUBLIC SERVICE ELECTRIC & GAS COMPANY MANAGER-CORPORATE PROPERTIES 80 PARK PLAZA, 10B NEWARK, NJ 07102		
SOSA, NICOLE A. & MCCAULEY, MICHAEL K 340 WATSON AVENUE PLAINFIELD, NJ 07062	404	12.01	BELL ATLANTIC NJ 540 BROAD STREET NEWARK, NJ 07102		
CRAWFORD, ROLAND & ANGEL T 1117 NORTH AVE PLAINFIELD, NJ 07062	404	12.02	PLAINFIELD MUNICIPAL UTILITIES AUTHORITY 127 ROOSEVELT AVENUE PLAINFIELD, NJ 07060		
DDR COMPANY, LLC 1773 E 9TH ST SCOTCH PLAINS, NJ 07076	404	12.03	COMCAST CABLEVISION 279 MARVEL RD HILLSBOROUGH TOWNSHIP, NJ 08844		
MOHAMMED, NASHIR 1108 NORTH AVE PLAINFIELD, NJ 07062	404	13	AT&T 2313 SALEM ROAD CONYERS, GA 30013 ATTN: NANCY PENCE		
1105 NORTH AVE, L L C 546 DOWNER ST 1ST FL WESTFIELD, NJ 07090	404	14			
MONTERO, CINTYA & LOZKOY-ANCAJIMA, M 543 NETHERWOOD AVE PLAINFIELD, NJ 07060	404	15			
DEO 537 NORTH AVE, LLC P.O. BOX 7336 WATCHUNG, NJ 07069	405	10			
LORETTI, RICHARD J & ALESSANDRA 111 LAKEVIEW AVE WATCHUNG, N.J. 07069	405	11			
CHAMBERS, SANDRA L 5 FOX HOLLOW DRIVE PISCATAWAY, NJ 08854	405	12			
GUY, LAUREAN 543 WATSON AVE PLAINFIELD, N.J. 07062	405	13			
SARITA ENTERPRISES, LLC 1041 SOUTH AVE PLAINFIELD, NJ 07060	616	1			
BEVIDERE RUTY ASSOC, L L C P.O. BOX 351 PLAINFIELD, N.J. 07060	616	2			

PLANNING BOARD APPROVAL

APPROVED BY THE PLANNING BOARD OF THE CITY OF PLAINFIELD, UNION COUNTY, NEW JERSEY

BOARD CHAIRMAN _____ DATE _____

BOARD SECRETARY _____ DATE _____

CITY ENGINEER _____ DATE _____

PLAINFIELD MUA APPROVAL BLOCK

PRELIMINARY APPROVAL

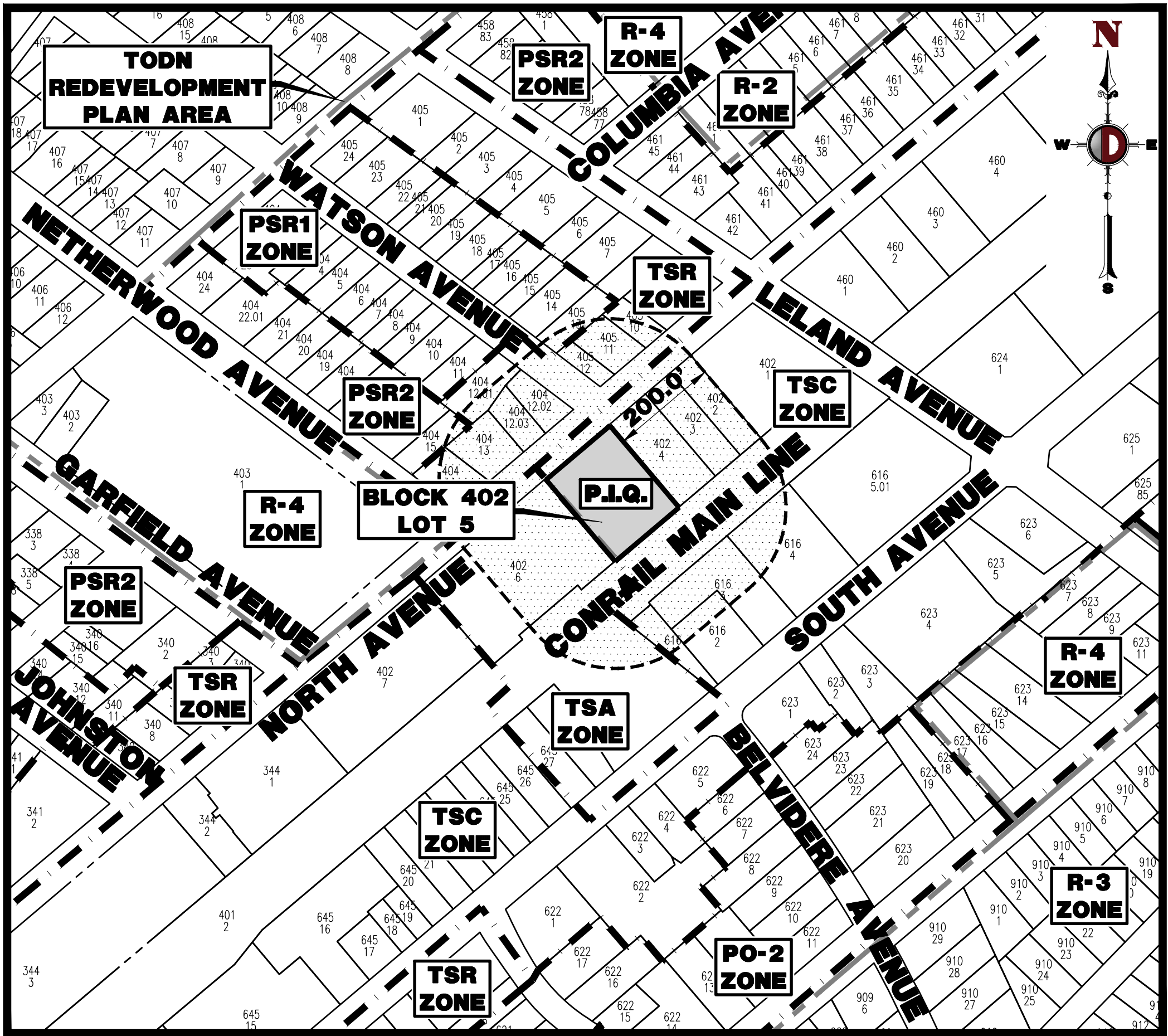
AUTHORITY ENGINEER _____ DATE _____

TENTATIVE APPROVAL

AUTHORITY ENGINEER _____ DATE _____

FINAL APPROVAL

AUTHORITY ENGINEER _____ DATE _____



AREA MAP
1" = 200'



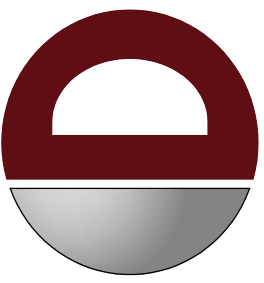
KEY MAP
1" = 2000'

DRAWING INDEX

COVER SHEET	1 of 13
ADRIAL MAP	2 of 13
DEMOLITION PLAN	3 of 13
SITE PLAN	4 of 13
GRADING PLAN	5 of 13
DRAINAGE & UTILITY PLAN	6 of 13
LANDSCAPING, STREETSCAPE & LIGHTING PLAN	7 of 13
SOIL EROSION & SEDIMENT CONTROL PLAN	8 of 13
CONSTRUCTION DETAILS	9 - 12 of 13
PLAINFIELD MUA STANDARD CONSTRUCTION DETAILS	13 of 13

PROPERTY OWNER INFORMATION

1112 NORTH AVENUE, LLC
1112 NORTH AVENUE
PLAINFIELD, NJ 07060
PHONE #: (201) 614-7744



DYNAMIC
ENGINEERING • PLANNING
TRAFFIC • SURVEY • LAND

REV.	DATE	REVISIONS	COMMENTS
1	06/15/22		REVISED PER CITY COMPLETENESS COMMENTS

THIS PLAN SET IS FOR PERMITTING PURPOSES
ONLY AND MAY NOT BE USED FOR CONSTRUCTION

DESIGNED BY: _____
CHECKED BY: _____
RJC
SDP
RRR

PROJECT: 1112 NORTH AVENUE, LLC
BLOCK 402, LOT 5
1112-1118 NORTH AVENUE
CITY OF PLAINFIELD, UNION COUNTY, NEW JERSEY



PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF
EXCAVATORS, DESIGNERS, OR ANY PERSON
PREPARING TO DIGGING THE EARTH'S
SURFACE ANYWHERE IN ANY STATE

FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT:
WWW.CALL811.COM

DYNAMIC
ENGINEERING

LAND DEVELOPMENT CONSULTING • PERMITTING
GEOTECHNICAL • ENVIRONMENTAL
TRAFFIC • SURVEY • PLANNING & ZONING
245 Main Street, Suite 110
Chester, NJ 07930
T: 908.879.9229 | F: 908.879.0222
Offices conveniently located at:

Long Valley, NJ • 1-800-879-9229
Cherry Hill, NJ • 1-800-879-9229
Newark, NJ • 1-800-879-9229
Trenton, NJ • 1-800-879-9229
New York, NY • 1-800-879-9229
Philadelphia, PA • 1-800-879-9229
Baltimore, MD • 1-800-879-9229
Atlanta, GA • 1-800-879-9229
Houston, TX • 1-800-879-9229
Dallas, TX • 1-800-879-9229
Denver, CO • 1-800-879-9229

www.dynamiccec.com

BRETT W. SKAPINETZ

PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 41985

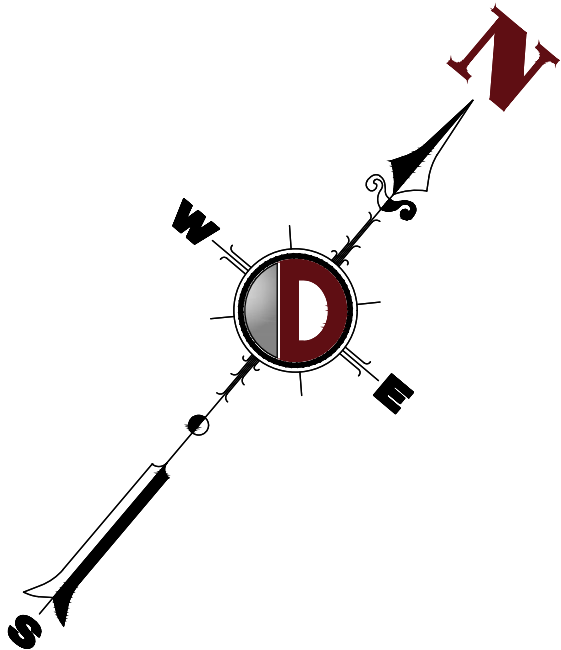
ROBERT J. COLUCCO III

PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 55851

TITLE:
COVER SHEET

SCALE: (H) AS SHOWN
PROJECT No: 0404-99-045
DATE: 05/12/2022

SHEET No: 1
Rev. #: 1
OF 13



1. ALL DEMOLITION ACTIVITIES ARE TO BE PERFORMED IN STRICT ACCORDANCE TO ALL FEDERAL, STATE AND LOCAL REGULATIONS.
2. PROCEED WITH DEMOLITION IN A SYSTEMATIC MANNER, FROM THE TOP OF THE STRUCTURE(S) TO THE GROUND.
3. COMPLETE DEMOLITION WORK ABOVE EACH FLOOR OR TIER BEFORE DISTURBING ANY OF THE SUPPORTING MEMBERS OF THE LOWER LEVELS.
4. DEMOLISH CONCRETE AND MASONRY IN SMALL SECTIONS.
5. REMOVE STRUCTURAL FRAMING MEMBERS AND LOWER THEM TO THE GROUND BY MEANS OF HOISTS, DERRICKS OR OTHER SUITABLE MEETHODS.
6. BREAK UP CONCRETE SLABS-ON-GROUND, UNLESS OTHERWISE DIRECTED BY OWNER.
7. LOCATE, DEMOLITION EQUIPMENT THROUGHOUT THE STRUCTURE AND REMOVE MATERIALS SO AS TO NOT IMPOSE EXCESSIVE LOADS ON SUPPORTING WALLS, FLOORS, OR FRAMES.
8. PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING AND SUPPORTS TO PREVENT MOVEMENT, SETTLEMENT OR COLLAPSE OF STRUCTURES TO BE DEMOLISHED (AND ADJACENT FACILITIES, IF APPLICABLE).
9. DEMOLISH AND REMOVE ALL FOUNDATION WALLS, FOOTINGS AND OTHER MATERIALS WITHIN THE AREA OF THE DESIGNATED TYPICAL BUILDING. ALL OTHER FOUNDATION SYSTEMS, INCLUDING BASEMENTS, SHALL BE DEMOLISHED TO A DEPTH OF NOT LESS THAN ONE FOOT BELOW PROPOSED PAVED OR, BREAK BASEMENT FOUNDATIONS SHALL BE SEALED. ALL OPEN UTILITY LINES WITH CONCRETE CONTRACTOR TO REVIEW STRUCTURE PRIOR TO DEMOLITION TO DETERMINE IF BASEMENT, CRAWL SPACE OR ANY SUB-STRUCTURE EXISTS. ANY SUB-STRUCTURE, INCLUDING BASEMENTS, SHALL BE REMOVED IN ITS ENTIRETY OR AS DIRECTED BY OWNER.
10. ERECT AND MAINTAIN COVERED PASSAGeways. ORDER TO PROVIDE SAFE PASSAGE FOR PERSONS ADJACENT TO THE AREA OF DEMOLITION. CONDUCT ALL DEMOLITION OPERATIONS IN A MANNER THAT WILL PREVENT DANGER AND PERSONAL INJURY TO STRUCTURES, ADJACENT BUILDINGS AND ALL PERSONS.
11. REFRAIN FROM USING ANY EXPLOSIVES WITHOUT PRIOR WRITTEN CONSENT OF OWNER AND APPLICABLE GOVERNMENTAL AUTHORITIES.
12. CONDUCT DEMOLITION SERVICES IN SUCH A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS AND OTHER ADJACENT FACILITIES. DO NOT CUT, OR REMOVE OR OBSTRUCT STREET OR DRIVEN FACILITIES WITHOUT PRIOR WRITTEN PERMISSION OF OWNER. AND ANY APPLICABLE GOVERNMENTAL REGULATIONS. PROVIDE ALTERNATE ROUTES ADJACENT TO AREAS CLOSED OR OBSTRUCTED TEMPORARILY, IF REQUIRED BY APPLICABLE GOVERNMENTAL REGULATIONS.
13. USE WATERING, TEMPORARY ENCLOSURES AND OTHER SUITABLE MEETHODS, AS NECESSARY TO LIMIT THE AMOUNT OF DUST AND DIRT RISING AND SCATTERING IN THE AIR. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF ALL DUST AND DEBRIS CAUSED BY THE DEMOLITION OPERATIONS. RETURN ALL ADJACENT AREAS TO THE CONDITIONS EXISTING PRIOR TO THE START OF WORK.
14. ACCOMPLISH AND PERFORM THE DEMOLITION IN SUCH A MANNER AS TO PREVENT THE UNAUTHORIZED ENTRY OF PERSONS AT ANY TIME.
15. COMPLETELY FILL BELOW GRADE AREAS AND VOIDS RESULTING FROM THE DEMOLITION OF STRUCTURES AND FOUNDATIONS WITH SOIL MATERIALS IN ACCORDANCE WITH THE GEOTECHNICAL REPORT, CONSISTING OF TESTS AND ANALYSIS, AND BE FREE FROM DEBRIS, TRASH, FROZEN MATERIALS, ROOTS AND OTHER ORGANIC MATTER. STONES AND OTHER MATERIALS WILL BE LARGELY REMOVED. MATERIALS THAT WILL NOT BE USED AS FILL, PRIOR TO PLACEMENT OF FILL MATERIALS, UNDERTAKE ALL NECESSARY ACTION TO ENSURE THAT GRADE TO BE FILLED ARE FREE OF STANDING WATER, TRASH, FROZEN MATERIAL, TRASH, DEBRIS AND FILL MATERIALS IN HORIZONTAL LAYERS NOT EXCEEDING 6 INCHES IN THICKNESS AND COMPACT EACH LAYER AT PLACEMENT TO 95% OPTIMUM DENSITY GRADE THE SURFACE TO MEET ADJACENT CONTOURS AND TO PROVIDE SURFACE DRAINAGE.
16. REMOVE FROM THE DESIGNATED SITE, AT THE EARLIEST POSSIBLE TIME, ALL DEBRIS, RUBBISH, SALVAGEABLE ITEMS, HAZARDOUS AND COMBUSTIBLE SERVICES. REMOVED MATERIALS MAY NOT BE STORED, SOLD OR BURNED ON THE SITE. REMOVAL OF HAZARDOUS AND COMBUSTIBLE MATERIALS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE PROCEDURES AS AUTHORIZED BY THE FIRE DEPARTMENT OR OTHER APPROPRIATE REGULATORY AGENCIES AND AUTHORITIES.
17. DISCONNECT, SHUT OFF AND SEAL IN CONCRETE ALL UTILITIES SERVING THE STRUCTURE(S) TO BE DEMOLISHED BEFORE THE COMMENCEMENT OF THE DESIGNATED DEMOLITION WORK FOR OPERATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES SERVING THE ADJACENT AREAS. DEMOLITION SERVICES THE REQUIRED INTERRUPTION OF ACTIVE SYSTEMS THAT MAY AFFECT OTHER PARTIES, AND NOTIFY ALL APPLICABLE UTILITY COMPANIES TO ENSURE THE CONTINUATION OF SERVICE.
18. THIS DEMOLITION PLAN IS INTENDED TO IDENTIFY THOSE EXISTING CONDITIONS WHICH ARE TO BE REMOVED. IT IS NOT INTENDED TO PROVIDE DIRECTION OTHER THAN THAT THIS DEMOLITION PLAN IS TO BE IN ACCORDANCE WITH STATE, FEDERAL, LOCAL AND JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY SAFETY PERMITS AND NECESSARY.

1. IN ACCORDANCE WITH STATE LAW, THE CONTRACTOR SHALL BE REQUIRED TO CALL THE BOARD OF PUBLIC UTILITIES ONE CALL DAMAGE PROTECTION SYSTEM OR UTILITY MARK OUT IN ADVANCE OF ANY EXCAVATION.
2. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING SITE IMPROVEMENTS AND UTILITIES. ALL DISCREPANCIES SHALL BE IDENTIFIED TO THE ENGINEER IN WRITING.
3. ALL EXISTING UTILITIES TO BE ABANDONED SHALL BE DISCONNECTED AND CAPPED AT THE MAIN FOR WATER, AT THE CLEAN-OUT FOR SEWER AND THE SHUT-OFF VALVE OR MAIN FOR GAS IN ACCORDANCE WITH MUNICIPAL AND LOCAL UTILITY REQUIREMENTS.
4. ALL EXISTING DEBRIS SHALL BE REMOVED BY CONTRACTOR IN ACCORDANCE WITH MUNICIPAL AND LOCAL UTILITY COMPANY REQUIREMENTS.

[illegible]

THIS PLAN SET IS FOR PERMITTING PURPOSES
ONLY AND MAY NOT BE USED FOR CONSTRUCTION

DESIGNED BY:	CHECKED BY:	CHECKED BY:
RRR	SDP	RJC
		-

PROJECT: **1112 NORTH AVENUE, LLC**
PROPOSED MULTI-FAMILY BUILDING

BLOCK 402, LOT 5
1112-1118 NORTH AVENUE
CITY OF PLAINFIELD, UNION COUNTY, NEW JERSEY



PROTECT YOURSELF

**LAND DEVELOPMENT CONSULTING • PERMITTING
GEOTECHNICAL • ENVIRONMENTAL
TRAFFIC • SURVEY • PLANNING & ZONING**

**245 Main Street, Suite 110
Chester, NJ 07930**

T: 908.879.9229 | F: 908.879.0222

Offices conveniently located at:

Lake Carmo, New Jersey • T: 732.974.0198
 Chandler, New Jersey • T: 908.879.9229
 Newark, New Jersey • T: 973.755.7200
 Torrs River, New Jersey • T: 732.687.0000
 Newtown, Pennsylvania • T: 267.685.0076
 Philadelphia, Pennsylvania • T: 215.553.4888
 Bethlehem, Pennsylvania • T: 610.598.4400
 Allen, Texas • T: 972.534.2100
 Houston, Texas • T: 281.789.6480
 Austin, Texas • T: 512.645.2646
 Delray Beach, Florida • T: 561.921.8570

www.dynamicc.com

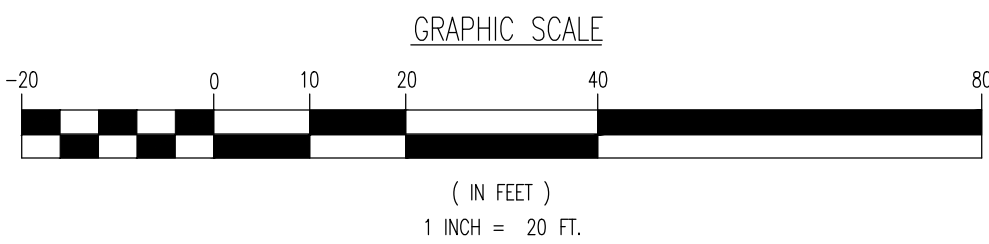
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 41985

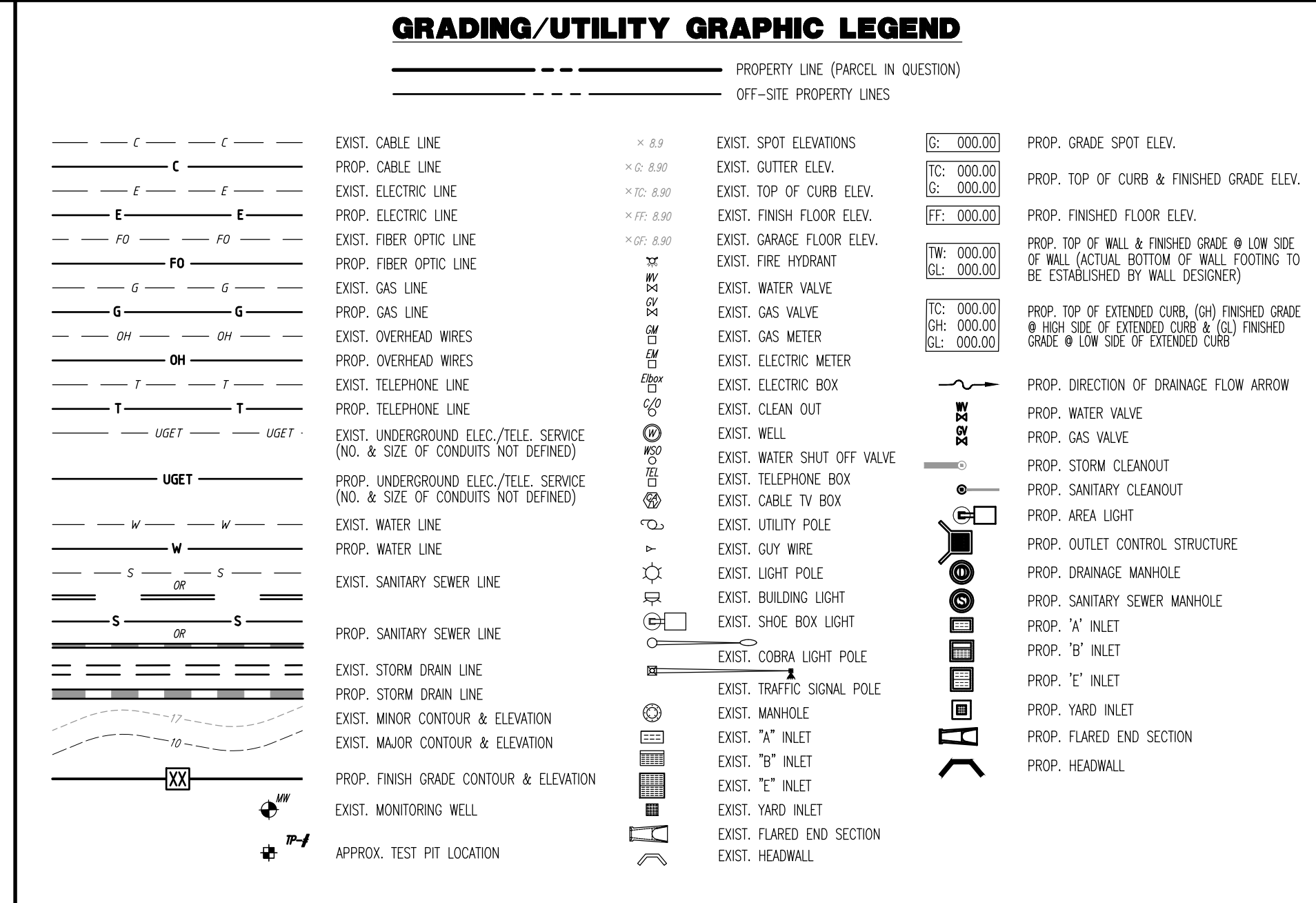
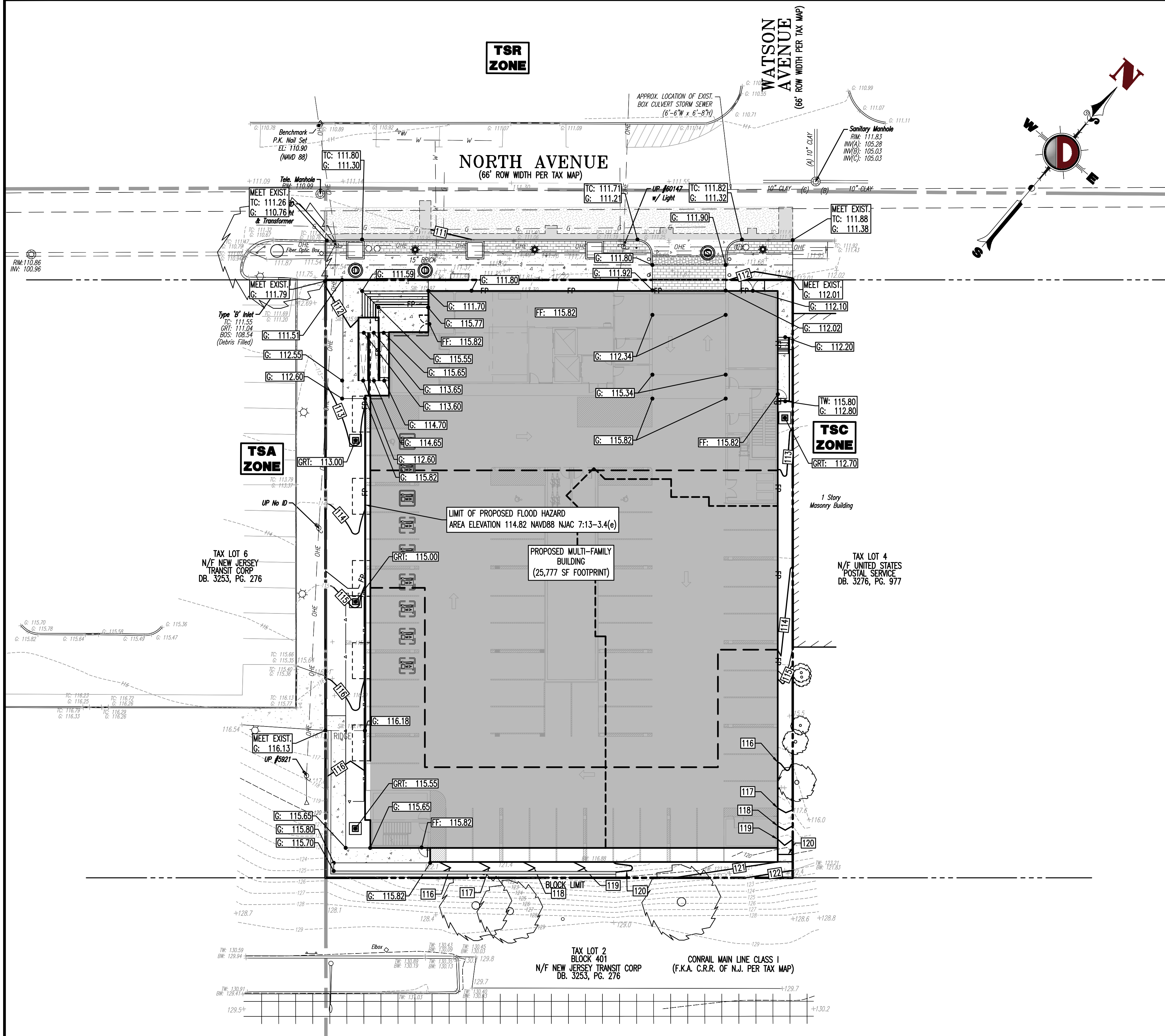
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 55851

SCALE: (H) 1"=20'		DATE: 05/12/2022
(V)		
PROJECT NO: 0404-99-045		

SHEET No: 3	Rev. #: 1
OF 13	

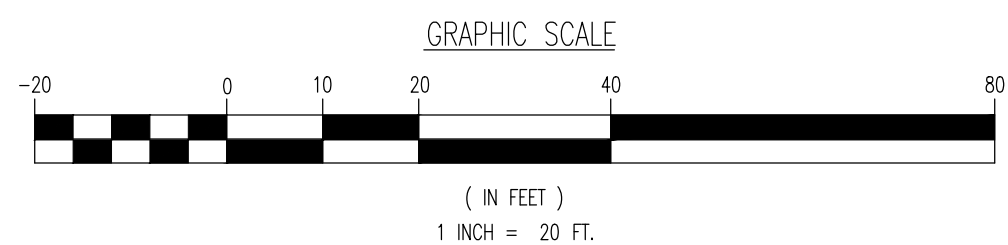
- PROPOSED LIMIT OF DISTURBANCE LINE
- EXISTING IMPROVEMENTS TO BE REMOVED UNLESS OTHERWISE NOTED
- TREES TO REMAIN
- TREES TO BE REMOVED





GRADING NOTES

- SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT REFERENCED IN THIS PLAN SET. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ALL SOFT, YIELDING OR UNSUITABLE MATERIALS AND REPLACING WITH SUITABLE MATERIALS AS SPECIFIED IN THE SOILS REPORT. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM TEST D-1557. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE NOR 3% BELOW OPTIMUM. CONTRACTOR SHALL SUBMIT A COMPARISON REPORT PREPARED BY A QUALIFIED SOILS ENGINEER, REGISTERED WITHIN THE STATE WHERE THE WORK IS PERFORMED, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT.
- CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF EXISTING TOPOGRAPHIC INFORMATION AND UTILITY INVERT ELEVATIONS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR TO ENSURE 0.75% MIN. SLOPE AGAINST ALL ISLAND GUTTERS, CURBS AND 1.0% ON ALL CONCRETE SURFACES, AND 1-1/2% MIN. ON ASPHALT, TO PREVENT PONDING. ANY DISCREPANCIES THAT MAY AFFECT THE PUBLIC SAFETY OR PROJECT COST, MUST BE IDENTIFIED TO THE ENGINEER IN WRITING IMMEDIATELY. PROCEEDING WITH CONSTRUCTION WITH DESIGN DISCREPANCIES IS DONE SO AT THE CONTRACTOR'S OWN RISK.
- PROPOSED TOP OF CURB ELEVATIONS ARE GENERALLY 6" ABOVE EXISTING LOCAL ASPHALT GRADE UNLESS OTHERWISE NOTED. FIELD ADJUST TO CREATE A MIN. OF 0.75% GUTTER GRADE ALONG CURB FACE. ENGINEER TO APPROVE FINAL CURBING CUT SHEETS PRIOR TO INSTALLATION.
- SUBBASE MATERIAL FOR SIDEWALKS, CURB, OR ASPHALT SHALL BE FREE OF ORGANICS AND OTHER UNSUITABLE MATERIALS. SHOULD SUBBASE BE DEEMED UNSUITABLE, SUBBASE IS TO BE REMOVED AND FILLED WITH APPROVED FILL MATERIAL COMPACTED TO 95% OPTIMUM DENSITY (AS DETERMINED BY MODIFIED PROCTOR METHOD).
- REFER TO SITE PLAN FOR ADDITIONAL NOTES.
- IN CASE OF DISCREPANCIES BETWEEN PLANS, THE SITE PLAN WILL SUPERCEDE IN ALL CASES. CONTRACTOR MUST NOTIFY ENGINEER OF RECORD OF ANY CONFLICT IMMEDIATELY.
- MAXIMUM GROSS SLOPE OF 2% ON ALL SIDEWALKS.
- CONTRACTOR TO ENSURE A MAXIMUM OF 2% SLOPE IN ALL DIRECTIONS IN ADA PARKING SPACES AND ADA ACCESS AISLES. CONTRACTOR TO ENSURE A MAXIMUM OF 5% RUNNING SLOPE AND 2% CROSS SLOPE ALONG ALL OTHER PORTIONS OF ACCESSIBLE ROUTE, WITH THE EXCEPTION OF RAMPS AND CURB RAMPS. CONTRACTOR SHALL CLARIFY ANY QUESTIONS CONCERNING CONSTRUCTION IN ADA AREAS WITH THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.
- THE OWNER SHALL RETAIN DYNAMIC EARTH, LLC (908-879-7095) OR ALTERNATE QUALIFIED GEOTECHNICAL ENGINEER TO TEST SOIL PERMEABILITY AND PROVIDE CONSTRUCTION PHASE INSPECTIONS OF THE BASIN BOTTOM SOILS AND ANY FILL MATERIALS WITHIN ANY PROPOSED INFILTRATION OR RETENTION BASIN TO COMPARE RESULTS TO DESIGN CRITERIA.
- CONTRACTOR IS TO REMOVE EXISTING UNSUITABLE OR OVERLY COMPACT SOIL OR ROCK AS NEEDED TO ACHIEVE REQUIRED PERMEABILITY AS DIRECTED BY THE OWNER'S GEOTECHNICAL ENGINEER, AND NEW FILL, IF NEEDED, SHALL HAVE AN IN PLACE PERMEABILITY GREATER THAN OR EQUAL TO THE DESIGN CRITERIA.
- CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE OWNER'S GEOTECHNICAL ENGINEER PRIOR TO ONSET OF CONSTRUCTION TO SUBMIT AND CONFIRM THE CONTRACTOR'S PROPOSED MEANS AND MATERIALS AND TO SCHEDULE INSPECTIONS FOR BOTTOM OF BASIN, REMOVAL OF UNSUITABLE SOIL, FILL PLACEMENT, AND FINAL BASIN PERMEABILITY TESTING.
- THE CONTRACTOR IS RESPONSIBLE FOR AS-BUILT PLANS AND GRADE CONTROL UNLESS DEFINED OTHERWISE ELSEWHERE IN THE CONTRACT DOCUMENTS.



DYNAMIC
ENGINEERING
• SURVEY • TRAFFIC

REV.	DATE	COMMENTS	BY
1	06/15/22	REVISED PER CITY COMPLETENESS COMMENTS	RRR

THIS PLAN SET IS FOR PERMITTING PURPOSES ONLY AND MAY NOT BE USED FOR CONSTRUCTION

DRAWN BY: RRR
DESIGNED BY: RRR
CHECKED BY: RJC
RJC
SDP

PROJECT:
1112 NORTH AVENUE, LLC
PROPOSED MULTI-FAMILY BUILDING
BLOCK 402, LOT 5
1112-1116 NORTH AVENUE
CITY OF PLAINFIELD, UNION COUNTY, NEW JERSEY

811
Call before you dig
PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE
FOR STATE-SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

DYNAMIC ENGINEERING
LAND DEVELOPMENT CONSULTING • PERMITTING
GEOTECHNICAL • ENVIRONMENTAL
TRAFFIC • SURVEY • PLANNING & ZONING
245 Main Street, Suite 110
Chester, NJ 07930
T: 908.879.9229 | F: 908.879.0222
Offices conveniently located at:
Little Ferry, New Jersey • T: 201.713.1116
Cherry Hill, New Jersey • T: 908.879.9229
Newark, New Jersey • T: 973.751.7330
Trenton, New Jersey • T: 732.487.0000
Newark, Pennsylvania • T: 732.487.0000
Harrisburg, Pennsylvania • T: 717.535.4888
Baltimore, Pennsylvania • T: 410.398.4400
Arling Heights, IL • T: 708.324.0200
Houston, Texas • T: 281.789.4400
Miami Beach, Florida • T: 305.644.3444
Delray Beach, Florida • T: 561.921.8570

www.dynamiccec.com

BRETT W. SKAPINETZ
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 41985

ROBERT J. COLUCCO III
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 55851

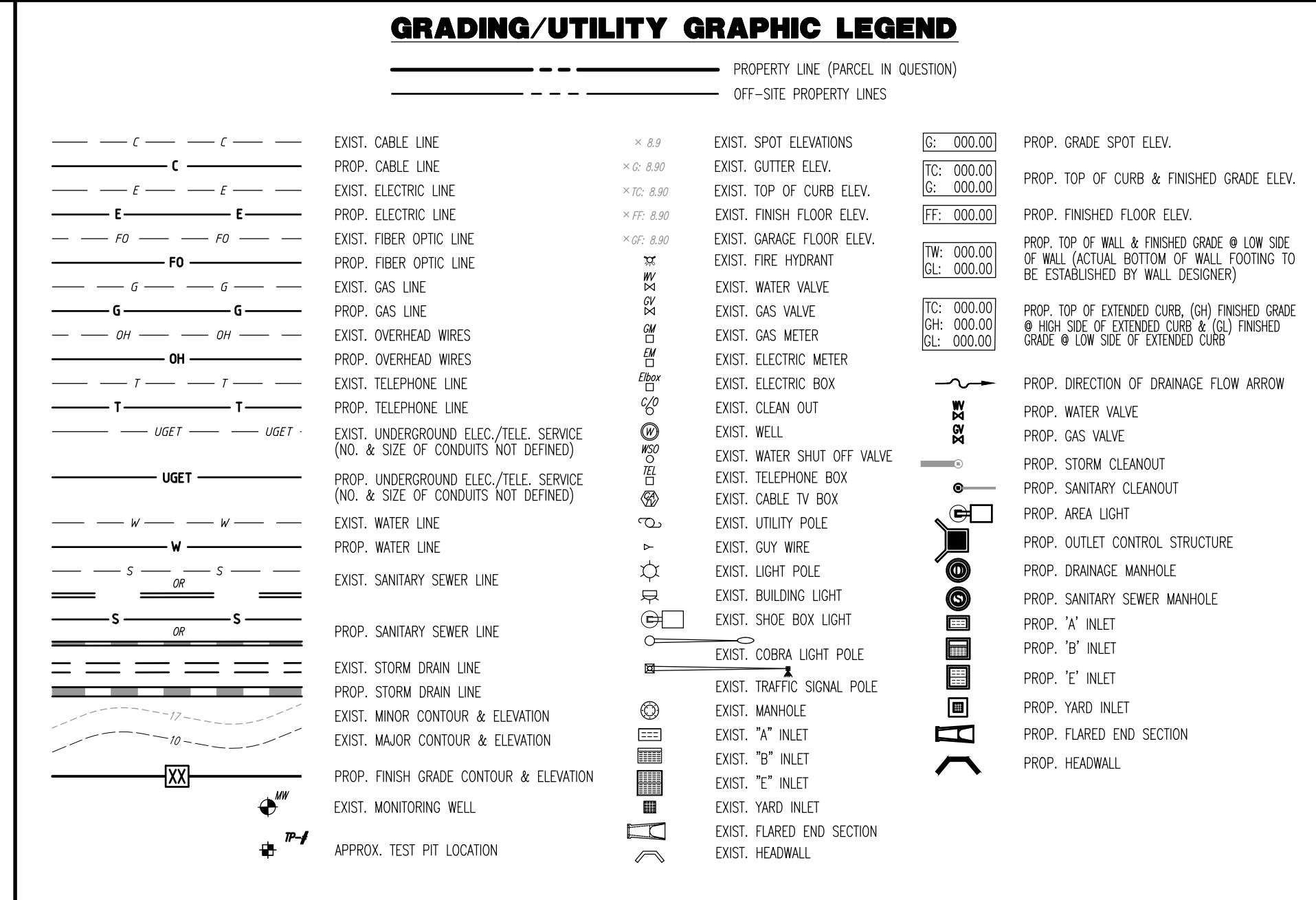
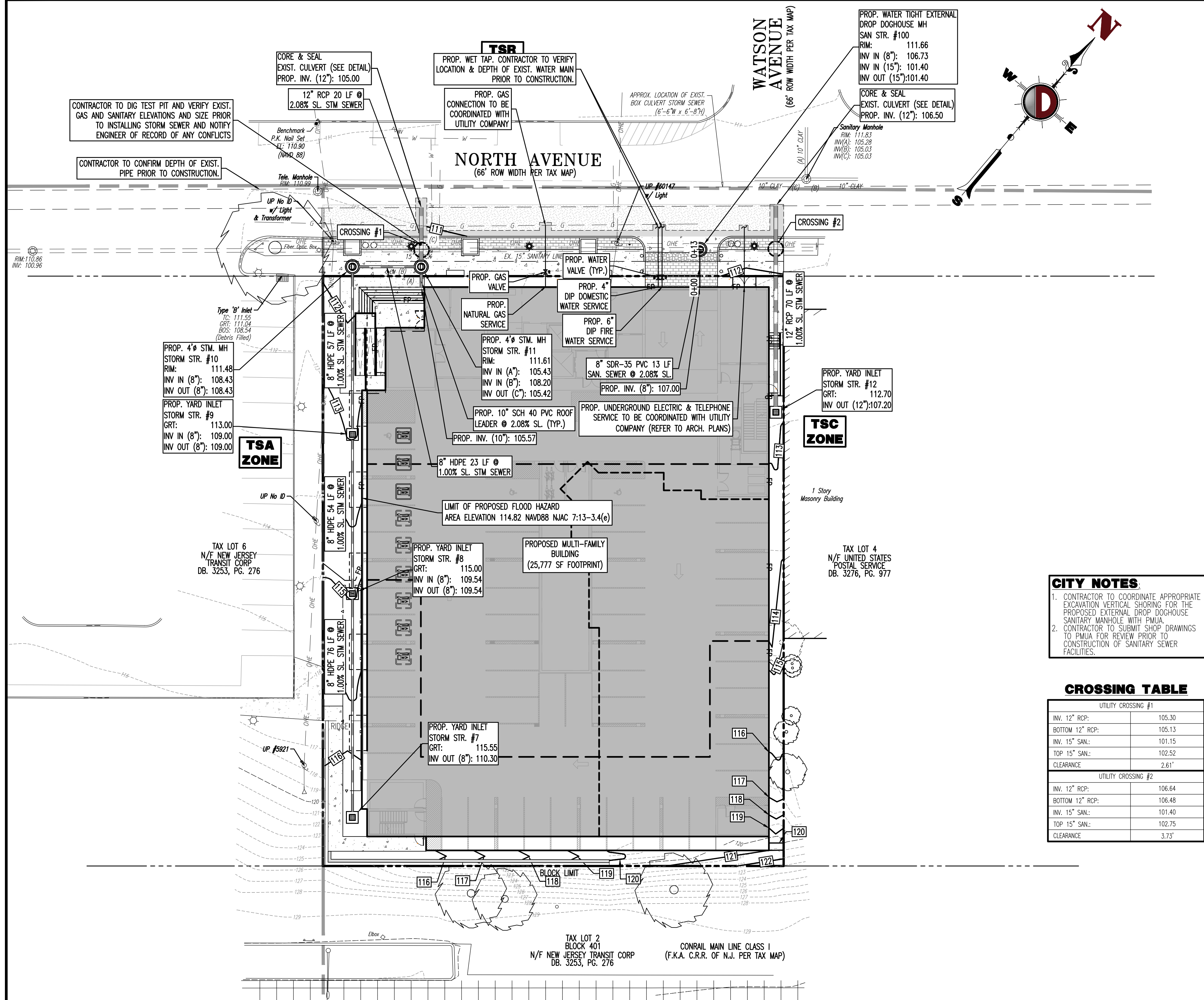
TITLE:
GRADING PLAN

SCALE: (H) 1" = 20'
(V) 1" = 20'
PROJECT No:
0404-99-045

SHEET No:
5
OF 13

DATE:
05/12/2022

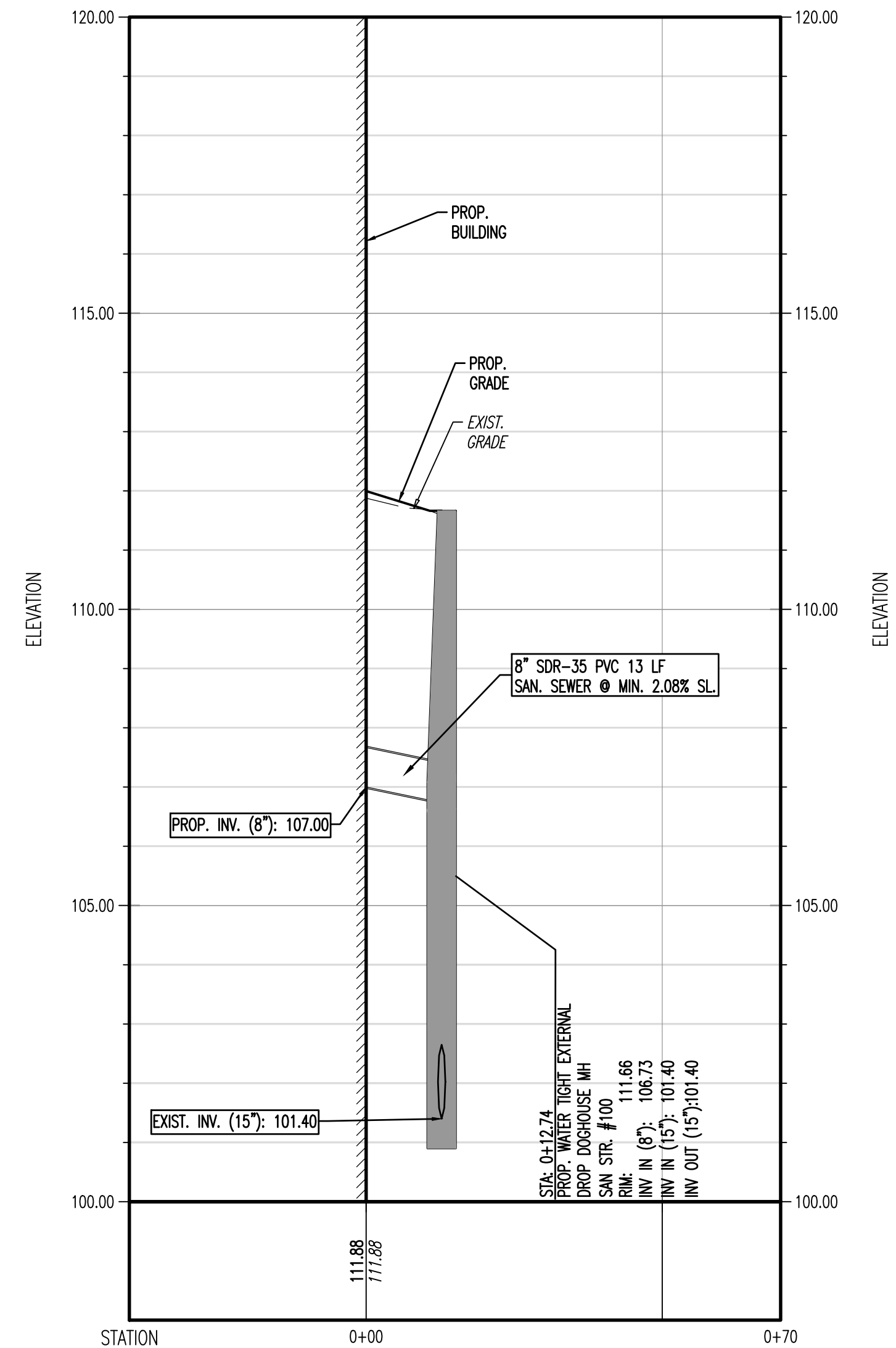
Rev. #:
1



CITY NOTES

- CONTRACTOR TO COORDINATE APPROPRIATE EXCAVATION VERTICAL SHORING FOR THE PROPOSED EXTERNAL DROP DOGHOUSE SANITARY MANHOLE WITH PMUA.
- CONTRACTOR TO SUBMIT SHOP DRAWINGS TO PMUA FOR REVIEW PRIOR TO CONSTRUCTION OF SANITARY SEWER FACILITIES.

CROSSING TABLE	
UTILITY CROSSING #1	
INV. 12" RCP:	105.30
BOTTOM 12" RCP:	105.13
INV. 15" SAN:	101.15
TOP 15" SAN:	102.52
CLEARANCE	2.61'
UTILITY CROSSING #2	
INV. 12" RCP:	106.64
BOTTOM 12" RCP:	106.48
INV. 15" SAN:	101.40
TOP 15" SAN:	102.75
CLEARANCE	3.73'



- UTILITY NOTES**
- LOCATION OF ALL EXISTING AND PROPOSED SERVICES ARE APPROXIMATE AND MUST BE CONFIRMED INDEPENDENTLY WITH LOCAL UTILITY COMPANIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION. SANITARY SEWER AND ALL OTHER UTILITY SERVICE CONNECTION POINTS SHALL BE CONFIRMED INDEPENDENTLY BY THE CONTRACTOR IN FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ALL DISCREPANCIES SHALL BE REPORTED IMMEDIATELY IN WRITING TO THE ENGINEER. CONSTRUCTION SHALL COMMENCE BEGINNING AT THE LOWEST INVERT (POINT OF CONNECTION) AND PROGRESS UP GRADIENT. INTERFACE POINTS (CROSSINGS) WITH EXISTING UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED BY TEST PIT PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 - IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY UTILITY "ONE-CALL" NUMBER 72 HOURS PRIOR TO ANY EXCAVATION ON THIS SITE. CONTRACTOR SHALL ALSO NOTIFY LOCAL WATER & SEWER DEPARTMENTS TO MARK-OUT THEIR UTILITIES.
 - REFER TO ARCHITECTURAL DRAWINGS FOR EXACT BUILDING UTILITY CONNECTION LOCATIONS. WHERE CONFLICTS EXIST WITH THESE SITE PLANS, ENGINEER IS TO BE NOTIFIED PRIOR TO CONSTRUCTION TO RESOLVE SAME. SERVICE SIZES TO BE DETERMINED BY ARCHITECT.
 - WATER SERVICE MATERIALS SHALL BE SPECIFIED BY THE LOCAL UTILITY COMPANY. CONTRACTOR'S PRICE FOR WATER SERVICE SHALL INCLUDE ALL FEES AND APPURTENANCES REQUIRED BY THE UTILITY TO PROVIDE A COMPLETE WORKING SERVICE.
 - ALL WATER MAIN SHALL BE CEMENT-LINED, CLASS 52 DUCTILE IRON PIPE, UNLESS OTHERWISE DESIGNATED.
 - THE MINIMUM DIAMETER FOR DOMESTIC WATER SERVICES SHALL BE 1 INCH.
 - SEWER MAINS SHALL BE SEPARATED FROM WATER MAINS BY A DISTANCE OF AT LEAST 10 FEET HORIZONTALLY. WHERE THIS IS NOT POSSIBLE, THE PIPES SHALL BE IN SEPARATE TRENCHES WITH THE SEWER MAIN AT LEAST 18 INCHES BELOW THE WATER MAIN. ALL SEWER MAINS SHALL BE SDR-35 PVC PIPE, UNLESS OTHERWISE DESIGNATED.
 - ALL SEWER PIPE INSTALLED WITH LESS THAN 3 FEET OF COVER, GREATER THAN 20 FEET OF COVER OR WITHIN 18 INCHES OF A WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE. ALL DUCTILE IRON SEWER PIPE SHALL BE CEMENT-LINED, CLASS 52 PIPE, FURNISHED WITH SEWER COAT, OR APPROVED EQUAL.
 - WHERE SANITARY SEWER LATERALS ARE GREATER THAN 10' DEEP AT CONNECTION TO THE SEWER MAIN, CONCRETE DEEP LATERAL CONNECTIONS ARE TO BE UTILIZED.
 - THE CONTRACTOR IS RESPONSIBLE FOR THE STABILIZATION OF THE EXISTING SEWER MAIN, STRUCTURES AND APPURTENANCES DURING CONNECTION.
 - LOCATION & LAYOUT OF GAS, ELECTRIC & TELECOMMUNICATION UTILITY LINES AND SERVICES SHOWN ON THESE PLANS ARE SCHEMATIC IN NATURE. ACTUAL LOCATION & LAYOUT OF THESE UTILITIES & SERVICES ARE TO BE PER THE APPROPRIATE UTILITY PROVIDER.
 - ROOF LEADER COLLECTION PIPING ARE CONCEPTUAL IN NATURE AND ARE NOT FOR CONSTRUCTION. ACTUAL ROOF LEADER COLLECTION PIPING IS TO BE COORDINATED W/ ARCHITECTURAL PLANS FOR EACH INDIVIDUAL BUILDING. ALL ROOF LEADER COLLECTION PIPING SHALL BE SCHEDULE 40 PVC UNLESS OTHERWISE DESIGNATED.
 - ALL SEWER AND WATER FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REGULATORY AUTHORITY'S RULES AND REGULATIONS.
 - ALL PROPOSED UTILITIES TO BE INSTALLED UNDERGROUND UNLESS OTHERWISE NOTED.

- MANUFACTURED REINFORCED CONCRETE STORM PIPE TO CONFORM TO ASTM C-76, CLASS III, UNLESS OTHERWISE DESIGNATED. MANUFACTURED REINFORCED CONCRETE ELLIPTICAL STORM PIPE TO CONFORM TO ASTM C-507, CLASS HE-III, UNLESS OTHERWISE DESIGNATED. REINFORCED CONCRETE STORMWATER PIPE TO BE INSTALLED IN ACCORDANCE WITH AMERICAN CONCRETE PIPE ASSOCIATION INSTALLATION GUIDELINES AND MORTAR OR PREFORMED FLEXIBLE JOINT SEALANTS IN ACCORDANCE WITH ASTM C 980 TO BE UTILIZED TO PROVIDE A SILT-TIGHT JOINT. WHERE SPECIFICALLY INDICATED, REINFORCED CONCRETE STORM PIPE JOINTS SHALL BE WATER-TIGHT AND CONFORM TO ASTM C-443.
- HOPE DRAINAGE PIPE SHALL HAVE A SMOOTH WALL INTERIOR WITH ANNUAL EXTERIOR CORRUGATIONS AND CONFORM TO ASTM F2306. SOLID PIPE SHALL HAVE GASKETED WATER-TIGHT JOINTS MEETING THE REQUIREMENTS OF ASTM F2306 AND ASTM D3212. PERFORATED PIPE SHALL HAVE GASKETED SILT-TIGHT JOINTS MEETING THE REQUIREMENTS OF ASTM F2306 AND ASTM F477. HOPE PIPE SHALL BE FROM A MANUFACTURER WHO IS AN EASTERN STATES CONSORTIUM (ESC) QUALIFIED MANUFACTURER OF HOPE PIPE AND INSTALLED IN ACCORDANCE WITH PIPE MANUFACTURER RECOMMENDATIONS.
- HP DRAINAGE PIPE SHALL HAVE A SMOOTH WALL INTERIOR WITH ANNUAL EXTERIOR CORRUGATIONS AND CONFORM TO ASTM F2736 (12"-30" PIPE) AND ASTM F2881 (36"-60" PIPE). PIPE SHALL HAVE GASKETED WATER-TIGHT JOINTS MEETING THE REQUIREMENTS OF ASTM D3212 AND ASTM F477. FIELD WATER-TIGHTNESS PERFORMANCE VERIFICATION MAY BE ACCOMPLISHED IN ACCORDANCE WITH ASTM F2467. HP PIPE SHALL BE FROM A MANUFACTURER WHO IS AN EASTERN STATES CONSORTIUM (ESC) QUALIFIED MANUFACTURER OF HP STORM PIPE AND INSTALLED IN ACCORDANCE WITH PIPE MANUFACTURER RECOMMENDATIONS.
- PIPE LENGTHS ON THIS PLAN HAVE BEEN MEASURED AS THE DISTANCE BETWEEN THE CENTER POINT OF THE 2 CONNECTED STRUCTURES. ACTUAL PHYSICAL PIPE LENGTH FOR INSTALLATION IS EXPECTED TO BE LESS AND SHOULD BE ACCOUNTED FOR BY THE CONTRACTOR ACCORDINGLY.

EXISTING UTILITY NOTES

EXISTING WATER SERVICE NOTE: CONTRACTOR TO LOCATE AND UTILIZE EXISTING WATER SERVICE CONNECTION IF FEASIBLE. OTHERWISE REMOVE EXISTING WATER SERVICE LINE AND CAP AT MAIN IN R.O.W. IN ACCORDANCE WITH THE LOCAL WATER COMPANY REQUIREMENTS. TERMINATION AT THE MAIN MUST BE APPROVED BY THE LOCAL WATER COMPANY PRIOR TO COMPLETION. ANY NEW SERVICE IS TO BE COORDINATED AND VERIFIED FOR LOCATION WITH THE LOCAL GAS COMPANY. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED STREET OPENING PERMITS FOR REMOVAL OF EXISTING SERVICE AND INSTALLATION OF NEW SERVICE.

EXISTING GAS SERVICE NOTE: CONTRACTOR TO LOCATE AND UTILIZE EXISTING GAS SERVICE CONNECTION IF FEASIBLE. OTHERWISE REMOVE EXISTING GAS SERVICE LINE AND CAP AT MAIN IN R.O.W. IN ACCORDANCE WITH THE LOCAL GAS COMPANY REQUIREMENTS. TERMINATION AT THE MAIN MUST BE APPROVED BY THE LOCAL GAS COMPANY PRIOR TO COMPLETION. ANY NEW SERVICE IS TO BE COORDINATED AND VERIFIED FOR LOCATION WITH THE LOCAL GAS COMPANY. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED STREET OPENING PERMITS FOR REMOVAL OF EXISTING SERVICE AND INSTALLATION OF NEW SERVICE.

SANITARY SEWER SERVICE NOTE: CONTRACTOR TO LOCATE AND UTILIZE EXISTING SEWER SERVICE CONNECTION IF OF ADEQUATE SIZE AND INTEGRITY AND ACCEPTABLE TO LOCAL SEWER AUTHORITY. OTHERWISE REMOVE EXISTING SEWER SERVICE LINE AND CAP AT MAIN IN R.O.W. IN ACCORDANCE WITH THE LOCAL SEWER AUTHORITY REQUIREMENTS. TERMINATION AT THE MAIN MUST BE APPROVED BY THE LOCAL SEWER AUTHORITY PRIOR TO COMPLETION. IF EXISTING SEWER SERVICE CAN NOT BE UTILIZED THEN THE NEW SERVICE IS TO BE COORDINATED AND VERIFIED FOR LOCATION WITH THE LOCAL SEWER AUTHORITY. CONTRACTOR SHALL OBTAIN ALL REQUIRED STREET OPENING PERMITS FOR REMOVAL OF EXISTING SERVICE AND INSTALLATION OF NEW SERVICE.

DYNAMIC ENGINEERING
• ENGINEERING • SURVEY • TRAFFIC

THIS PLAN SET IS FOR PERMITTING PURPOSES ONLY AND MAY NOT BE USED FOR CONSTRUCTION

DESIGNED BY: RRR
CHECKED BY: RJC
DATE: 06/15/22

PROJECT: 1112 NORTH AVENUE, LLC
BLOCK 402, LOT 5
1112-1116 NORTH AVENUE
CITY OF PLAINFIELD, UNION COUNTY, NEW JERSEY

PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF EXISTING UTILITIES, OR ANY PERSON PREPARING TO EXCAVATE THE EARTH'S SURFACE ANYWHERE IN ANY STATE

FOR STATE-SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

DYNAMIC ENGINEERING
LAND DEVELOPMENT CONSULTING • PERMITTING
TRAFFIC • SURVEY • ENVIRONMENTAL
GEOTECHNICAL • ENVIRONMENTAL
TRAFFIC • SURVEY • PLANNING & ZONING

245 Main Street, Suite 110
Chester, NJ 07930
T: 908.879.9229 | F: 908.879.0222
Offices conveniently located at:

Little Ferry, NJ • 201.261.1111
Clark, NJ • 908.879.9229
Newark, NJ • 973.261.1111
Trenton, NJ • 609.486.0000
Newark, NJ • 973.261.1111
Philadelphia, PA • 215.555.4888
Baltimore, MD • 410.381.4400
Arling Heights, IL • 815.353.0200
Houston, TX • 281.389.4400
Dallas, TX • 214.644.0404
Delray Beach, FL • 1.561.921.8570

www.dynamiccc.com

BRETT W. SKAPINETZ

PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 41985

ROBERT J. COLUCCO III

PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 55851

TITLE: **DRAINAGE & UTILITY PLAN**

SCALE: (H) 1"=20'
(V) 1"=2'

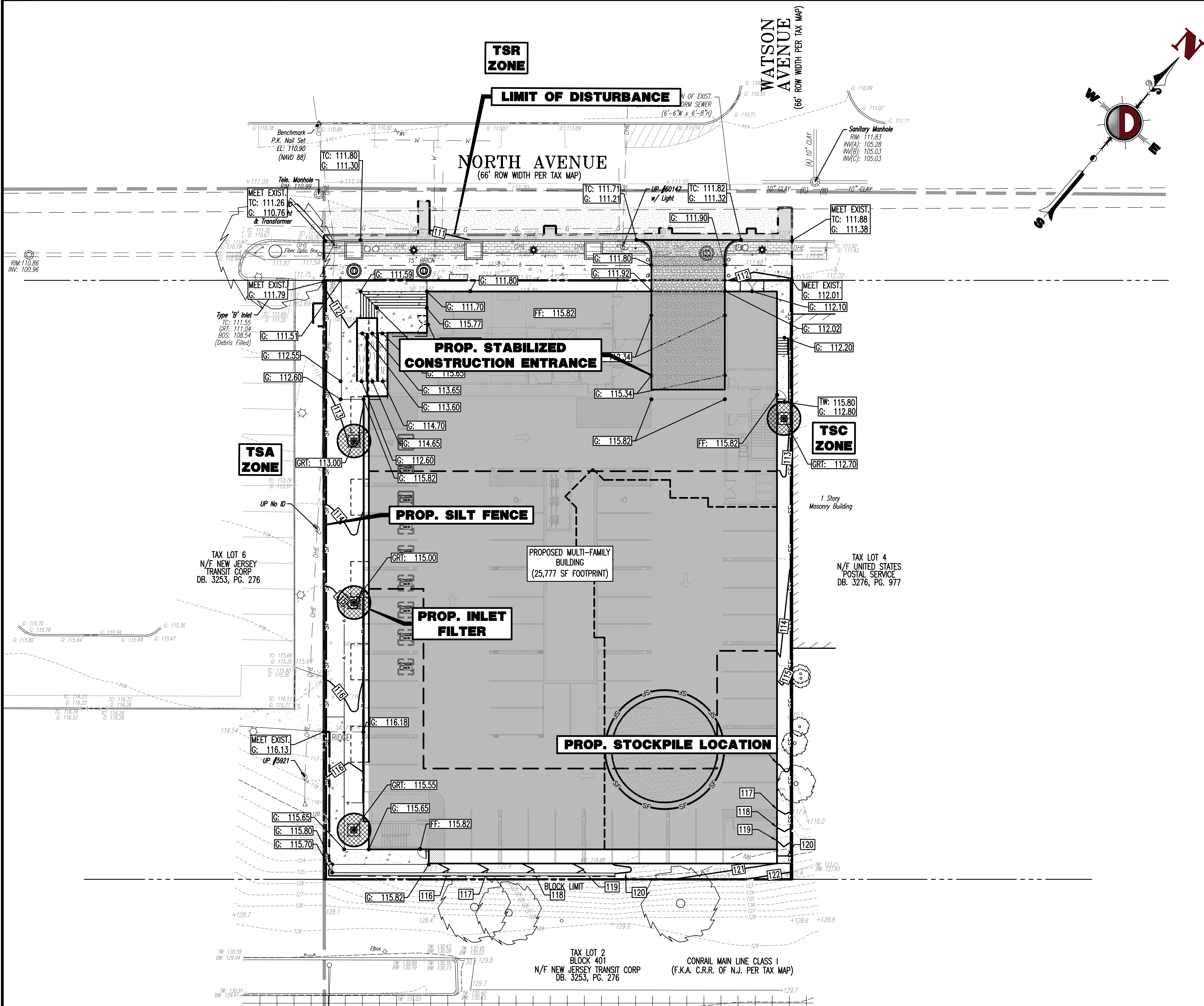
DATE: 05/12/2022

PROJECT No: 0404-99-045

SHEET No: **6**

Rev. #:

OF 13



STANDARD FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION

1. SITE PREPARATION
 - A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARDS FOR LAND GRADING.
 - B. IMMEDIATELY PRIOR TO SEEDING AND TOPSOIL APPLICATION, THE SUBSOIL SHALL BE EVALUATED FOR COMPACTION IN ACCORDANCE WITH THE STANDARD FOR LAND GRADING.
 - C. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING THE SOIL STRUCTURE. A UNIFORM APPLICATION TO A DEPTH OF 5 INCHES (UNSTILLED) IS REQUIRED ON ALL SITES. TOPSOIL SHALL BE AMENDED WITH ORGANIC MATTER, AS NEEDED, IN ACCORDANCE WITH THE STANDARD FOR TOPSOILING.
 - D. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE-STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.
2. SEEDED PREPARATION
 - A. UNIFORMLY APPLY GROUND LIMESTONE AND FERTILIZER TO TOPSOIL WHICH HAS BEEN SPREAD AND FIRMED, ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO-OPERATIVE EXTENSION. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS CO-OPERATIVE EXTENSION OFFICES (<http://NJAES.RUTGERS.EDU/COUNTY/>).
 - FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-20-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE AND INCORPORATED INTO THE SURFACE 4 INCHES. IF FERTILIZER IS NOT INCORPORATED, APPLY ONE-HALF THE RATE DESCRIBED ABOVE DURING SEEDED PREPARATION AND REPEAT ANOTHER ONE-HALF RATE APPLICATION OF THE SAME FERTILIZER WITHIN 3 TO 5 WEEKS AFTER SEEDING.
 - B. WORK LINE AND FERTILIZER INTO THE TOPSOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING-TOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISKING OPERATION SHOULD BE ON THE GENERAL CONTOUR, CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDED IS PREPARED.
 - C. HIGH ACID PRODUCING SOILS HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDE SHALL BE COVERED WITH A MINIMUM OF 12 INCHES OF SOIL HAVING A PH OF 5 OR MORE BEFORE INITIATING SEEDED PREPARATION. SEE STANDARD FOR MANAGEMENT OF HIGH ACID-PRODUCING SOILS FOR SPECIFIC REQUIREMENTS.
3. SEEDING
 - A. PERMANENT VEGETATIVE MIXTURES & PLANTING RATES
 - (1) HARD FESCUE - 75 LBS/ACRE 4 LBS/1000 SQ.FT.
 - (2) CHEWING FESCUE - 175 LBS/ACRE 4 LBS/1000 SQ.FT.
 - (3) STRONG CREEPING RED FESCUE - 175 LBS/ACRE 4 LBS/1000 SQ.FT.
 - (4) PERENNIAL RYEGRASS - 45 LBS/ACRE 1 LBS/1000 SQ.FT.
 - (5) KY. BLUEGRASS - 45 LBS/ACRE 1 LBS/1000 SQ.FT.
 - B. CONVENTIONAL SEEDING IS PERFORMED BY APPLYING SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTPACKER SEEDER. EXCEPT FOR CULTPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL WITHIN 24 HOURS OF SEEDED PREPARATION TO A DEPTH OF 1/4 TO 1/2 INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE-TEXTURED SOIL.
 - C. AFTER SEEDING, FIRING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE. THIS IS THE PREFERRED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WILL BE MINIMIZED AND WATER CONSERVATION ON SITE WILL BE MAXIMIZED.

- D. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK, OR TRAILER-MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORTFIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION 4-MULCHING BELOW). HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. WHEN POOR SEED TO SOIL CONTACT OCCURS, THERE IS A REDUCED SEED GERMINATION AND GROWTH.
4. MULCHING
 - A. STRAW OR HAY, UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, APPLIED AT THE RATE OF 1.5 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET), EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION IS 3 TONS PER ACRE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MULCH. HAY MULCH IS NOT RECOMMENDED FOR ESTABLISHING FINE TURF OR LAWNS DUE TO THE PRESENCE OF WEED SEED.
 - APPLICATION, SPREAD MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 85% OF THE SOIL SURFACE WILL BE COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FEET SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION.
 - ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS IN ACCORDANCE WITH THE STATE STANDARDS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COST.
 1. PEG AND TWINE
 2. MULCH NETTINGS
 3. CRIMPER MULCH ANCHORING COULTER TOOL
 4. LIQUID MULCH-BINDERS
 - B. WOOD-FIBER OR PAPER-FIBER MULCH - SHALL BE MADE FROM WOOD, PLANT FIBERS OR PAPER CONTAINING NO GROWTH OR GERMINATION INHIBITING MATERIALS, USED AT THE RATE OF 1,500 POUNDS PER ACRE, (OR AS RECOMMENDED BY THE PRODUCT MANUFACTURER) AND MAY BE APPLIED BY A HYDROSEEDER. MULCH SHALL NOT BE MIXED IN THE TANK WITH SEED. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.
 - C. PELLETED MULCH - COMPRESSED AND EXTRUDED PAPER AND/OR WOOD FIBER PRODUCT, WHICH MAY CONTAIN CO-POLYMERS, TACKIFIERS, FERTILIZERS, AND COLORING AGENTS, WHEN APPLIED TO A SEEDED AREA AND WATERED, FORM A MULCH MAT. PELLETED MULCH SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MULCH MAY BE APPLIED BY HAND OR MECHANICAL SPREADER AT THE RATE OF 60-75 LBS/1,000 SQUARE FEET AND ACTIVATED WITH 0.2 TO 0.4 INCHES OF WATER. THIS MATERIAL HAS BEEN FOUND TO BE BENEFICIAL FOR USE ON SMALL LAWN OR RENOVATION AREAS. SEEDED AREAS WHERE WEEDSEED FREE MULCH IS DESIRED, OR ON SITES WHERE STRAW MULCH AND TACKIFIER AGENT ARE NOT PRACTICAL OR DESIRABLE, APPLYING THE FULL 0.2 TO 0.4 INCHES OF WATER AFTER SPREADING PELLETED MULCH ON THE SEED BED IS EXTREMELY IMPORTANT FOR SUFFICIENT ACTIVATION AND EXPANSION OF THE MULCH TO PROVIDE SOIL COVERAGE.

THIS PLAN TO BE UTILIZED FOR SOIL EROSION & SEDIMENT CONTROL PURPOSES ONLY

- #### SOMERSET-UNION SOIL CONSERVATION DISTRICT SOIL EROSION & SEDIMENT CONTROL NOTES:
1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
 2. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 30 DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW OR EQUIVALENT MATERIAL, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.
 3. PERMANENT VEGETATION SHALL BE SEED OR SOODED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING. MULCH WILL BE USED FOR PROTECTION UNTIL SEEDING IS ESTABLISHED.
 4. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STATE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.
 5. A SUB-BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS IN ORDER TO STABILIZE STREETS, ROADS, DRIVEWAYS AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUB-BASE SHALL BE INSTALLED WITHIN 15 DAYS OF PRELIMINARY GRADING.
 6. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ON SLOPES SUBJECT TO EROSION (I.E. STEEP SLOPES, ROADWAY EMBANKMENTS) WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO THE STATE STANDARDS.
 7. ANY STEEP SLOPES RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION PROCEEDS (I.E. SLOPES GREATER THAN 3:1).
 8. TRAFFIC CONTROL INSTALLATION STANDARDS REQUIRE THE INSTALLATION OF A 50'X50'X12" PAD OF 1 1/2" OR 2" STONE AT ALL CONSTRUCTION ENTRANCES IMMEDIATELY AFTER INITIAL SITE DISTURBANCE.
 9. THE SOMERSET-UNION SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED IN WRITING 48 HOURS IN ADVANCE OF ANY LAND DISTURBING ACTIVITY.
 10. AT THE TIME WHEN THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER, SHALL BE REMOVED OR GRADED IN SUCH A WAY THAT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OF TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OR PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.
 11. IN THAT AREA 424-39 ET SEQ. REQUIRES THAT NO CERTIFICATE OF OCCUPANCY BE ISSUED BEFORE THE PROVISIONS OF THE CERTIFIED PLAN FOR SOIL EROSION AND SEDIMENT CONTROL HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES, ALL SITE WORK FOR SITE PLANS AND ALL WORK AROUND INDIVIDUAL LOTS IN SUBDIVISIONS, WILL HAVE TO BE COMPLETED PRIOR TO THE DISTRICT ISSUING A CERTIFICATE OF COMPLIANCE FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.
 12. CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.
 13. ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN WILL REQUIRE THE SUBMISSION OF REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO THE DISTRICT FOR RE-CERTIFICATION. THE REVISED PLANS MUST MEET ALL CURRENT STATE SOIL EROSION AND SEDIMENT CONTROL STANDARDS.
 14. THE SOMERSET-UNION SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED OF ANY CHANGES IN OWNERSHIP.
 15. MULCHING IN THE STANDARDS IS REQUIRED FOR PERMANENT VEGETATIVE STABILIZATION. CONDITIONS ARE ONLY ISSUED WHEN THE SEASON PROHIBITS SEEDING.
 16. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL ADJACENT ROADS CLEAN DURING THE LIFE OF THE CONSTRUCTION PROJECT.
 17. THE DEVELOPER SHALL BE RESPONSIBLE FOR REMEDIATING ANY EROSION OR SEDIMENT PROBLEMS THAT ARISE AS A RESULT OF ONGOING CONSTRUCTION AT THE REQUEST OF THE SOMERSET-UNION SOIL CONSERVATION DISTRICT.
 18. HYDROSEEDING IS A TWO STEP PROCESS. THE FIRST STEP INCLUDES SEED, FERTILIZER, LIME, ETC., ALONG WITH MINIMAL AMOUNTS OF MULCH TO PROMOTE CONSISTENCY. GOOD SEED TO SOIL CONTACT, AND GIVE A VISUAL INDICATION OF COVERAGE. UPON COMPLETION OF THE SEEDING OPERATION, HYDRO-MULCH SHOULD BE APPLIED AT A RATE OF 1500 LBS. PER ACRE IN THE SECOND STEP. THE USE OF HYDRO-MULCH, AS OPPOSED TO STRAW, IS LIMITED TO OPTIMUM SEEDING DATES AS LISTED IN THE STANDARDS.

SOMERSET - UNION SOIL CONSERVATION DISTRICT
SOMERSET COUNTY 4-H OFF CENTER
308 MILLWOWN ROAD
BRIDGEWATER, NJ 08807

STANDARD FOR TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION

1. SITE PREPARATION
 - A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARDS FOR LAND GRADING.
 - B. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS. SEE STANDARDS 11 THROUGH 42.
 - C. IMMEDIATELY PRIOR TO SEEDING, THE SURFACE SHOULD BE SCARIFIED 6" TO 12" WHERE THERE HAS BEEN SOIL COMPACTION. THIS PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.).
2. SEEDED PREPARATION
 - A. APPLY GROUND LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO-OPERATIVE EXTENSION. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS CO-OPERATIVE EXTENSION OFFICES (<http://NJAES.RUTGERS.EDU/COUNTY/>).
 - FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-20-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE.
 - LIMESTONE SHALL BE APPLIED AT THE RATE OF 2 TONS/ACRE UNLESS SOIL TESTING INDICATES OTHERWISE. CALCIUM CARBONATE IS THE EQUIVALENT AND STANDARD FOR MEASURING THE ABILITY OF LIMING MATERIALS TO NEUTRALIZE ACIDITY.
 - B. WORK LINE AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING-TOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISKING OPERATION SHOULD BE ON THE GENERAL CONTOUR, CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDED IS PREPARED.
 - C. INSPECT SEEDED AREAS JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE REELLED IN ACCORDANCE WITH THE ABOVE.
 - D. SOILS HIGH IN SULFIDES OR HAVING A PH OF 4 OR LESS REFER TO STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS, PG. 1-1.
3. SEEDING
 - A. TEMPORARY VEGETATIVE STABILIZATION GRASSES, SEEDING RATES, DATES AND DEPTHS
 - (1) PERENNIAL RYEGRASS - 100 LBS / ACRE; PLANT BETWEEN MARCH 1 AND MAY 15 BETWEEN AUGUST 15 AND OCTOBER 1; AT A DEPTH OF 0.5 INCHES.
 - (2) SPRING OATS - 86 LBS / ACRE; PLANT BETWEEN MARCH 1 AND MAY 15 BETWEEN AUGUST 15 AND OCTOBER 1; AT A DEPTH OF 1.0 INCHES.
 - (3) WINTER BARLEY - 86 LBS / ACRE; PLANT BETWEEN AUGUST 15 AND OCTOBER 1; AT A DEPTH OF 1.0 INCHES.
 - (4) ANNUAL RYEGRASS - 100 LBS / ACRE; PLANT BETWEEN MARCH 1 AND JUNE 15 BETWEEN AUGUST 1 AND SEPTEMBER 15; AT A DEPTH OF 0.5 INCHES.
 - (5) WINTER CEREAL RYE - 112 LBS / ACRE; PLANT BETWEEN AUGUST 1 AND NOVEMBER 15; AT A DEPTH OF 1.0 INCHES.
 - WARM SEASON GRASSES:
 - (1) PEARL MILLET - 20 LBS / ACRE; PLANT BETWEEN MAY 15 AND AUGUST 15; AT A DEPTH OF 1.0 INCHES.
 - (2) WHEAT (GERMAN OR HUNGARIAN) - 125 LBS / ACRE; PLANT BETWEEN MAY 15 AND AUGUST 15; AT A DEPTH OF 1.0 INCHES.
 - B. CONVENTIONAL SEEDING, APPLY SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTPACKER SEEDER. EXCEPT FOR DRILLED, HYDROSEEDER OR CULTPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL, TO A DEPTH OF 1/4 TO 1/2 INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE TEXTURED SOIL.
 - C. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT FIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION 4-MULCHING BELOW). HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. POOR SEED TO SOIL CONTACT OCCURS REDUCING SEED GERMINATION AND GROWTH. HYDROSEEDING MAY BE USED FOR AREAS TOO STEEP FOR CONVENTIONAL EQUIPMENT TO TRAVEL OR ON TOO STEEP SLOPES, STORMWATER, ETC.
 - D. AFTER SEEDING, FIRING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE. THIS IS THE PREFERRED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WILL BE MINIMIZED AND WATER CONSERVATION ON SITE WILL BE MAXIMIZED.
4. MULCHING
 - A. MULCHING IS REQUIRED ON ALL SEEDING. MULCH WILL INSURE AGAINST EROSION BEFORE GRASS IS ESTABLISHED AND WILL PROMOTE FASTER AND EARLIER ESTABLISHMENT. THE EXISTENCE OF VEGETATION SUFFICIENT TO CONTROL SOIL EROSION SHALL BE DEEMED COMPLIANCE WITH THIS MULCHING REQUIREMENT.
 - B. STRAW OR HAY, UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, APPLIED AT THE RATE OF 1-1/2 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET), EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION IS 3 TONS PER ACRE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MULCH. HAY MULCH IS NOT RECOMMENDED FOR ESTABLISHING FINE TURF OR LAWNS DUE TO THE PRESENCE OF WEED SEED.
 - APPLICATION, SPREAD MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 85% OF THE SOIL SURFACE WILL BE COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FEET SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION.
 - ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS IN ACCORDANCE WITH THE STATE STANDARDS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COST.
 1. PEG AND TWINE
 2. MULCH NETTINGS
 3. CRIMPER MULCH ANCHORING COULTER TOOL
 4. LIQUID MULCH-BINDERS
 - B. WOOD-FIBER OR PAPER-FIBER MULCH SHALL BE MADE FROM WOOD, PLANT FIBERS OR PAPER CONTAINING NO GROWTH OR GERMINATION INHIBITING MATERIALS, USED AT THE RATE OF 1,500 POUNDS PER ACRE (OR AS RECOMMENDED BY THE PRODUCT MANUFACTURER) AND MAY BE APPLIED BY A HYDROSEEDER. MULCH SHALL NOT BE MIXED IN THE TANK WITH SEED. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.
 - C. PELLETED MULCH, COMPRESSED AND EXTRUDED PAPER AND/OR WOOD FIBER PRODUCT, WHICH MAY CONTAIN CO-POLYMERS, TACKIFIERS, FERTILIZERS AND COLORING AGENTS, THE DRY PELLETS, WHEN APPLIED TO A SEEDED AREA AND WATERED, FORM A MULCH MAT. PELLETED MULCH SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MULCH MAY BE APPLIED BY HAND OR MECHANICAL SPREADER AT THE RATE OF 60-75 LBS/1,000 SQUARE FEET AND ACTIVATED WITH 0.2 TO 0.4 INCHES OF WATER. THIS MATERIAL HAS BEEN FOUND TO BE BENEFICIAL FOR USE ON SMALL LAWN OR RENOVATION AREAS. SEEDED AREAS WHERE WEEDSEED FREE MULCH IS DESIRED, OR ON SITES WHERE STRAW MULCH AND TACKIFIER AGENT ARE NOT PRACTICAL OR DESIRABLE, APPLYING THE FULL 0.2 TO 0.4 INCHES OF WATER AFTER SPREADING PELLETED MULCH ON THE SEED BED IS EXTREMELY IMPORTANT FOR SUFFICIENT ACTIVATION AND EXPANSION OF THE MULCH TO PROVIDE SOIL COVERAGE.

STANDARD FOR STABILIZATION WITH MULCH ONLY

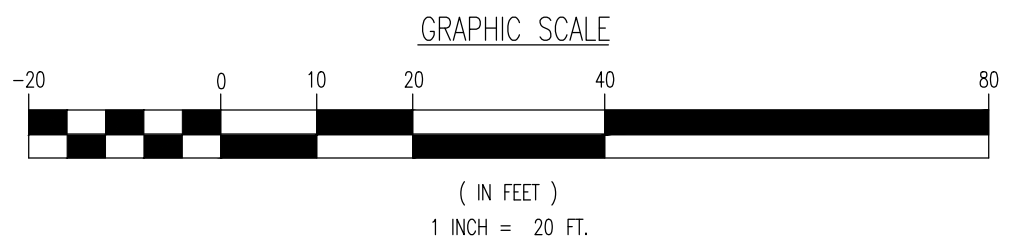
1. SITE PREPARATION
 - A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARDS FOR LAND GRADING.
 - B. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS. SEE STANDARDS 11 THROUGH 42.
2. PROTECTIVE MATERIALS
 - A. UNROTTED SMALL-GRAIN STRAW, AT 2.0 TO 2.5 TONS PER ACRE, IS SPREAD UNIFORMLY AT 90 TO 115 POUNDS PER 1,000 SQUARE FEET AND ANCHORED WITH A MULCH ANCHORING TOOL. LIQUID MULCH BINDERS, OR NETTING TIE DOWN, OR DISTURBANCE DISTRICTS, THE ANCHORING RATES ABOVE HAVE BEEN MET WHEN THE MULCH COVERS THE GROUND COMPLETELY UPON VISUAL INSPECTION, I.E. THE SOIL CANNOT BE SEEN BELOW THE MULCH.
 - B. SYNTHETIC OR ORGANIC SOIL STABILIZERS MAY BE USED UNDER SUITABLE CONDITIONS AND IN QUANTITIES AS RECOMMENDED BY THE MANUFACTURER.
 - C. WOOD-FIBER OR PAPER-FIBER MULCH AT THE RATE OF 1,500 POUNDS PER ACRE (OR ACCORDING TO THE MANUFACTURER'S REQUIREMENTS) MAY BE APPLIED BY A HYDROSEEDER.
 - D. MULCH NETTING, SUCH AS PAPER, JUTE, EXCELLORE, COTTON, OR PLASTIC, MAY BE USED.
 - E. WOODCHIPS APPLIED UNIFORMLY TO A MINIMUM DEPTH OF 2 INCHES. WOODCHIPS WILL NOT BE USED ON AREAS WHERE FLOWING WATER COULD WASH THEM INTO AN INLET AND PLUG THE INLET OR DESIRABLE.
 - F. GRAVEL, CRUSHED STONE, OR SLAG AT THE RATE OF 9 CUBIC YARDS PER 1,000 SQ. FT. APPLIED UNIFORMLY TO A MINIMUM DEPTH OF 3 INCHES MAY BE USED. SIZE 2 OR 3 (ASTM C-33) IS RECOMMENDED.
3. MULCH ANCHORING - SHOULD BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT OF HAY OR STRAW MULCH TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS IN ACCORDANCE WITH THE STATE STANDARDS, DEPENDING UPON THE SIZE OF THE AREA AND STEEPNESS OF SLOPES.
 - A. PEG AND TWINE
 - B. MULCH NETTINGS
 - C. CRIMPER MULCH ANCHORING COULTER TOOL
 - D. LIQUID MULCH-BINDERS

LIMIT OF DISTURBANCE = 33,590 SF. (0.77 Ac.)

EROSION CONTROL LEGEND

- PROP. LIMIT OF DISTURBANCE LINE
- PROP. SILT FENCE LINE
- PROP. INLET FILTER

SEE SHEET 9 OF 13 FOR ADDITIONAL SOIL EROSION NOTES AND DETAILS



DYNAMIC
ENGINEERING • SURVEY • TRAFFIC

REV.	DATE	COMMENTS
1	06/15/22	REVISION PER CITY COMPLETENESS COMMENTS

THIS PLAN SET IS FOR PERMITTING PURPOSES ONLY AND MAY NOT BE USED FOR CONSTRUCTION

DRAWN BY: RRR
CHECKED BY: RJC
DESIGNED BY: SDP
PROJECT: 1112 NORTH AVENUE, LLC
PROPOSED MULTI-FAMILY BUILDING
BLOCK 402, LOT 5
1112-1118 NORTH AVENUE
CITY OF PLAINFIELD, UNION COUNTY, NEW JERSEY

811
Call before you dig
FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO USE THE EARTH'S SURFACE ANYWHERE IN ANY STATE

DYNAMIC ENGINEERING
LAND DEVELOPMENT CONSULTING • PERMITTING
TRAFFIC • SURVEY • PLANNING & ZONING
245 Main Street, Suite 110
Chester, NJ 07930
T: 908.879.9229 | F: 908.879.0222
Offices conveniently located at:
Littleton, CO • 719.371.1111
Cherry Hill, NJ • 856.679.9229
Newark, NJ • 973.750.7500
Trenton, NJ • 609.687.0000
New York, NY • 212.465.0000
Philadelphia, PA • 215.555.4888
Baltimore, MD • 410.388.4400
Arling Heights, IL • 708.384.0200
Houston, TX • 281.368.0400
Dallas, TX • 214.644.0404
Del Rio, TX • 254.702.0570

BRETT W. SKAPINETZ
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. 41985

ROBERT J. COLUCCO III
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. 55851

TITLE: **SOIL EROSION & SEDIMENT CONTROL PLAN**

SCALE: (h) 1"=20'
(v) 1"=20'

DATE: 05/12/2022

PROJECT: 0404-99-045

SHEET No: 8

Rev. #: 1

STANDARD FOR DUST CONTROL

DEFINITION

THE CONTROL OF DUST ON CONSTRUCTION SITES AND ROADS.

PURPOSE

TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCE ON-AND OFF-SITE DAMAGE AND HEALTH HAZARDS, AND IMPROVE TRAFFIC SAFETY.

WHERE APPLICABLE

THE FOLLOWING METHODS SHOULD BE CONSIDERED FOR CONTROLLING DUST:

MULCHES. - SEE STANDARDS FOR STABILIZATION WITH MULCHES ONLY

VEGETATIVE COVER. - SEE STANDARDS FOR TEMPORARY VEGETATIVE COVER, PERMANENT VEGETATIVE COVER, AND PERMANENT STABILIZATION WITH SOD.

SPRAY-ON ADHESIVES. - ON MINERAL SOILS (NO EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS.

	WATER DILUTION	TYPE OF NOZZLE	APPLY GALLONS/ACRE
ANIONIC ASPHALT	7:1	COARSE SPRAY	1,200
EMULSION			
LATEX EMULSION	12.5:1	FINE SPRAY	235
RESIN IN WATER	4:1	FINE SPRAY	300

TILLAGE. TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS A TEMPORARY EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHisel-TYPE PLOWS SPACED ABOUT 12 INCHES APART, AND SPRING-TOOTHED HARROWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.

SPRINKLING. - SITE IS SPRINKLED UNTIL THE SURFACE IS WET.

BARRIERS. - SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY, AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING.

CALCIUM CHLORIDE. - SHALL BE IN THE FORM OF LOOSE, DRY GRANULES OR FLAKES FINE ENOUGH TO FEED THROUGH COMMONLY USED SPREADERS AT A RATE THAT WILL KEEP SURFACE MOIST BUT NOT CAUSE POLLUTION OR PLANT DAMAGE. IF USED ON STEEPER SLOPES, THEN USE OTHER PRACTICES TO PREVENT WASHING INTO STREAMS OR ACCUMULATION AROUND PLANTS.

STONE. - COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

STANDARD FOR PERMANENT STABILIZATION WITH SOD

METHODS AND MATERIALS

1. CULTIVATED SOD IS PREFERRED OVER NATIVE OR PASTURE SOD. SPECIFY "CERTIFIED SOD," OR OTHER HIGH QUALITY CULTIVATED SOD.

2. SOD SHOULD BE FREE OF WEEDS AND UNDERSIRABLE COARSE WEEDY GRASSES.

3. SOD SHOULD BE OF UNIFORM THICKNESS, APPROXIMATELY 5/8 INCH, PLUS OR MINUS 1/4 INCH, AT TIME OF CUTTING. (EXCLUDES TOP GROWTH.)

4. SOD SHOULD BE VIGOROUS AND DENSE AND BE ABLE TO RETAIN ITS OWN SHAPE AND WEIGHT WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP FROM THE UPPER 10 PERCENT OF THE STRIP. BROWN PADS OR TOPS AND UNDEEN ENDS WILL NOT BE ACCEPTABLE.

5. FOR DRAUGHT SITES, A SOD OF KENTUCKY 31 TALL FESCUE AND BLUEGRASS IS PREFERRED OVER A STRAIGHT BLUEGRASS SOD.

6. ONLY MOST FRESH UNWEARED SOD SHOULD BE USED. SOD SHOULD BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS.

I. SITE PREPARATION

A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR LIMING, FERTILIZING, AND SOIL PREPARATION. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARD FOR LAND GRADING, PAGE 4.31.

B. INSTALL NEEDED EROSION CONTROL PRACTICES AND FACILITIES, SUCH AS INTERCEPT DITCHES, DIKES AND TERRACES, EROSION STOPS, AND DE-SILTING BASINS. SEE STANDARDS 4.2 THROUGH 4.16.

II. SOIL PREPARATION

A. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TESTS SUCH AS THOSE OFFERED BY RUTGERS UNIVERSITY SOIL TESTING LABORATORY. SOIL SAMPLE MAINTERS ARE AVAILABLE FROM THE LOCAL COOPERATIVE EXTENSION SERVICE OFFICE. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIOUS SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-10-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN AND INCORPORATED INTO THE SURFACE 4". IN ADDITION, 300 POUNDS 38-0-0 PER ACRE OR EQUIVALENT OF SLOW RELEASE NITROGEN MAY BE USED IN LIEU OF TOP-DRESSING. APPLY LIMESTONE AS FOLLOWS:

SOIL TEXTURE	TONS/ACRE	LB5/1000 SQ. FT
CLAY, CLAY LOAM, AND HIGH ORGANIC SOIL	3	135
SANDY LOAM, LOAM, SILT LOAM	2	90
LOAMY SAND, SAND	1	45

DOLOMITE LIMESTONE IS PREFERRED FOR MOST SOILS SOUTH OF THE NEW BRUNSWICK-TRENTON LINE.

B. WORK LIMES AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING TOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCOING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM, FINE SEEDBED IS PREPARED.

C. REMOVE FROM THE SURFACE ALL OBJECTS THAT WOULD PREVENT GOOD SOD TO SOIL CONTACT AND REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMPS, OR OTHER UNSUITABLE MATERIAL.

D. INSPECT SITE JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RE-TILLED AND FIRMED AS ABOVE.

III. SOD PLACEMENT

A. SOD STRIPS SHOULD BE LAID ON THE CONTOUR, NEVER UP AND DOWN THE SLOPE, STARTING AT THE BOTTOM OF THE SLOPE AND WORKING UP. ON STEEP SLOPES, THE USE OF LADDERS WILL FACILITATE THE WORK AND PREVENT DAMAGE TO THE SOD.

DURING PERIODS OF HIGH TEMPERATURE, LIGHTLY IRRIGATE THE SOIL IMMEDIATELY PRIOR TO LAYING THE SOD.

B. PLACE SOD STRIPS WITH SNUG, EVEN JOINTS THAT ARE STAGGERED. OPEN SPACES INVITE EROSION.

C. ROLL OR TAMP SOD IMMEDIATELY FOLLOWING PLACEMENT TO INSURE SOLID CONTACT OF ROOT MAT AND SOIL SURFACE. DO NOT OVERLAP SOD. ALL JOINTS SHOULD BE BUTTED TIGHTLY IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE DRYING OF THE ROOTS.

D. ON SLOPES GREATER THAN 3 TO 1, SECURE SOD TO SURFACE SOIL WITH WOOD PEGS, WIRE STAPLES, OR SPLIT SHINGLES (8 TO 10 INCHES LONG BY 3/4 INCH WIDE).

E. SURFACE WATER CANNOT ALWAYS BE DIVERTED FROM FLOWING OVER THE FACE OF THE SLOPE, BUT A CAPPING STRIP OF HEAVY JUTE OR PLASTIC NETTING, PROPERLY SECURED, ALONG THE CROWN OF THE SLOPE AND EDGES WILL PROVIDE EXTRA PROTECTION AGAINST LIFTING AND UNDERCUTTING OF SOD. THE SAME TECHNIQUE CAN BE USED TO ANCHOR SOD IN WATER CARRYING CHANNELS AND OTHER CRITICAL AREAS. WIRE STAPLES MUST BE USED TO ANCHOR NETTING IN CHANNEL WORK.

F. IMMEDIATELY FOLLOWING INSTALLATION, SOD SHOULD BE WATERED UNTIL MOISTURE PENETRATES THE SOIL LAYER BENEATH SOD TO A DEPTH OF 4 INCHES. MAINTAIN OPTIMUM MOISTURE FOR AT LEAST TWO WEEKS.

IV. TOP-DRESSING

IF SLOW RELEASE NITROGEN IS USED IN ADDITION TO SUGGESTED FERTILIZER, THEN A FOLLOW-UP OF TOP DRESSING IS NOT MANDATORY, EXCEPT WHERE GROSS NITROGEN DEFICIENCY EXISTS IN THE SOIL TO THE EXTENT THAT TURF FAILURE MAY DEVELOP.

TOP-DRESS WITH 10-0-10 OR EQUIVALENT AT 400 POUNDS PER ACRE OR 7 POUNDS PER 1,000 SQUARE FEET EVERY 3 TO 5 WEEKS UNTIL THE GROSS NITROGEN DEFICIENCY IN THE TURF IS AMELIORATED.

SEQUENCE OF CONSTRUCTION:

PHASE 1: INSTALL STONE ANTI-TRACKING PAD AND OTHER SOIL EROSION AND SEDIMENT CONTROL MEASURES INCLUDING DOWNSLOPE PERIMETER AND SILT FENCING.

PHASE 2: CLEAR AND ROUGH GRADE FOR NEW BUILDING SITE AND OTHER STRUCTURES REQUIRING EXCAVATION.

PHASE 3: EXCAVATE FOR BUILDING FOUNDATION AND INSTALL UNDERGROUND PIPING AND DRAINAGE STRUCTURES.

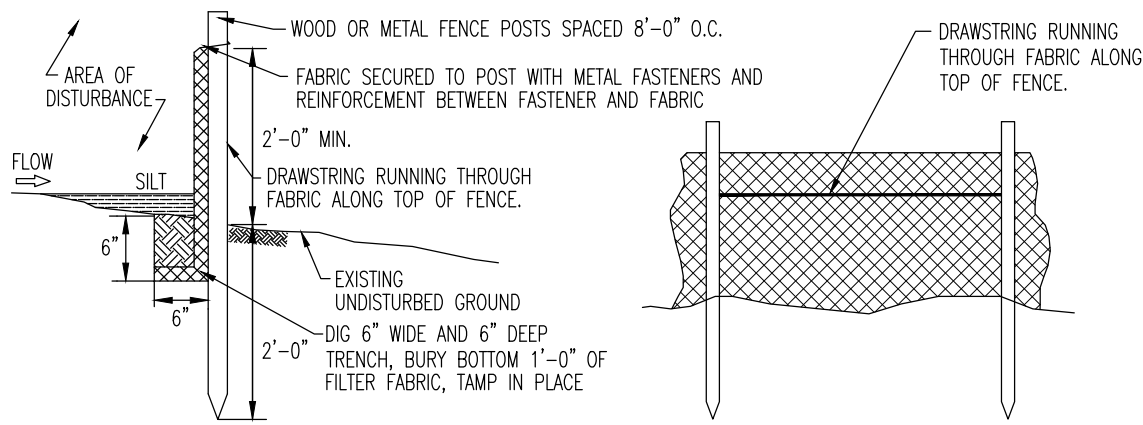
PHASE 4: COMPLETE BUILDING CONSTRUCTION.

PHASE 5: EXCAVATE AND INSTALL ON-SITE IMPROVEMENTS INCLUDING CURBING AND RETAINING WALLS.

PHASE 6: FINAL GRADING ON SITE.

PHASE 7: INSTALL PAVING, CONCRETE, AND FINAL VEGETATION INCLUDING SEEDING AND LANDSCAPING.

PHASE 8: REMOVE SOIL EROSION AND SEDIMENT CONTROL MEASURES INCLUDING DOWNSLOPE PERIMETER AND SILT FENCING UPON COMPLETION.



1. PLACE SILT FENCE AT LOCATIONS AS SHOWN ON THE SOIL EROSION AND SEDIMENT CONTROL PLAN.
2. THE SLOPE OF THE LAND FOR AT LEAST 30 FEET ADJACENT TO ANY SILT FENCE SHALL NOT EXCEED 5 PERCENT.
3. SILT FENCE SHALL BE INSTALLED SO WATER CANNOT BYPASS THE FENCE ALONG THE SIDES.
4. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE AS PROMPTLY AS POSSIBLE.
5. SILT FENCE SHALL REMAIN IN PLACE FOR THE DURATION OF THE PROJECT UNLESS OTHERWISE INSTRUCTED BY THE TOWNSHIP ENGINEER OR SOIL CONSERVATION DISTRICT.
6. THE BARRIER SHALL BE REMOVED WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. FENCE POSTS SHALL BE SPACED 8 FEET CENTER-TO-CENTER OR CLOSER. THEY SHALL EXTEND AT LEAST 2 FEET INTO THE GROUND AND EXTEND AT LEAST 2 FEET ABOVE GROUND. POSTS SHALL BE CONSTRUCTED OF HARDWOOD A MIN. DIAMETER THICKNESS OF 1 1/2 INCHES.
8. A METAL FENCE WITH 6 INCH OR SMALLER OPENINGS AND AT LEAST 2 FEET HIGH MAY BE UTILIZED, FASTENED TO THE FENCE POSTS, TO PROVIDE REINFORCEMENT AND SUPPORT TO THE GEOTEXTILE FABRIC WHERE SPACE FOR OTHER PRACTICES IS LIMITED AND HEAVY SEDIMENT (LOADING IS EXPECTED).
9. A GEOTEXTILE FABRIC, RECOMMENDED FOR SUCH USE BY THE MANUFACTURER, SHALL BE BURIED AT LEAST 6 INCHES DEEP IN THE GROUND. THE FABRIC SHALL EXTEND AT LEAST 2 FEET ABOVE GROUND. FABRIC MUST BE SECURELY FASTENED TO THE POSTS USING A SYSTEM CONSISTING OF METAL FASTENERS (NAILS OR STAPLES) AND HIGH STRENGTH REINFORCEMENT MATERIAL (NYLON WEBBING, CROWMETS, WADERS ETC.) PLACED BETWEEN THE FASTENER AND THE GEOTEXTILE FABRIC. THE FASTENING SYSTEM SHALL RESIST TEARING AWAY FROM THE POST. THE FABRIC SHALL INCORPORATE A DRAWSTRING IN THE TOP PORTION OF THE FENCE FOR ADDED STRENGTH.

SILT FENCE DETAIL

NOT TO SCALE

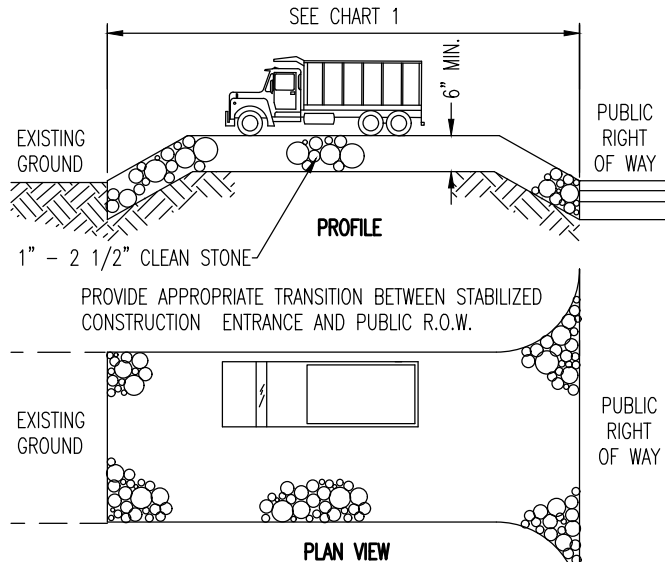


CHART 1

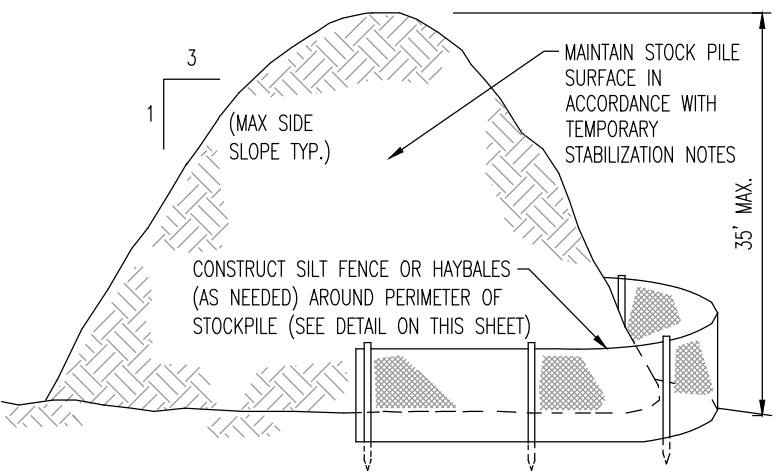
PERCENT SLOPE OF ROADWAY	LENGTH OF STONE REQUIRED
0 TO 2%	50 FT
2% TO 5%	100 FT
>5%	100 FT

PROVIDE APPROPRIATE TRANSITION BETWEEN STABILIZED CONSTRUCTION ENTRANCE AND PUBLIC R.O.W.

(1) AS PRESCRIBED BY LOCAL ORDINANCE OR OTHER GOVERNING AUTHORITY.

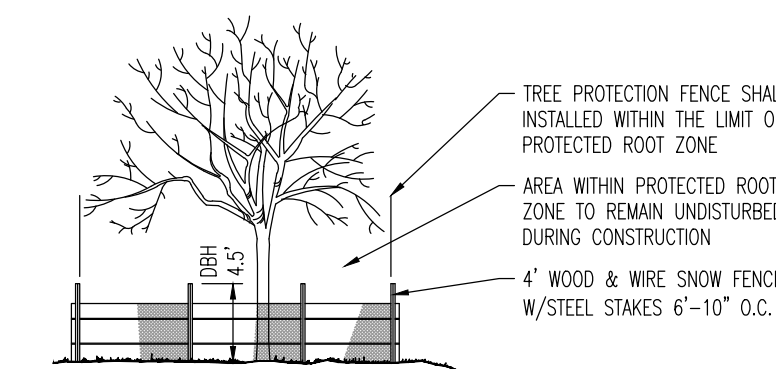
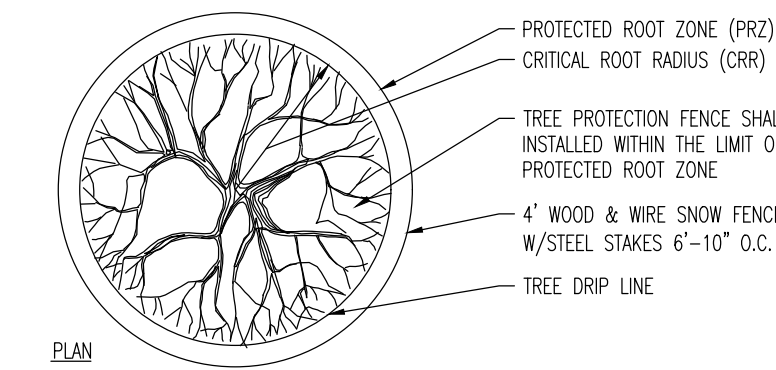
STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE



TEMPORARY STOCKPILE DETAIL

NOT TO SCALE



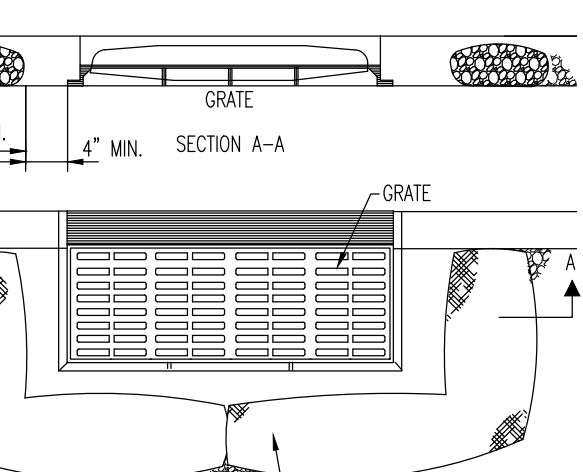
- ESTIMATE A TREE'S PROTECTED ROOT ZONE (PRZ) BY CALCULATING THE CRITICAL ROOT RADIUS (CRR)
1. MEASURE THE DBH (DIAMETER OF TREE AT BREAST HEIGHT, 4.5' ABOVE GROUND ON THE UPHILL SIDE OF TREE) IN INCHES.
 2. MULTIPLY MEASURED DBH BY 1.5 OR 1.0. EXPRESS THE RESULT IN FEET.

DBH x 1.5: CRITICAL ROOT RADIUS FOR OLDER, UNHEALTHY, OR SENSITIVE SPECIES.

DBH x 1.0: CRITICAL ROOT RADIUS FOR YOUNGER, HEALTHY OR TOLERANT SPECIES.

TREE PROTECTION DURING SITE CONSTRUCTION DETAIL

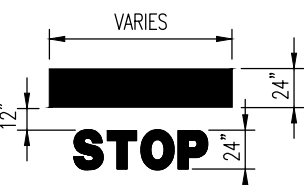
NOT TO SCALE



- NOTES:
1. GEOTEXTILE TO BE WOVEN POLYPROPYLENE PRODUCT 1177, BY SYNTHETIC INDUSTRIES INC., OR TERRATEX SC, BY WETEC INC., OR APPROVED EQUAL.
 2. 3/4" CLEAN STONE CORE SHALL BE COMPLETELY CONTAINED WITHIN GEOTEXTILE. SEAMS SHALL BE SEWN OR CLOSED BY SUITABLE MECHANICAL MEANS TO PREVENT LEAKAGE OF STONE.
 3. WHERE NO CURB IS PRESENT, BARRIER SHALL COMPLETELY ENCLOSE THE DRAIN INLET.
 4. INLET GRATE OPENING IS TO BE KEPT CLEAR OF OBSTRUCTIONS AT ALL TIMES.
 5. THE PROTECTION DEVICE WILL BE DESIGNED TO CAPTURE OR FILTER RUNOFF FROM THE 1 YEAR, 24 HOUR STORM EVENT AND SHALL SAFELY CONVEY HIGHER FLOWS DIRECTLY INTO THE STORM SEWER SYSTEM.
 6. OTHER METHODS THAT ACCOMPLISH THE PURPOSE OF STORM SEWER INLET PROTECTION MAY BE USED IF APPROVED BY THE SOIL CONSERVATION DISTRICT.
 7. INSPECTIONS SHALL BE FREQUENT. MAINTENANCE, REPAIR AND REPLACEMENT SHALL BE MADE PROMPTLY, AS NEEDED. THE BARRIER SHALL BE REMOVED WHEN THE AREA DRAINING TOWARDS THE INLET HAS BEEN STABILIZED.

INLET FILTER DETAIL

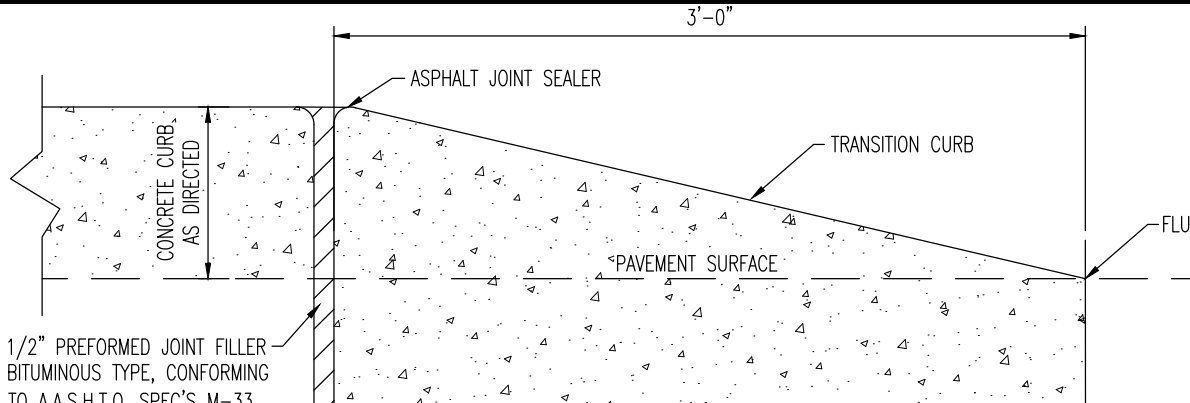
NOT TO SCALE



NOTE: ARROWS AND WORDS CAN BE ARRANGED IN OTHER COMBINATIONS THAN THOSE ILLUSTRATED HERE TO ACHIEVE DESIRED RESULT. ALL PAINT TO BE THERMOPLASTIC.

PAINTED MARKING DETAILS

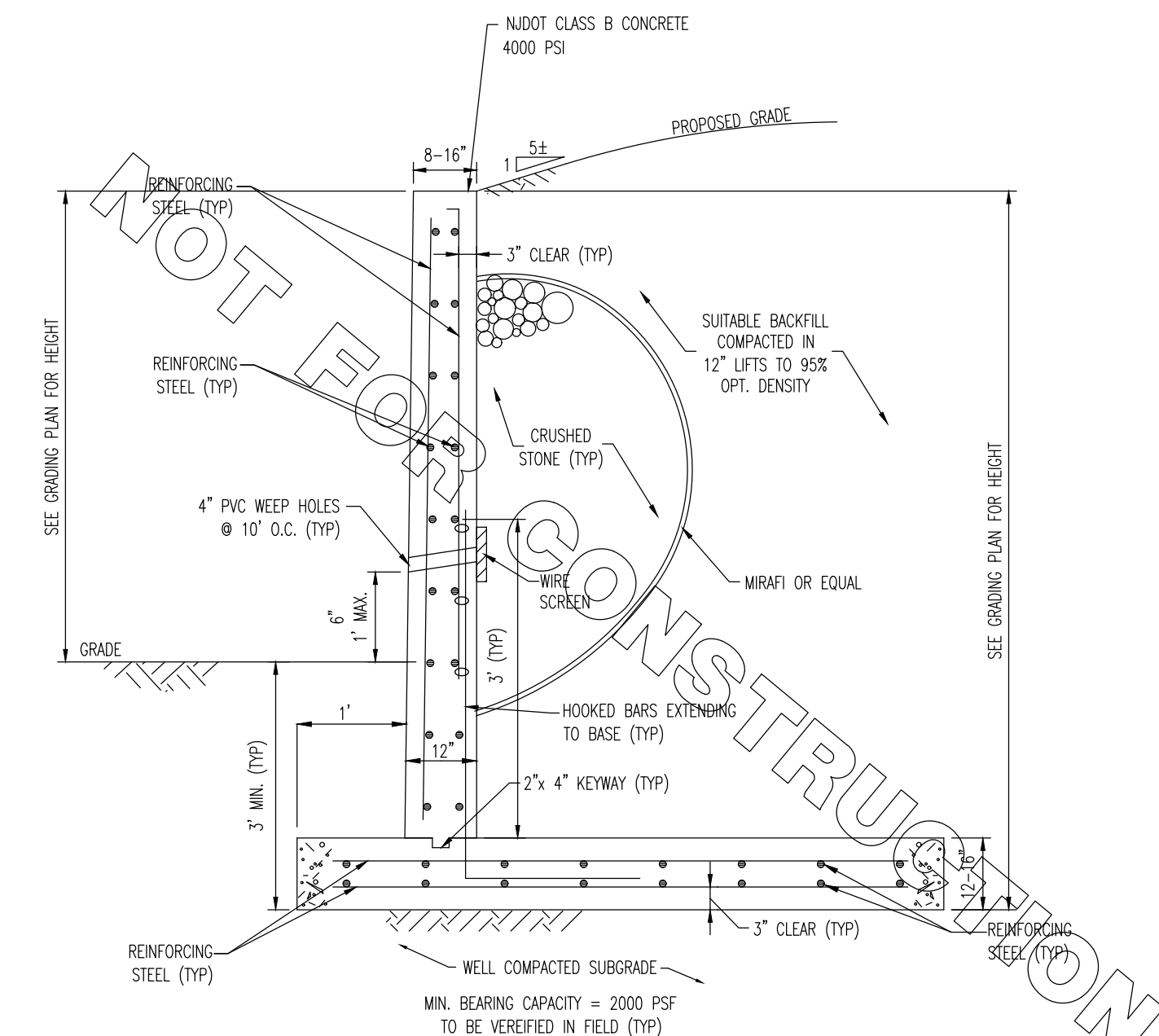
NOT TO SCALE



NOTE: SEE CURB DETAIL FOR MATERIAL SPECIFICATIONS, BEDDING REQUIREMENTS, ETC.

VERTICAL CURB TAPER DETAIL

NOT TO SCALE

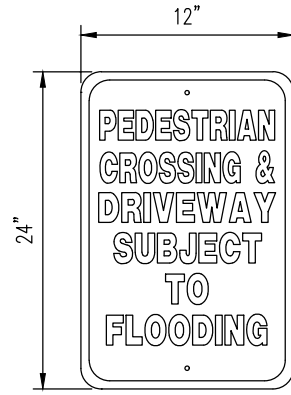


- NOTE: 1. DETAIL IS FOR SITE PLAN REVIEW ONLY. DETAIL SHALL NOT BE USED FOR BIDDING OR CONSTRUCTION.
2. A DESIGN SIGNED & SEALED BY A PROFESSIONAL ENGINEER OF ALL RETAINING WALLS AND REINFORCING TO BE SUBMITTED TO MUNICIPAL ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.

CONCRETE RETAINING WALL DETAIL

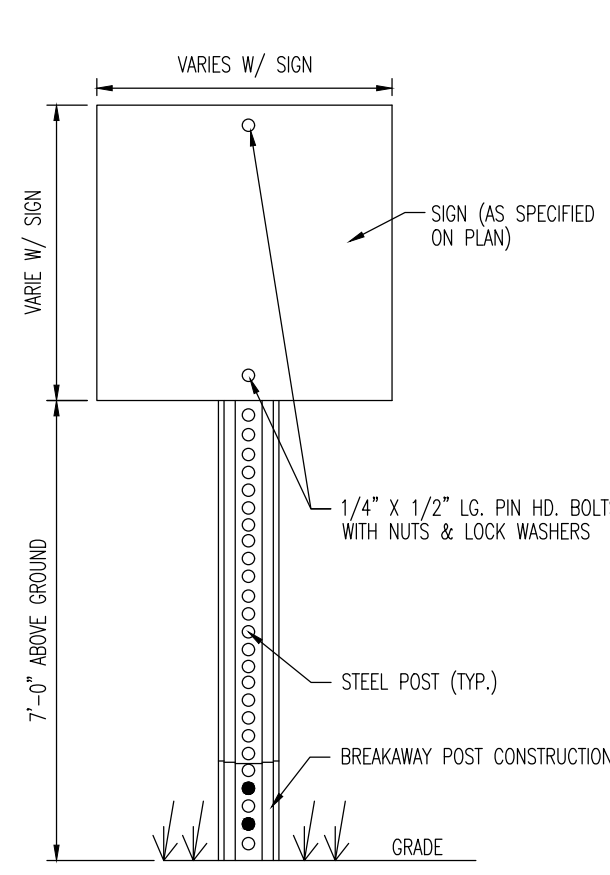
NOT TO SCALE

MUNICIPAL, COUNTY, STATE AND NJUA DETAILS TO SUPERCEDE DYNAMIC ENGINEERING DETAILS WHERE APPLICABLE



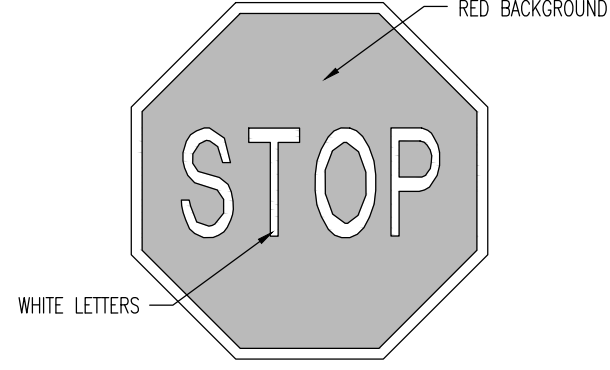
"PEDESTRIAN CROSSING & DRIVEWAY SUBJECT TO FLOODING" SIGN DETAIL

NOT TO SCALE



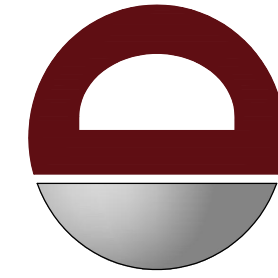
SIGN POST DETAIL

NOT TO SCALE



R1-1 SIGN DETAIL

NOT TO SCALE



DYNAMIC
ENGINEERING • SURVEY • TRAFFIC

REV.	DATE	COMMENTS
1	06/15/22	REVISED PER CITY COMPLETENESS COMMENTS

THIS PLAN SET IS FOR PERMITTING PURPOSES ONLY AND MAY NOT BE USED FOR CONSTRUCTION	DESIGNED BY: RRR	CHECKED BY: RRR	IN CHARGE BY: RRR
	DESIGNED BY: SDP	CHECKED BY: RJC	IN CHARGE BY: RJC
PROJECT: 1112 NORTH AVENUE, LLC BLOCK 402, LOT 5 1112-1118 NORTH AVENUE CITY OF PLAINFIELD, UNION COUNTY, NEW JERSEY			

811
FOR STATE-SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISRUPT THE EARTH'S SURFACE ANYWHERE IN ANY STATE

DYNAMIC ENGINEERING
LAND DEVELOPMENT CONSULTING • PERMITTING
GEOTECHNICAL • ENVIRONMENTAL
TRAFFIC • SURVEY • PLANNING & ZONING
245 Main Street, Suite 110
Chester, NJ 07930
T: 908.879.9229 | F: 908.879.0222
Offices conveniently located at:
Long Valley, NJ • 908.879.9229
Cherry Hill, NJ • 908.879.9229
Newark, NJ • 908.879.9229
Trenton, NJ • 908.879.9229
New York, NY • 908.879.9229
Philadelphia, PA • 908.879.9229
Baltimore, MD • 908.879.9229
Arlington, VA • 908.879.9229
Houston, TX • 908.879.9229
Dallas, TX • 908.879.9229
Delaware, DE • 908.879.9229

www.dynamiccec.com

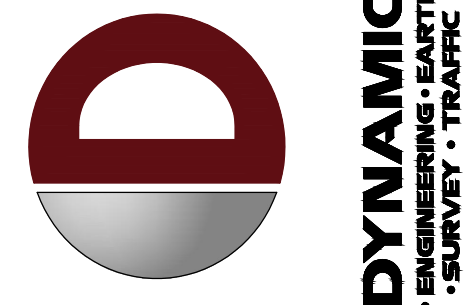
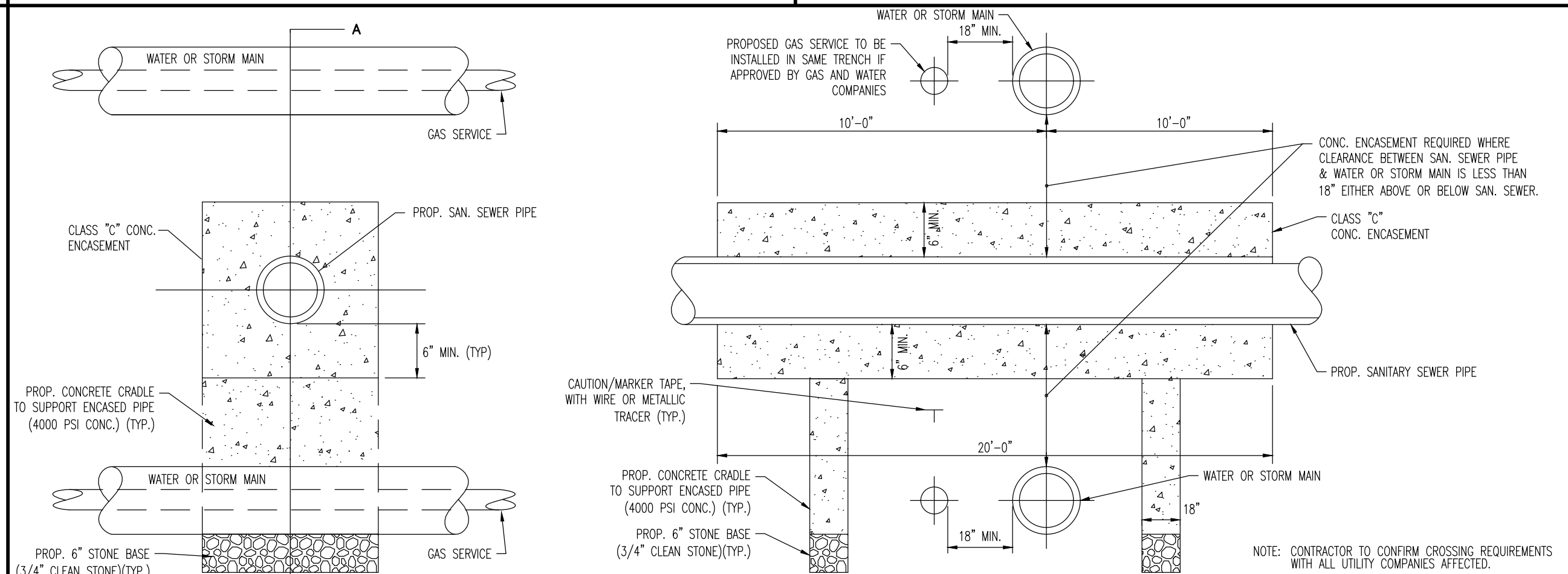
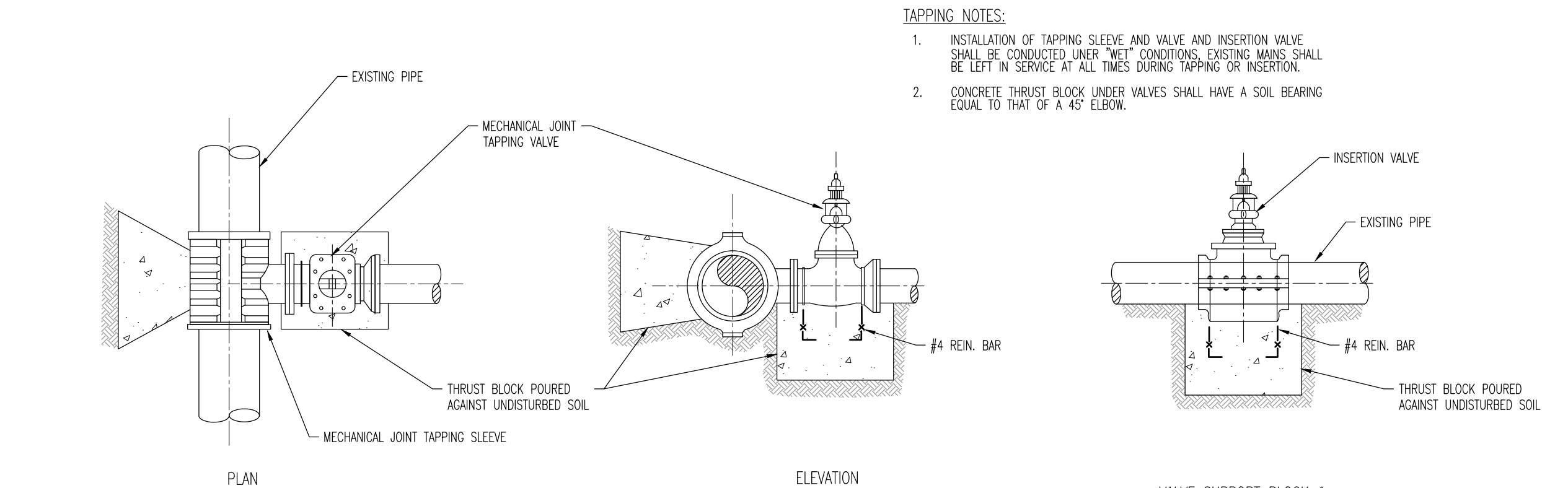
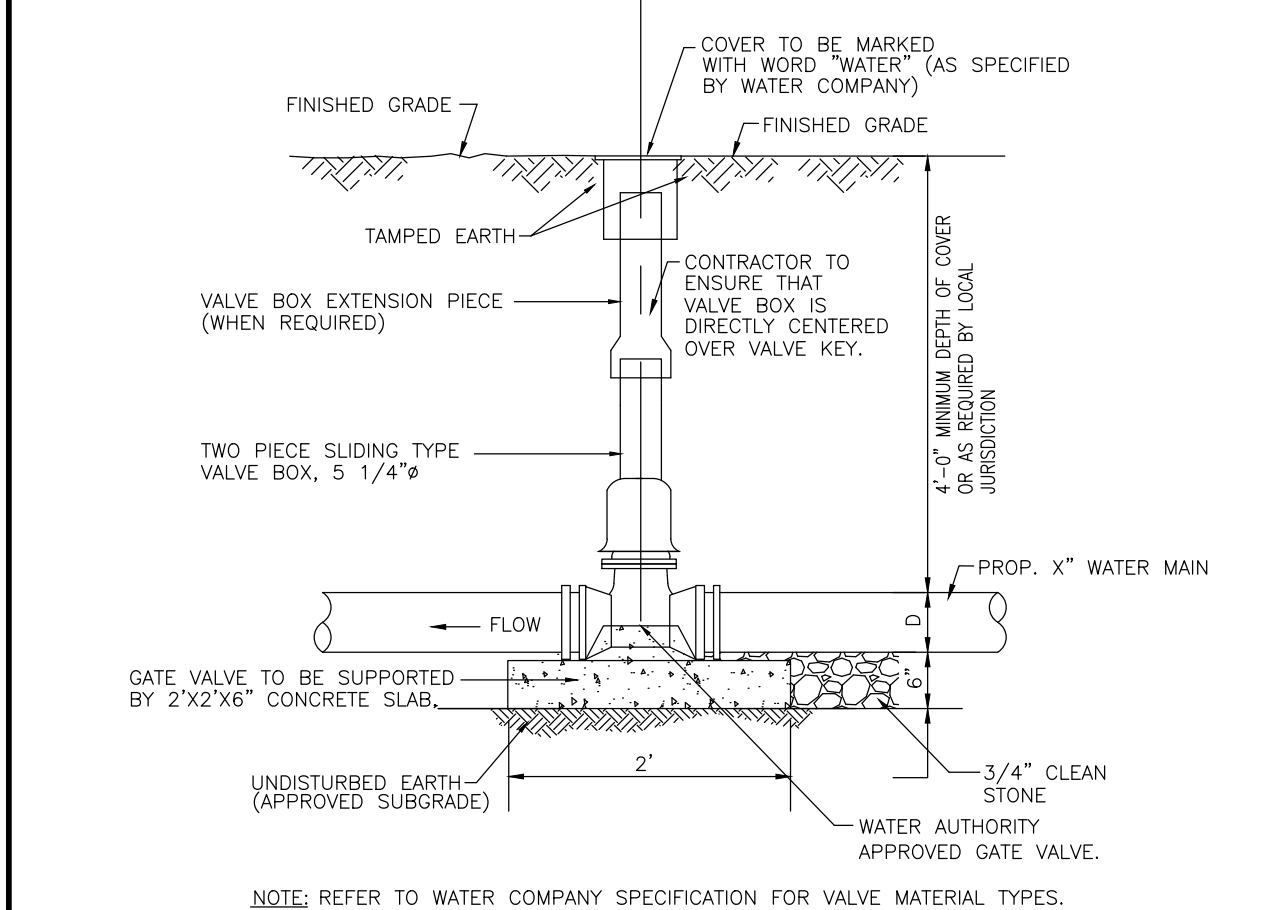
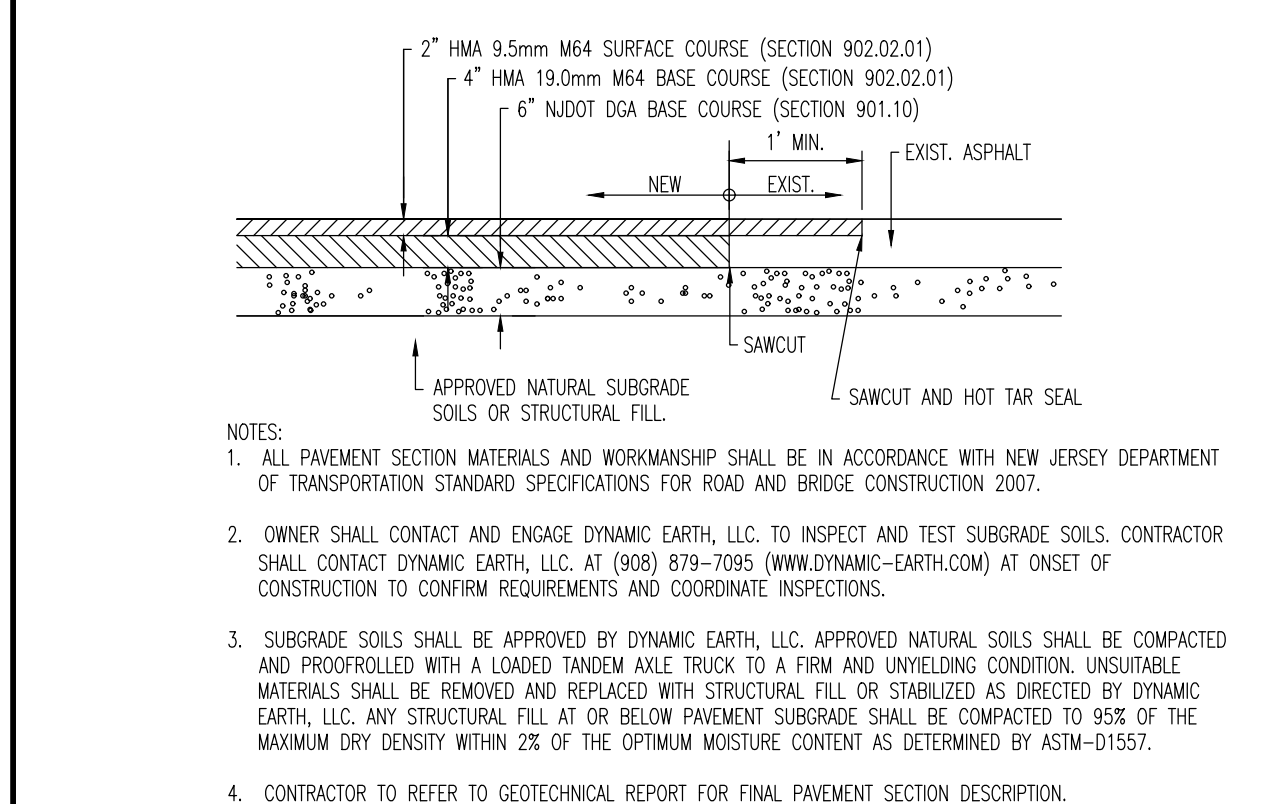
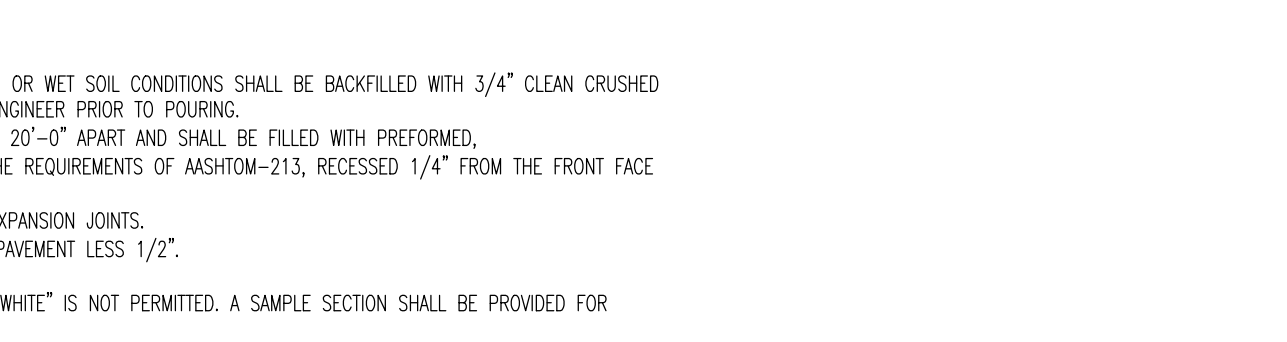
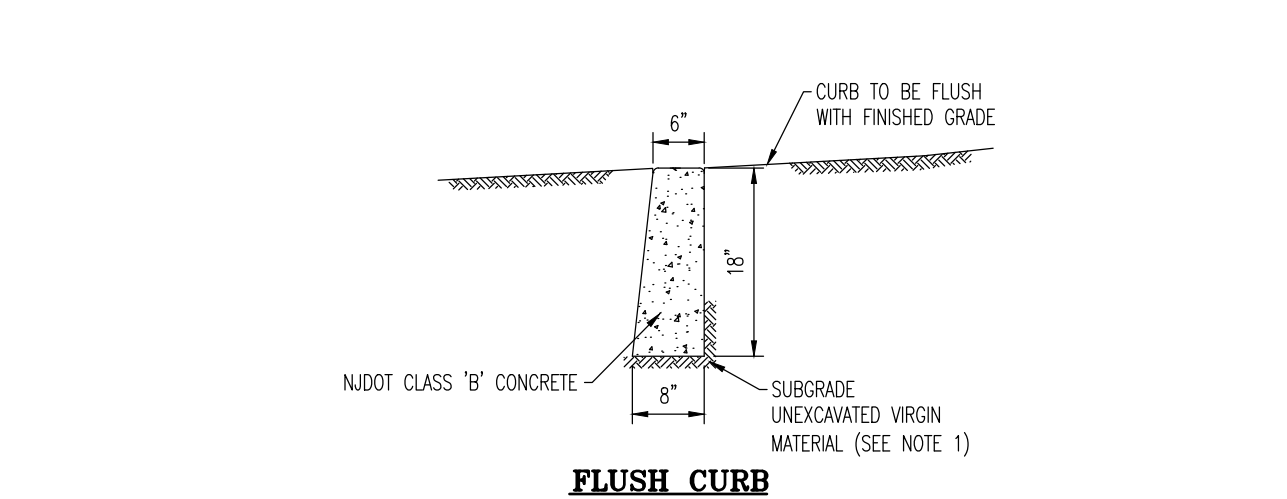
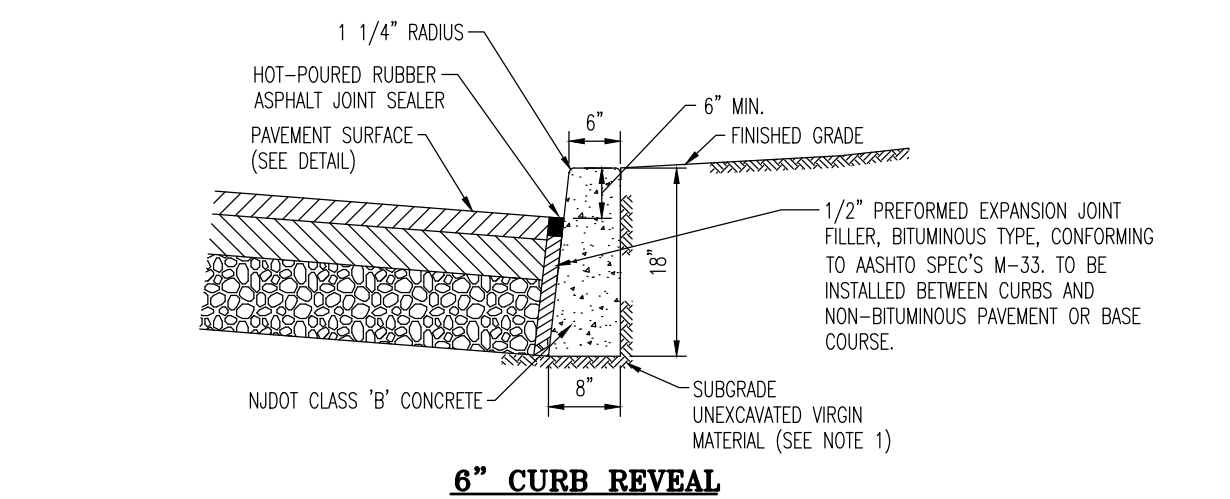
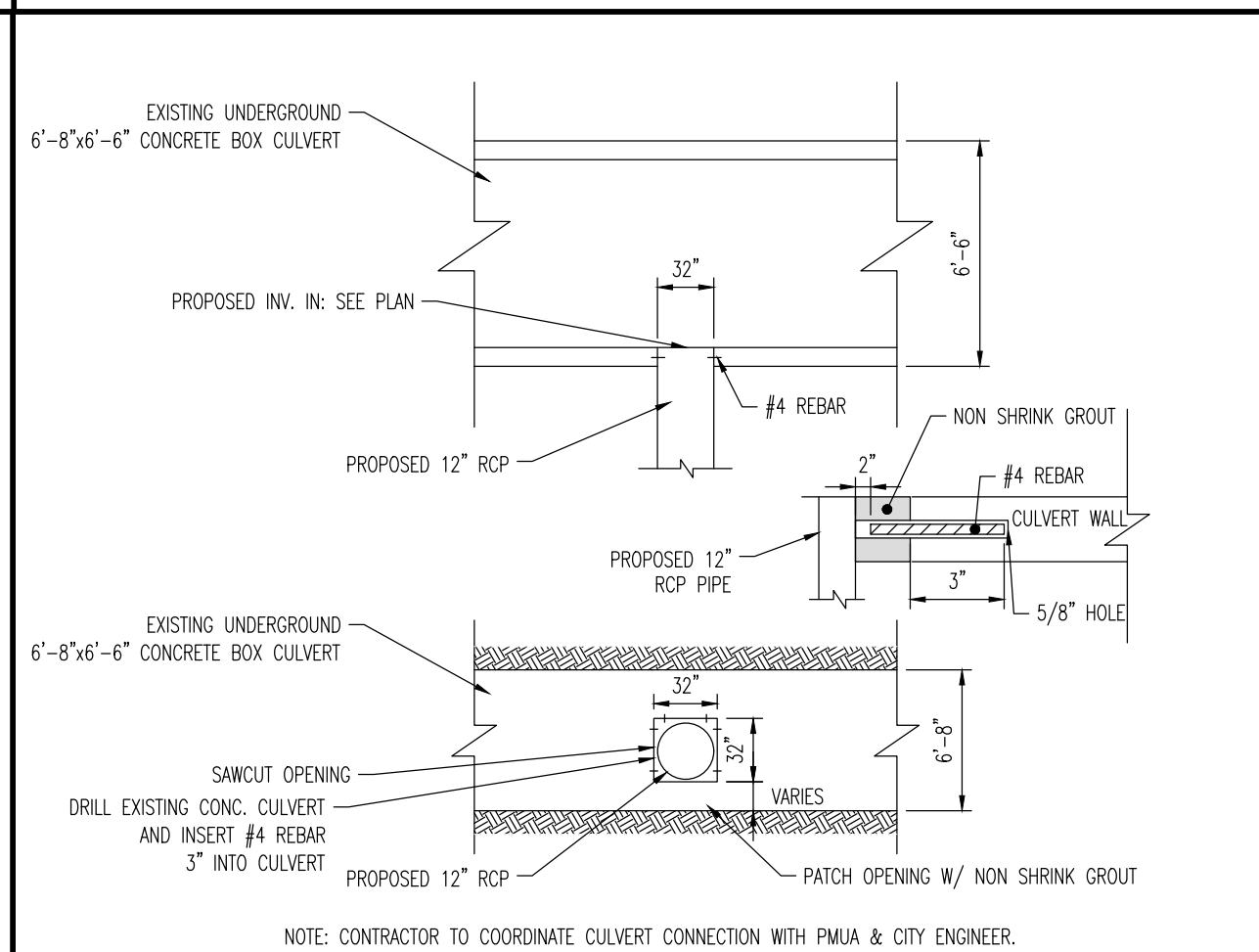
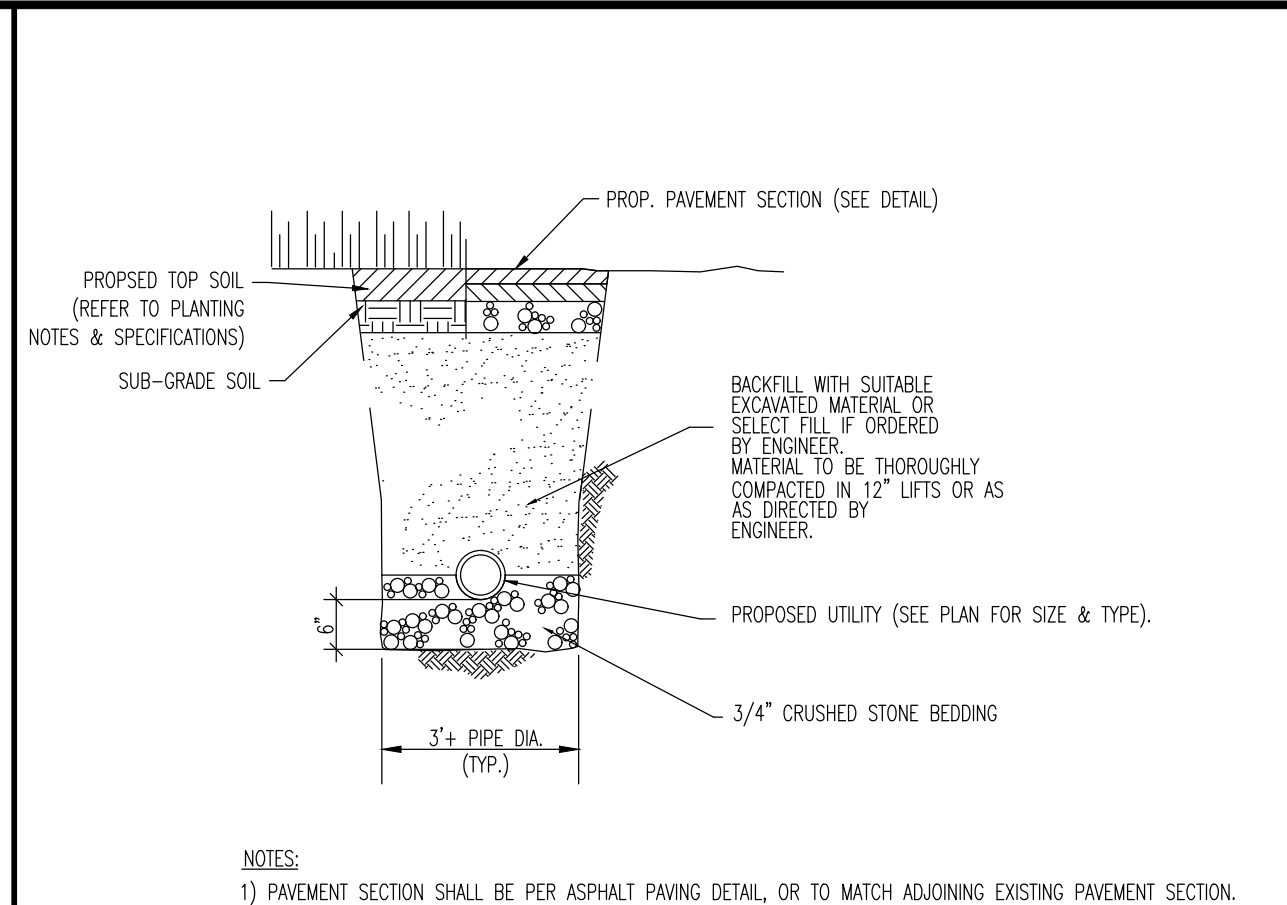
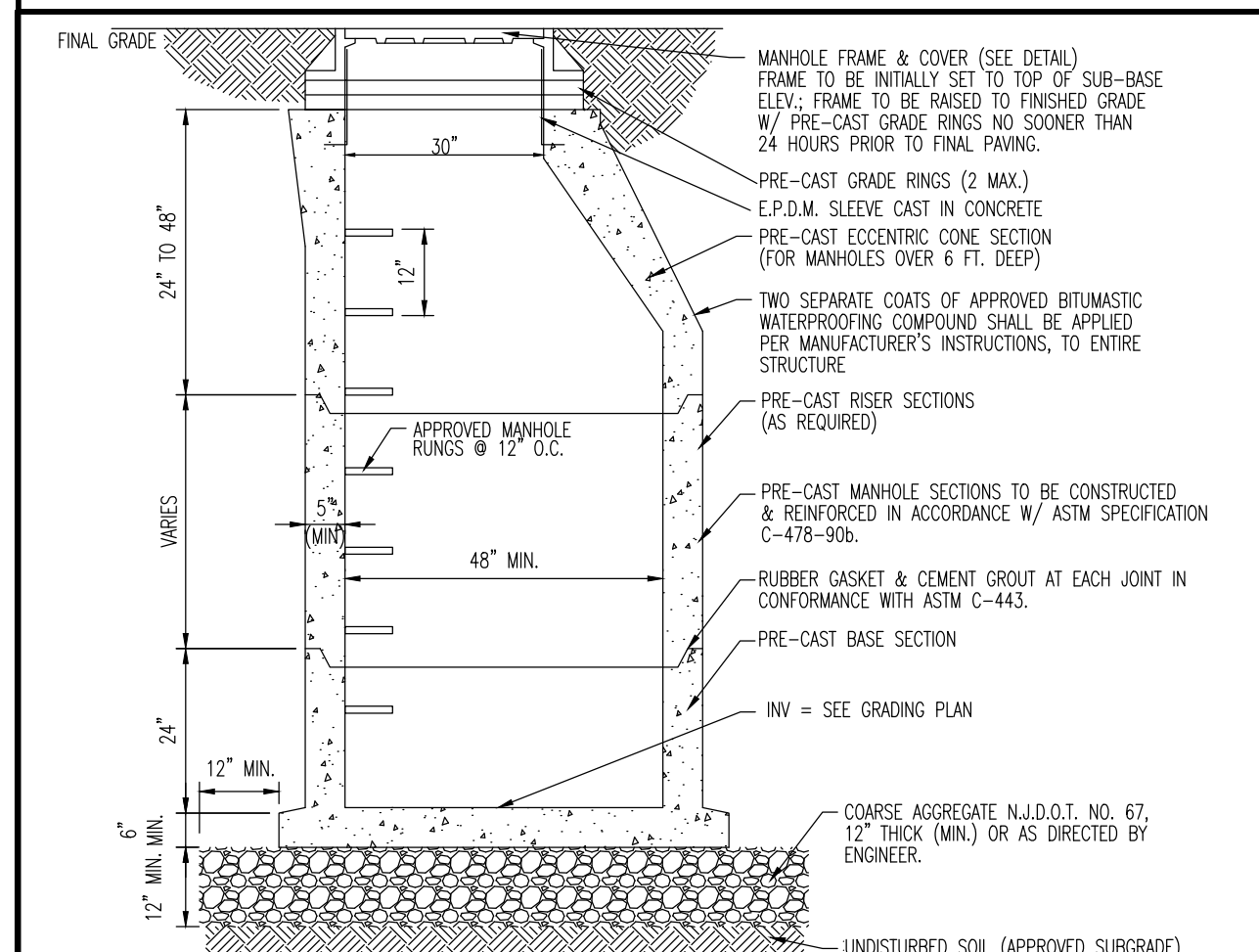
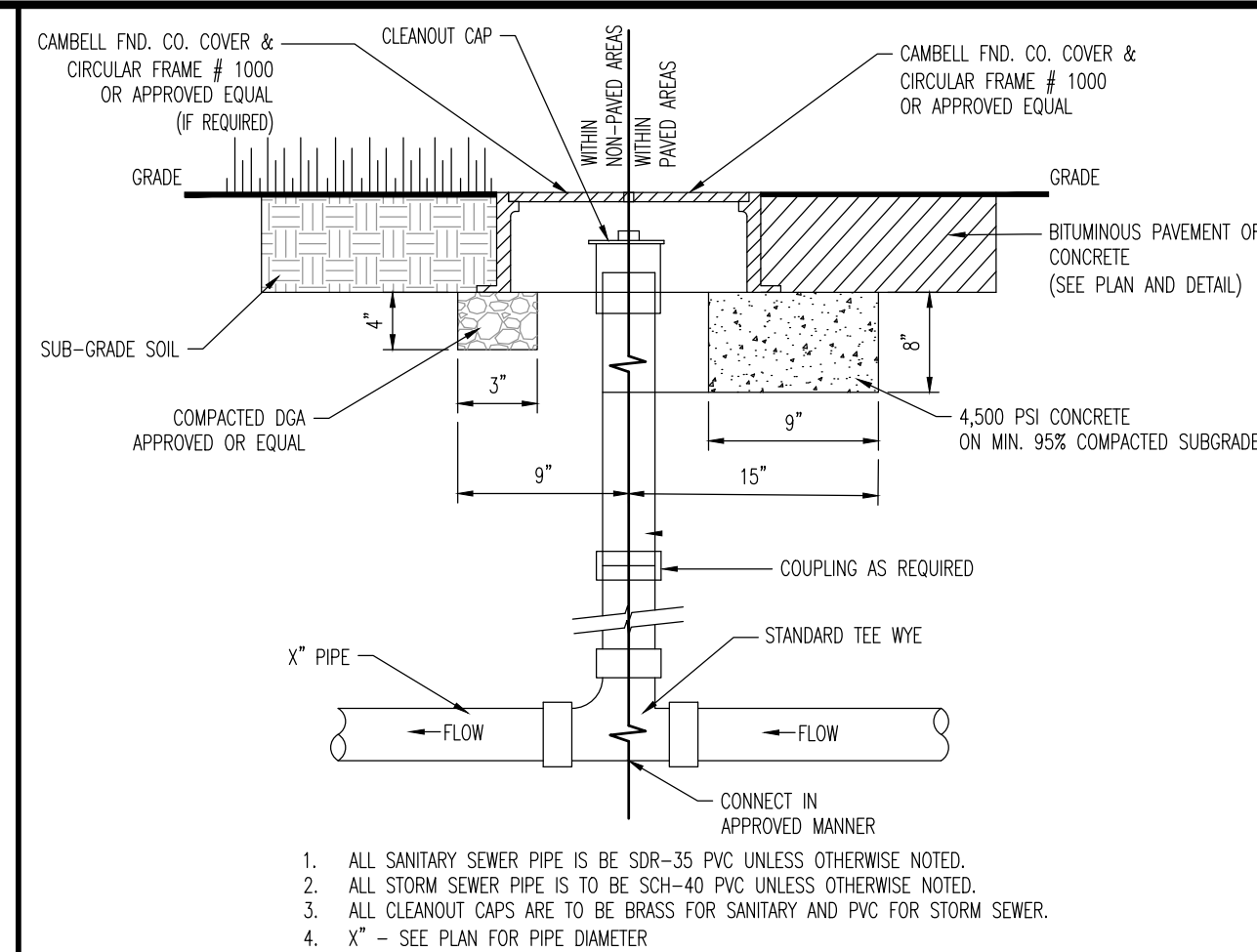
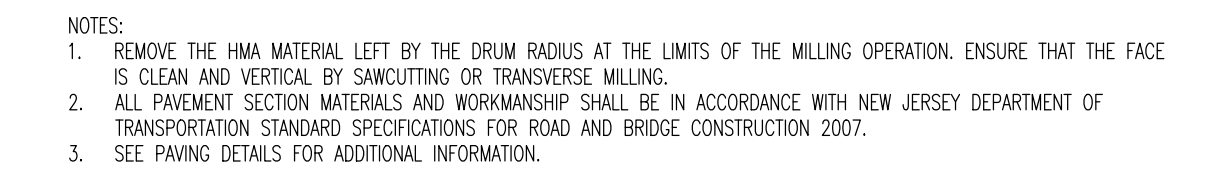
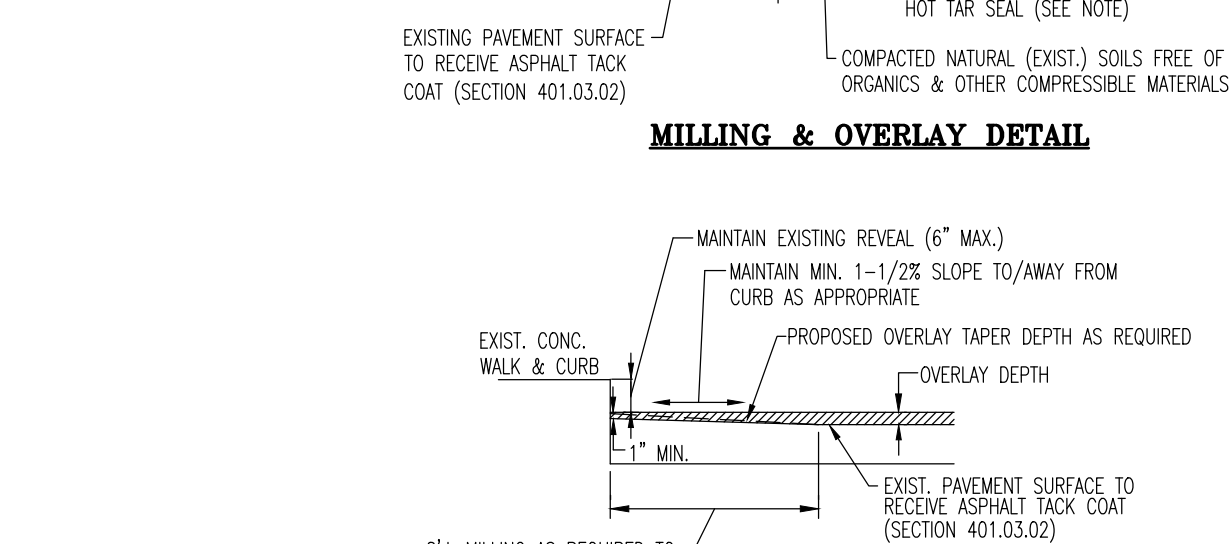
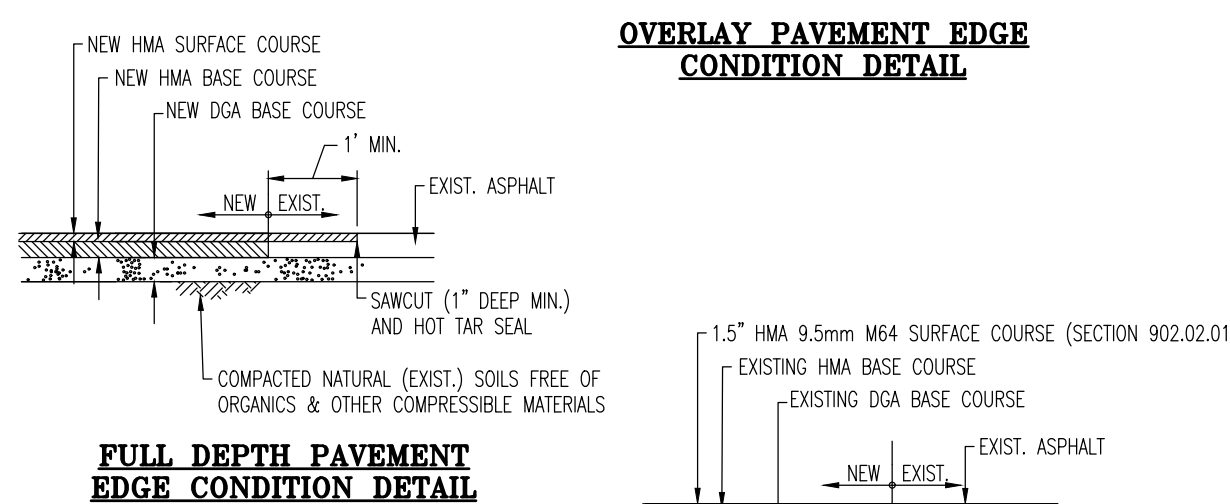
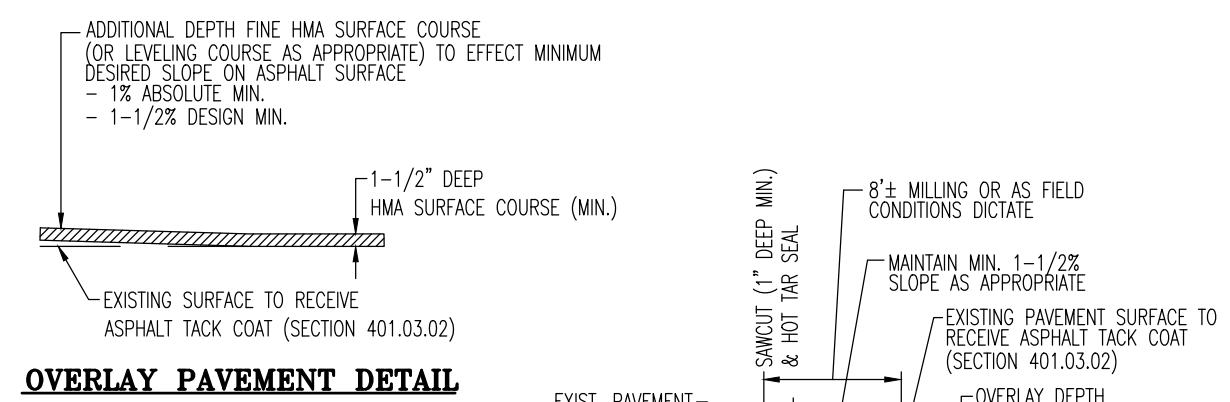
BRETT W. SKAPINETZ
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. 41985

ROBERT J. COLUCCO III
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. 55851

CONSTRUCTION DETAILS

SCALE: (H) AS SHOWN	DATE: 05/12/2022
PROJECT No: 0404-99-045	

SHEET No: 9	Rev. #:
OF 13	1

[illegible]

**THIS PLAN SET IS FOR PERMITTING PURPOSES
ONLY AND MAY NOT BE USED FOR CONSTRUCTION**

OWNER	R/R	S/D	R/C

PROJECT: **1112 NORTH AVENUE, LLC**

PROPOSED MULTI-FAMILY BUILDING

BLOCK 1402, LOT 5

1112 NORTH AVENUE

CITY OF PLAINFIELD, UNION COUNTY, NEW JERSEY



**DYNAMIC
ENGINEERING**

LAND DEVELOPMENT CONSULTING • PERMITTING
GEOTECHNICAL • ENVIRONMENTAL
TRAFFIC • SURVEY • PLANNING & ZONING

245 Main Street, Suite 110
Chester, NJ 07930

T: 908.879.9229 | F: 908.879.0222

Offices conveniently located at:

Chandler, New Jersey : T: 908.879.9229
Newark, New Jersey : T: 973.755.7200
Toms River, New Jersey : T: 732.687.0000
Newtown, Pennsylvania : T: 267.665.0076
Philadelphia, Pennsylvania : T: 215.253.4886
Bethlehem, Pennsylvania : T: 610.598.4400
Allen, Texas : T: 972.534.2100
Houston, Texas : T: 281.789.4430
Austin, Texas : T: 512.646.2646
Dayton Beach, Florida : T: 561.921.8570

www.dynamicsec.com

BRETT W. SKAPINETZ

PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 41985

ROBERT J. COLUCCO III

PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. 55854

TITLE: CONSTRUCTION
DETAILS

SCALE: (H) AS (V) SHOWN	DATE: 05/12/2022
PROJECT No: 0404-99-045	

SHEET No:	10	Rev. #:	1
OF 13			


4" THICK CONCRETE/BLUESTONE SIDEWALK DETAIL
NOT TO SCALE

AVAILABLE OPTIONS:

POINTER COATING
1 STANDARD COLOR, 2 OPTIONAL METALLIC COLORS,
CUSTOM COLOR (INCLUDES THE PAL MARGE)
CUSTOM PLACES IN DECALS
AVAILABLE WITH THEE PLAKES IN VARIOUS SIZES AND PRESSURE SENSITIVE
TWO OPTION BEZELS

LIDS
STANDARD TAPERED FORMER LID, AVAILABLE WITH OPTIONAL JUNE LID (AS SHOWN),
ONE LID WITH STAINLESS STEEL ARMSTRONG, CONYER LID, CONYER LID
WITH DOME LOCK, MAIN ARMORE LID, MAIN DOME LOCK LID WITH
STAINLESS STEEL ARMSTRONG, AND ROTATE LIDS. ARMSTRONG AVAILABLE WITH
OPTIONAL ARMSTRONG COVER.
SECURITY
AVAILABLE WITH LOCKABLE LATCH, AVAILABLE WITH OPTIONAL KEYED LOCK BOX,
OPTIONAL TENSILE LOCK BOX, LID BOLTED IN PLACE, AVAILABLE WITH OPTIONAL
MOUNT WITH 3-1/2 INCH ANCHOR BOLTS AND OPTIONAL STATION PLATE COVER.

DECORATIVE ALUMINUM FENCE (BLACK) DETAIL

 **VICTOR STANLEY, INC.**
-Manufacturers of Quality Site Furnishings since 1962-
Toll Free: (800) 368-2573

P.O. Drawer 330, Dunkirk, Maryland 20754 U.S.A.
Tel: (301) 855-8300 • Fax: (410) 257-7579
E-Mail: sales@victorst Stanley.com
www.victorst Stanley.com

Drawn By: MER
Rev: 09/09/2008
Layout ID: RB10

VSI Standard Band Decal

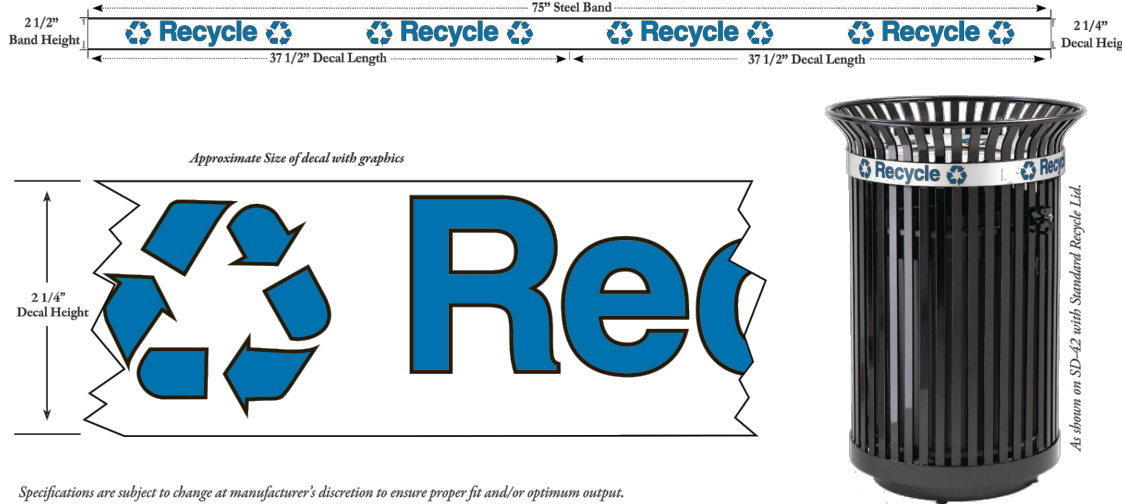
Graphics Application: The graphics will be printed onto a pressure sensitive vinyl decal and applied to the top steel band of the neoprecure.

Decal Size: 57 1/2" x 2 1/4" (2 decals per band)

Decal Color: White

Image Color: Intense Blue & Black

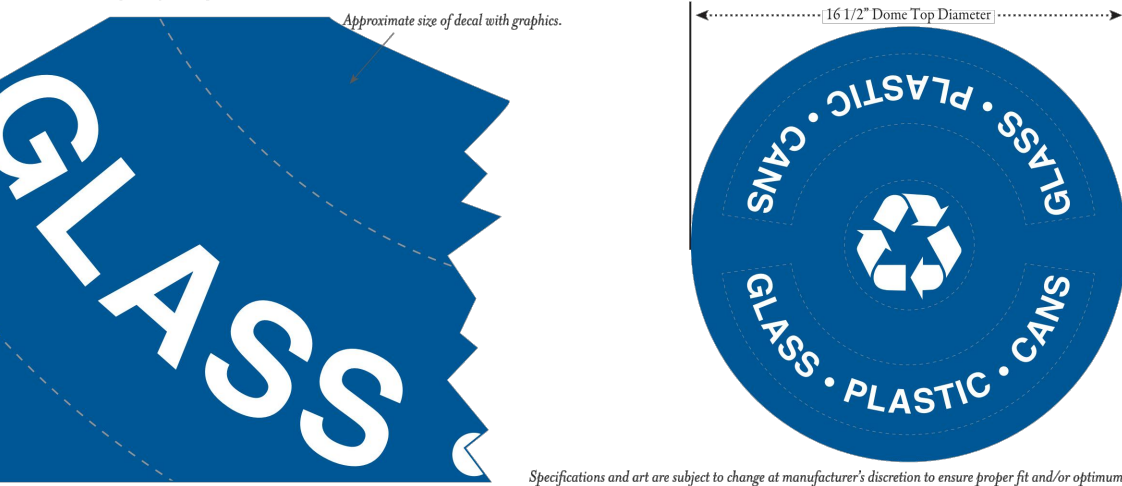
This option is available for the following VSI Products: SD-42, SDDC-42, S-42, S-42A, ES-142, ES-242



VICTOR  STANLEY®
Create a timeless moment.®

Drawn By: CL
Rev: 10/27/2016
Layout ID: RD

STANDARD 5-2: DOMESTIC LIP DEAD Application: The graphics will be digitally printed onto a premium sustainable vinyl sheet and applied to the lid. 18 1/2" x 24 1/2" (approx. 15-20°) Ocean Series Material: White Color: White Lead Time: 4-6 weeks		Customer Approval Date: _____
The below information is available for the following products: DIN-SD-56, DIN-SD-55, ES-142, ES-242, PC-12, NSDC-24, NSDC-36, NSDC-45, PSA-74, PSC-24, PSC-36, ES-12, KTC-0, RTN-42, DIN-SD-54, 2-45, 3-45, 4-2, 4-3, 4-4, 4-5, 4-6, 5-4, 5-6, TH-04		
The below information is available for the following products: DIN-SD-56, DIN-SD-55, ES-142, ES-242, PC-12, NSDC-24, NSDC-36, NSDC-45, PSA-74, PSC-24, PSC-36, ES-12, KTC-0, RTN-42, DIN-SD-54, 2-45, 3-45, 4-2, 4-3, 4-4, 4-5, 4-6, 5-4, 5-6, TH-04		
The below information is available for the following products: DIN-SD-56, DIN-SD-55, ES-142, ES-242, PC-12, NSDC-24, NSDC-36, NSDC-45, PSA-74, PSC-24, PSC-36, ES-12, KTC-0, RTN-42, DIN-SD-54, 2-45, 3-45, 4-2, 4-3, 4-4, 4-5, 4-6, 5-4, 5-6, TH-04		



A Drawer 330, Dunkirk, MD 20754 1.800.368.2578 (USA + Canada) TEL 301.855.8300 FAX 410.257.3579 sales@victorstanley.com VICTORSTANLEY

 **VICTOR STANLEY, INC.**[®]
-Manufacturers of Quality Site Furnishings since 1962-
1.800.368.2573 (USA & Canada)

P.O. Drawer 330, Dunkirk, Maryland, 20754 USA
301.855.8300 | Fax: 410.257.7579
sales@victorstanley.com
www.victorstanley.com

Drawn By: CLB
Rev: 01/27/2011
Layout ID: RB40

VSI Standard Trash Band Decal		Customer Approval
Graphics Application:	The graphics will be digitally printed onto a pressure sensitive vinyl decal and applied to the top steel band of the receptacle.	
Decal Size:	37 1/2" x 2 1/4" (2 decals per band)	
Decal Material Color:	Clear	Date: ____/____/____
Image Colors:	White	
<i>This option is available for the following VSI Products: SD-42, SDDC-42, S-42, S-424, ES-142, ES-242</i>		

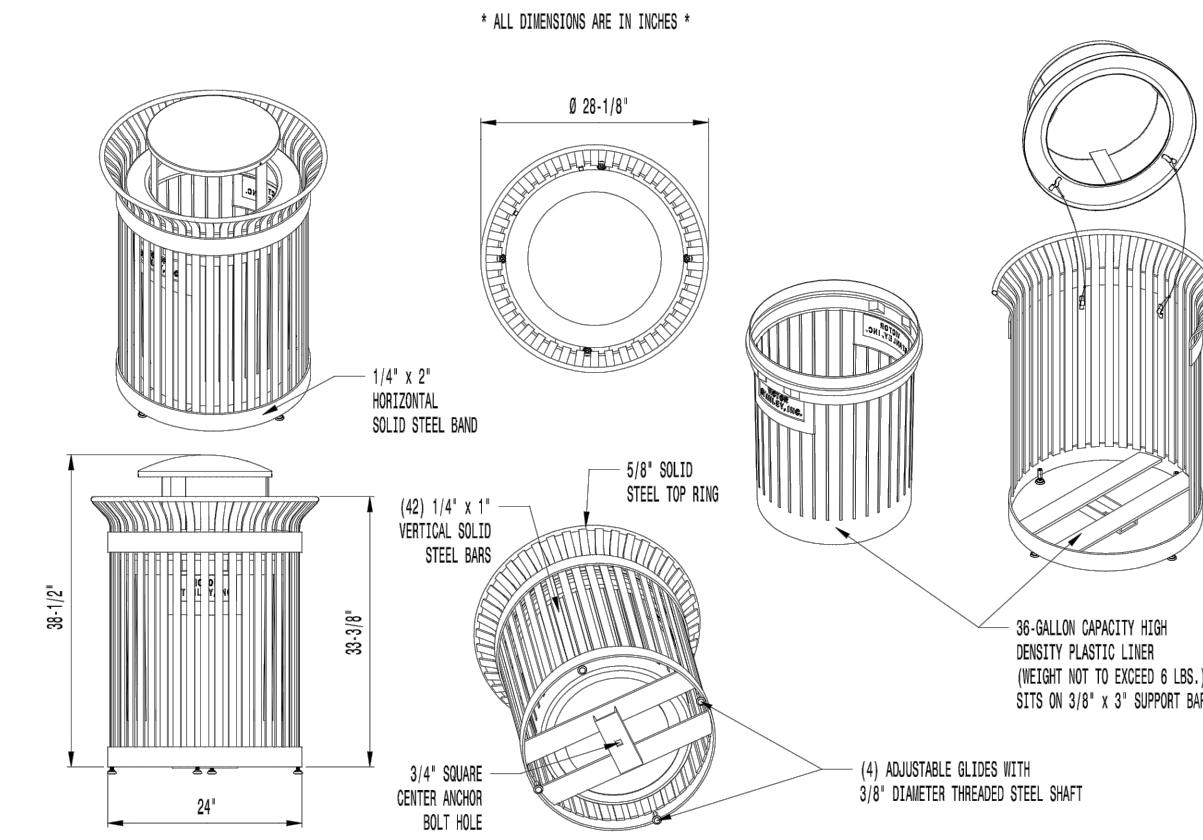
Diagram illustrating the layout of a 75" Steel Band Width. The band is divided into four sections, each labeled "Trash", separated by three sections labeled "3" 1/2" Dressed Width". The total width is 75".



RECYCLING/TRASH DECALS

VICTOR STANLEY, INC.®
Manufacturers of Quality Site Furnishings since 1962

P.O. DRAWER 330 • DUNKIRK, MD 20754 USA
TOLL FREE: (800) 368-2573 (USA & CANADA)
TEL (301) 855-8300 • FAX (410) 257-7579
WEB SITE: [HTTP://WWW.VICTORSTANLEY.COM](http://www.victorstanley.com)

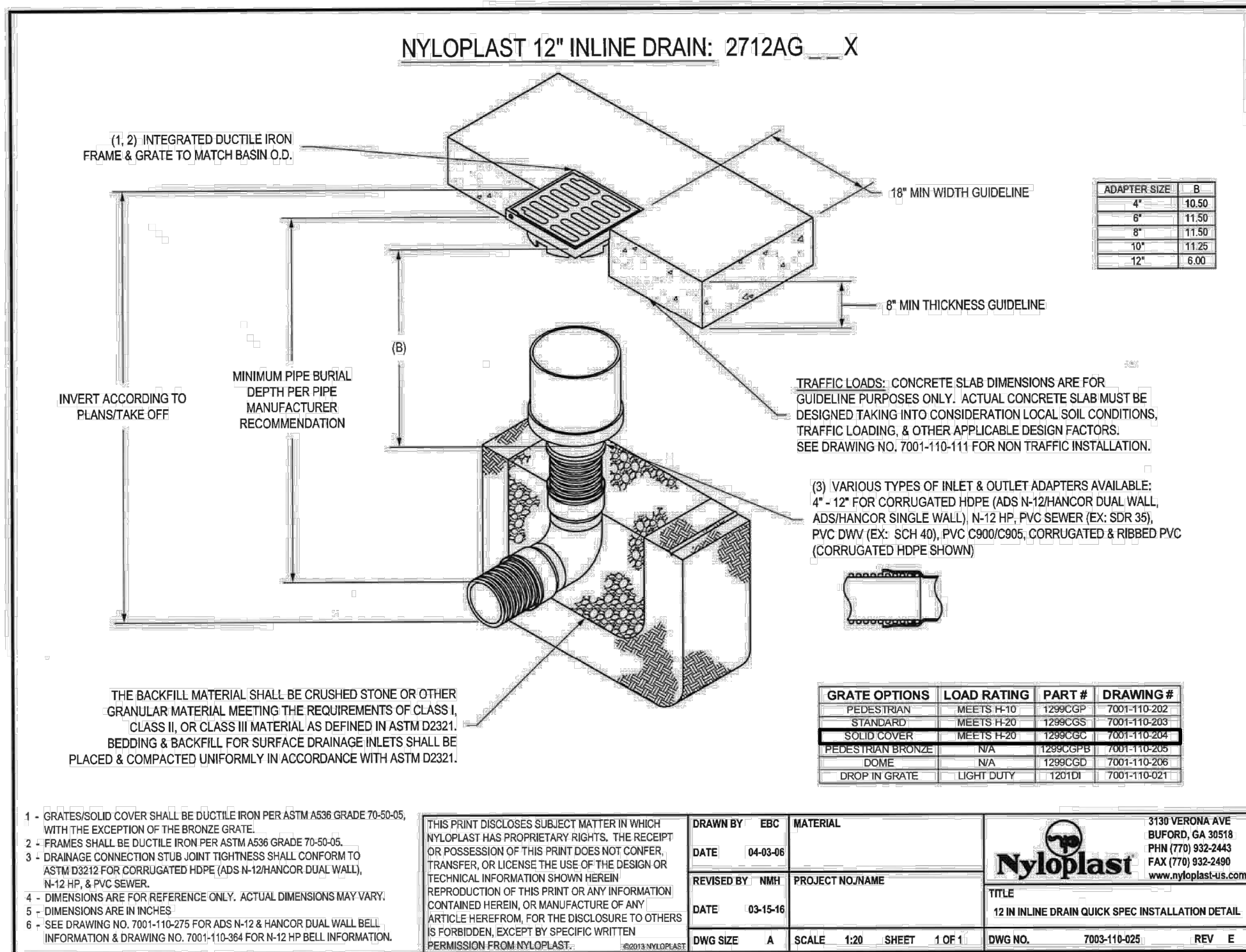


<p>AVAILABLE OPTIONS:</p> <p>POWDER COATING</p> <p>10 STANDARD COLORS, 2 OPTIONAL METALLIC COLORS, CUSTOM COLORS (INCLUDING THERAL ANGLE)</p> <p>CUSTOM PLAQUES & DECALS</p> <p>AVAILABLE WITH STEEL PLAQUES IN VARIOUS SIZES AND PRESSURE SENSITIVE VINYL OUTLINE DECALS.</p>	<p>LIDS</p> <p>STANDARD TAPERED FORMED LID. AVAILABLE WITH OPTIONAL DOME LID (AS SHOWN DOME LID WITH STAINLESS STEEL ASHTRAY, CONVEY LID, CONVEY LID WITH SELF-CLOSING DOOR, RAIN BOWNET LID, RAIN BOWNET LID WITH STAINLESS STEEL ASHTRAY, AND RECYCLE LIDS. ASHTRAYS AVAILABLE WITH OPTIONAL ASHTRAY COVER</p> <p>SECURITY</p>
--	--

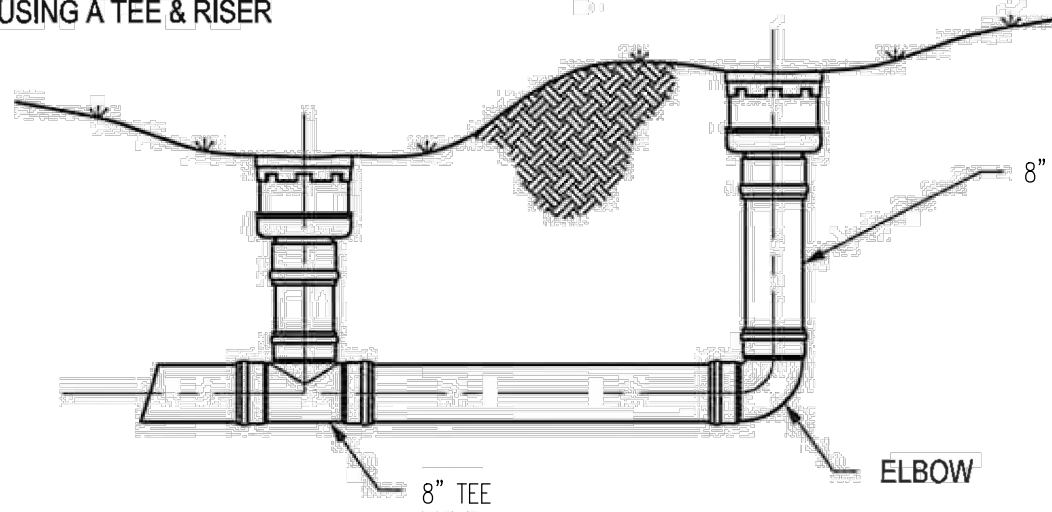
[illegible]

ES-142
ECONOMY SERIES
36-GALLON LITTER RECEPTACLE
SHOWN: OPTIONAL DOMED LID

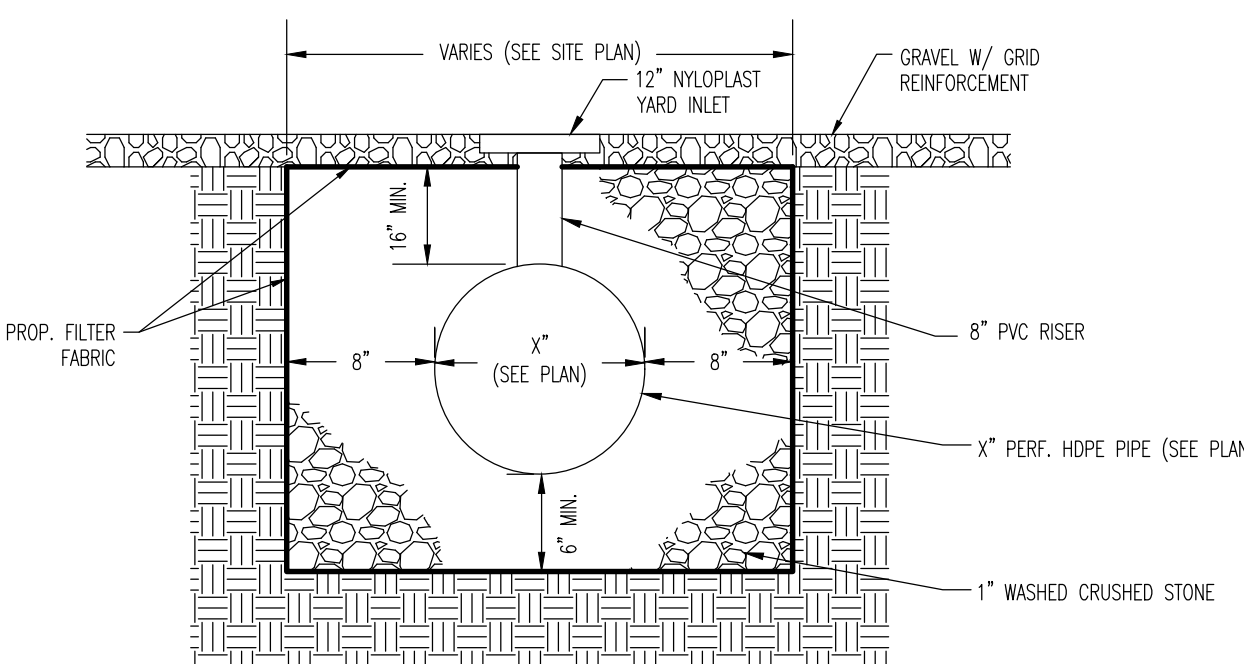
TRASH RECEPTACLE DETAIL





1: TO ENTER AN EXISTING LINE USING A TEE & RISER



2'x2' INLET DETAIL



 <div style="display: inline-block; text-align: right;"> DYNAMIC • ENGINEERING • EARTH • SURVEY • TRAFFIC </div>																					
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="text-align: center; font-weight: bold;">THIS PLAN SET IS FOR PERMITTING PURPOSES ONLY AND MAY NOT BE USED FOR CONSTRUCTION</p> </div> <div style="width: 50%;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">OWNER BR:</td> <td style="width: 20%;">DESIGN BR:</td> <td style="width: 20%;">R/C</td> <td style="width: 20%;">SDP</td> <td style="width: 20%;">R/R</td> <td style="width: 20%;">CHECK BR:</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table> </div> </div>										OWNER BR:	DESIGN BR:	R/C	SDP	R/R	CHECK BR:						
OWNER BR:	DESIGN BR:	R/C	SDP	R/R	CHECK BR:																
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="text-align: center; font-weight: bold;">PROJECT:</p> <p style="text-align: center;">1112 NORTH AVENUE, LLC PROPOSED MULTI-FAMILY BUILDING 1112-1118 NORTH AVENUE CITY OF PLAINFIELD, UNION COUNTY, NEW JERSEY</p> </div> <div style="width: 50%;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">REV.</td> <td style="width: 20%;">DATE</td> <td style="width: 60%;">COMMENTS</td> </tr> <tr> <td>1</td> <td>06/15/22</td> <td>REVISED PER CITY COMPLETENESS COMMENTS</td> </tr> </table> </div> </div>										REV.	DATE	COMMENTS	1	06/15/22	REVISED PER CITY COMPLETENESS COMMENTS						
REV.	DATE	COMMENTS																			
1	06/15/22	REVISED PER CITY COMPLETENESS COMMENTS																			
 <p style="font-weight: bold;">PROTECT YOURSELF</p> <p>ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE</p> <p>FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM</p>																					
<div style="background-color: black; color: white; padding: 5px;"> <h1 style="margin: 0;">DYNAMIC ENGINEERING</h1> </div> <p style="font-weight: bold; letter-spacing: 0.1em;">LAND DEVELOPMENT CONSULTING • PERMITTING GEOTECHNICAL • ENVIRONMENTAL TRAFFIC • SURVEY • PLANNING & ZONING</p> <p style="font-size: 1.2em; font-weight: bold;">245 Main Street, Suite 110 Chester, NJ 07930</p> <p style="font-weight: bold;">T: 908.879.9229 F: 908.879.0222</p> <p style="font-weight: bold;">Offices conveniently located at:</p> <div style="display: flex; justify-content: space-around; font-size: 0.8em;"> <div>Clark, New Jersey • T: 703.747.6175</div> <div>Clark, New Jersey • T: 908.879.9229</div> <div>Clark, New Jersey • T: 973.252.7200</div> <div>Trenton, New Jersey • T: 732.487.0000</div> <div>Newark, Pennsylvania • T: 201.435.1005</div> <div>Philadelphia, Pennsylvania • T: 610.524.4888</div> <div>Bethlehem, Pennsylvania • T: 610.524.4800</div> <div>Allen, Texas • T: 972.234.2100</div> <div>Indianapolis, Indiana • T: 317.389.6400</div> <div>Allen, Texas • T: 952.464.0404</div> <div>Dallas, Texas, Houston • T: 541.921.8870</div> </div> <p style="margin-top: 10px;">www.dynamiccc.com</p>																					
<h2 style="margin: 0;">BRETT W. SKAPINETZ</h2> <hr style="width: 50%; margin: 10px auto;"/> <p style="margin: 0;">PROFESSIONAL ENGINEER NEW JERSEY LICENSE NO. 41985</p>																					
<h2 style="margin: 0;">ROBERT J. COLUCCO III</h2> <hr style="width: 50%; margin: 10px auto;"/> <p style="margin: 0;">PROFESSIONAL ENGINEER NEW JERSEY LICENSE NO. 55851</p>																					
<h1 style="margin: 0;">CONSTRUCTION DETAILS</h1>																					
<table style="width: 100%;"> <tr> <td style="width: 50%;">SCALE: (H) AS SHOWN</td> <td style="width: 50%;">DATE: 05/12/2022</td> </tr> <tr> <td colspan="2">PROJECT NO: 0404--99--045</td> </tr> <tr> <td style="width: 50%;">SHEET NO: 12</td> <td style="width: 50%;">Rev. #: 1</td> </tr> </table>										SCALE: (H) AS SHOWN	DATE: 05/12/2022	PROJECT NO: 0404--99--045		SHEET NO: 12	Rev. #: 1						
SCALE: (H) AS SHOWN	DATE: 05/12/2022																				
PROJECT NO: 0404--99--045																					
SHEET NO: 12	Rev. #: 1																				

[illegible]

PROJECT: **1112 NORTH AVENUE, LLC**
PROPOSED MULTI-FAMILY BUILDING

**DYNAMIC
ENGINEERING**

**LAND DEVELOPMENT CONSULTING • PERMITTING
GEOTECHNICAL • ENVIRONMENTAL
TRAFFIC • SURVEY • PLANNING & ZONING**

**245 Main Street, Suite 110
Chester, NJ 07930**

T: 908.873.9229 | F: 908.873.0222

Offices conveniently located at:

- 5000 Corner New Jersey • 732.741.6116
- Greenwich, New Jersey • 908.873.9229
- Newark, New Jersey • 973.752.7220
- Trenton, New Jersey • 609.262.0000
- Philadelphia • 215.626.0000
- Princeton, Pennsylvania • 215.253.4988
- Philadelphia, Pennsylvania • 215.633.4848
- Allen, Texas • 972.242.0700
- Irving, Texas • 972.789.4640
- Little Rock • 501.643.7440

Delhi, Georgia, Houston, Texas • 714.611.8070

BRETT W. SKAPINETZ

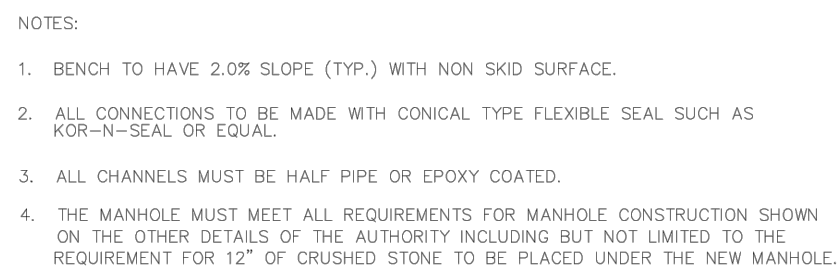
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 41985

ROBERT J. COLUCCO III

PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. 35954

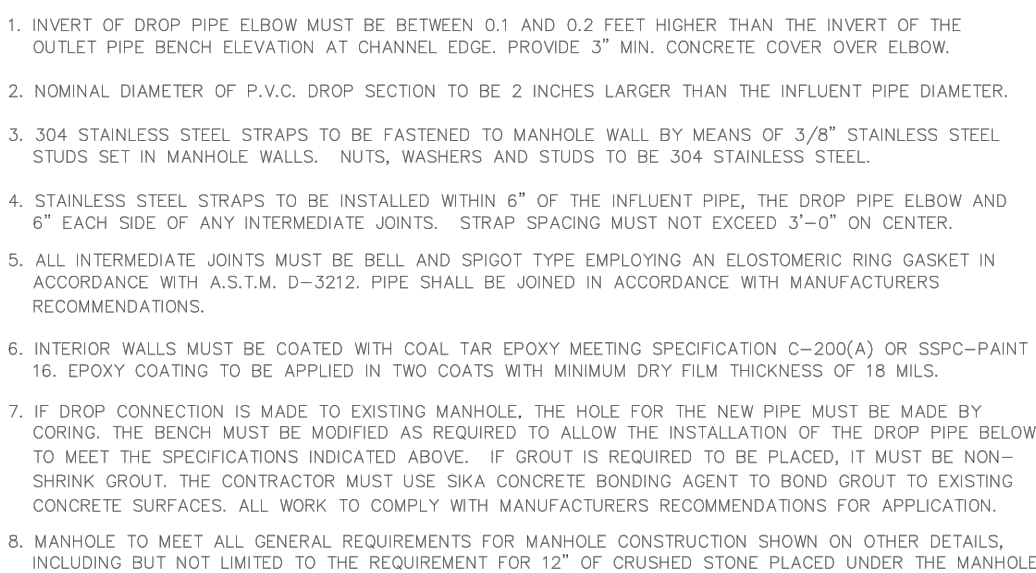
TITLE: PLAINFIELD MJA STANDARD
CONSTRUCTION DETAILS

SHEET No: 13	Rev. #: 1
---	--



-
- PROPOSED SEWER PIPE
- FLOW
- EXISTING SEWER PIPE
- FLOW
- PLAN
- 4" - 6" (TYPICAL)
- EXISTING SEWER PIPE
- PROPOSED SEWER PIPE
- MINIMUM 6" EMBEDMENT
- 6" MINIMUM
- MINIMUM 12" N.J.DOT CLASS B CONCRETE
- 12" THK. COMPACTED FOUNDATION MATERIAL N.J.D.O.T. NO. 57 STONE ON UNDISTURBED SOIL
- BARS @ 12" O.C.-E.W.
- MH BASE WIDTH + 12" MIN.
- SECTION

1. SEE PRECAST STANDARD MANHOLE DETAIL FOR TYPICAL INSTALLATION.
2. PRECAST MANHOLE SECTION TO BE IN ACCORDANCE WITH ASTM DESIGNATION C-478



The diagram illustrates two types of trench cross-sections: a typical sloped trench and a typical vertical trench. Both show a sloped surface and a flat base. The sloped trench has a 1:1 slope, while the vertical trench has a vertical wall. Labels indicate that edges should be cut straight with a saw, wheel, or jackhammer. A pipe zone is shown around the trench, and compaction requirements are specified for the backfill and bedding.

TYPICAL SLOPED TRENCH

TYPICAL VERTICAL TRENCH

Labels in the diagram include:

- SURFACE
- BASE
- EDGES SHALL BE CUT STRAIGHT WITH SAW WHEEL OR JACKHAMMER
- 1:1
- UNDISTURBED EARTH, TRENCH WALL (SEE NOTE NO. 1)
- PIPE ZONE
- 1'
- BACKFILL SOIL COMPACTION
- BEDDING AS REQUIRED, SOIL COMPACTION

- | | |
|-------------|--------------------|
| COMPACTION | SOIL (ASTM D2487) |
| AASHTO T180 | ALL "G" & "S" SOIL |
| AASHTO T99 | ML, CL, MH, CH |

H.T.S.



- NOTES:
- THERE SHALL BE A MINIMUM OF 30" OF BACKFILL OVER THE PIPE BEFORE HEAVY COMPACTION

EMBED CASTING, BRICK'S
ANNULAR AREA WITH WATER
PROOF MORTAR

8" 8" 3" MIN.

MANHOLE FRAME & COVER
(SEE DETAIL.)

ADJUST TO GRADE WITH
BRICK COURSES (3 COURSES
MAXIMUM)

VARIES

ALUMINUM
MANHOLE
STEP (TYP.)

ROUND RUBBER GASKET

3'-0"

30"

8"

12"

4'-0"

5"

6"

2"

2"

12"

12"

MIN.

CRUSHED STONE (CHOKED)
CONFORMING TO N.J.D.O.T.
#57 COARSE AGGREGATE

3,000 PSI CONCRETE

TWO COATS—18 MIL. TOTAL
TOTAL COAL TAR EPOXY C-200(a),
SSPO—PAINT 16 OR MACROPOXY
646 NSF FAST CURE EPOXY

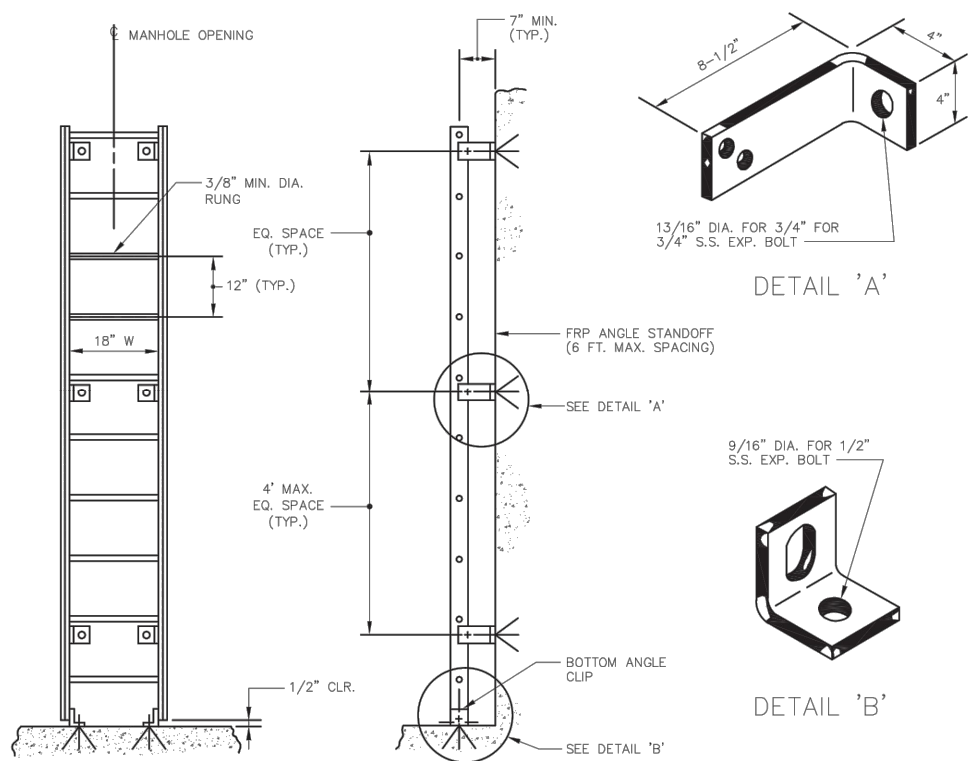
FLEXIBLE MANHOLE SLEEVE

EPOXY COAT BENCH &
CHANNEL (SIKAGARD 62
ACCEPTABLE) PLACE
NON-SKID SURFACE ON
BENCH ONLY

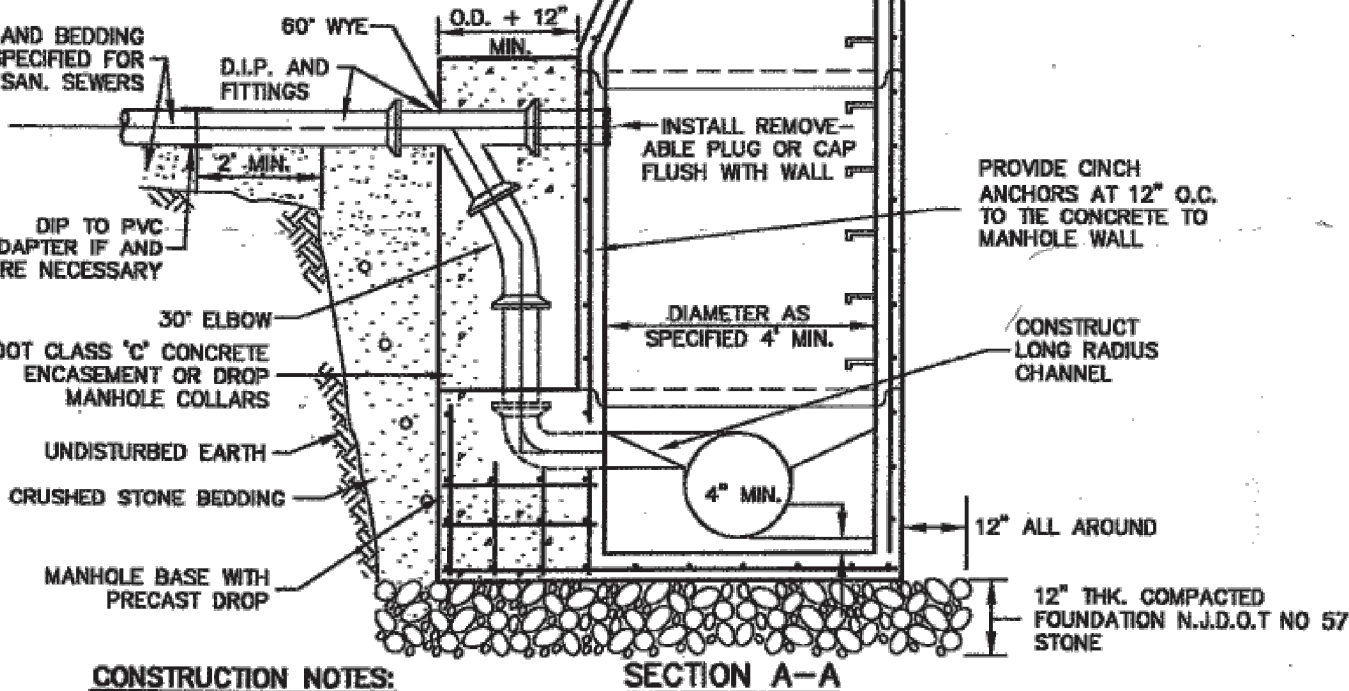
0.8" X PIPE I.D.

- NOTES:
1. SPILLER SURFACES TO BE COATED WITH TWO COATS, 18 MIL. TOTAL, COAL TAR EPOXY MEETING SPECIFICATION C-200(A) OR SSPC-Paint 16 IF RECEIVING DIRECT DISCHARGE FROM PUMP STATION OR DIFFERENCE IN INVERT ELEVATIONS EXCEEDS 12".
 2. RISER, CONES AND SLABS SHALL BE CONSTRUCTED IN ACCORDANCE WITH A.S.T.M. C-478.
 3. NON PENETRATING LIFTING HOLES SHALL BE PROVIDED IN ALL UNITS.
 4. ABSORPTION NOT TO EXCEED 8% IN ACCORDANCE WITH A.S.T.M. C-76.
 5. ALL JOINTS TO BE CONSTRUCTED IN ACCORDANCE WITH A.S.T.M. C-361.
 6. NO PRE-CAST BENCHES OR CHANNELS.
 7. CAN ONLY BE USED AT DEPTHS GREATER THAN 6.5' AS MEASURED FROM RIM TO INVERT.

NTS



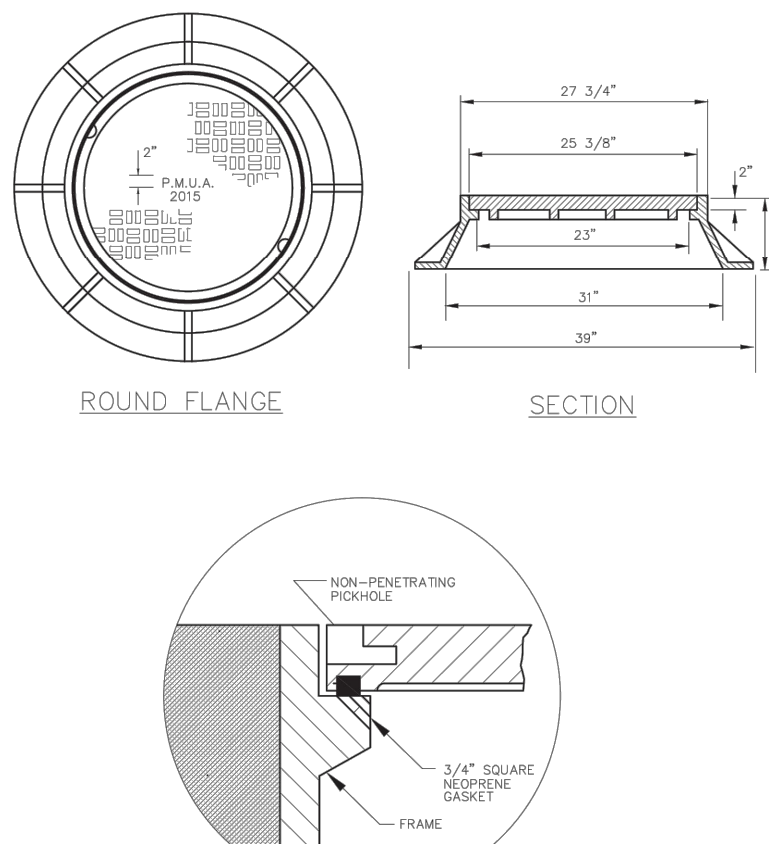
- NOTES:
1. LADDERS SHALL BE INSTALLED ON ALL MANHOLES WHERE THE DISTANCE FROM THE INVERT TO THE RIM EXCEEDS 15 FEET.
 2. LADDER SHALL BE FIBERGLASS.
 3. CLIPS, ANGLES, BOLTS, WASHERS AND ALL OTHER HARDWARE SHALL BE 304 STAINLESS STEEL.
 4. ALL MANHOLES EXCEEDING 25 FEET FROM INVERT TO RIM SHALL HAVE AT LEAST ONE INTERMEDIATE PLATFORM.



- CONSTRUCTION NOTES:**
- SECTION A-A**
1. DROP PIPE TO BE USED IN ALL CASES WHERE THE DIFFERENCE BETWEEN INLET AND OUTLET INVERT IS TWO (2) FEET OR GREATER.
 2. SIZE OF DROP PIPE SHALL BE THE SAME AS MAIN LINE SEWER UNLESS OTHERWISE SPECIFIED.
 3. CROWN OF SIDE CONNECTION SEWER SHALL BE AT THE SAME ELEVATION AS THE MAIN SEWER LINE CROWN.

FRAME AND COVER DETAIL

NTS



- NOTES:
1. FRAME AND COVER TO BE CAMPBELL FOUNDRY NO. 1202 B OR EQUAL.
 2. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL FRAMES AND COVERS TO BE "FLOW-SEAL" AS MANUFACTURED BY CAMPBELL FOUNDRY OR EQUAL.
 3. COVERS TO BE PROVIDED WITH NON-PENETRATING PICK HOLES.
 4. COVERS FOR MANHOLES TO BE OWNED BY AUTHORITY MUST HAVE "P.M.U.A." AND YEAR CAST INTO THE COVERS IN 2 INCH LETTERS.
 5. PMUA TYPE DISCHARGE CONTROL MANHOLES AND OTHER SANITARY SEWER MANHOLES THAT WILL NOT BE OWNED BY THE AUTHORITY, MUST HAVE THE WORDS "SEWER SEWER" AND YEAR CAST INTO THE COVERS IN 2 INCH LETTERS.

NTS