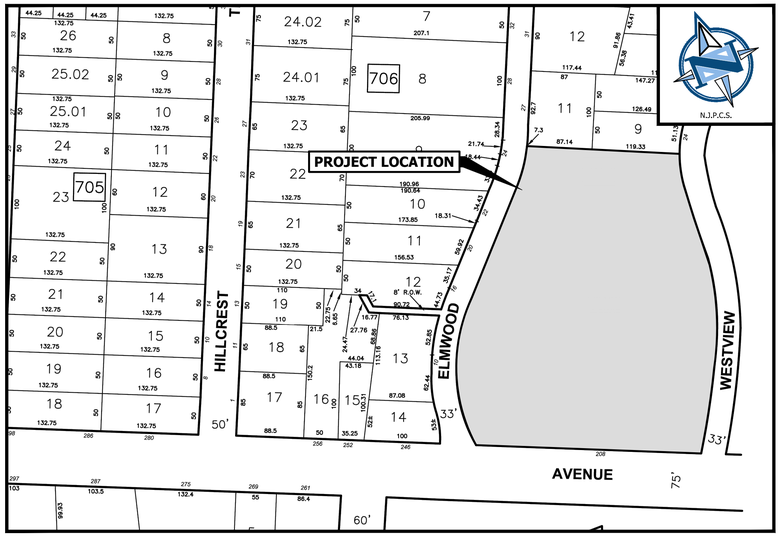
EVERETT PARK IMPROVEMENTS

208 BLOOMFIELD AVENUE
BLOCK 707 - LOT 10
TOWNSHIP OF VERONA
ESSEX COUNTY, NEW JERSEY
APRIL 11, 2025

ESTIMATE OF QUANTITIES

Item No.	Item Description	Unit of Measure	Quantity
1	Mobilization / Demobilization	L.S.	1
2	Site Clearing / Demolition	L.S.	1
3	Tree Removals, 6" - 15"	UNIT	15
4	Tree Removals 16" - 23"	UNIT	3
5	Tree Removals 24" or Greater	UNIT	2
6	Additional Tree Removals, 6" - 15" (If and Where Directed.)	UNIT	20
7	Additional Tree Removals 16" - 23" (If and Where Directed.)	UNIT	3
8	Additional Tree Removals 24" or Greater (If and Where Directed.)	UNIT	2
9	Removal of Invasive Vines and Dead Trees (If and Where Directed.)	L.S.	1
10	Tree Stump Removal	UNIT	5
11	Soil Erosion Measures	L.S.	1
12	Site Grading (Includes Cut & Fill and Soil Removal)	L.S.	1
13	Temporary Chain Link Construction Fence and Gates	L.F.	1300
14	4" Perforated PVC Pipe	L.F.	2820
15	8" Perforated HDPE Pipe	L.F.	190
16	12" HDPE Pipe	L.F.	530
17	15" HDPE Pipe	L.F.	240
18	15" Perforated HDPE Pipe	L.F.	115
19	24" RCP Pipe	L.F.	35
20	30" RCP Pipe	L.F.	10
21	36" Perforated HDPE Pipe	L.F.	470
22	2' x 2' Inlet, Complete	UNIT	9
23	Yard Drain (Buried), Complete	UNIT	6
24	Storm Manhole, 4' Dia., Complete	UNIT	8
25	New Type A, Inlet, Complete	UNIT	1
26	New Type B, Inlet, Complete	UNIT	3
27	New Type E, Inlet, Complete	UNIT	1
28	Reconstruct Existing Manhole for New 24" Connection	UNIT	1
29	Reconstruct Existing Inlet for New 30" Connection	UNIT	1
30	Outlet Control Structure	UNIT	1
31	6" PVC SDR-35 Sanitary Pipe	L.F.	335
32	Sanitary Sewer Manhole, 4' Dia.	UNIT	4
33	Sanitary Sewer Saddle Connection	L.S.	1
34	9" x 18" Concrete Vertical Curb	L.F.	830
35	Concrete Header Curb 12" x 18"	L.F.	200
36	Hot Mix Asphalt Surface Course, Mix 9.5M64, 2" Thick (Parking Lot Driveway)	TONS	15
37	Hot Mix Asphalt Base Course, Mix 19M64, 4" Thick (Parking Lot Driveway)	TONS	35
38	Dense-Graded Aggregate Base Course, 6" Thick (Parking Lot Driveway)	S.Y.	135
39	Decorative Pavers on 4" Thick Concrete Base	S.Y.	145
40	Concrete Sidewalk, 4" Thick	S.Y.	1,070
41	Concrete Sidewalk, 4" Thick (If and Where Directed.)	S.Y.	265
42	Concrete, Reinforced, 6" Thick	S.Y.	390
43	Open Graded Friction Course (OGFC), 4" Thick (Pervious Parking Lot)	S.Y.	1,800
44	Pervious Pavement Choker Course, 1" Thick (Pervious Parking Lot)	S.Y.	1,800
45	Clean Washed and Open Graded ASSHTO No. 2 Broken Stone, 14 " Thick (Pervious Parking	S.Y.	1,800
46	Geotextile Fabric (Pervious Parking Lot)	S.Y.	1,800
47	Parking Lot Striping	L.S.	1
48	Retaining Wall (Height Varies 1' - 11' Max)	S.F.F.	6,000
49	Natural Grass Field (per Cross Section)	S.Y.	5,750
50	Topsoil and Sod for Slopes and Disturbed Areas	S.Y.	2,900
51	Clay Infield/On Deck Skin Areas Complete (per Cross Section)	S.Y.	835
52	Sports Field Irrigation System Complete	L.S.	1
53	Furnish and Install Portable Pitching Mound, Little League, 6" High	UNIT	1
54	Furnish and Install Portable Bases, Complete with Covers (Set of 3)	UNIT	1
55	Furnish and Install Portable Homeplate, Complete with Covers	UNIT	3
56	Furnish and Install Pitchers Rubber, Complete with Covers	UNIT	3
57	Furnish and Install Fall Protection Fence, 4' High	L.F.	800
58	Furnish and Install Benches	UNIT	6
59	Black Vinyl Coated Chain Link Fence, 8' High	L.F.	1,050
60	Sports Netting, 20' Overall Height	L.F.	160
61	Black Vinyl Coated Chain Link Fence Gate, Single Swing, 8' High, 4' Wide	UNIT	10
62	Black Vinyl Coated Chain Link Fence Gate, Double Swing, 8' High, 12' Wide	UNIT	1
63	Playground, Black Vinyl Coated Chain Link Fence, 4' High	L.F.	200
64	Playground, Black Vinyl Coated Chain Link Fence Gate, 4' High, 4' Wide	UNIT	1
65	Furnish and Install Timber Guiderail	L.F.	310
66	Furnish and Install NJDOT Beam Guiderail	L.F.	15
67	Furnish and Install Backstop	UNIT	1
68	Furnish and Install Dugout Structure, 30' x 10'	UNIT	2
69	Furnish and Install 60' x 15' Batting Cage, Complete	UNIT	2
70	Furnish and Install Poured-in-Place Safety Surface, Complete	S.F.	4,600
71	Furnish and Install Playground Equipment, Complete (Inclusive Jake's Law)	L.S.	1
72	Furnish and Install ADA Accessible Bleachers, 27' Long, 5 Rows, Complete	UNIT	2
73	Furnish and Install Bleachers, 21' Long, 3 Rows, Complete	UNIT	2
74	Furnish and Install Player Benches - 27; with Backrest	UNIT	2
75	Furnish and Install Picnic Tables	UNIT	2
76	Furnish and Install Foul Poles	UNIT	2
77	Furnish and Install Decorative Park Signage with Landscaping, Complete	UNIT	1
78	Furnish and Install Detectable Warning Surface	S.Y.	6
79	Furnish and Install Site Signage with Post	UNIT	5
80	Furnish and Install Trash and Recycle Receptacles	UNIT	8
81	Final Cleanup / Site Restoration	L.S.	1
82	New 25' High Flagpole with Flag Lighting and Landscaping, Complete	L.S.	1
83	Foundation and Slab for Concession Building	L.S.	1
84	1 - 1/2" Copper Water Service, Complete with Backflow Preventer, Valves, and Meter Setup, and Wet-Tap Connection to Existing Water Main	L.S.	1
85	New Electrical Service for Concession Stand, Sports Lighting, Scoreboard, Flag Lighting, and Site Lighting, Complete (includes Conduit, Pull Boxes, Wiring, Controls, and Timers)	L.S.	1
86	Decorative LED Site Lighting Set Up (includes fixture, GFI outlets in Pole, Pole Foundations, Bolt Patterns), Complete	UNIT	1
86	Empty Conduit for Future Fiber Connection to Park	L.S.	1
87	Acer Rubrum 'October Glory' (October Glory Red Maple) (3"-3 1/2" Cal. B&B)	UNIT	8
88	Fagus Grandifolia (American Beech) (3"-3 1/2" Cal. B&B)	UNIT	5
89	Liriodendron Tulipfera (Tuliptree) (3"-3 1/2" Cal. B&B)	UNIT	10
90	Nyssa Sylvatica (Black Gum) (3"-3 1/2" Cal. B&B)	UNIT	4
91	Quercus Bicolor (Swamp White Oak) (2 1/2"-3" Cal. B&B)	UNIT	4
92	Quercus Phellos (Willow Oak) (3"-3 1/2" Cal. B&B)	UNIT	7
93	Cornus Florida (White Dogwood) (7'-8' Ht., B&B)	UNIT	6
94	Ostrya Virginiana (Hophornbeam) (3 Gal. Container)	UNIT	12
95	Ceanothus Americanus (New Jersey Tea) (3 Gal. Container)	UNIT	3
96	Juniperus Confeerta (Shore Juniper) (3 Gal. Container)	UNIT	13
97	Carex Vulpinoidea (Fox Sedge) (3 Gal. Container)	UNIT	11
98	Contract Allowance for Additional Shade Trees with Water Bags	ALLOW	1
99	Contract Allowance for Supplying and Installing Engraved Fundraising Pavers	ALLOW	1
100	Sports Lighting Light Structure Retrofit Complete System Upgrade (25 Year Warranty)	L.S.	1



KEY MAP (N.T.S.)
SOURCE: REF. TAX MAPS

UTILITY CONTACTS

SERVICE	COMPANY	ADDRESS
GAS	PSE&G	214 HUDSON STREET HACKENSACK, NJ 07601
ELECTRIC	PSE&G	214 HUDSON STREET HACKENSACK, NJ 07601
WATER	TOWNSHIP OF VERONA WATER DEPARTMENT	10 COMMERCE COURT, VERONA, NJ 07044
SEWER	TOWNSHIP OF VERONA SEWER DEPARTMENT	10 COMMERCE COURT, VERONA, NJ 07044

SHEET INDEX

DRAWING NO.	DRAWING TITLE
1.00	COVER SHEET
1.01	GENERAL NOTES AND LEGEND
2.00	DEMOLITON PLAN
3.00	SITE PLAN
3.01	DIMENSIONAL CONTROL PLAN
4.00	GRADING PLAN
5.00	DRAINAGE PLAN
6.00	UTILITY PLAN
7.00	LANDSCAPE PLAN
8.00	LIGHTING PLAN
9.00	SESC PLAN
9.01	SESC DETAILS
10.00	CONSTRUCTION DETAILS I
10.01	CONSTRUCTION DETAILS II
10.02	CONSTRUCTION DETAILS III
10.03	CONSTRUCTION DETAILS IV
10.04	CONSTRUCTION DETAILS V
10.05	CONSTRUCTION DETAILS VI
10.06	CONSTRUCTION DETAILS VII
10.07	CONSTRUCTION DETAILS VIII
1 OF 1	TOPOGRAPHIC SURVEY
E001, E100, E101	ELECTRICAL PLANS, NOTES, AND DETAILS
M001, M100, M200	MECHANICAL PLANS, NOTES, AND DETAILS
P001, P100	PLUMBING PLANS, NOTES, AND DETAILS
S0.00, S1.00, S3.00, S4.00	STRUCTURAL DETAILS

MAYOR
CHRISTOPHER TAMBURRO

COUNCIL
JACK MCEVOY, DEPUTY MAYOR
ALEX ROMAN
CHRISTINE MCGRATH
CYNTHIA HOLLAND

MUNICIPAL CLERK
JENNIFER KIERNAN, RMC

TOWNSHIP MANAGER
KEVIN O'SULLIVAN

New Jersey ONE CALL
1-800-272-1000
CONFIRMATION NUMBER

NEGLIA GROUP
EXPERIENCED RESPONSIVE DEDICATED

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REVISION | DRAWN | DESIGNED | CHECKED
NO. | DATE

FINAL

A PRODUCT OF
NEGLIA GROUP

EVERETT PARK IMPROVEMENTS

BLOCK 707 - LOT 10
TOWNSHIP OF VERONA
COUNTY OF ESSEX
STATE OF NEW JERSEY

ANTHONY KURUS, PE, PP
PROFESSIONAL ENGINEER
N.J. LICENSE NO. 24GE04644500
PROFESSIONAL PLANNER
N.J. LICENSE NO. 33LI00614500

MATEO F. LUZURIAGA, PE
PROFESSIONAL ENGINEER
N.J. LICENSE NO. 24GE06029800

COVER SHEET

DRAWN BY: M.F.L.	SCALE: N.T.S.
DESIGNED BY: M.F.L.	CHECKED BY: A.K.
PROJECT NO.: VEROMUN24.010	1.00
DATE: NOVEMBER 2024	

CERTIFICATE OF AUTHORIZATION (N.J.S.A. 45:8-56) 24GA27927000

GENERAL NOTES

A. LEGAL

A1. THE MOST CURRENT EDITIONS OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, STANDARD INPUTS, AND STANDARD DETAILS, AS PUBLISHED BY THE NEW JERSEY DEPARTMENT OF TRANSPORTATION (NJDOT), THE PLANS, TECHNICAL SPECIFICATIONS, ADVERTISEMENT, CONTRACTOR'S PROPOSAL AND INCLUDING BUT NOT LIMITED TO THE AMENDMENTS CONTAINED HEREINAFTER SHALL COMPRISE THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL READ AND UNDERSTAND THE PROJECT SPECIFICATIONS PRIOR TO CONSTRUCTION. THE MUNICIPALITY IS UNDER THE JURISDICTION OF THE STATE CENTRAL LAW AND THE GOVERNMENT.

A2. THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS PRIOR TO SUBMITTING THEIR BID. ANY DISCREPANCIES BETWEEN THESE PLANS AND THE ACTUAL CONDITIONS AT THE SITE SHALL BE IMMEDIATELY REPORTED TO THE PROFESSIONAL ENGINEER.

A3. THE CONTRACTOR SHALL COMPLY WITH ALL LAWS, ORDINANCES, RULES, ORDERS AND REGULATIONS RELATING TO THE PERFORMANCE OF THE WORK, THE PROTECTION OF ADJACENT PROPERTY AND THE MAINTENANCE OF PASSAGEWAYS.

A4. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE SAFETY REQUIREMENTS AS OUTLINED IN THE GENERAL CONDITIONS OF THE CONSTRUCTION SPECIFICATIONS. NEITHER THE ENGINEER NOR THE OWNER SHALL BE HELD RESPONSIBILITY AND/OR LIABLE FOR THE SAFETY OF THE WORK SITE. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A SAFE WORK SITE AT ALL TIMES.

A5. THE CONTRACTOR IS RESPONSIBLE TO OBEY ALL THE SAFETY AND HEALTH REGULATIONS. THE OWNER ASSUMES NO RESPONSIBILITY FOR THE HEALTH AND SAFETY OF THE WORK PERFORMED.

B. SITE CLEARING AND CONSTRUCTION

B1. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED LOCAL, COUNTY, STATE, FEDERAL OPENING PERMITS AND SHALL BARE THE COST OF ALL ACCOMPANYING FEES. ALL PERMITS MUST BE SECURED PRIOR TO THE COMMENCEMENT OF WORK.

B2. WHENEVER A QUESTION ARISES REGARDING THE SPECIFICATIONS OR DRAWINGS OR ANY SUPPLEMENTARY DRAWINGS OR INSTRUCTIONS OF THE ENGINEER, SAME SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER RESPONSIBLE FOR THE DESIGN.

B3. ONE COPY OF THE APPROVED CONSTRUCTION PLANS AND SPECIFICATIONS FURNISHED TO THE CONTRACTOR MUST BE KEPT ON THE PROJECT SITE. ALL WORK AND MATERIALS NECESSARY FOR THE COMPLETION OF THE WORK ACCORDING TO THE INTENT AND MEANING OF THE CONTRACT DOCUMENTS, SHALL BE FURNISHED, PERFORMED AND DONE IN ACCORDANCE WITH THE SPECIFICATIONS AND PLANS. ANY CONFLICT OR INCONSISTENCY BETWEEN THE PLANS AND SPECIFICATIONS, OR ANY DISCREPANCY BETWEEN THE FIGURES AND SCALE OF DRAWINGS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER, WHOSE DECISION THEREON SHALL BE FINAL. THE DECISION OF THE ENGINEER AS TO WHICH SPECIFICATION WILL GOVERN WILL BE FINAL.

B4. THE CONTRACTOR IS RESPONSIBLE TO CONSTRUCT THE PROJECT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. ALL PROPOSED FIELD CHANGES MUST BE APPROVED IN WRITING BY THE PROFESSIONAL ENGINEER RESPONSIBLE FOR THE DESIGN (PROJECT MANAGER, PE) PRIOR TO THE CONSTRUCTION OF ANY FIELD CHANGES.

B5. ALL INFORMATION SHOWN OR NOTED FOR EXISTING FACILITIES, GRADES, ROADWAYS AND MATERIALS IS APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL INFORMATION WHICH MAY AFFECT THEIR WORK.

B6. ALL DISTURBED SHRUBS, FENCING, WALKWAYS, SIGNS, MAILBOXES, DRIVEWAYS, ETC., SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND TO THE SATISFACTION OF THE ENGINEER AND/OR THE OWNER. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS RESTORATION WORK UNLESS SAME IS CLEARLY SPECIFIED ELSEWHERE IN THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL TAKE PRUDENT MEASURES TO PROTECT ALL EXISTING PROPERTY EVIDENCE (MONUMENTS, IRON PIPE, PINS, ETC.) DURING CONSTRUCTION.

B7. ALL PROPERTY CORNERS OR MONUMENTS REMOVED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY A NJ LICENSED LAND SURVEYOR AT NO ADDITIONAL COST TO THE OWNER.

B8. RECONSTRUCTED CURB SHALL BE INSTALLED TO MATCH EXISTING CURB ELEVATIONS AND ALIGNMENT UNLESS OTHERWISE SPECIFIED ON GRADING PLANS, PROFILES OR CROSS SECTIONS. SEPARATE PAYMENT WILL NOT BE MADE FOR REMOVAL OF EXISTING CURB IN RECONSTRUCTED AREAS. PAYMENT FOR THE REMOVAL OF EXISTING CURB SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE CORRESPONDING CURB LINE ITEM.

B9. THE CONTRACTOR SHALL SAWCUT AND REPAIR THE PAVEMENT ADJACENT TO NEWLY CONSTRUCTED CURB PRIOR TO PROCEEDING ON TO SUBSEQUENT STAGES OF WORK. CURB TRENCHES WILL NOT BE LEFT OPEN OVERNIGHT IN AREAS WHERE THE ROADWAY IS TO BE OPENED TO TRAFFIC. NO SEPARATE PAYMENT WILL BE GIVEN FOR SUCH SAID SAWCUTTING AND RESTORATION, THE COST OF WHICH SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE CORRESPONDING CURB LINE ITEM.

B10. ALL ASPHALT MATERIAL REMOVED FROM THE PROJECT MUST BE TRANSPORTED TO AN APPROVED RECYCLING CENTER AND THE TONNAGE CERTIFIED TO THE OWNER. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK BUT SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE PROPOSAL.

B11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL EXCESS MATERIALS EXCAVATED, WHATEVER NATURE, AT THEIR OWN EXPENSE. THE OWNER IS NOT OBLIGATED TO SUPPLY A DISPOSAL SITE. THE CONTRACTOR MUST NOT DEPOSIT THE EXCESS MATERIALS WITHIN THE MUNICIPAL LIMITS WITHOUT EXPRESS PERMISSION OF THE PROFESSIONAL ENGINEER. EXCAVATED MATERIAL MAY NOT BE STORED ON SITE AND SHALL BE REMOVED AT THE END OF EACH DAY.

B12. ALL EXCAVATED MATERIALS ARE TO BE DISPOSED OF IN ACCORDANCE WITH APPROVED NJDOT/NJDEP METHODS AND MEANS, OR TRANSPORTED AT THE DIRECTION OF THE OWNER.

B13. ALL DISTURBED AREAS OUTSIDE THE PROJECT LIMITS OR NOT INTENDED TO BE INCLUDED IN THIS PROJECT, SHALL BE RESTORED TO THEIR ORIGINAL CONDITION, AND TO THE SATISFACTION OF THE OWNER. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS RESTORATION, UNLESS SPECIFIED ELSEWHERE.

B14. THE CONTRACTOR MUST PROVIDE A SMOOTH SAWCUT EDGE IN ALL CASES WHERE PROPOSED PAVEMENT OF WHATEVER NATURE, CONCRETE CURBS OR CONCRETE SIDEWALKS ABUT EXISTING PAVEMENTS, CURBS OR SIDEWALKS. NO SEPARATE PAYMENT WILL BE MADE FOR SAWCUTTING. THE COST SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE PROPOSAL.

B15. THE CONTRACTOR MAY DISCOVER THAT EXISTING ROADWAY MAY CONTAIN EXISTING CONCRETE BASE OR COBBLE STONE AND SHALL MAKE ALL NECESSARY REQUIREMENTS FOR ITS REMOVAL WHERE REQUIRED. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE COST OF EXCAVATION, UNCLASSIFIED (IF AND WHERE DIRECTED)

B16. THE REPLACEMENT OF ANY SIDEWALK WITHIN THE PROJECT AREA MAY REQUIRE THAT SIDEWALK SLABS BE SAWCUT FROM THE SURROUNDING CONCRETE WALK. NO SPECIFIC PAYMENT FOR SAW CUTTING WILL BE MADE AND THEREFORE SHALL BE INCLUDED UNDER PRICES BID FOR CONCRETE SIDEWALK ITEMS IN THE PROPOSAL.

B17. AS PART OF THIS CONTRACT, THE CONTRACTOR IS REQUIRED TO PREPARE THE EXISTING PAVEMENT AND SEAL ALL CRACKS AND JOINTS PER SECTION 404 OF THE NJDOT SPECIFICATIONS PRIOR TO RESURFACING. THIS WORK SHALL INCLUDE, BUT IS NOT LIMITED TO, ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO CLEAN CRACKS PRIOR TO THE INSTALLATION OF SURFACE COURSE AND APPLY A SEALANT AS OUTLINED IN THE NJDOT SPECIFICATION. PRIOR TO COMMENCEMENT, THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE PROFESSIONAL ENGINEER AS TO THE INTENDED METHODS AND MATERIALS THAT WILL BE USED FOR THIS PROJECT. THIS ITEM SHALL NOT BE MEASURED FOR PAYMENT, BUT THE COST THEREOF SHALL BE INCLUDED IN THE UNIT PRICE BIDS FOR THE CORRESPONDING HOT MIX ASPHALT SURFACE COURSE LINE ITEM.

B18. NO CONSTRUCTION, MAINTENANCE OR UTILITY WORK ON, UNDER OR ABOVE THE PROJECT ROAD THAT WILL OBSTRUCT, INTERFERE WITH AND/OR DETOUR TRAFFIC ON THE ROAD, SHALL BE PERFORMED BEFORE THE HOUR OF 9:00 AM OR AFTER 4:00 PM. THE CONTRACTOR'S WORK HOURS SHALL CONFORM TO LOCAL ORDINANCE REQUIREMENTS.

B. SITE CLEARING AND CONSTRUCTION (CONT.)

B19. ALL TRENCHES IN THE EXISTING PAVEMENT SHALL BE SAW CUT. NO SEPARATE PAYMENT WILL BE MADE FOR SAW CUTTING AND THE COST THEREOF SHALL BE INCLUDED UNDER PRICES BID FOR VARIOUS ITEMS IN THE PROPOSAL.

B20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATION AND MAINTENANCE OF ALL ACCESS DRIVEWAYS AT ALL TIMES DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.

B21. ALL SEDIMENT AND SOIL EROSION CONTROL PRACTICES ARE TO BE INSTALLED IN CONFORMANCE WITH SOIL CONSERVATION DISTRICT STANDARDS PRIOR TO ANY MAJOR SOIL DISTURBANCES. ALL WORK SHALL BE COMPLETED IN PROPER SEQUENCE AND ALL EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.

B22. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES AT ALL TIMES DURING CONSTRUCTION.

B23. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO MAINTAIN DUST CONTROL AS REQUIRED OR DIRECTED BY THE PROFESSIONAL ENGINEER. ALL VEHICLES SHALL BE CLEAN AND ALL ROADWAYS SHALL BE MAINTAINED AS DIRECTED BY THE PROFESSIONAL ENGINEER.

B24. CONTRACTOR SHALL KEEP THE SITE CLEAN AT ALL TIMES AND SWEEP THE STREET AT THE END OF EACH WORK DAY.

B25. ALL MATERIAL ENCOUNTERED WITHIN THE WORK ZONE AREA THAT MUST BE REMOVED TO CONSTRUCT THE PROJECT AS DIRECTED BY THE ENGINEER, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CLEARING SITE. THIS IS INCLUSIVE OF BUT NOT LIMITED TO THE REMOVAL OF ALL CURBED EDGING AND CONCRETE GUTTER.

B26. ALL TREES ARE TO BE SAVED AND PROTECTED FROM HARM DURING CONSTRUCTION WITH THE EXCEPTION OF THE TREES MARKED WITH AN X ON THE CONSTRUCTION PLANS. IF ANY TREES ARE DAMAGED DURING CONSTRUCTION, THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT AS DETERMINED BY THE MUNICIPALITY.

B27. ALL TREES TO BE REMOVED SHALL BE MARKED WITH A REMOVABLE TIED RIBBON BY THE CONTRACTOR AND SHALL BE APPROVED BY THE OWNER PRIOR TO ANY TREE REMOVALS. NO PERMANENT PAINT SHALL BE SPRAYED ON THE EXISTING TREES. EACH TREE THAT HAS BEEN APPROVED FOR REMOVAL, SHALL BE COMPLETELY REMOVED, EXCEPT IN CASES WHERE THE TREE STUMP CANNOT BE REMOVED. THE CONTRACTOR SHALL GRIND THE STUMPS THAT COULD NOT BE REMOVED SO THAT THE STUMP IS TWELVE (12) INCHES BELOW THE EXISTING GROUND SURFACE.

B28. THE CONTRACTOR SHALL INSTALL PROTECTIVE BLOCKING, BRACING OR SHEETING TO SUPPORT ANY EXPOSED GAS, WATER, SANITARY, TELECOMMUNICATIONS, OR ELECTRIC UTILITIES IN ACCORDANCE WITH THE RESPECTIVE UTILITY COMPANY'S REGULATIONS.

B29. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAPERING PROPOSED WORK TO MEET EXISTING CONDITIONS IN A UNIFORM MANNER.

C. UTILITY PERMITS

C1. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL HAVE ALL UNDERGROUND UTILITIES LOCATED AND PHYSICALLY MARKED OUT WITHIN THE LIMITS OF THE PROJECT (CALL 1-800-272-1000). THE CONTRACTOR SHALL PROVIDE TEST HOLES IN AREAS OF POSSIBLE CONFLICT TO VERIFY THE DEPTH AND LOCATION OF THE UTILITY. NO SEPARATE PAYMENT SHALL BE MADE FOR DELAYS THAT MAY BE NECESSARY TO RELOCATE UTILITIES OR THE PROPOSED LOCATION OF UNDERGROUND UTILITIES. NO SEPARATE PAYMENT WILL BE MADE FOR TEST PITS BUT THE COST SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE PROPOSAL.

C2. LOCATION AND DEPTH OF EXISTING UTILITIES ARE ONLY INDICATED TO BRING ATTENTION TO POSSIBLE CONFLICTS. ANY DAMAGE TO UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND ALL COSTS FOR REPAIRS SHALL BE BORNE BY THE CONTRACTOR.

C3. ANY DAMAGE TO UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND ALL COSTS FOR REPAIR SHALL BE BORNE BY THE CONTRACTOR. ALL DISTURBED OR DAMAGED WALKWAYS, SIGNS, CURBING, TREES, HYDRANTS, UTILITIES, PAVED SURFACES, DRIVEWAYS, BUILDING FACADES, ETC. SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER. NO SEPARATE PAYMENT WILL BE MADE FOR THIS RESTORATION UNLESS SPECIFIED ELSEWHERE IN THE CONTRACT.

C4. THE LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXACT LOCATIONS OF THE UTILITIES PRIOR TO THE START OF CONSTRUCTION.

C5. ALL GAS AND WATER VALVES AND VARIOUS MANHOLES TO REMAIN SHALL BE RESET TO FINISH GRADE.

C6. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE PUBLIC UTILITY COMPANIES. ELECTRIC, TELEPHONE, GAS & CABLE UTILITY MANHOLE CASTINGS AND VALVE BOX COVERS SHALL BE RESET BY THE RESPECTIVE UTILITY COMPANIES.

C7. PRIVATE UTILITY COMPANIES MUST BE CONTACTED BY THE CONTRACTOR SO THAT PRIVATELY OWNED CASTINGS WILL BE RESET AS REQUIRED.

C8. WATER SERVICE VALVE BOXES, GAS SERVICE VALVE BOXES, JUNCTION BOXES, ELECTRIC BOXES, BASEMENT VAULT DOORS AND ALL OTHER APPURTENANCES LOCATED IN THE SIDEWALK AREA SHALL BE RESET TO THE NEW SIDEWALK ELEVATION. THE COST FOR RESETTING ANY AND ALL OF THESE CASTINGS SHALL NOT BE PAID SEPARATELY BUT SHALL BE INCLUDED IN THE VARIOUS CONCRETE SIDEWALK LINE ITEMS IN THE PROPOSAL.

C9. THE CONTRACTOR IS RESPONSIBLE FOR ACCURATELY LOCATING EXISTING TRAFFIC SIGNAL LOOP DETECTOR AND LEADS. THE CONTRACTOR WILL ONLY BE COMPENSATED FOR THE REPLACEMENT OF LOOP DETECTORS AND LEADS WHICH HAVE BEEN REMOVED AT THE DIRECTION OF THE PROFESSIONAL ENGINEER. THE CONTRACTOR SHALL NOT REMOVE LOOP DETECTORS AND LEADS UNLESS DIRECTED TO DO SO BY THE PROFESSIONAL ENGINEER.

C10. TRENCHES SHALL BE BACKFILLED WITHOUT DELAY. OPEN EXCAVATIONS SHALL BE KEPT TO A MINIMUM AND MADE SAFE AT ALL TIMES. ALL TRENCHES SHALL BE ADEQUATELY COMPACTED BY APPROVED METHODS AND WITH MATERIALS APPROVED BY THE FIELD ENGINEER. ANY TRENCH SETTLEMENT SHALL BE IMMEDIATELY BROUGHT TO GRADE AND TEMPORARY PAVING SHALL BE PLACED WHERE REQUIRED. NO TRENCH (INCLUDING CURBS) SHALL BE LEFT OPEN OVERNIGHT.

C11. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY RAMPS AROUND ALL EXPOSED UTILITY CASTINGS, BOTH PUBLIC AND PRIVATE WHICH HAVE BEEN UNCOVERED DURING CONSTRUCTION.

D. DRAINAGE

D1. THE CONTRACTOR IS RESPONSIBLE TO CLEAN AND MAINTAIN ALL EXISTING DRAINAGE STRUCTURES PRIOR TO THE START OF CONSTRUCTION WITHIN THE PROJECT LIMITS.

D2. ALL EXISTING STORM SEWER PIPES WITHIN PROJECT LIMITS MUST BE CLEANED BY THE CONTRACTOR AFTER COMPLETION OF CONSTRUCTION. THE COST FOR CLEANING SHALL NOT BE PAID SEPARATELY BUT SHALL BE INCLUDED IN THE VARIOUS DRAINAGE ITEMS IN THE PROPOSAL.

D3. ALL ROOF LEADERS AND CURB DRAINS ARE TO REMAIN FREE FLOWING, DURING CONSTRUCTION.

D4. ALL ROOF DRAIN PIPES IN CURB/SIDEWALK AREA TO BE MAINTAINED AND RECONNECTED, AND SHALL BE EXTENDED UNDER THE SIDEWALK AND THROUGH THE CURB.

D. DRAINAGE (CONT.)

D5. ALL INLETS, MANHOLES AND VAULT CASTINGS TO BE RESET SHALL BE RESET TO THE PROPOSED FINISHED GRADE AS DIRECTED BY THE FIELD ENGINEER. THESE CASTINGS MUST BE RESET FLUSH TO THE PROPOSED GRADE AND THE NEW PAVEMENT SHALL NOT BE MOUNDED UP OR FEATHERED DOWN TO MEET THESE CASTINGS. ALL CASTINGS RESET TO THE IMPROPER GRADE OR NOT TO THE SATISFACTION OF THE FIELD ENGINEER SHALL BE RESET TO THE NEW GRADE AT NO ADDITIONAL EXPENSE TO THE OWNER.

D6. EXISTING GRATES ARE THE PROPERTY OF THE MUNICIPALITY OR UTILITY AUTHORITY AND WILL BE DELIVERED, AT NO ADDITIONAL COST TO THE OWNER, TO THE LOCAL DEPARTMENT OF PUBLIC WORKS OR UTILITY AUTHORITY YARD. PAYMENT WILL NOT BE MADE FOR NEW GRATES UNLESS THE EXISTING GRATES ARE RETURNED TO THE OWNER.

D7. ALL OPEN DRAINAGE EXCAVATIONS SHALL BE BACKFILLED AT THE END OF EACH DAY AND PROTECTED FROM PEDESTRIAN AND VEHICULAR TRAFFIC.

D8. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE DURING AND AFTER CONSTRUCTION. IF A SITUATION ARISES WHERE WATER WILL POND AT A PARTICULAR LOCATION, THE PROFESSIONAL ENGINEER RESPONSIBLE FOR THE DESIGN MUST BE NOTIFIED IMMEDIATELY IN ORDER TO MAKE CORRECTIVE MEASURES IN WRITING.

D9. THE CONTRACTOR IS FULLY RESPONSIBLE FOR VERIFYING THAT ALL PROPOSED STORM SEWER CONNECTIONS ARE TO THE EXISTING STORM SEWER SYSTEMS.

E. TRAFFIC CONTROL

E1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF TRAFFIC CONTROL MEASURES.

E2. MAINTENANCE AND PROTECTION OF PEDESTRIAN TRAFFIC CONTROL MUST CONFORM TO NJDOT AND MUTCD STANDARDS ALONG WITH THE REQUIREMENTS OF THE MUNICIPALITY. POLICE TRAFFIC DIRECTORS SHALL BE COORDINATED WITH THE MUNICIPALITY, AS NEEDED.

E3. THE CONTRACTOR SHALL BE RESPONSIBLE TO PREPARE A DETOUR PLAN AS NEEDED OR REQUIRED BY THE OWNER AND/OR LOCAL POLICE DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO STARTING WORK.

F. SIGNS

F1. ANY SIGNS LOCATED WITHIN THE SIDEWALK AREAS SHOULD BE RESET/RELOCATED IN ACCORDANCE WITH THE STANDARD NJDOT STANDARD DETAILS. SEPARATE PAYMENT WILL NOT BE MADE FOR RESETTING OBJECTS LOCATED IN THE SIDEWALK. THE COST SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE REPLACEMENT OF SIDEWALKS, UNLESS PAYMENT FOR SUCH WORK IS SPECIFIED IN THE PROPOSAL.

F2. THE CONTRACTOR SHALL RELOCATE/RESET SIGNS AS SHOWN ON THE PLANS OR DIRECTED BY THE PROFESSIONAL ENGINEER. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK BUT THE COST SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE PROPOSAL.

F3. SIGNS FOR PARKING PROHIBITION MUST BE POSTED AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION. CONTRACTOR SHALL COORDINATE, OBTAIN AND PLACE SIGNS AS DIRECTED BY THE OWNER.

G. SURVEY

G1. LAYOUT OF ALL WORK SHALL BE ADJUSTED IN THE FIELD TO MEET SITE CONDITIONS AS APPROVED IN WRITING BY THE PROFESSIONAL ENGINEER RESPONSIBLE FOR THE DESIGN.

G2. THE CONTRACTOR IS RESPONSIBLE TO LAYOUT ALL NEW WORK PRIOR TO CONSTRUCTION FOR FIELD ENGINEER'S APPROVAL. ANY LOCATIONS NOT APPROVED BY THE FIELD ENGINEER AND INSTALLED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED AS PER THE FIELD ENGINEER'S INSTRUCTIONS AT NO ADDITIONAL COST TO THE OWNER.

G3. ALL LAYOUT WORK SHALL BE DONE BY A NEW JERSEY LICENSED LAND SURVEYOR.

G4. ALL EXISTING LOCATIONS TAKEN FROM A SURVEY PREPARED BY NEGLIA GROUP.

H. TREES

H1. CONTRACTOR MUST RETAIN A CERTIFIED TREE EXPERT FOR TREE EVALUATION WHERE NECESSARY. NO ADDITIONAL PAYMENT WILL BE MADE FOR TREE EXPERT; PRICE TO BE INCLUDED IN SITE CLEARING.

H2. ALL TREES THAT HAVE ROOTS THAT ENCROACH INTO THE PROPOSED CURBS OR PAVEMENT AND ARE TO BE SAVED SHALL BE EVALUATED BY THE CONTRACTOR'S CERTIFIED TREE EXPERT. ALL EVALUATIONS SHALL BE IN WRITING AND SHALL ACCURATELY IDENTIFY THE TREE IN QUESTION BY STATION AND OFFSET (LEFT OR RIGHT). ALL EVALUATIONS SHALL BE SUBMITTED TO THE PROFESSIONAL ENGINEER FOR REVIEW AND CONSULTATION WITH THE MUNICIPALITIES TREE EXPERTS PRIOR TO CUTTING ANY ROOTS. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK BUT THE COST THEREOF SHALL BE INCLUDED IN THE CLEARING SITE ITEM.

H3. TREES THAT ARE TO BE SAVED, WHERE IT IS DETERMINED THAT ROOT CUTTING MAY SEVERELY DAMAGE THE TREE, SHALL HAVE A CURB BREAK AND STEEL CURB FACE PLATES INSTALLED AS SHOWN ON THE DETAILS.

H4. THE CONTRACTOR IS RESPONSIBLE FOR THE TIMELY EVALUATION OF ALL TREES AND THERE WILL NOT BE CHANGE ORDERS FOR DELAYS RESULTING FROM ROOT CUTTING.

H5. IN AREAS WHERE THE ROOTS ENCROACH INTO THE CURB LINE, THE FULL PAVEMENT SECTION SHALL BE REMOVED PRIOR TO REMOVING THE CURB. THEN THE EXISTING CURB SHALL BE REMOVED BY PULLING IT AWAY FROM THE TREE TOWARDS THE ROADWAY TO MINIMIZE ROOT DAMAGE DURING THE REMOVAL OF THE EXISTING CURB. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK BUT THE COST THEREOF SHALL BE INCLUDED IN THE CLEARING SITE LINE ITEM.

I. ADA REQUIREMENTS

I1. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR COMPLYING WITH NJDOT AND ADA REQUIREMENTS RELATED TO THE INSTALLATION OF HANDICAP ACCESSIBLE RAMPS AND THE ASSOCIATED SLOPES. THE RAMPS AND ALIGNMENTS ILLUSTRATED ON THESE PLANS SHALL BE USED FOR SCHEMATIC PURPOSES ONLY. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR PROPER CONSTRUCTION AND ALIGNMENT IN THE FIELD.

I2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE PROPOSED DROP CURB RAMPS MEET CURRENT NJDOT AND ADA STANDARDS. THOSE RAMPS THAT DO NOT MEET STANDARDS, ONCE CONSTRUCTED, SHALL BE REPLACED TO MEET SAID STANDARDS AT NO ADDITIONAL COST TO THE OWNER.

I3. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXTENT OF IMPROVEMENTS REQUIRED FOR THOSE RAMP LOCATIONS IDENTIFIED AND COMPLETING SAID WORK TO ENSURE RAMPS ARE IN CONFORMANCE WITH CURRENT NJDOT AND ADA STANDARDS.

I4. CONTRACTOR SHALL NOT BEGIN SITE CLEARING OPERATIONS ON A RAMP UNTIL VERIFIED THAT THE RAMP CAN BE CONSTRUCTED TO COMPLY WITH APPLICABLE STANDARDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CORRECTIONS TO A RAMP SHOULD THEY PROCEED WITH DEMOLITION PRIOR TO CONFIRMATION OF CONSTRUCTABILITY AT NO ADDITIONAL COST TO THE OWNER.

PAVEMENT MARKING STANDARD

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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A PRODUCT OF

NEGLIA GROUP

EVERETT PARK IMPROVEMENTS

BLOCK 707 - LOT 10
TOWNSHIP OF VERONA
COUNTY OF ESSEX
STATE OF NEW JERSEY

ANTHONY KURUS, PE, PP
PROFESSIONAL ENGINEER N.J. LICENSE NO. 24GE06641500 | PROFESSIONAL PLANNER N.J. LICENSE NO. 33L00614500

MATEO F. LUZURIAGA, PE
PROFESSIONAL ENGINEER
N.J. LICENSE NO. 24GE06029800

GENERAL NOTES AND LEGEND

DRAWN BY: M.F.L.	SCALE: N.T.S.
DESIGNED BY: M.F.L.	CHECKED BY: A.K.
PROJECT NO.: VEROMUN24.010	1.01
DATE: NOVEMBER 2024	

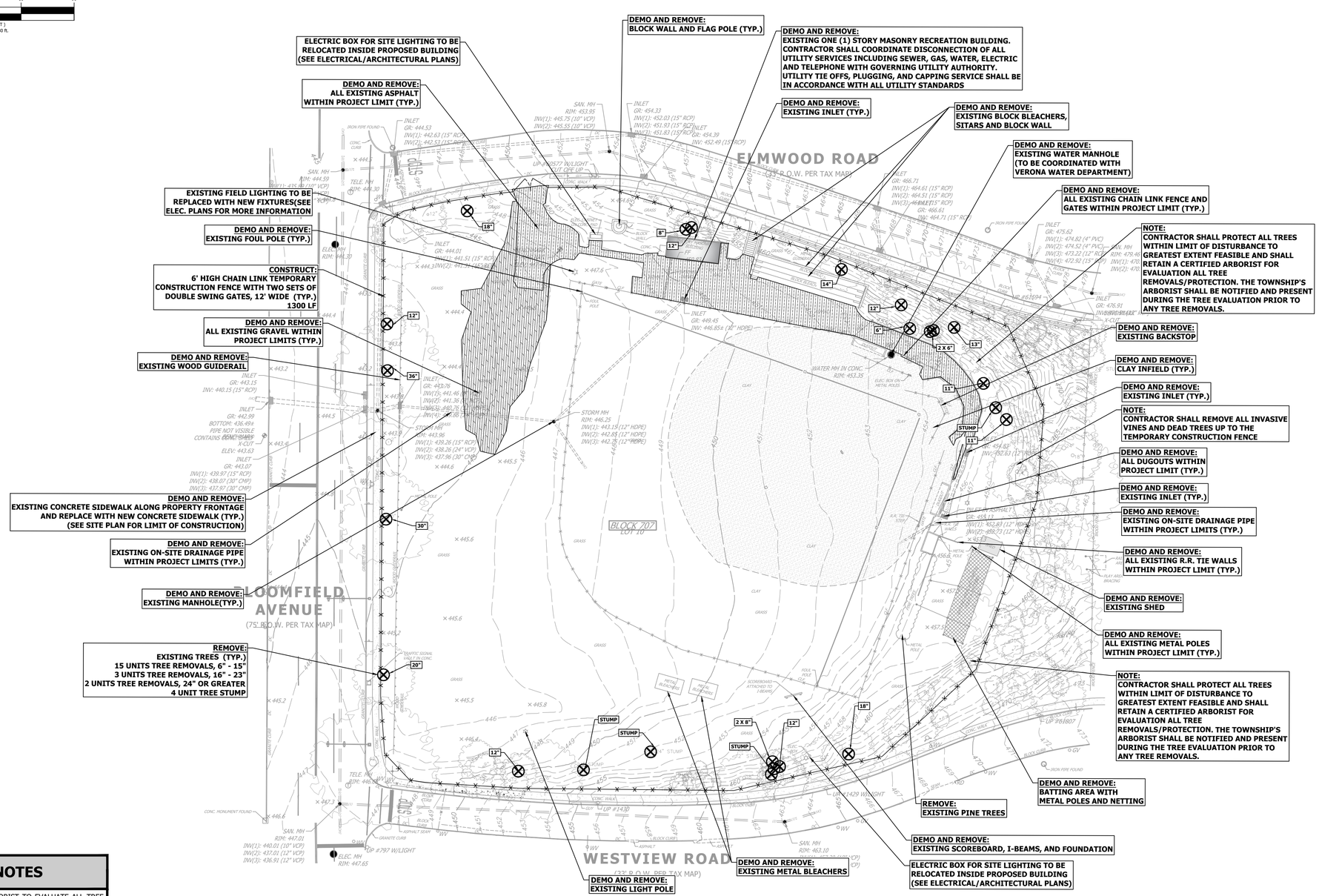
CERTIFICATE OF AUTHORIZATION (N.J.S.A. 45:8-56) 24GA27927000

N.J.P.C.S.

GRAPHIC SCALE

0 15 30 60 90

(IN FEET)
1 inch = 30 ft.



TREE REMOVAL NOTES

1. CONTRACTOR SHALL RETAIN A CERTIFIED ARBORIST TO EVALUATE ALL TREE REMOVALS WITHIN THE LIMIT OF DISTURBANCE TO CONFIRM REMOVAL OR PROTECTION. THE TOWNSHIP'S ARBORIST AND A REPRESENTATIVE OF NEGLIA GROUP SHALL BE PRESENT DURING THE EVALUATION.
2. FINAL LIST OF ALL TREE'S BEING REMOVED SHALL BE PROVIDED TO THE TOWNSHIP'S ARBORIST FOR REVIEW PRIOR TO ANY TREE REMOVAL.
3. ALL TREES DESIGNATED TO BE REMOVED SHALL BE IDENTIFIED WITH AN ORANGE REMOVABLE RIBBON. NO SPRAY PAINT ON TREES IS PERMITTED.

TREE REMOVAL SUMMARY

15 TREE REMOVALS OF 6" DPM BUT LESS THAN 16"	15 TREE REPLACEMENTS REQ. PER ORD.
3 TREE REMOVAL OF 16" BUT LESS THAN 24" TREE REMOVAL	6 TREE REPLACEMENTS REQ. PER ORD.
2 TREE REMOVAL OF 24" OR GREATER TREE REMOVAL	8 TREE REPLACEMENTS REQ. PER ORD.
	TOTAL OF 29 TREE REPLACEMENTS REQ.

GENERAL NOTES

1. EXISTING CONDITIONS AS PER PLAN ENTITLED, " TOPOGRAPHIC SURVEY, EVERETT PARK, BLOCK 707 LOT 10, TOWNSHIP OF VERONA, ESSEX COUNTY, NEW JERSEY," PREPARED BY NEGLIA ENGINEERING ASSOCIATES, DATED JUNE 6, 2023.

DEMOLITION PLAN NOTES

1. BEFORE THE DEMOLITION WORK IS STARTED, CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED BY FEDERAL, STATE, AND COUNTY JURISDICTIONS FOR ALL PHASES AND OPERATIONS OF THE WORK.
2. BURNING DEBRIS IS PROHIBITED.
3. THE USE OF EXPLOSIVES IS PROHIBITED.
4. PROTECT UTILITIES DURING THE WORK OF THIS SECTION, UNLESS OTHERWISE NOTED ON THIS PLAN.
5. CONTRACTOR SHALL VERIFY THE LOCATION WITHIN AND SURROUNDING THE DEMOLITION LIMITS.
6. REMOVAL AND DISPOSAL OF CONCRETE AND BITUMINOUS SIDEWALK, WALLS, FENCES, DECKING, TREES, SHRUBS, HEDGES, BRUSH, STUMPS, ROOTS, DIRT, STONE, DEBRIS, SURPLUS MATERIALS, RUBBISH, AS SHOWN OR OTHERWISE DIRECTED. PAVERS SHALL BE CAREFULLY REMOVED AND STOCKPILED FOR REINSTALLATION.
7. REMOVE CURBS, DECKING, SLABS ON GRADE, AND FENCES AS SHOWN OR DIRECTED OTHERWISE.
8. REPAIR ANY AND ALL DAMAGED OR INJURY TO THE ADJOINING PROPERTIES CAUSED BY THE WORK AND LEAVE THE PROPERTIES IN AS GOOD CONDITION AS BEFORE WORK WAS STARTED. THE CONTRACTOR SHALL RELIEVE THE OWNER OF ALL RESPONSIBILITY FOR ANY CLAIMS DUE TO SUCH INJURY AND SHALL DEFEND ANY ACTION BROUGHT BY REASON THEREOF.
9. IF SO DIRECTED, THE CONTRACTOR SHALL THOROUGHLY WET THE WORK TO PREVENT DUST.
10. PROTECT TREES NOT DESIGNATED FOR REMOVAL AS SHOWN ON THE PLANS. SEE TREE PROTECTION DETAIL FOR IMPLEMENTATION OF PROTECTION MEASURES.
11. REMOVE DEMOLITION DEBRIS AND EXCESS FILL FROM THE PROJECT SITE AS SOON AS PRACTICABLE, EVERYDAY.
12. THE REMOVAL AND DISPOSAL OF MATERIALS AND DEBRIS ACCUMULATED BY CLEARING SITE IS REGULATED UNDER THE SOLID WASTE MANAGEMENT ACT (NJSA 13:1 E-1) AND IS GOVERNED BY NJAC 7:26 ET SEQ. THE CONTRACTOR SHALL DISPOSE OF THE MATERIAL AND DEBRIS ACCORDING TO THE SOLID WASTE MANAGEMENT PLAN DEVELOPED BY THE SOLID WASTE MANAGEMENT DISTRICT OF ORIGIN. PROPER DOCUMENTATION FROM THE DISPOSAL FACILITY SHALL BE SUBMITTED TO THE ENGINEER.
13. TRANSPORT DEMOLITION DEBRIS AND EXCESS FILL TO DESIGNATED DISPOSAL AREA AS SOON AS PRACTICABLE. GRADE DISPOSAL AREAS TO ADJACENT CONTOURS AND SLOPE TO DRAIN.
14. DO NOT STORE, SELL, OR BURN MATERIALS ON COUNTY PROPERTY.
15. ALL DEMOLITION WORK SHALL BE IN ACCORDANCE WITH COUNTY, STATE, AND FEDERAL REGULATIONS.
16. VARIOUS UTILITIES SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE FIELD MEASUREMENTS. THE INFORMATION IS NOT TO BE RELIED ON AS BEING COMPLETE OR EXACT. THE CONTRACTOR MUST CONTACT ALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 48 HOURS BEFORE ANY WORK OR EXCAVATION TO REQUEST A FIELD MARK OUT OF EXISTING UTILITIES. THE CONTRACTOR MUST CALL 1800-242-1000 BEFORE COMMENCEMENT OF WORK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL ON SITE UTILITIES PRIOR TO START OF DEMOLITION WORK.
17. CONTRACTOR SHALL PREPARE AND SUBMIT FOR APPROVAL BY THE OWNER'S ENGINEER A PLAN DETAILING THE LOCATIONS OF THE TEMPORARY FENCING, GATES, BARRICADES AND OTHER ITEMS REQUIRED TO SECURE THE DEMOLITION WORK AREA AND TO PROTECT THE PUBLIC.

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NO.	DATE	REVISION	DRAWN	DESIGNED	CHECKED

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A PRODUCT OF

NEGLIA GROUP

EVERETT PARK IMPROVEMENTS

BLOCK 707 - LOT 10
TOWNSHIP OF VERONA
COUNTY OF ESSEX
STATE OF NEW JERSEY

ANTHONY KURUS, PE, PP
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PROFESSIONAL PLANNER N.J. LICENSE NO. 33L00614500

MATEO F. LUZURIAGA, PE
PROFESSIONAL ENGINEER
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DEMOLITON PLAN

DRAWN BY:	M.F.L.	SCALE:	AS NOTED
DESIGNED BY:	M.F.L.	CHECKED BY:	A.K.
PROJECT NO.:	VEROMUN24.010		2.00
DATE:	NOVEMBER 2024		

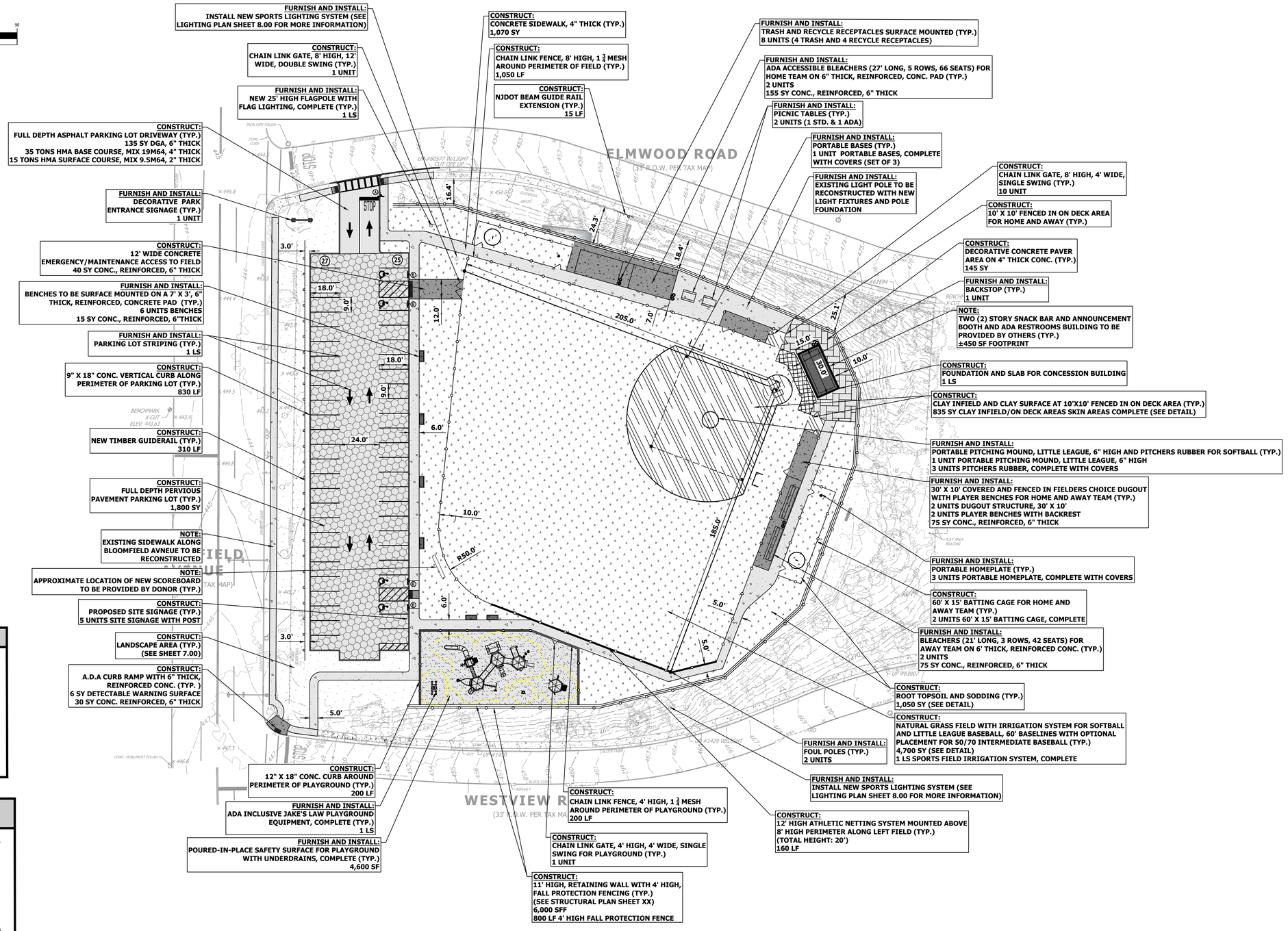
CERTIFICATE OF AUTHORIZATION (N.J.S.A. 45:8-56) 24GA27927000

N.J.P.C.S.

GRAPHIC SCALE

0 15 30 60 90

(IN FEET)
1 inch = 30 ft.



HATCHING LEGEND

- ASPHALT PAVEMENT
- PERVIOUS PAVEMENT
- CONCRETE SIDEWALK, 4" THICK
- CONCRETE SIDEWALK/DRIVEWAY, REINFORCED, 6" THICK
- DECORATIVE PAVERS ON 4" THICK CONCRETE BASE
- NATURAL GRASS FIELD (SEE DETAILS)
- TOPSOIL AND HYDROSEED

SIGNAGE LEGEND

NOT TO SCALE

STOP
R1 - 1
(30" x 30")
(A)

RESERVED PARKING
R7-8
(12" X 18")

VAN ACCESSIBLE
R7-8P
(18" X 9")

PENALTY
$250 FIRST OFFENSE
SUBSEQUENT OFFENSES $500 MIN. AND/OR COMMUNITY SERVICE
TOW-AWAY ZONE
(18" X 12")
(B)

1. DIMENSIONS, COLORS, AND DETAILS OF VARIOUS SIZE SIGNS, SHIELDS AND ACCESSORY PANELS TO FOLLOW STANDARDS IN THE CURRENT "STANDARD HIGHWAY SIGNS PUBLICATION" AND THE CURRENT "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS".
2. ALL SIGNS SHALL BE ASTM D 4956 TYPE III SHEETING.

GENERAL NOTES

1. EXISTING CONDITIONS AS PER PLAN ENTITLED, " TOPOGRAPHIC SURVEY, EVERETT PARK, BLOCK 707 LOT 10, TOWNSHIP OF VERONA, ESSEX COUNTY, NEW JERSEY," PREPARED BY NEGLIA ENGINEERING ASSOCIATES, DATED JUNE 6, 2023.

SPORTS IRRIGATION SYSTEM NOTES

1. CONTRACTOR SHALL PROVIDE AN AUTOMATIC IRRIGATION SYSTEM FOR PROPOSED NATURAL GRASS FIELD AND LANDSCAPING. ALL PLANTED AREAS AND LAWN AREAS AS SHOWN ON THE PLANTING PLAN SHEET C9.00 PREPARED BY NEGLIA GROUP.
2. IRRIGATION SYSTEM SHALL INCLUDE ALL PIPING, SPRAY IRRIGATION SPRINKLER OF ALL TYPES ETC. TO PROVIDE COMPLETE WATER COVERAGE FOR THE PROPOSED PLANTED AREAS AND LAWN AREAS AS SHOWN ON THE PLANTING PLAN SHEET C9.00 PREPARED BY NEGLIA GROUP.
3. CONTRACTOR TO PROVIDE A SHOP DRAWINGS PREPARED BY A CERTIFIED IRRIGATION DESIGNER - COMMERCIAL (CID) SHOWING COMPLETE COVERAGE FOR ALL PLANTED AREAS AND LAWN AREAS FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
4. THE SPORTS IRRIGATION SYSTEM SHALL BE PAID FOR UNDER THE SPORTS IRRIGATION SYSTEM, COMPLETE PAY ITEM UNDER THE BASE BID.

CONCESSION BUILDING COORDINATION NOTES

1. CONTRACTOR SHALL COMPLETE THE FOUNDATION AND SLAB FOR HE CONCESSION BUILDING IN ACCORDANCE WITH THE STRUCTURAL PLAN AND DETAILS UNDER THIS CONTRACT. SEE STRUCTURAL SHEETS (S1.00 AND S3.00).
2. FOUNDATION AND SLAB FOR CONCESSIONS BUILDING SHALL BE COMPLETED ON OR ABOUT NOVEMBER 30, 2025 SO THAT VERONA BASEBALL SOFT LEAGUE (VBSL) CONCESSION CONTRACTOR (OTHERS) CAN START WORK ON THE CONCESSION BUILDING.
3. CONTRACTOR SHALL COORDINATE WORK IN AND AROUND THE CONCESSION BUILDING WITH VBSL CONCESSION BUILDING CONTRACTOR (OTHERS AND TOWNSHIP OF VERONA IN ORDER TO DELIVER THE OVERALL PROJECT PRIOR TO VBSL SPRING 2026 OPENING DAY.
4. PRIOR INSTALLATION OF ANY PAVERS AT THE CONCESSION STAND, CONTRACTOR SHALL CONFIRM THE ENGRAVED FUNDRAISING PAVER LIST WITH THE TOWNSHIP WITH RESPECT QUANTITY, COLOR, NAMES ETC. IN ORDER TO INCORPORATE AND INSTALL FUNDRAISING PAVERS INTO THE PROPOSED PAVER FIELD. FIELD MARKOUT OF ENGRAVED FUNDRAISING PAVERS BY CONTRACTOR IS REQUIRED TO BE APPROVED BY TOWNSHIP PRIOR TO INSTALLATION

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EVERETT PARK IMPROVEMENTS

BLOCK 707 - LOT 10
TOWNSHIP OF VERONA
COUNTY OF ESSEX
STATE OF NEW JERSEY

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MATEO F. LUZURIAGA, PE
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SITE PLAN

DRAWN BY: M.F.L.	SCALE: 1" = 30'
DESIGNED BY: M.F.L.	CHECKED BY: A.K.
PROJECT NO.: VEROMUN24.010	3.00
DATE: NOVEMBER 2024	

CERTIFICATE OF AUTHORIZATION (N.J.S.A. 45:8-56) 24GA27927000

N.J.P.C.S.

GRAPHIC SCALE

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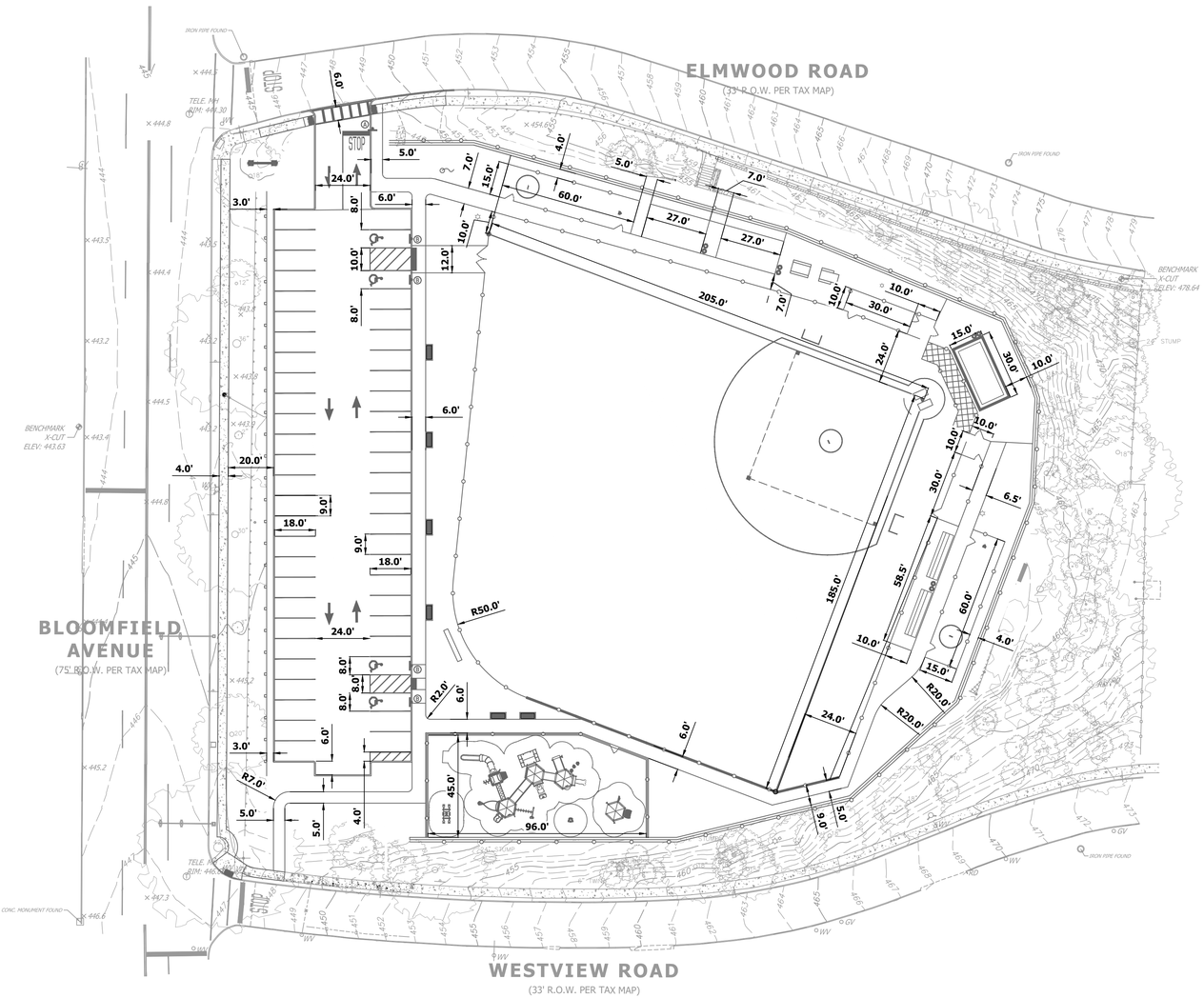

GENERAL NOTES

1. EXISTING CONDITIONS AS PER PLAN ENTITLED, " TOPOGRAPHIC SURVEY, EVERETT PARK, BLOCK 707 LOT 10, TOWNSHIP OF VERONA, ESSEX COUNTY, NEW JERSEY," PREPARED BY NEGLIA ENGINEERING ASSOCIATES, DATED JUNE 6, 2023.

NEGLIA GROUP
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DIMENSIONAL CONTROL PLAN

DRAWN BY:	M.F.L.	SCALE:	1" = 30'
DESIGNED BY:	M.F.L.	CHECKED BY:	A.K.
PROJECT NO.:	VEROMUN24.010		3.01
DATE:	NOVEMBER 2024		

CERTIFICATE OF AUTHORIZATION (N.J.S.A. 45:8-56) 24GA27927000

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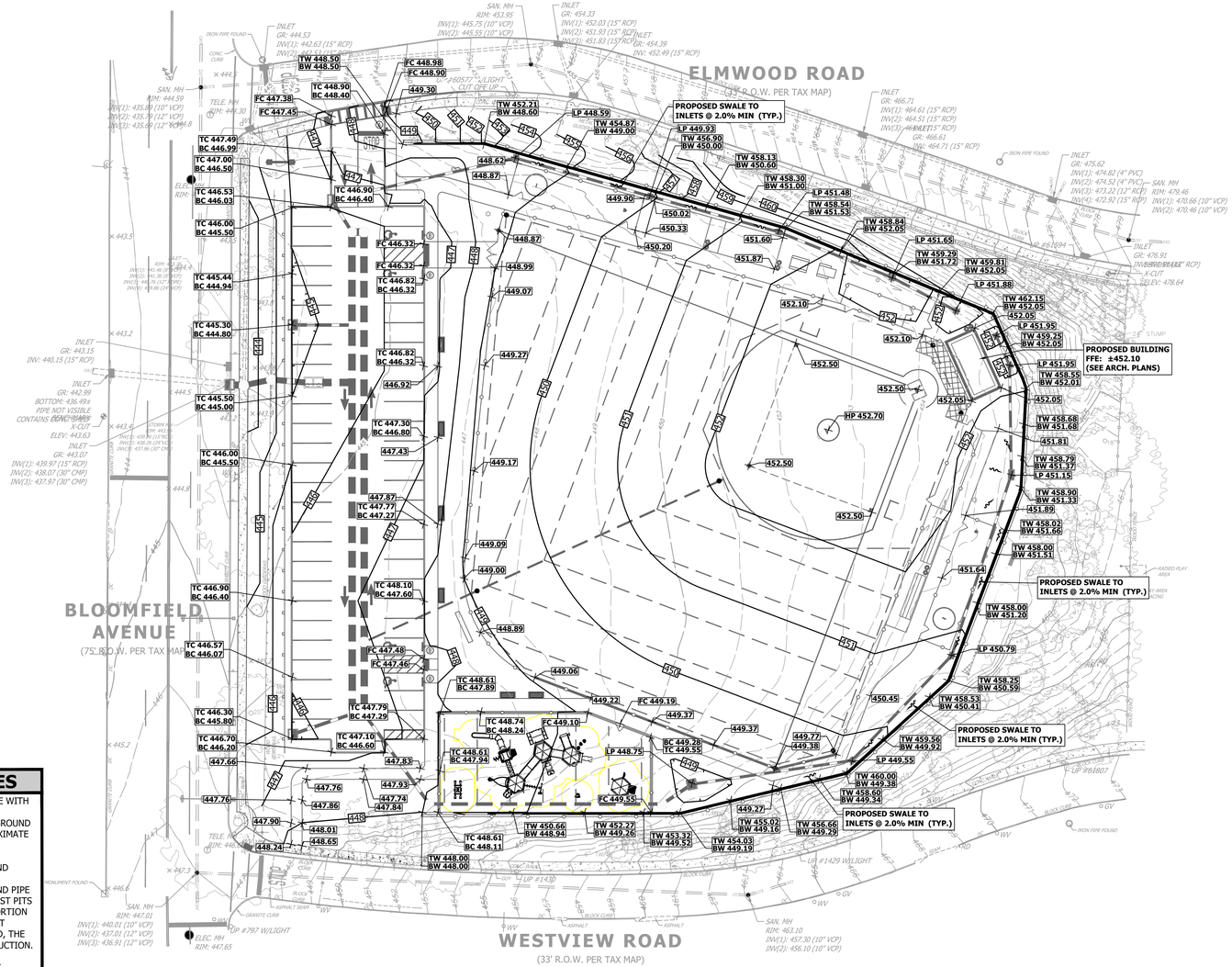

GRADING AND DRAINAGE NOTES

1. ALL SIDEWALKS AND CURBING MUST BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.
2. ALL ROOF DRAIN DOWNSPOUTS SHALL BE CONNECTED TO THE UNDERGROUND STORM DETENTION SYSTEM. LOCATIONS OF ROOF DRAINS ARE APPROXIMATE AT THIS TIME AND SHALL BE COORDINATED WITH ARCHITECTURAL DOWNSPOUT PLANS PRIOR TO CONSTRUCTION. ALL ROOF DRAINS, ALL DOWNSPOUTS, ALL CANOPY DRAINS SHALL BE PIPED UNDERGROUND AND CONNECTED TO THE SITE DRAINAGE SYSTEM.
3. CONTRACTOR SHALL FIELD VERIFY/CONFIRM LOCATION, ELEVATION, AND PIPE SIZE OF EXISTING DOWNSTREAM STORM CONVEYANCE SYSTEMS VIA TEST PITS AT PROPOSED CONNECTION POINTS PRIOR TO CONSTRUCTING ANY PORTION OF THE SITE DRAINAGE SYSTEM AND PRIOR TO ORDERING ANY PRECAST DRAINAGE STRUCTURES. SHOULD ANY DISCREPANCIES BE DETERMINED, THE ENGINEER SHALL BE CONTACTED IMMEDIATELY PRIOR TO ANY CONSTRUCTION.
4. CONTRACTOR SHALL CONFIRM THAT EXISTING DOWNSTREAM STORM CONVEYANCE SYSTEM IS FREE FLOWING PRIOR TO CONSTRUCTION ANY PORTION OF THE SITE DRAINAGE SYSTEM AND PRIOR TO ORDERING ANY PRECAST DRAINAGE STRUCTURES.
5. GRADING AND DRAINAGE SHALL BE CONSTRUCTED SUCH THAT ALL RUNOFF SHALL BE DIRECTED TO PROPOSED CATCH BASINS, DRAINS, AND ADJACENT ROADWAY WITH POSITIVE PITCH.
6. GRADING ALONG BUILDINGS, FOUNDATIONS, AND STRUCTURE WALLS SHALL BE CONSTRUCTED TO PROVIDE 2% MINIMUM SLOPING AWAY FROM BUILDING, FOUNDATION, AND STRUCTURE WALLS TO PROVIDE POSITIVE DRAINAGE AWAY FROM SAID STRUCTURES TOWARDS PROPOSED CATCH BASINS, DRAINS, AND ADJACENT ROADWAY.
7. CROSS SLOPES WITHIN PROPOSED STREETSCAPE SIDEWALK SHALL NOT EXCEED 2.0% MAX CROSS SLOPE.
8. SIDEWALK MUST BE A MINIMUM OF 4' WIDE AT A 1.8% MAXIMUM CROSS SLOPE THRU THE PROPOSED DRIVEWAY.
9. SLOPES WITHIN ADA LANDINGS SHALL NOT EXCEED 1.8% SLOPE IN ANY DIRECTION. CONTRACTOR SHALL USE SMART LEVEL. SEE CONSTRUCTION DETAILS.

GENERAL NOTES

1. EXISTING CONDITIONS AS PER PLAN ENTITLED, " TOPOGRAPHIC SURVEY, EVERETT PARK, BLOCK 707 LOT 10, TOWNSHIP OF VERONA, ESSEX COUNTY, NEW JERSEY," PREPARED BY NEGLIA ENGINEERING ASSOCIATES, DATED JUNE 6, 2023.

STEEP SLOPE DISTURBANCE CALCULATION

TOTAL AREA OF PROJECT SITE	125,888 S.F. (2.89 ACRES)	
NONREGULATED SLOPE (0%-14.9%)	89,618 S.F. (2.06 ACRES)	86.0% OF STEEP SLOPE DIST.
PRECAUTIONARY SLOPE (15% - 24.9%)	6,166 S.F. (0.14 ACRES)	5.9% OF STEEP SLOPE DIST.
PROHIBITIVE SLOPES (25% OR GREATER)	8,445 S.F. (0.19 ACRES)	6.7% OF STEEP SLOPE DIST.

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NO.	DATE	REVISION	DRAWN	DESIGNED	CHECKED

FINAL

A PRODUCT OF

NEGLIA GROUP

EVERETT PARK IMPROVEMENTS

BLOCK 707 - LOT 10
TOWNSHIP OF VERONA
COUNTY OF ESSEX
STATE OF NEW JERSEY

ANTHONY KURUS, PE, PP
PROFESSIONAL ENGINEER N.J. LICENSE NO. 24GE04644500
PROFESSIONAL PLANNER N.J. LICENSE NO. 33L00614500

MATEO F. LUZURIAGA, PE
PROFESSIONAL ENGINEER
N.J. LICENSE NO. 24GE06029800

GRADING PLAN

DRAWN BY:	M.F.L.	SCALE:	AS NOTED
DESIGNED BY:	M.F.L.	CHECKED BY:	A.K.
PROJECT NO.:	VEROMUN24.010		4.00
DATE:	NOVEMBER 2024		

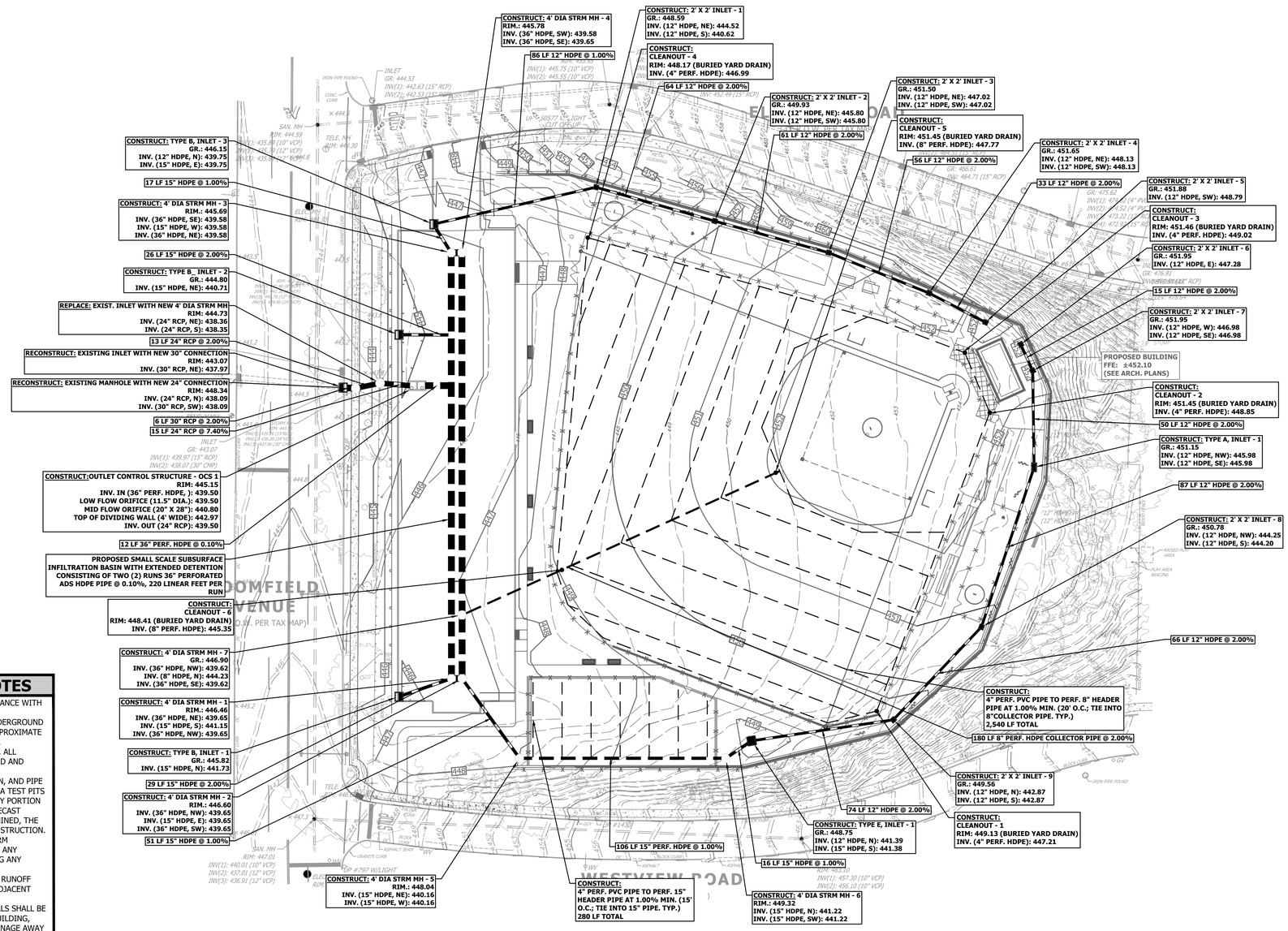
CERTIFICATE OF AUTHORIZATION (N.J.S.A. 45:8-56) 24GA27927000

N.J.P.C.S.

GRAPHIC SCALE

0 15 30 60 90

(IN FEET)
1 inch = 30 ft.



GRADING AND DRAINAGE NOTES

1. ALL SIDEWALKS AND CURBING MUST BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.
2. ALL ROOF DRAIN DOWNSPOUTS SHALL BE CONNECTED TO THE UNDERGROUND STORM DETENTION SYSTEM. LOCATIONS OF ROOF DRAINS ARE APPROXIMATE AT THIS TIME AND SHALL BE COORDINATED WITH ARCHITECTURAL DOWNSPOUT PLANS PRIOR TO CONSTRUCTION. ALL ROOF DRAINS, ALL DOWNSPOUTS, ALL CANOPY DRAINS SHALL BE PIPED UNDERGROUND AND CONNECTED TO THE SITE DRAINAGE SYSTEM.
3. CONTRACTOR SHALL FIELD VERIFY/CONFIRM LOCATION, ELEVATION, AND PIPE SIZE OF EXISTING DOWNSTREAM STORM CONVEYANCE SYSTEMS VIA TEST PITS AT PROPOSED CONNECTION POINTS PRIOR TO CONSTRUCTING ANY PORTION OF THE SITE DRAINAGE SYSTEM AND PRIOR TO ORDERING ANY PRECAST DRAINAGE STRUCTURES. SHOULD ANY DISCREPANCIES BE DETERMINED, THE ENGINEER SHALL BE CONTACTED IMMEDIATELY PRIOR TO ANY CONSTRUCTION.
4. CONTRACTOR SHALL CONFIRM THAT EXISTING DOWNSTREAM STORM CONVEYANCE SYSTEM IS FREE FLOWING PRIOR TO CONSTRUCTION ANY PORTION OF THE SITE DRAINAGE SYSTEM AND PRIOR TO ORDERING ANY PRECAST DRAINAGE STRUCTURES.
5. GRADING AND DRAINAGE SHALL BE CONSTRUCTED SUCH THAT ALL RUNOFF SHALL BE DIRECTED TO PROPOSED CATCH BASINS, DRAINS, AND ADJACENT ROADWAY WITH POSITIVE PITCH.
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GENERAL NOTES

1. EXISTING CONDITIONS AS PER PLAN ENTITLED, " TOPOGRAPHIC SURVEY, EVERETT PARK, BLOCK 707 LOT 10, TOWNSHIP OF VERONA, ESSEX COUNTY, NEW JERSEY," PREPARED BY NEGLIA ENGINEERING ASSOCIATES, DATED JUNE 6, 2023.

NEGLIA GROUP
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NO.	DATE	REVISION	DRAWN	DESIGNED	CHECKED
1.	03/07/2025	REVISIONS AS PER HSPSCI COMMENTS	M.F.L.	M.F.L.	A.K.

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NEGLIA GROUP

EVERETT PARK IMPROVEMENTS

BLOCK 707 - LOT 10
TOWNSHIP OF VERONA
COUNTY OF ESSEX
STATE OF NEW JERSEY

ANTHONY KURUS, PE, PP
PROFESSIONAL ENGINEER
N.J. LICENSE NO. 24GE04644500
PROFESSIONAL PLANNER
N.J. LICENSE NO. 33LI00614500

MATEO F. LUZURIAGA, PE
PROFESSIONAL ENGINEER
N.J. LICENSE NO. 24GE06029800

DRAINAGE PLAN

DRAWN BY:	M.F.L.	SCALE:	AS NOTED
DESIGNED BY:	M.F.L.	CHECKED BY:	A.K.
PROJECT NO.:	VEROMUN24.010		5.00
DATE:	NOVEMBER 2024		

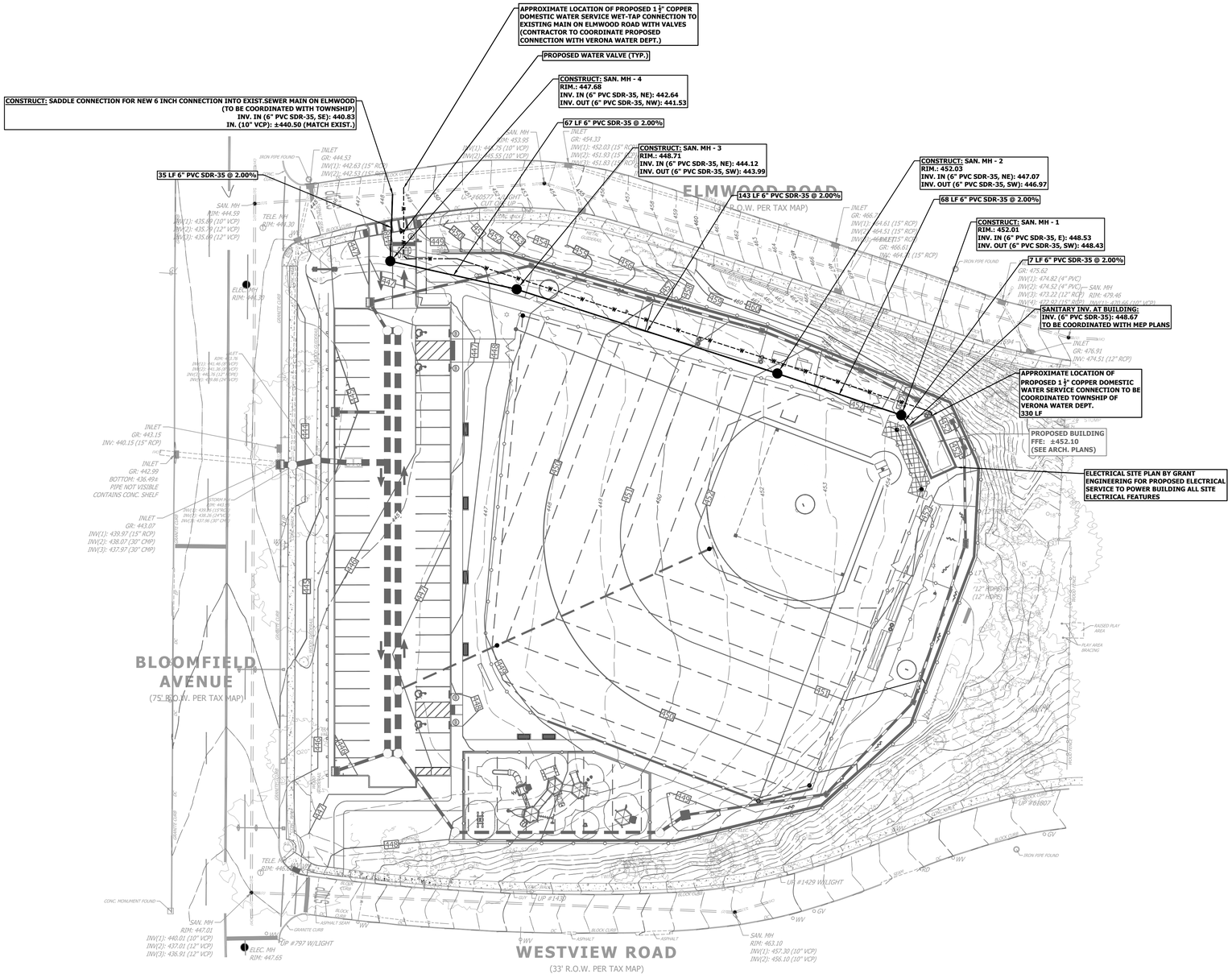
CERTIFICATE OF AUTHORIZATION (N.J.S.A. 45:8-56) 24GA27927000

N.J.P.C.S.

GRAPHIC SCALE

0 15 30 60 90

(IN FEET)
1 inch = 30 ft.



UTILITY NOTES

1. UTILITY CONNECTIONS AT PROPOSED BUILDING TO BE COORDINATED WITH MEP DESIGN BY OTHERS AND GOVERNING UTILITY AUTHORITIES.
2. CONTRACTOR SHALL FIELD LOCATE EXISTING UTILITIES AT ALL UTILITY CROSSINGS VIA TEST PITS PRIOR TO CONSTRUCTION AND SHALL COORDINATE ANY REQUIRED RELOCATIONS WITH GOVERNING UTILITY AUTHORITIES.
3. EXISTING UTILITY LINES ON SITE THAT ARE NO LONGER IN SERVICE SHALL BE PROPERLY REMOVED AND CAPPED PER UTILITY AUTHORITY REQUIREMENTS. CONTRACTOR SHALL COORDINATE RECONSTRUCTION/RELOCATION OF ANY UTILITIES NECESSARY FOR THE CONSTRUCTION OF PROJECT AS SHOWN ON THE SITE PLAN DRAWINGS WITH GOVERNING UTILITY AUTHORITIES
4. CONTRACTOR SHALL TELEVISE EXISTING SANITARY SEWER DOWNSTREAM OF PROPOSED CONNECTION AND PROVIDE COPIES OF THE VIDEO TO THE TOWNSHIP AND THIS OFFICE PRIOR TO CONNECTION.
5. CONTRACTOR SHALL ENSURE DOWNSTREAM SEWER IS FREE FLOWING PRIOR TO CONSTRUCTING PROPOSED SEWER CONNECTION.
6. 10" SANITARY SEWER LOCATED ON ELMWOOD ROAD SHALL BE VIDEO INSPECTED WITH COPIES OF THE VIDEO PROVIDED TO THE TOWNSHIP OF VERONA AND THIS OFFICE PRIOR TO CONSTRUCTION.

GENERAL NOTES

1. EXISTING CONDITIONS AS PER PLAN ENTITLED, " TOPOGRAPHIC SURVEY, EVERETT PARK, BLOCK 707 LOT 10, TOWNSHIP OF VERONA, ESSEX COUNTY, NEW JERSEY," PREPARED BY NEGLIA ENGINEERING ASSOCIATES, DATED JUNE 6, 2023.

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NO.	DATE	REVISION	DRAWN	DESIGNED	CHECKED

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EVERETT PARK IMPROVEMENTS

BLOCK 707 - LOT 10
TOWNSHIP OF VERONA
COUNTY OF ESSEX
STATE OF NEW JERSEY

ANTHONY KURUS, PE, PP
PROFESSIONAL ENGINEER
N.J. LICENSE NO. 24GE04644500
PROFESSIONAL PLANNER
N.J. LICENSE NO. 33LI00614500

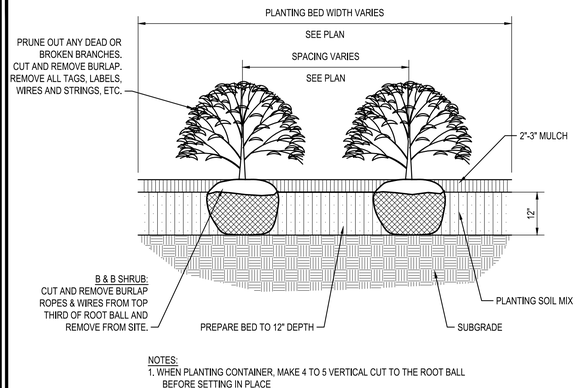
MATEO F. LUZURIAGA, PE
PROFESSIONAL ENGINEER
N.J. LICENSE NO. 24GE06029800

UTILITY PLAN

DRAWN BY:	M.F.L.	SCALE:	AS NOTED
DESIGNED BY:	M.F.L.	CHECKED BY:	A.K.
PROJECT NO.:	VEROMUN24.010		6.00
DATE:	NOVEMBER 2024		

CERTIFICATE OF AUTHORIZATION (N.J.S.A. 45:8-56) 24GA27927000

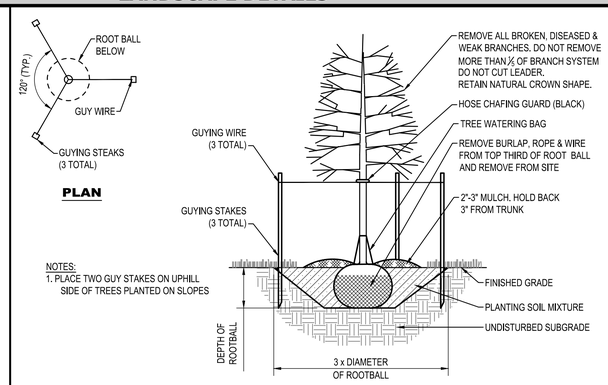
LANDSCAPE DETAILS



NOTES:
1. WHEN PLANTING CONTAINER, MAKE 4 TO 5 VERTICAL CUT TO THE ROOT BALL BEFORE SETTING IN PLACE

SHRUB PLANTING

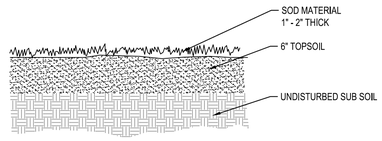
NOT TO SCALE



NOTES:
1. PLACE TWO GUY STAKES ON UPHILL SIDE OF TREES PLANTED ON SLOPES

DECIDUOUS TREE PLANTING

NOT TO SCALE



LAWN RESTORATION

NOT TO SCALE

LANDSCAPE NOTES

1. THIS PLAN SHALL BE USED FOR LANDSCAPE PLANTING PURPOSES ONLY. EXAMINE ALL ENGINEERING DRAWINGS AND FIELD CONDITIONS FOR SPECIFIC LOCATIONS OF UTILITIES, STRUCTURES, ETC. AND NOTIFY THE PROJECT PROFESSIONAL IN REFERENCE TO ANY DISCREPANCIES OR LOCATION CONFLICTS PRIOR TO PLANTING INSTALLATION.
2. ALL PLANT MATERIAL SHALL CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1 CURRENT EDITION. THE PLANT MATERIAL SHALL BE TRUE TO SPECIES, VARIETY, SIZE AND BE CERTIFIED DISEASE AND INSECT FREE. THE PROJECT PROFESSIONAL RESERVES THE RIGHT TO REJECT PLANT MATERIAL WHEN DELIVERED TO THE SITE AND UP TO THE TIME OF FINAL ACCEPTANCE.
3. NO PLANT SUBSTITUTIONS SHALL BE PERMITTED WITH REGARDS TO SIZE, SPECIES VARIETY, ETC. WITHOUT WRITTEN PERMISSION OF THE PROJECT PROFESSIONAL. WRITTEN PROOF OF PLANT MATERIAL UNAVAILABILITY MUST BE PROVIDED.
4. LOCATION AND SPACING FOR PROPOSED VEGETATION IS AS SHOWN ON LANDSCAPE PLANS. FINAL ADJUSTMENTS TO BE MADE IN THE FIELD AND AS DIRECTED BY PROJECT PROFESSIONAL TO REFLECT EXISTING SITE CONDITIONS.
5. THE PLANTING PLAN SHALL TAKE PRECEDENCE OVER THE PLANT SCHEDULE SHOULD ANY PLANT QUANTITY DISCREPANCIES OCCUR.
6. ALL PLANT MATERIAL SHALL BE PLANTED IN CONFORMANCE WITH THE TYPICAL PLANTING DETAILS AND ACCEPTED HORTICULTURAL PRACTICES. INSTALL ALL PLANT MATERIAL ON UNDISTURBED GRADE. CUT AND REMOVE BURLAP FROM THE TOP ONE-THIRD OF THE ROOT BALL. NO SYNTHETIC MATERIAL IS TO REMAIN IN PLANTING HOLE. SEE DETAIL SHEET FOR PLANTING DETAILS.
7. PROJECT PROFESSIONAL SHALL HAVE FINAL ACCEPTANCE OF ALL PLANT MATERIAL.
8. PLANT ROOT FLAIR SHALL BE EXPOSED AT TIME OF PLANTING. PLANTS SHALL BE INSTALLED AT SAME GRADE AS GROWN IN NURSERY.
9. NEWLY INSTALLED PLANT MATERIAL SHALL BE THOROUGHLY WATERED AT THE TIME OF INSTALLATION BY THE LANDSCAPE CONTRACTOR. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR THE REGULAR WATERING OF PLANT MATERIAL UNTIL IRRIGATION SYSTEM HAS BEEN INSTALLED AND OPERATING NORMALLY.
10. ALL PLANT MATERIAL SHALL BE GUARANTEED BY THE CONTRACTOR FOR TWO (2) YEAR AFTER THE DATE OF FINAL ACCEPTANCE.
11. ALL DISTURBED AREAS SHALL RECEIVE TEMPORARY AND PERMANENT STABILIZATION DEPENDING UPON STAGE OF WORK AND TIME OF YEAR (REFER TO N.J. SOIL EROSION AND SEDIMENT CONTROL REGULATIONS).
12. WIRE BASKETS ARE TO BE CUT AND FOLDED TO BOTTOM OF PLANTING HOLE AWAY FROM SIDES OF ROOT BALL.
13. PROVIDE SUSTAINED RELEASE 5-10-5 FERTILIZER FOR ALL PLANT MATERIAL IN QUANTITIES AS PER MANUFACTURES RECOMMENDATIONS. THOROUGHLY MIX IN TOP 12" OF ALL PLANTING AREAS.
14. ALL PLANTS ARE SHOWN SEMI-MATURE SIZE ON PLANS. SIZES INDICATED IN PLANT LIST ARE SIZES AT TIME OF INSTALLATION.
15. PLANTING PITS ARE TO BE 3X ROOT BALL DIAMETER.
16. TREES TO BE HANDLED BY ROOT BALL ONLY. HANDLING OF TREES BY THE TRUNK OR THE PLACING OF STRAPS AROUND THE TRUNK WILL BE CAUSE FOR IMMEDIATE REJECTION OF PLANT MATERIAL.
17. TREES ARE TO BE LABELED WITH PERMANENT TAG. LABEL TO INCLUDE BOTANICAL NAME AND DATE OF INSTALLATION.
18. ALL DISTURBED AREAS TO BE RESTORED TO THE SATISFACTION OF THE PROJECT PROFESSIONAL.
19. TREES TO BE INSTALLED WITH SAME ORIENTATION AS AT PLACE GROWN. NORTH SIDE OF TREE TO BE IDENTIFIED PRIOR TO DIGGING.
20. CONTRACTOR IS RESPONSIBLE FOR THE INITIAL PRUNING OF TREES. PRUNING TO BE LIMITED TO CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED; HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.
21. CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF TREE STAKES 1 YEAR FROM THE DATE OF FINAL ACCEPTANCE.
22. CONTRACTOR TO PROVIDE WATERING BAGS FOR ALL PROPOSED SHADE TREES

N.J.P.C.S.

GRAPHIC SCALE
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(IN FEET)
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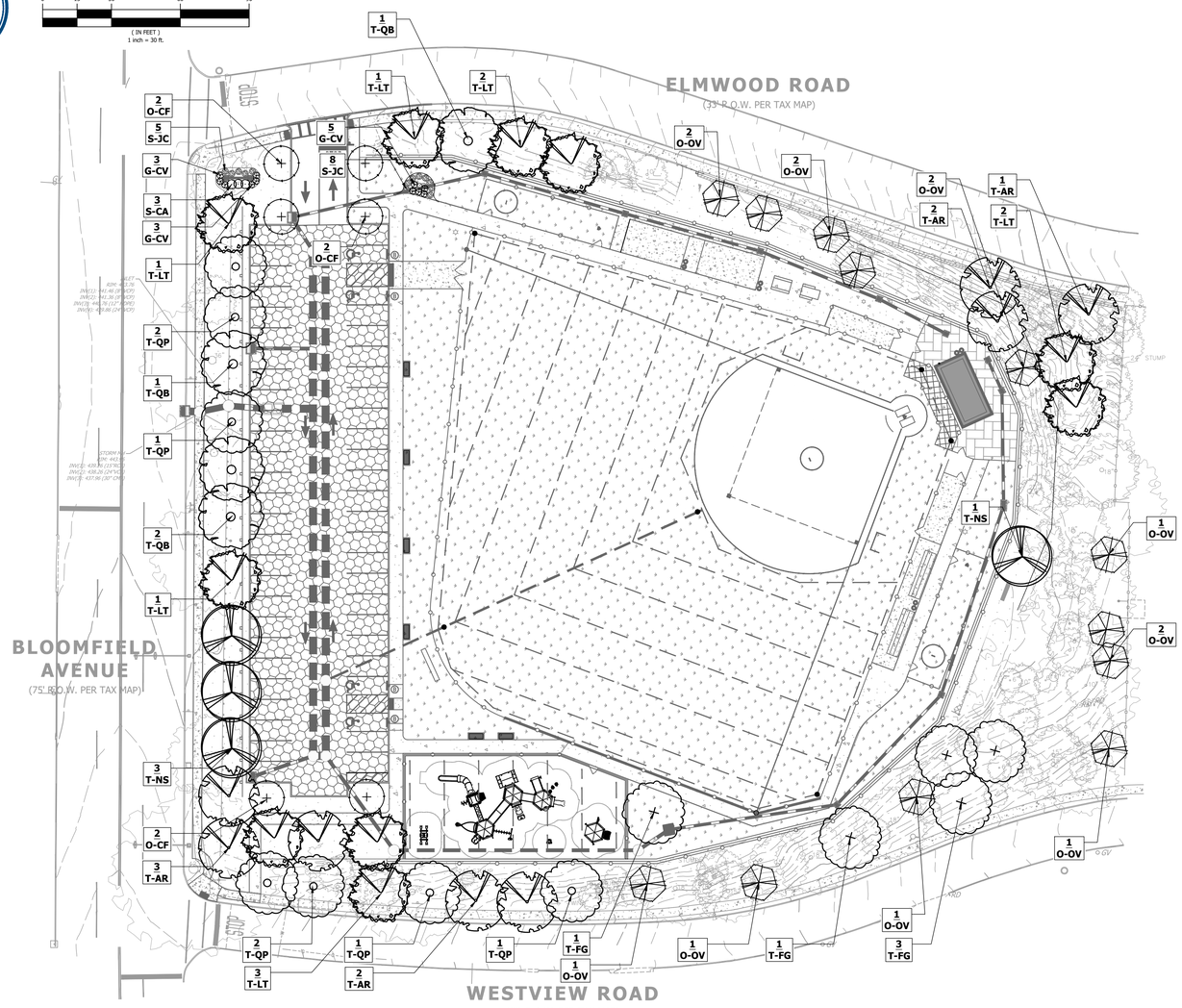

GENERAL NOTES

1. EXISTING CONDITIONS AS PER PLAN ENTITLED, " TOPOGRAPHIC SURVEY, EVERETT PARK, BLOCK 707 LOT 10, TOWNSHIP OF VERONA, ESSEX COUNTY, NEW JERSEY," PREPARED BY NEGLIA ENGINEERING ASSOCIATES, DATED JUNE 6, 2023.

PLANTING SCHEDULE

SYMBOL	KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
TREES						
	T-AR	8	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE	3"-3 ½" cal.	Shade tree. B & B
	T-FG	5	FAGUS GRANDIFOLIA	AMERICAN BEECH	3"-3 ½" cal.	Shade tree. B & B
	T-LT	10	LIRIODENDRON TULIPFERA	TULIPTREE	3"-3 ½" cal.	Shade tree. B & B
	T-NS	4	NYSSA SYLVATICA	BLACK GUM	3"-3 ½" cal.	Shade tree. B & B
	T-QB	4	QUERCUS BICOLOR	SWAMP WHITE OAK	2 ½"-3" cal.	Columnar shade tree. B & B
	T-QP	7	QUERCUS PHELLOS	WILLOW OAK	3"-3 ½" cal.	Shade tree. B & B
ORNAMENTAL TREES						
	O-CF	6	CORNUS FLORIDA	WHITE DOGWOOD	7'-8' height	Fragrant white flowers in spring. B & B
	O-OV	12	OSTRYA VIRGINIANA	HOPHORNBEAM	7'-8' height	Fragrant white flowers in spring. B & B
SHRUBS						
	S-CA	3	CEANOTHUS AMERICANUS	NEW JERSEY TEA	3 gallon	18-24" ht. at time of planting
	S-JC	13	JUNIPERUS CONFERTA	SHORE JUNIPER	3 gallon	Low growing evergreen, 10-12" ht. at time of planting
GRASSES						
	G-CV	11	CAREX VULPINOIDEA	FOX SEDGE	3 gallon	Ornamental grass, 18" - 24" ht. at time of planting

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NO.	DATE	REVISION	DRAWN	DESIGNED	CHECKED

FINAL

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EVERETT PARK IMPROVEMENTS

BLOCK 707 - LOT 10
TOWNSHIP OF VERONA
COUNTY OF ESSEX
STATE OF NEW JERSEY

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PROFESSIONAL PLANNER N.J. LICENSE NO. 33LI00614500

MATEO F. LUZURIAGA, PE
PROFESSIONAL ENGINEER
N.J. LICENSE NO. 24GE06029800

LANDSCAPE PLAN

DRAWN BY:	M.F.L.	SCALE:	AS NOTED
DESIGNED BY:	M.F.L.	CHECKED BY:	A.K.
PROJECT NO.:	VEROMUN24.010		7.00
DATE:	NOVEMBER 2024		

CERTIFICATE OF AUTHORIZATION (N.J.S.A. 45:8-56) 24GA27927000

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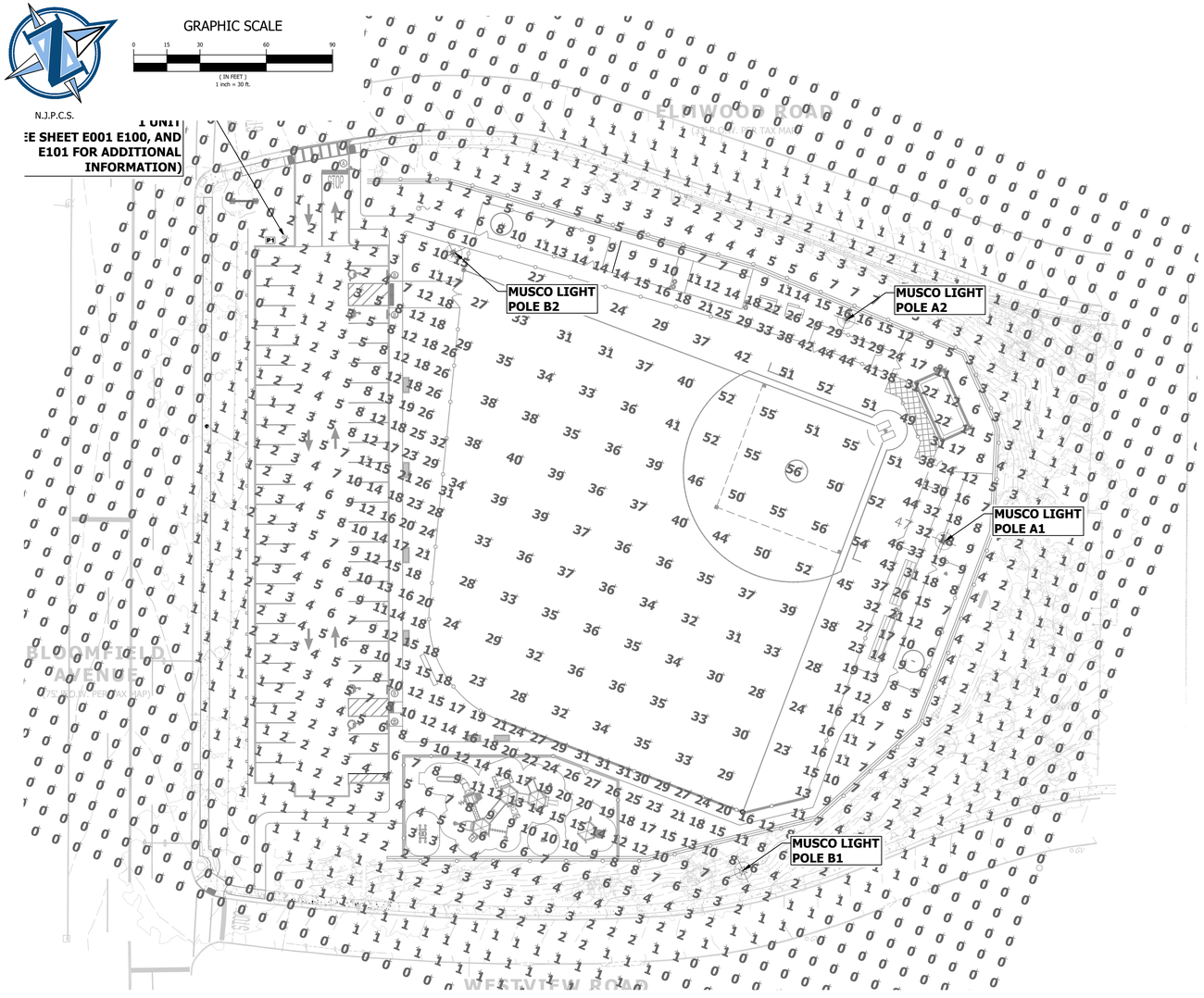
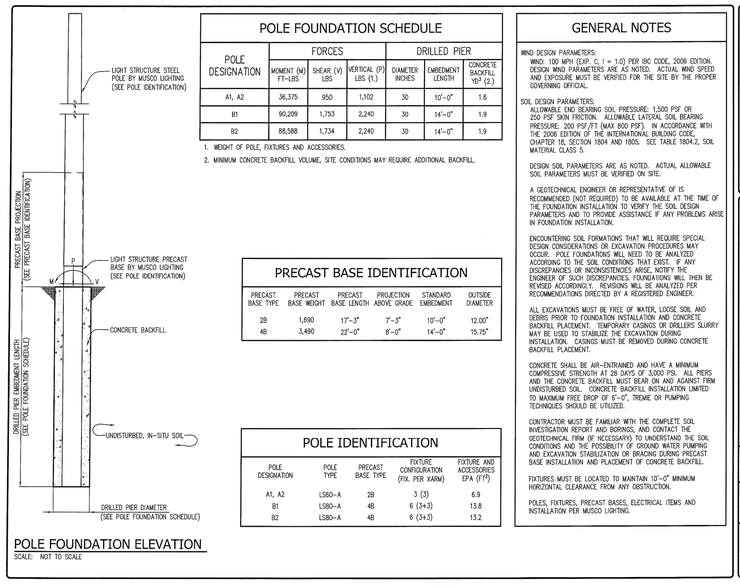
E SHEET E001 E100, AND
E101 FOR ADDITIONAL
INFORMATION)



Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A1-A2	60'	-	60'	TLC-LED-900	3	3	0
				15.5'	TLC-BT-575	1	1	0
1	B1	80'	5'	85'	TLC-LED-1200	5	5	0
				20.5'	TLC-BT-575	1	1	0
1	B2	80'	-	80'	TLC-LED-1200	5	5	0
				15.5'	TLC-BT-575	1	1	0
4	Totals					20	20	0

*Above Grade level relative to the field



POLE FOUNDATION ELEVATION
SCALE: NOT TO SCALE

POLE FOUNDATION SCHEDULE

POLE DESIGNATION	FORCES			DRILLED PIER		
	MOMENT (M) FT-LBS	SHEAR (V) LBS	VERTICAL (P) LBS (1.)	DIAMETER INCHES	EMBEDMENT LENGTH	CONCRETE BACKFILL YD³ (2.)
A1, A2	36,375	950	1,102	30	10'-0"	1.6
B1	90,209	1,753	2,240	30	14'-0"	1.9
B2	88,588	1,734	2,240	30	14'-0"	1.9

1. WEIGHT OF POLE, FIXTURES AND ACCESSORIES.
2. MINIMUM CONCRETE BACKFILL VOLUME, SITE CONDITIONS MAY REQUIRE ADDITIONAL BACKFILL.

PRECAST BASE IDENTIFICATION

PRECAST BASE TYPE	PRECAST BASE WEIGHT	PRECAST BASE LENGTH	PROJECTION ABOVE GRADE	STANDARD EMBEDMENT	OUTSIDE DIAMETER
2B	1,690	17'-3"	7'-3"	10'-0"	12.00"
4B	3,490	22'-0"	8'-0"	14'-0"	15.75"

POLE IDENTIFICATION

POLE DESIGNATION	POLE TYPE	PRECAST BASE TYPE	FIXTURE CONFIGURATION (FIX. PER XARM)	FIXTURE AND ACCESSORIES EPA (FT²)
A1, A2	LS60-A	2B	3 (3)	6.9
B1	LS80-A	4B	6 (3+3)	13.8
B2	LS80-A	4B	6 (3+3)	13.2

GENERAL NOTES

WIND DESIGN PARAMETERS:
WIND: 100 MPH (EXP. C, I = 1.0) PER IBC CODE, 2006 EDITION. DESIGN WIND PARAMETERS ARE AS NOTED. ACTUAL WIND SPEED AND EXPOSURE MUST BE VERIFIED FOR THE SITE BY THE PROPER GOVERNING OFFICIAL.

SOIL DESIGN PARAMETERS:
ALLOWABLE END BEARING SOIL PRESSURE: 1,500 PSF OR 250 PSF SKIN FRICTION. ALLOWABLE LATERAL SOIL BEARING PRESSURE: 200 PSF/FT (MAX 800 PSF). IN ACCORDANCE WITH THE 2006 EDITION OF THE INTERNATIONAL BUILDING CODE, CHAPTER 18, SECTION 1804 AND 1805. SEE TABLE 1804.2, SOIL MATERIAL CLASS 5.

DESIGN SOIL PARAMETERS ARE AS NOTED. ACTUAL ALLOWABLE SOIL PARAMETERS MUST BE VERIFIED ON SITE.

A GEOTECHNICAL ENGINEER OR REPRESENTATIVE OF IS RECOMMENDED (NOT REQUIRED) TO BE AVAILABLE AT THE TIME OF THE FOUNDATION INSTALLATION TO VERIFY THE SOIL DESIGN PARAMETERS AND TO PROVIDE ASSISTANCE IF ANY PROBLEMS ARISE IN FOUNDATION INSTALLATION.

ENCOUNTERING SOIL FORMATIONS THAT WILL REQUIRE SPECIAL DESIGN CONSIDERATIONS OR EXCAVATION PROCEDURES MAY OCCUR. POLE FOUNDATIONS WILL NEED TO BE ANALYZED ACCORDING TO THE SOIL CONDITIONS THAT EXIST. IF ANY DISCREPANCIES OR INCONSISTENCIES ARISE, NOTIFY THE ENGINEER OF SUCH DISCREPANCIES. FOUNDATIONS WILL THEN BE REVISED ACCORDINGLY. REVISIONS WILL BE ANALYZED PER RECOMMENDATIONS DIRECTED BY A REGISTERED ENGINEER.

ALL EXCAVATIONS MUST BE FREE OF WATER, LOOSE SOIL AND DEBRIS PRIOR TO FOUNDATION INSTALLATION AND CONCRETE BACKFILL PLACEMENT. TEMPORARY CASINGS OR DRILLERS SLURRY MAY BE USED TO STABILIZE THE EXCAVATION DURING INSTALLATION. CASINGS MUST BE REMOVED DURING CONCRETE BACKFILL PLACEMENT.

CONCRETE SHALL BE AIR-ENTRAINED AND HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 3,000 PSI. ALL PIERS AND THE CONCRETE BACKFILL MUST BEAR ON AND AGAINST FIRM UNDISTURBED SOIL. CONCRETE BACKFILL INSTALLATION LIMITED TO MAXIMUM FREE DROP OF 6'-0", TREMIE OR PUMPING TECHNIQUES SHOULD BE UTILIZED.

CONTRACTOR MUST BE FAMILIAR WITH THE COMPLETE SOIL INVESTIGATION REPORT AND BORINGS, AND CONTACT THE GEOTECHNICAL FIRM (IF NECESSARY) TO UNDERSTAND THE SOIL CONDITIONS AND THE POSSIBILITY OF GROUND WATER PUMPING AND EXCAVATION STABILIZATION OF BRACING DURING PRECAST BASE INSTALLATION AND PLACEMENT OF CONCRETE BACKFILL.

FIXTURES MUST BE LOCATED TO MAINTAIN 10'-0" MINIMUM HORIZONTAL CLEARANCE FROM ANY OBSTRUCTION.

POLES, FIXTURES, PRECAST BASES, ELECTRICAL ITEMS AND INSTALLATION PER MUSCO LIGHTING.

musco SPORTS LIGHTING, LLC.
2107 STEWART ROAD
MUSCATINE, IOWA 52761
563-263-2281

LIGHT STANDARD FOUNDATIONS
EVERETT PARK
FIELD LIGHTING
VERONA NEW JERSEY

OLSON ENGINEERING, LLC
114 NICHOLAS DRIVE
MARSHALLTOWN IOWA 50158
CERTIFICATE OF AUTHORIZATION NO. 24GA07800
TELEPHONE NUMBER: 641-752-5353
DRAWING NO. 143870
SHT. NO. 1 OF 1
DATE: JANUARY 24, 2025
SCALE: AS NOTED
DRAWN BY: M.K.
CHECKED BY: K.L.
DESIGNED BY: K.L.
APPROVED BY: K.L.
KYLE G. LACINA
1-21-2010
NEW JERSEY PROFESSIONAL ENGINEER NO. 40143

NO. | DATE | REVISION | DRAWN | DESIGNED | CHECKED

FINAL

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EVERETT PARK IMPROVEMENTS

BLOCK 707 - LOT 10
TOWNSHIP OF VERONA
COUNTY OF ESSEX
STATE OF NEW JERSEY

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N.J. LICENSE NO. 24GE04644500
PROFESSIONAL PLANNER
N.J. LICENSE NO. 33LI00614500

MATEO F. LUZURIAGA, PE
PROFESSIONAL ENGINEER
N.J. LICENSE NO. 24GE06029800

LIGHTING PLAN

DRAWN BY:	M.F.L.	SCALE:	AS NOTED
DESIGNED BY:	M.F.L.	CHECKED BY:	A.K.
PROJECT NO.:	VEROMUN24.010		8.00
DATE:	NOVEMBER 2024		

Musco Light Fixture Type Summary

Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-BT-575	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	4
TLC-LED-1200	LED 5700K - 75 CRI	1170W	150,000	>120,000	>120,000	>120,000	10
TLC-LED-900	LED 5700K - 75 CRI	880W	104,000	>120,000	>120,000	>120,000	6

GRP LUMINAIRE SCHEDULE

Qty	Type	Arrangement	Symbol	Manufacturer	Light Fixture Spec	CCT	Lum. Lumens	LLF	Lum. Watts	Arr. Watts	Pole/Bracket Spec	Mounting AFG (FT)
1	P1	Single	●	SUN VALLEY	DS8A-PLED-II-20LED-525mA-30K-VOLTS-1-RAL-9005-T-HS-PLED-MS8-TPR7(MOD BRKT) w/ NXOFM-1R1D-UNV & WSPD-LWO-EM-UNV-BK/WSP-LWO-L180-BK	3000K	3420	0.900	35.5	35.5	43-1040-14'-PT27/GFI-RFH-1/2"COUPLING(OCC SENSOR)-RAL-9005-T & XPL-1-MOD CAP (7PIN)-RAL-9005-T	14

SITE LIGHTING CONTROLS (P1 ONLY)

1. EACH POLE SETUP TO BE EQUIPPED WITH NX BLUETOOTH WIRELESS-MESH CONTROL SYSTEM.
2. CONTROL SYSTEM IS TO BE ACCESSIBLE VIA IOS APP FOR PROGRAMMING.
3. EACH SITE POLE TO HAVE AN OCCUPANCY SENSOR TO PROVIDE CONTROL BASED ON MOTION.
4. NX CONTROL MODULE TO HAVE PHOTOCELL CAPBABILITY AS WELL AS A BUILT-IN TIME KEEPER FUNCTIONALITY TO ALLOW FOR SCHEDULING DIMMING EVENTS BASED ON TIME OF DAY.
5. ALL SITE LIGHTS TO TURN ON AT DUSK AND OFF AT DAWN.
6. LIGHTS TO REMAIN FULL BRIGHTNESS UNIT 12 A.M., AT WHICH TIME THE LIGHTS WILL DIM TO 50% OUTPUT UNTIL DAWN.
7. ANY MOTION DETECTED ON SITE AFTER 12 A.M. WILL KICK THE POWER UP TO 100% BRIGHTNESS. AFTER A DURATION OF 15 MINUTES WITH NO MOTION DETECTION, THE LIGHTS WILL RESUME BACK TO THE DIMMED 50% STATE.
8. MULTIPLE LIGHT FIXTURES TO BE GROUPED TOGETHER INTO ZONES BASED ON AREA AND TRAFFIC PATTERNS. MOTION DETECTION WILL ACTIVATE THE ENTIRE ZONE, NOT THE INDIVIDUAL FIXTURE, TO ENSURE UNIFORM COVERAGE IN THE AREA.

LIGHTING NOTES (FOR P1 ONLY)

1. LIGHT FIXTURES AND POLES SHALL BE AS SHOWN OR APPROVED EQUAL.
2. THE CONTRACTOR'S BID SHALL INCLUDE ALL EQUIPMENT, MATERIALS, LABOR, ETC. TO PROVIDE A COMPLETE AND OPERATING SITE LIGHTING SYSTEM INCLUDING, BUT NOT LIMITED TO: LIGHTS, POLES, POLE FOUNDATIONS, TRANSFORMERS, DISTRIBUTION PANELS, CIRCUIT BOXES, CONTROL, SWITCHES, WIRE, CONDUIT AND PULL BOXES, AND LIGHTING CONTROL PANEL AND ELECTRICAL SERVICE.
3. THE CONTRACTOR SHALL INCLUDE IN THEIR PRICING ALL PROFESSIONAL SERVICES TO PROVIDE DETAILED ELECTRICAL DESIGNS AND DETAILS SUITABLE FOR OBTAINING BUILDING PERMITS AND CONSTRUCTION OF THE PROPOSED LIGHTING SYSTEM COMPLETE.
4. PROPOSED LIGHTING SYSTEM SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS AND ALL TOWNSHIP REQUIREMENTS FOR SITE LIGHTING.
5. LIGHT CONTROLS LOCATED WITHIN CONCESSION BUILDING IN ACCORDANCE WITH PSE&G AND ELECTRICAL CODE REQUIREMENTS WITH LOCATION TO BE COORDINATED WITH PSE&G AND BOROUGH.
6. ALL LIGHT SOURCES SHALL BE SHIELDED AND POSITIONED TO PREVENT GLARE FROM BECOMING A HAZARD OR NUISANCE OR HAVE A NEGATIVE IMPACT ON SITE USERS, ADJACENT PROPERTIES, OR THE TRAVELING PUBLIC. LIGHTS SHALL CONTAIN BACKLIGHT CONTROL TO PREVENT SPILL LIGHTING ONTO ADJACENT PROPERTIES.
7. ALL LIGHT SOURCES SHALL BE ARRANGED TO REFLECT AWAY FROM ADJACENT PROPERTIES.
8. POLES SHALL BE AS SHOWN ON THE LUMINAIRE SCHEDULE OR APPROVED EQUAL. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS CERTIFIED BY MANUFACTURER'S ENGINEER FOR WIND RATING (90MPH). POLE COLOR TO BE BLACK OR AS APPROVED BY BOROUGH OF BOGOTA PRIOR TO ORDERING.
9. SITE LIGHTING SHALL BE ON A TIMER AND SHALL BE IN ACCORDANCE WITH ALL ON/OFF TIMING REQUIREMENTS FOR SITE LIGHTING.
10. CONTRACTOR SHALL COORDINATE ELECTRICAL SERVICE WITH PSE&G AND THE COST TO PROVIDE NEW ELECTRICAL SERVICE, METER,PULL BOXES, CONDUIT, WIRE, AND ALL ELSE NECESSARY TO PROVIDE FULLY OPERATIONAL LIGHTING SYSTEM SHALL BE INCLUDED IN THE BID PRICE.
11. SUBISITIONS WITHOUT SUPPORTING PHOTOMETRIC ANALYSIS WILL NOT BE REVIEWED.
12. SEE ELECTRICAL DESIGN BY MEP ENGINEER FOR ENERGIZING OF EXTERIOR SITE LIGHTING.

FIELD LIGHTING POLE FOUNDATIONS

NOT TO SCALE

NOTE:
1. CONTRACTOR TO CONSTRUCT NEW POLE FOUNDATIONS FOR A1 AND A2.
2. CONTRACTOR SHALL CONSTRUCT POLE FOUNDATION IN ACCORDANCE WITH MUSCO LIGHT STANDARD POLE FOUNDATION.
3. THE COST FOR ALL WORK, LABOR, EQUIPMENT, ETC. FOR THE COMPLETE CONSTRUCTION OF THE MUSCO POLE FOUNDATION SHALL BE INCLUDED IN THE ITEM: SPORTS LIGHTING LIGHT STRUCTURE RETROFIT COMPLETE SYSTEM UPGRADE.

GENERAL NOTES

1. EXISTING CONDITIONS AS PER PLAN ENTITLED, " TOPOGRAPHIC SURVEY, EVERETT PARK, BLOCK 707 LOT 10, TOWNSHIP OF VERONA, ESSEX COUNTY, NEW JERSEY," PREPARED BY NEGLIA ENGINEERING ASSOCIATES, DATED JUNE 6, 2023.

MUSCO LIGHTING NOTES

1. THE SCOPE OF WORK FOR THE SPORTS LIGHTING STRUCTURE RETROFIT COMPLETE SYSTEM UPGRADES INCLUDES REPLACING THE EXISTING MUSCO LUMINAIRE FIXTURES WITH NEW NEW MUSCO LUMINARIES FIXTURES ON THE EXISTING LIGHT POLES A1, A2, B1 AND B2, RELOCATING POLE A1 AND A2 WITH NEW POLE FOUNDATIONS, INSTALLATION OF LIGHTING CONTROLS, AND ELECTRIFICATION OF SPORTS LIGHTING SYSTEM.
2. THE WORK FOR CONSTRUCTING THE NEW POLE FOUNDATION INCLUDING BUT NOT LIMITED TO CONCRETE FOUNDATION, EXCAVATION AND DISPOSAL OF MATERIAL, RE-ASSEMBLING THE STEEL LIGHT POLE, REPLACING THE EXISTING MUSCO LUMINARIES WITH NEW LUMINARIES ON THE LIGHT POLES, INSTALLATION OF LIGHTING CONTROL PANEL, AND ELECTRIFICATION OF THE SPORTS SYSTEM SHALL BE INCLUDED IN THE PRICE FOR THE ITEM: SPORTS LIGHTING LIGHT STRUCTURE RETROFIT COMPLETE SYSTEM UPGRADE.
3. THE CONTRACTOR SHALL INSTALL THE SPORTS LIGHTING CONTROL PANEL IN THE CONCESSION BUILDING AS SHOWN ON THE ELECTRICAL PLAN SHEET E101. CONTRACTOR SHALL COORDINATE INSTALLATION OF LIGHTING CONTROLS WITH VSBL CONTRACTORS (OTHERS).
4. SEE ELECTRICAL DESIGN BY MEP ENGINEER FOR ENERGIZING OF SPORTS SITE LIGHTING.

CERTIFICATE OF AUTHORIZATION (N.J.S.A. 45:8-56) 24GA27927000

DEED

GRAPHIC SCALE

0 10 20 40 60

(IN FEET)
1 inch = 20 ft.

SOIL DECOMPACTION 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 AN "URBAN DEVELOPMENT" AND IS DEFINED BY NJDEP AS "PREVIOUSLY DEVELOPED".

GENERAL NOTES

1. EXISTING CONDITIONS AS PER PLAN ENTITLED, " TOPOGRAPHIC SURVEY, EVERETT PARK, BLOCK 707 LOT 10, TOWNSHIP OF VERONA, ESSEX COUNTY, NEW JERSEY," PREPARED BY NEGLIA ENGINEERING ASSOCIATES, DATED JUNE 6, 2023.

RESTORATION OF DISTURBED AREAS

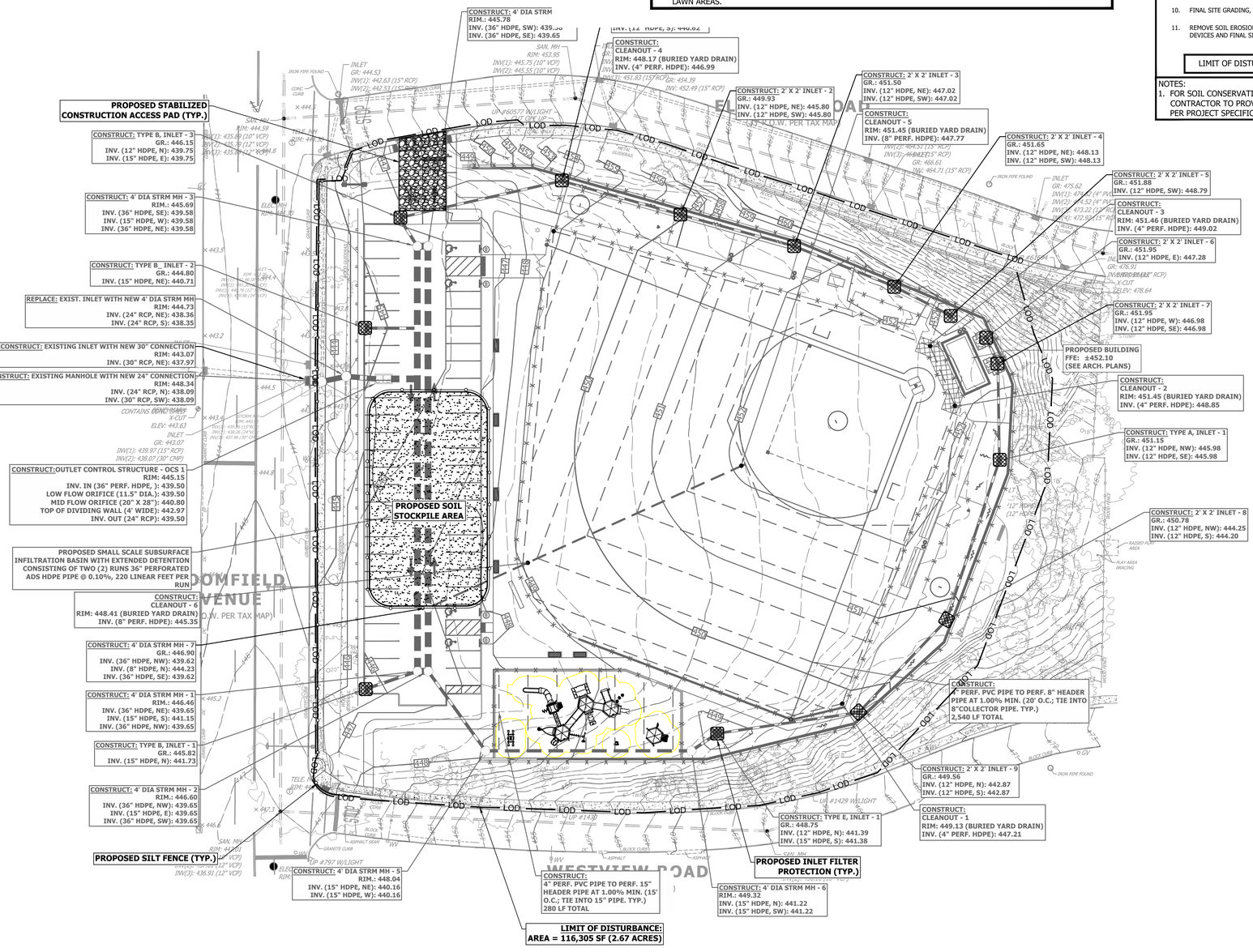
1. ALL VEGETATED AREAS WITHIN THE DISTURBED LIMITS OF THE PROJECT SHALL RECEIVE TOPSOIL, FERTILIZER, HYDRO-SEEDING OR SOD AND MULCH PER PLANS. ALL SEEDED AREAS SHALL BE MULCHED WITH SALT HAY, PENN MULCH, OR APPROVED EQUAL. SEE SPECIFICATIONS FOR SOD, LAWN, TOPSOIL DETAILS.
2. TOPSOIL SHALL BE SCREENED TOPSOIL SHALL CONTAIN NO STONES, LUMPS, ROOTS, OR SIMILAR OBJECTS LARGER THAN 1/2 INCH IN ANY DIMENSION, AND SHALL HAVE A PH VALUE OF NOT LESS THAN 5.8. WHEN THE PH VALUE OF THE TOPSOIL IS LESS THAN 5.8, IT SHALL BE INCREASED BY APPLYING GROUND LIMESTONE AT A RATE NECESSARY TO ATTAIN A PH VALUE OF 6.5. TOPSOIL SHALL BE INSPECTED AND APPROVED BY THE PROJECT LANDSCAPE ARCHITECT OR ENGINEER PRIOR TO PLACEMENT. ANY TOPSOIL IMPORTED FOR CONSTRUCTION SHALL BE CERTIFIED CLEAN. WHEN THE ORGANIC CONTENT OF THE TOPSOIL FURNISHED FROM SOURCES OUTSIDE THE LIMITS OF THE PROJECT IS LESS THAN 2.75 PERCENT, IT SHALL BE INCREASED BY ADDING PEAT AT A RATE NECESSARY TO ATTAIN THIS MINIMUM ORGANIC CONTENT. THE ORGANIC CONTENT OF SOILS SHALL BE DETERMINED BY THE LABORATORY USING THE CHROMIC ACID TITRATION METHOD, AS DESCRIBED IN THE UNITED STATES DEPARTMENT OF AGRICULTURE'S CIRCULAR 757. ALL LABORATORY TESTING REPORTS SHALL BE SUBMITTED TO THE PROJECT LANDSCAPE ARCHITECT OR ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. THE GRADATION OF THE TOPSOIL FURNISHED FROM SOURCES OUTSIDE THE LIMITS OF THE PROJECT SHALL BE DETERMINED BY THE LABORATORY, USING THE BOUYOUCOS HYDROMETER ANALYSIS CONFORMING TO THE REQUIREMENTS OF CURRENT A.A.S.H.O. DESIGNATION T88.
3. CONTRACTOR SHALL WATER SEEDED/SODDED AREAS DAILY AND AS REQUIRED TO ESTABLISH NEW TURF/MEADOW LAWN AREAS.

SEQUENCE OF CONSTRUCTION

1.	INSTALL STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE, AND INLET FILTERS AT EXISTING INLETS	1 DAY
2.	REMOVE & STOCKPILE TOPSOIL, SITE CLEARING	5 DAYS
3.	ROUGH GRADE SITE	2 WEEKS
4.	CONSTRUCT ON-SITE DRAINAGE SYSTEM	1 MONTH
5.	CONSTRUCT UTILITY CONNECTIONS	2 MONTH
6.	INSTALL INLET FILTERS AT NEW INLETS AND AREA DRAINS	1 DAY
7.	CONSTRUCT PROPOSED BUILDING AND FIELD EQUIPMENT	6 MONTHS
8.	CONSTRUCT SIDEWALKS, CURBS, PAVEMENT	3 WEEKS
9.	CONSTRUCT BASEBALL FIELD, LANDSCAPING, LIGHTING AND PLAYGROUND	3 WEEK
10.	FINAL SITE GRADING, TOPSOING AND SODDING	2 WEEK
11.	REMOVE SOIL EROSION & SEDIMENT CONTROL DEVICES AND FINAL SITE CLEANUP	2 WEEK
		52 WEEKS

LIMIT OF DISTURBANCE = 116,305 SF (2.67 AC)

NOTES:
1. FOR SOIL CONSERVATION DISTRICT SUBMISSION ONLY. CONTRACTOR TO PROVIDE DETAILED CONSTRUCTION SCHEDULE PER PROJECT SPECIFICATIONS.



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NO.	DATE	REVISION	DRAWN	DESIGNED	CHECKED
1.	03/07/2025	REVISIONS AS PER HSPSCD COMMENTS	M.F.L.	M.F.L.	A.K.

FINAL

A PRODUCT OF

NEGLIA GROUP

EVERETT PARK IMPROVEMENTS

BLOCK 707 - LOT 10
TOWNSHIP OF VERONA
COUNTY OF ESSEX
STATE OF NEW JERSEY

ANTHONY KURUS, PE, PP
PROFESSIONAL ENGINEER
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MATEO F. LUZURIAGA, PE
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N.J. LICENSE NO. 24GE06029800

SESC PLAN

DRAWN BY:	M.F.L.	SCALE:	AS NOTED
DESIGNED BY:	M.F.L.	CHECKED BY:	A.K.
PROJECT NO.:	VEROMUN24.010		9.00
DATE:	NOVEMBER 2024		

CERTIFICATE OF AUTHORIZATION (N.J.S.A. 45:8-56) 24GA27927000

HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT SOIL EROSION & SEDIMENT CONTROL NOTES

1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THIS PLAN WILL BE CONSTRUCTED IN ACCORDANCE WITH THE "NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL" 7TH EDITION LAST REVISED JULY 2017, EFFECTIVE DECEMBER 2017. THESE MEASURES WILL BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE OR IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
2. SOIL TO BE EXPOSED OR STOCKPILED FOR A PERIOD OF GREATER THAN 14 DAYS, AND NOT UNDER ACTIVE CONSTRUCTION, MAY BE REQUIRED TO BE TEMPORARILY MULCHED, AND SEEDED OR OTHERWISE PROVIDED WITH VEGETATIVE COVER AS PER APPENDIX A3. THIS TEMPORARY COVER SHALL BE MAINTAINED UNTIL SUCH TIME WHEREBY PERMANENT RESTABILIZATION IS ESTABLISHED.
3. SEEDING DATES: THE FOLLOWING SEEDING DATES ARE RECOMMENDED TO BEST ESTABLISH PERMANENT VEGETATIVE COVER WITHIN MOST LOCATIONS IN THE HEPSCD: SPRING - 3/1-5/15 AND FALL - 8/15 - 10/1
4. SEDIMENT FENCES ARE TO BE PROPERLY TRENCHED AND MAINTAINED UNTIL PERMANENT VEGETATIVE COVER IS ESTABLISHED
5. ALL STORM DRAINAGE INLETS SHALL BE PROTECTED BY ONE OF THE PRACTICES ACCEPTED IN THE STANDARDS, AND PROTECTION SHALL REMAIN UNTIL PERMANENT STABILIZATION HAS BEEN ESTABLISHED. STORM DRAINAGE OUTLET POINTS SHALL BE PROTECTED AS REQUIRED BEFORE THEY BECOME FUNCTIONAL.
6. MULCH MATERIALS SHALL BE UN-ROTTED SMALL GRAIN STRAW APPLIED AT THE RATE OF 70 TO 90 POUNDS PER 1,000 SQUARE FEET AND ANCHORED WITH A MULCH ANCHORING TOOL, LIQUID MULCH BINDERS, OR NETTING TIE DOWN. OTHER SUITABLE MATERIALS MAY BE USED IF APPROVED BY THE SOIL CONSERVATION DISTRICT.
7. ALL EROSION CONTROL DEVICES SHALL BE PERIODICALLY INSPECTED, MAINTAINED AND CORRECTED BY THE CONTRACTOR. ANY DAMAGE INCURRED BY EROSION SHALL BE RECTIFIED IMMEDIATELY.
8. THE HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT WILL BE NOTIFIED IN WRITING AT LEAST 48 HOURS PRIOR TO ANY SOIL DISTURBING ACTIVITIES. FAX - (862) 333-4507 OR EMAIL - INFORMATION@HEPSCD.ORG.
9. **THE APPLICANT MUST OBTAIN A DISTRICT ISSUED REPORT-OF-COMPLIANCE PRIOR TO APPLYING FOR THE CERTIFICATE OF OCCUPANCY OR TEMPORARY CERTIFICATE OF OCCUPANCY FROM THE RESPECTIVE MUNICIPALITY, NJ - DCA OR ANY OTHER CONTROLLING AGENCY.** CONTACT THE DISTRICT AT 862-333-4505 TO REQUEST A FINAL INSPECTION, GIVING ADVANCED NOTICE UPON COMPLETION OF THE RESTABILIZATION MEASURES. A PERFORMANCE DEPOSIT MAY BE POSTED WITH THE DISTRICT WHEN WINTER WEATHER OR SNOW COVER PROHIBITS THE PROPER APPLICATION OF SEED, MULCH, FERTILIZER OR HYDRO-SEED.
10. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES. DO NOT UTILIZE A FIRE OR GARDEN HOSE TO CLEAN ROADS UNLESS THE RUNOFF IS DIRECTED TO A PROPERLY DESIGNED AND FUNCTIONING SEDIMENT BASIN. WATER PUMPED OUT OF THE EXCAVATED AREAS CONTAINS SEDIMENTS THAT MUST BE REMOVED PRIOR TO DISCHARGING TO RECEIVING BODIES OF WATER USING REMOVABLE PUMPING STATIONS, SUMP PITS, PORTABLE SEDIMENTATION TANKS AND/OR SILT CONTROL BAGS.
11. ALL SURFACES HAVING LAWN OR LANDSCAPING AS FINAL COVER ARE TO BE PROVIDED TOPSOIL PRIOR TO RE-SEEDING, SODDING OR PLANTING. A DEPTH OF 5.0 INCHES, FIRMED IN PLACE, IS REQUIRED, AS PER THE STANDARDS FOR TOPSOILING AND LAND GRADING, EFFECTIVE DECEMBER 2017.
12. ALL PLAN REVISIONS MUST BE SUBMITTED TO THE DISTRICT FOR PROPER REVIEW AND APPROVAL.
13. A CRUSHED STONE WHEEL CLEANING TRACKING-PAD IS TO BE INSTALLED AT ALL SITE EXITS USING 2 ½ -1" CRUSHED ANGULAR STONE (ASTM 2 OR 3) TO A MINIMUM LENGTH OF 50 FEET AND MINIMUM DEPTH OF 6". ALL DRIVEWAYS MUST BE PROVIDED WITH CRUSHED STONE UNTIL PAVING IS COMPLETE.
14. STEEP SLOPES INCURRING DISTURBANCE MAY REQUIRE ADDITIONAL STABILIZATION MEASURES. THESE "SPECIAL" MEASURES SHALL BE DESIGNED BY THE APPLICANT'S ENGINEER AND BE APPROVED BY THE SOIL CONSERVATION DISTRICT.
15. **THE HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED, IN WRITING, FOR THE SALE OF ANY PORTION OF THE PROJECT OR FOR THE SALE OF INDIVIDUAL LOTS. NEW OWNERS' INFORMATION SHALL BE PROVIDED. ADDITIONAL MEASURES DEEMED NECESSARY BY DISTRICT OFFICIALS SHALL BE IMPLEMENTED AS CONDITIONS WARRANT.**

Dust Control Notes

following methods should be considered for controlling dust:

Mulches - See Standard for Stabilization with Mulches Only (pg. 5-1)

Vegetative Cover - See Standard for Temporary Vegetative Cover (pg. 7-1), Permanent Vegetativ Cover for Soil Stabilization (pg. 4-1), and Permanent Stabilization with Sod (pg. 6-1)

Spray-On Adhesives - On mineral soils (not effective on muck soils). Keep traffic off these areas.

Table 16-1: Dust Control Materials

MATERIAL	WATER DILUTION	TYPE OF NOZZLE	APPLY GALLONS/ACRE
Anionic asphalt emulsion	7:1	Coarse Spray	1200
Latex emulsion	12.5:1	Fine Spray	235
Resin in water	4:1	Fine Spray	300
Polyacrylamide (PAM) - spray on Polyacrylamide (PAM) - dry spray	Apply according to manufacturer's instructions. May also be used as an additive to sediment basins to flocculate and precipitate suspended colloids. See Sediment Basin standard (pg. 26-1)		
Acidulated Soy Bean Soap Stick	None	Coarse Spray	1200

Tillage - To roughen surface and bring clods to the surface. This is a temporary emergenc 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 c equipment which may produce the desired effect.

Sprinkling - Site is sprinkled until the surface is wet.

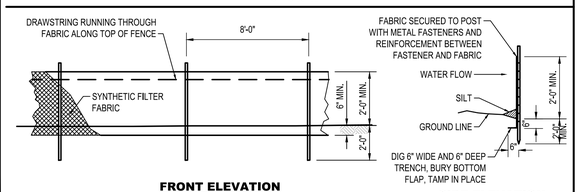
Barriers - Solid board fences, snow fences, burlap fences, crate walls, bales of hay, and simila material can be used to control air currents and soil blowing.

Calcium Chloride - Shall be in the form of loose, dry granulates of flakes fine enough to fee through commonly used spreaders at a rate that will keep surface moist but not cause pollution c plant damage. If used on steeper slopes, then use other practices to prevent washing into stream or accumulation around plants.

Stone - Cover surface with crushed stone or coarse gravel.

DUST CONTROL NOTES

NOT TO SCALE



FRONT ELEVATION

SIDE ELEVATION

FILTER FENCE DETAIL

NOT TO SCALE

INLET PROTECTION STANDARDS

DEFINITION

A TEMPORARY BARRIER AND SETTLING FACILITY INSTALLED AT A STORM SEWER INLET.

PURPOSE

THE PURPOSE OF STORM SEWER INLET PROTECTION IS TO INTERCEPT AND RETAIN SEDIMENT, THUS PREVENTING THE ENTRANCE OF SEDIMENT INTO THE STORM SEWER SYSTEM.

CONDITIONS WHERE PRACTICE APPLIES

1. CONTRIBUTING DRAINAGE AREA IS 3 ACRES OR LESS.
2. A STORM SEWER OR THE OUTLET CHANNEL OF A STORM SEWER NEEDS PROTECTION FROM SEDIMENT.
3. TRAFFIC WILL NOT DESTROY OR CAUSE CONSTANT MAINTENANCE OF THE STORM SEWER INLET PROTECTION.
4. A TRAFFIC HAZARD WILL NOT BE CREATED.
5. A FLOODING PROBLEM WILL NOT BE CREATED.

WATER QUALITY ENHANCEMENT

THE PRIMARY BENEFIT TO WATER QUALITY IS REMOVAL OF SEDIMENT FROM STORMWATER RUNOFF PRIOR TO ENTERING THE STORM SEWER SYSTEM. AS AN ADDED BENEFIT, OTHER FLOATABLE DEBRIS, SUCH AS VEGETATIVE MATTER AND LITTER MAY ALSO BE FILTERED OUT OF THE RUNOFF.

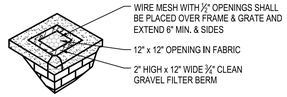
DESIGN CRITERIA

THE FOLLOWING APPLIES TO ALL METHODS OF STORM SEWER INLET PROTECTION:

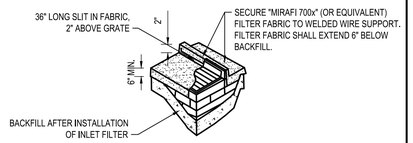
1. MUST SLOW THE STORM WATER, PROVIDE THE COARSE SEDIMENT PARTICLES A CHANCE TO SETTLE, AND PROVIDE AN AREA TO RETAIN THE PARTICLES THAT HAVE SETTLED.
2. IN ALL CASES, THE INLET PROTECTION SHOULD NOT COMPLETELY CLOSE OFF THE INLET.
3. THE PROTECTION DEVICE WILL BE DESIGNED TO CAPTURE OR FILTER RUNOFF FROM THE 1 YEAR, 24 HOUR STORM EVENT AND SHALL SAFELY CONVEY HIGHER FLOWS DIRECTLY INTO THE STORM SEWER SYSTEM.

OTHER METHODS THAT ACCOMPLISH THE PURPOSE OF STORM SEWER INLET PROTECTION MAY BE USED IF APPROVED BY THE SOIL CONSERVATION DISTRICT.

INSPECTIONS SHALL BE FREQUENT. MAINTENANCE, REPAIR, AND REPLACEMENT SHALL BE MADE PROMPTLY, AS NEEDED. THE BARRIER SHALL BE REMOVED WHEN THE AREA DRAINING TOWARD THE INLET HAS BEEN STABILIZED.



TYPE A & E INLET

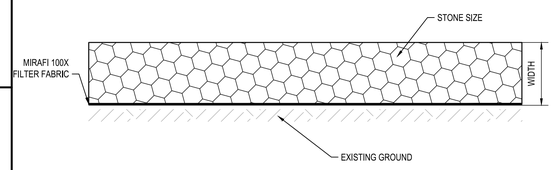


TYPE B INLET

NOTES:
1. CONTRACTOR IS TO INSPECT INLET FILTER AFTER EVERY STORM, AND CLEAN OR REPLACE AS REQUIRED
2. CONTRACTOR IS TO REMOVE FABRIC AND MESH JUST PRIOR TO PAVING
3. FILTER FABRIC SHALL BE "MIRAFI 700X" TYPE OR APPROVED EQUAL
4. INLET FILTER SHALL FILTER RUNOFF FROM THE 1 YEAR 24 HOUR STORM EVENT AND SHALL SAFELY CONVEY HIGHER FLOWS DIRECTLY INTO STORM SEWER SYSTEM.

INLET FILTER & PROTECTION

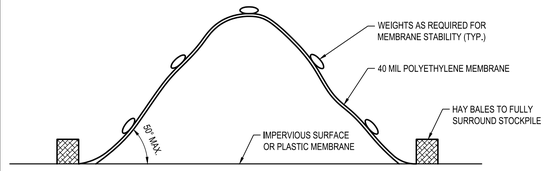
NOT TO SCALE



NOTES:
1. APPROPRIATE TRANSITION BETWEEN STABILIZED CONSTRUCTION ENTRANCE AND PUBLIC R.O.W. MUST BE PROVIDED.
2. THE RATIO OF STONE SIZE TO WIDTH MUST BE 9:27.

STABILIZED CONSTRUCTION PAD

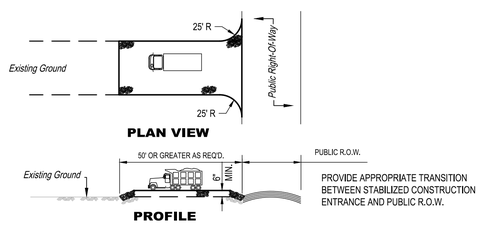
NOT TO SCALE



NOTES:
1. FOR NON-CONTAMINATED SOIL, SURROUND STOCKPILE WITH SILT FENCE. NO COVER REQUIRED

SOIL STOCKPILE

NOT TO SCALE



PLAN VIEW

PROFILE

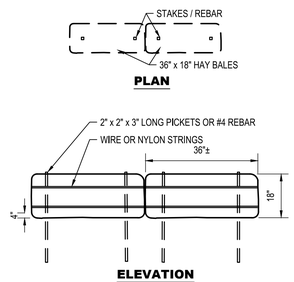
NOTES:
1. PLACE STABILIZED CONSTRUCTION ENTRANCE AT LOCATION(S) AS SHOWN ON THE SOIL EROSION AND SEDIMENT CONTROL PLAN.
2. STONE SIZE SHALL BE ASTM C-33, SIZE NO.2 OR 3, CRUSHED STONE.
3. THE THICKNESS OF THE STABILIZED CONSTRUCTION ENTRANCE SHALL NOT BE LESS THAN 6".
4. THE WIDTH AT THE EXIST. PAVEMENT SHALL NOT BE LESS THAN THE FULL WIDTH OF POINTS OF INGRESS AND EGRESS.
5. THE STAB. CONST. ENT. SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO THE R.O.W./PAVEMENT, THIS REQUIRES PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURE USED TO TRAP SEDIMENT.
6. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO THE PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY.
7. APPROPRIATE TRANSITION BETWEEN STAB. CONST. ENT. & PUBLIC R.O.W. MUST BE PROVIDED.
8. THE RATIO OF STONE SIZE TO WIDTH MUST BE 9:27.

PERCENT SLOPE OF ROADWAY	LENGTH OF STONE REQUIRED	
	COARSE GRAINED SOILS	FINED GRAINED SOILS
0 TO 2%	50 FT.	100 FT.
2 TO 5%	100 FT.	200 FT.
>5%	ENTIRE SURFACE STABILIZED WITH FABC BASE COURSE*	

* AS PRESCIBED BY LOCAL ORDINANCE OR OTHER GOVERNING AUTHORITY.

STABILIZED CONSTRUCTION ACCESS

NOT TO SCALE



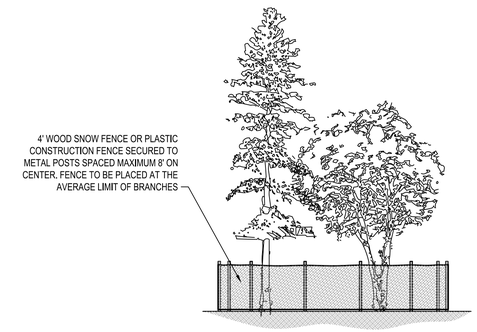
PLAN

ELEVATION

NOTES:
1. RING BARRIER TO REMAIN IN PLACE UNTIL SITE IS STABILIZED
2. ALL BALES SHALL BE EITHER WIRE BOUND OR NYLON STRING TIED
3. ALL BALES SHALL BE PLACED TIGHTLY ABUTTING ADJACENT BALES
4. EACH BALE SHALL BE EMBEDDED 4" IN THE GROUND BALES SHALL BE ANCHORED WITH 2" x 2" x 3' STAKES OR #4 REBAR DRIVEN THROUGH THE BALES A MINIMUM OF 18" INTO THE GROUND. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PLACED BALE TO FORCE BALES TOGETHER.

HAY BALE

NOT TO SCALE



NOTES:
1. CONSTRUCTION EQUIPMENT OF ANY KIND IS TO BE PROHIBITED FROM DRIVING AND/OR PARKING UNDER TREES. THE STOCKPILE OF CONSTRUCTION MATERIAL SHALL BE PROHIBITED FROM BEING STORED UNDER ANY TREES.

TREE PROTECTION

NOT TO SCALE

SEEDING SPECIFICATIONS

TEMPORARY SEEDING

TEMPORARY VEGETATIVE COVER SHALL CONSIST OF PERENNIAL RYEGRASS APPLIED UNIFORMLY AT A RATE OF 1.0 POUND PER 1,000 SQ. FT. (40 lbs/Ac.), IN ACCORDANCE WITH TABLE 7-2, PAGE 7-3. LIMESTONE (PULVERIZED DOLOMITIC EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDES) SHALL BE APPLIED AT THE RATE OF 45 lbs/1,000 SQ. FT. (1 TON/Ac.) IN ACCORDANCE WITH TABLE 7-1, PAGE 7.2. FERTILIZER (10-20-10 OR EQUIVALENT) AT THE RATE OF 11 lbs/1,000 SQ. FT. (500 lbs./Ac.) OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN, IN ACCORDANCE WITH PARAGRAPH 2A, PAGE 7-1.

MULCHING IS REQUIRED ON ALL SEEDING AND SHALL BE ACCOMPLISHED AS FOLLOWS:

1. MULCH MATERIALS SHOULD BE UNROTTED SALT HAY, HAY, OR SMALL GRAIN STRAW AT A RATE OF 1-1/2 TO 2 TONS PER ACRE, OR 70 TO 90 POUNDS PER 1,000 SQUARE FOOT. MULCH BLOWERS SHOULD NOT GRIND OR CHOP THE MATERIAL.
2. SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 85 PERCENT OF THE SOIL SURFACE WILL BE COVERED. FOR UNIFORM DISTRIBUTION OF HAND SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FOOT SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION.
3. MULCH ANCHORING SHALL BE ACCOMPLISHED USING EITHER PEG AND TWINE, MULCH NETTING, MULCH-ANCHORING COULTER TOOL OR LIQUID MULCH- BINDERS, PER THE ACCOMPANYING "STABILIZATION WITH MULCH ONLY" SPECIFICATION. * OPTIMUM SEEDING DATES: 3/1 - 5/15 AND 8/15 - 10/1

PERMANENT SEEDING

1. TOPSOIL TO BE PLACED TO A DEPTH OF 4 INCHES ON EXPOSED SOILS UPON COMPLETION OF FINAL GRADING.
2. SEED IS TO BE UNIFORMLY APPLIED TO THE NORMAL DEPTH OF 1/4 INCH TO 1/2 INCH (EXCEPT HYDRO SEEDING).ZONE 6b SEED MIXTURE 17, AS SHOWN ON PAGE 4-12 IN THE SOIL EROSION STANDARDS. THE SEEDING RATE SHALL BE:

SEED MIXTURE	PLANTING RATE LBS PER ACRE	PLANTING RATE LBS PER 1,000 SF
HARD FESCUE	120	2.7
CREEPING FESCUE	30	0.7
PERENIAL RYEGRASS	10	0.25

* OPTIMAL SEEDING DATES: 3/1 - 4/30 AND 8/15 - 10/15

3. MULCHING WILL BE ACCOMPLISHED PER THE BELOW TEMPORARY SEEDING SPECIFICATION.

*MAY BE PLANTED THROUGHOUT SUMMER IF SOIL MOISTURE IS ADEQUATE OR SOIL CAN BE IRRIGATED.

SOIL PREPARATION

SUITABLE EQUIPMENT WILL BE USED TO PREPARE A REASONABLE, UNIFORM, FINE SEED BED TO A MINIMUM DEPTH OF 4 INCHES.

APPLY GROUND LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS. FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET USING 10-20-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE. LIME SHALL BE PULVERIZED DOLOMITIC LIMESTONE. CALCIUM CARBONATE IS THE EQUIVALENT AND STANDARD FOR MEASURING THE ABILITY OF LIMING MATERIALS TO NEUTRALIZE SOIL ACIDITY AND SUPPLY CALCIUM AND MAGNESIUM TO GRASSES AND LEGUMES. THE FOLLOWING TABLE IS A GENERAL GUIDELINE FOR LIMESTONE APPLICATION RATES:

SOIL TEXTURE	TONS/ACRE	LBS./1000 SQ. FT.
CLAY, CLAY LOAM, & HIGHLY ORGANIC SOIL	3	135
SANDY LOAM, LOAM, SILT LOAM	2	90
LOAMY SAND, SAND	1	45

WORK LIME AND FERTILIZER INTO THE TOPSOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT.

NEGLIA GROUP
RESPONSIVE EXPERIENCED DEDICATED

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NO.	DATE	REVISION	DRAWN	DESIGNED	CHECKED
1.	03/07/2025	REVISIONS AS PER HEPSCD COMMENTS	M.F.L.	M.F.L.	A.K.

FINAL

A PRODUCT OF

NEGLIA GROUP

EVERETT PARK IMPROVEMENTS

BLOCK 707 - LOT 10
TOWNSHIP OF VERONA
COUNTY OF ESSEX
STATE OF NEW JERSEY

ANTHONY KURUS, PE, PP
PROFESSIONAL ENGINEER N.J. LICENSE NO. 24GE04644500
PROFESSIONAL PLANNER N.J. LICENSE NO. 33LI00614500

MATEO F. LUZURIAGA, PE
PROFESSIONAL ENGINEER
N.J. LICENSE NO. 24GE06029800

SESC DETAILS

DRAWN BY: M.F.L.	SCALE: N.T.S.
DESIGNED BY: M.F.L.	CHECKED BY: A.K.
PROJECT NO.: VEROMUN24.010	9.01
DATE: NOVEMBER 2024	

CERTIFICATE OF AUTHORIZATION (N.J.S.A. 45:8-56) 24GA27927000

GENERAL NOTES:

1. ALL POSTS SHALL BE OF ADEQUATE LENGTH TO MEET THE REQUIREMENTS FOR ERECTION AS STATED IN THE CURRENT "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" AND AS INDICATED BELOW.
2. ALL SMALL SIGN SUPPORTS SHALL BE OF THE BREAKAWAY TYPE WITH EXCEPTION OF THOSE INSTALLED BEHIND GUIDE RAIL OR OTHER ROADSIDE BARRIER.
3. ALL STEEL POSTS AND BRACKETS SHALL BE CUT, BENT, AND HOLES PUNCHED AND DRILLED BEFORE GALVANIZING. GALVINIZING SHALL BE IN CONFORMANCE WITH ASTM A123.
4. ALL STEEL U-POST SIGN SUPPORTS MUST BE INSTALLED FACING THE PREDOMINANT TRAFFIC FLOW. A MOUNTING BRACKET SHOULD BE USED ON SIDE MOUNTED SIGNS SUCH AS "ONE WAY" SIGNS INSTALLED IN MEDIANS.
5. SIGN PANEL SIZES SHALL DETERMINE POST TYPE AND NUMBER AS SHOWN ON THIS DETAIL.
6. BOLTS SHALL NOT PROTRUDE MORE THAN 3/4" BEYOND THE NUT WHEN TIGHT, BUT SHALL ENGAGE ALL THREADS IN THE NUT.
7. WHEN SIGNS ARE INSTALLED ON SLOPES 10H:1V OR FLATTER, THE MINIMUM VERTICAL CLEARANCE REQUIREMENTS FOR SIGNS ARE:

   FOR SINGLE POST INSTALLATIONS - THE MINIMUM DISTANCE BETWEEN THE EDGE OF THE PAVEMENT AND THE BOTTOM OF ANY PANEL MUST BE 7 FEET, AND THE MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO THE TOP OF ANY SIGN PANEL MUST BE 9 FEET.

   FOR MULTI-POST INSTALLATIONS - THE MINIMUM DISTANCE BETWEEN THE EDGE OF PAVEMENT AND THE BOTTOM OF A MAIN SIGN PANEL MUST BE 7 FEET.

   SECONDARY SIGN PANELS (LAND SERVICE HIGHWAYS) - THE MINIMUM DISTANCE BETWEEN THE EDGE OF PAVEMENT AND THE BOTTOM OF A SECONDARY SIGN PANEL IS 6 FEET.

   SECONDARY SIGN PANELS (INTERSTATE AND FREEWAYS) - THE BOTTOM OF THE MAIN SIGN SHALL BE A MINIMUM OF 8 FEET AND THE SECONDARY SIGN PANEL A MINIMUM OF 5 FEET ABOVE THE EDGE OF PAVEMENT.

   WHERE GRADING OF 10H:1V OR FLATTER CANNOT BE OBTAINED, OR WHERE CURB OR BERM IS GREATER THAN 4 INCHES, THE MINIMUM VERTICAL CLEARANCE WILL BE MEASURED FROM THE GROUND LINE TO THE BOTTOM OF THE SIGN.
8. THE HORIZONTAL OFFSET FROM EDGE OF PAVEMENT TO EDGE OF SIGN IS DERIVED FROM SECTION 2A.19 OF THE MUTCD AS FOLLOWS:

   FOR URBAN INSTALLATIONS - IN AREAS WHERE LATERAL OFFSETS ARE LIMITED, A MINIMUM LATERAL OFFSET OF 2 FEET IS DESIRABLE. A MINIMUM OFFSET OF 1 FOOT FROM THE FACE OF THE CURB MAY BE USED IN AREAS WHERE THE SIDEWALK WIDTH IS LIMITED OR WHERE EXISTING POLES ARE CLOSE TO THE CURB.

   FOR RURAL INSTALLATIONS - 6 FEET MINIMUM DESIRABLE FROM EDGE OF SHOULDER, BUT 12 FEET MINIMUM DESIRABLE FROM EDGE OF TRAFFIC OR AUXILIARY LANE.

   FOR INTERSTATE AND FREEWAY INSTALLATIONS - 6 FEET MINIMUM DESIRABLE FROM EDGE OF SHOULDER, BUT NOT LESS THAN 12 FEET FROM THE EDGE OF TRAFFIC OR AUXILIARY LANE.

   FOR RAMP INSTALLATIONS - 6 FEET MINIMUM FROM EDGE OF ROAD.

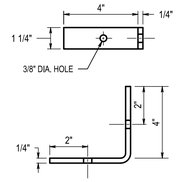
   WHERE BEHIND GUIDE RAIL - 4 FEET MINIMUM FROM BACK OF BEAM GUIDE RAIL ELEMENT TO SIGN POST.
9. PERMANENT SIGN SUPPORTS SHOULD NOT BE INSTALLED ON SLOPES GREATER THAN 10H:1V, EXCEPT WHERE GRADING OF 10H:1V CANNOT BE OBTAINED OR THE SIGN SUPPORTS WILL BE BEHIND A TRAFFIC BARRIER. THE SLOPE SHALL EXTEND A MINIMUM OF 3 FEET BEYOND THE OUTSIDE EDGE OF SIGN (SEE GRADING DETAIL FOR SLOPE TREATMENT).
10. EXTRUDED ALUMINUM SIGN PANELS ARE NOT PERMITTED FOR USE WITH STEEL U-POST SIGN SUPPORTS.
11. STEEL U-POST SIGN SUPPORTS SHALL NOT BE PLACED IN FRONT OF GUIDE RAIL AND THE POSTS MUST NOT STRADDLE GUIDE RAIL.
12. TO EXTEND THE HEIGHT OF A SIGN POST, A MAXIMUM OF ONE SPLICE MAY BE MADE AND MUST BE A MINIMUM OF 9 FEET FROM THE GROUNDLINE TO CENTER LINE OF SPLICE.

PANEL SIZE (W x H)	# OF POSTS	POST SIZE (LB/ FT)
18" x 18"	1	2.5
18" x 24"	1	2.5
24" x 24"	1	2.5
24" x 30"	1	2.5
24" x 36"	1	2.5
30" x 24"	1	2.5
30" x 30"	1	2.5
36" x 12"	2	2.5
36" x 36" x 36"	2	2.5
30" x 36"	1	4.0

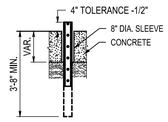
PANEL SIZE (W x H)	# OF POSTS	POST SIZE (LB/FT)
36" x 36"	2	2.5
36" x 48"	2	2.5
45" x 36"	2	2.5
48" x 24"	2	2.5
48" x 36"	2	2.5
48" x 48"	2	4.0
48" x 64" x 64"	2	2.5
60" x 36"	2	4.0
48" x 60"	2	4.0
60" x 30"	2	4.0

BREAKAWAY SIGN SUPPORT

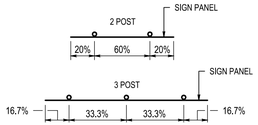
U-POST SELECTION TABLE



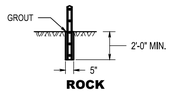
DETAIL OF BRACKET FOR SIDE MOUNTED SIGNS



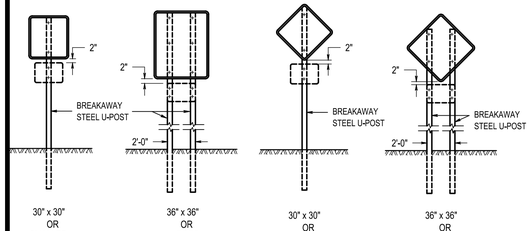
CONCRETE INSTALLATION

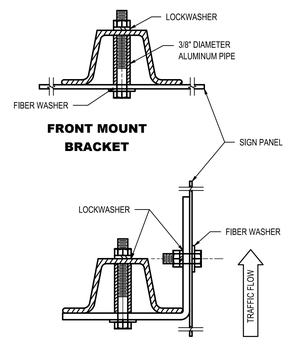


STEEL U-POST SPACING



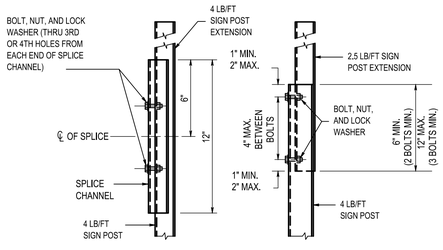
ROCK INSTALLATION



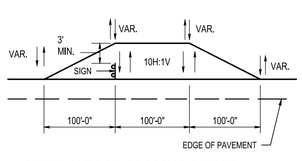


FRONT MOUNT BRACKET

SIDE MOUNT BRACKET



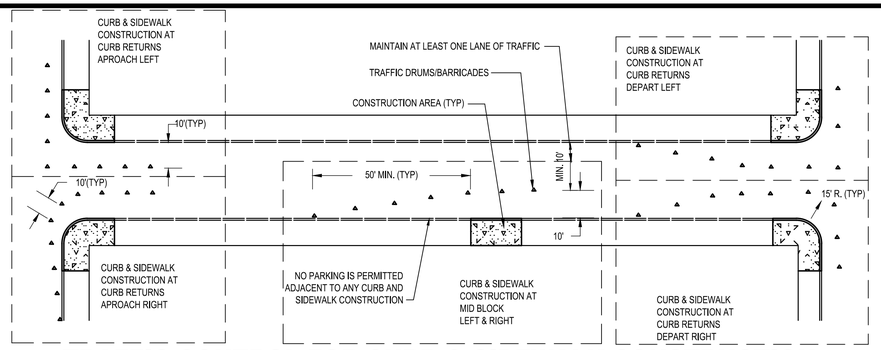
SIGN POST EXTENSION SPLICE DETAILS



STEEL U-POST GRADING DETAIL

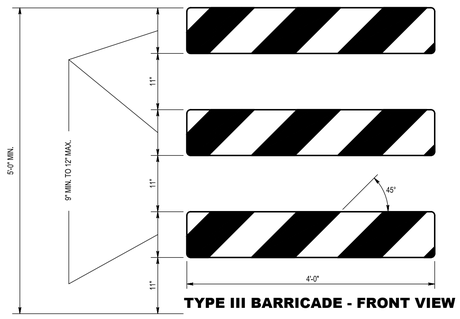
STEEL U-POST SIGN SUPPORTS

NOT TO SCALE
CD-612-4



TRAFFIC CONTROL FOR CURB & SIDEWALK CONSTRUCTION

NOT TO SCALE



TYPE III BARRICADE - FRONT VIEW

NOTES:

1. THE 9" MIN. x 48", OR 12" MAX. x 48" BARRICADE RAILS SHALL BE FABRICATED FROM 0.125" MAX. PLASTIC SHEETING AND SHALL BE ATTACHED, 4 PER RAIL, WITH 1 INCH NO. 14 PAN HEAD METAL SCREWS OR PLASTIC RIVETS. ALL CORNERS SHALL BE ROUNDED.
2. ORANGE AND SILVER (WHITE) STRIPES SHALL BE RETROREFLECTIVE SHEETING, ASTM D 4956 TYPE III, AS SHOWN FOR CONSTRUCTION SIGNS. ALTERNATE ORANGE AND SILVER (WHITE) STRIPES 6" WIDE SLOPING DOWNWARD AT AN ANGLE OF 45 DEGREES IN THE DIRECTION TRAFFIC IS TO PASS.
3. IF NECESSARY, THE SANDBAGS SHALL BE FABRICATED AND PLACED ACCORDING TO THE MANUFACTURE'S RECOMMENDATION.
4. THE FRAMING FOR BARRICADE PANELS SHALL BE NCHRP-350 CRASHED TESTED AND FHWA APPROVED.

BREAKAWAY BARRICADES

NOT TO SCALE
CD-159-1.3

GENERAL NOTES FOR SIGNS:

1. DIMENSIONS, COLORS AND DETAILS OF VARIOUS SIZE SIGNS, AND ACCESSORY PANELS TO FOLLOW STANDARDS IN THE CURRENT "STANDARD HIGHWAY SIGN PUBLICATION" AND THE CURRENT "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS".
2. (S) REPRESENTS A SPECIAL SIZE SIGN.
3. LETTERS AND NUMERALS SHALL CONFORM TO THE CURRENT MANUAL, "STANDARD ALPHABETS FOR HIGHWAY SIGNS" U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.
4. THE CONTRACTOR SHALL OBTAIN THE APPROVAL OF THE ENGINEER FOR THE DISTANCE TO BE USED ON THE ADVANCE WARNING SIGNS, AND FOR THE SPEED LIMIT TO BE USED ON THE R2-1 SIGN.
5. DISTANCE LEGEND SIGN NUMBER FOLLOWED BY

LETTER	DISTANCE
A	1500'
B	1000'
C	500'
D	___MILE
E	___ MILES AHEAD
F	AHEAD

BACKING MATERIAL

1. ALUMINUM SHALL BE FLAT SHEET OF ALLOY 5052-H38 OR 6061-T6 ALLOY, 0.100" GAUGE.

TEMPORARY SIGN SUPPORTS

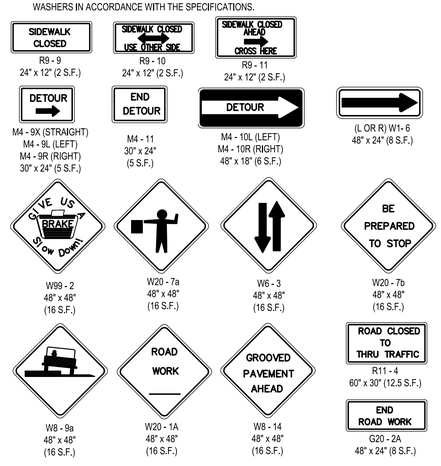
1. SIGN SUPPORTS SHALL BE OF WELL SEASONED LUMBER, S4S, FREE OF SPLITS, KNOTS AND WARPS OR, OF STEEL COMPONENTS.
2. WOOD POSTS SHALL HAVE A UNIFORM CROSS-SECTION AND SHALL NOT EXCEED THE FOLLOWING DIMENSIONS FOR:
   SINGLE POST = 4" x 6" ; TWO POSTS = 3" x 6" OR 4" x 5" ; THREE POSTS = 3" x 5" OR 4" x 4"
   4" x 6" WOOD POSTS SHALL BE MODIFIED BY DRILLING 1 1/2" DIAMETER HOLES 4" AND 18" ABOVE THE GROUND LINE AND PERPENDICULAR TO THE ROADWAY CENTERLINE.
3. NO BRACING IS PERMITTED. VERTICAL CLEARANCES FOR SIGNS MOUNTED ON WOOD SUPPORTS SHALL BE 7' MINIMUM. EMBEDMENT DEPTH FOR THE WOOD POST SHALL NOT EXCEED 3.5'.
4. STEEL POSTS SHALL BE IN ACCORDANCE WITH THE STANDARD DETAIL FOR U-POST SIGN SUPPORT.
5. TEMPORARY SIGN SUPPORTS NOT MEETING THIS CRITERIA SHALL BE SHIELDED BY A LONGITUDINAL BARRIER OR CRASH CUSHIONS.

SIGN FACES

1. SIGN FACES SHALL BE RETROREFLECTIVE SHEETING, TYPE II OR IIIA, EXCEPT FOR THE W20 SERIES AND W4-2 SIGN FACES WHICH SHALL BE TYPE IV-B SHEETING.

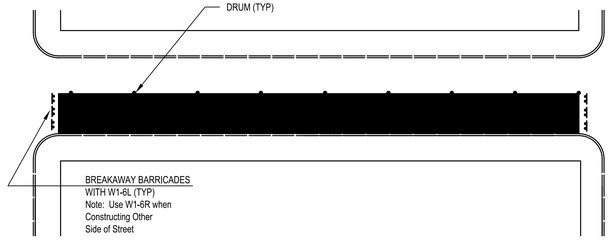
FASTENING

1. ALL SIGNS SHALL BE SECURELY FASTENED TO THEIR SUPPORTS WITH BOLTS, NUTS AND WASHERS IN ACCORDANCE WITH THE SPECIFICATIONS.



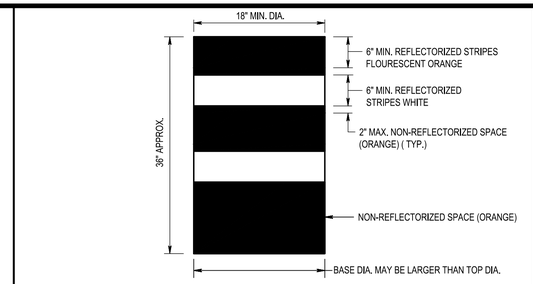
CONSTRUCTION SIGNS

NOT TO SCALE



TRAFFIC CONTROL FOR MILLING AND OVERLAY

NOT TO SCALE



DRUMS SHALL BE MADE OF ORANGE PLASTIC WITH A MINIMUM OF FOUR ALTERNATE FLUORESCENT ORANGE AND WHITE RETROREFLECTIVE STRIPES. IF THERE ARE NON-REFLECTORIZED SPACES BETWEEN THE STRIPES, THEY SHALL BE NO MORE THAN 2" WIDE. RETROREFLECTIVE SHEETING FOR STRIPES SHALL CONFORM WITH ASTM D 4956 TYPE VII OR VIII WITH S2 REQUIREMENTS.

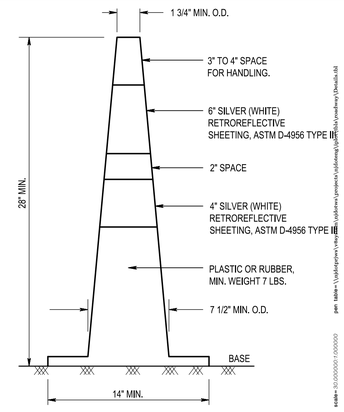
THE TOP OF THE DRUM SHALL NOT BE OPEN. DRUMS SHALL BE CONSTRUCTED TO INHIBIT ROLLING IF KNOCKED OVER.

THE REFLECTORIZED AREA OF DRUMS SHALL BE ROUND EXCEPT THAT OTHER SHAPES, WHICH PROVIDE THE SAME VISIBILITY AS AN 18 INCH DIAMETER ROUND DRUM REGARDLESS OF ORIENTATION, MAY BE USED.

WHEN BALLAST IS REQUIRED BY THE R.E., SAND SHALL BE USED. THE MAXIMUM WEIGHT OF THE BALLAST SHALL BE 50 LBS. AND BE LOCATED APPROXIMATELY AT GROUND LEVEL. ALTERNATE TYPES OF BALLAST SHALL BE APPROVED BY THE R.E..

DRUMS

NOT TO SCALE
CD-159-1.1



NOTES:

1. TRAFFIC CONES SHALL BE PREDOMINATELY ORANGE IN COLOR.
2. BASES MAY BE OF BREAKAWAY BALLASTED TYPE.
3. MINOR MANUFACTURER'S VARIATIONS MAY BE CONSIDERED UPON APPROVAL OF THE ENGINEER.

TRAFFIC CONES

NOT TO SCALE
CD-159-1.2

GENERAL NOTES
MAINTENANCE AND PROTECTION OF TRAFFIC

1. All devices and procedures for the maintenance and protection of traffic shall be in accordance with the "Manual on Uniform Traffic Control Devices" for streets and highways. The contractor shall plan and carry out his work to provide for the convenient and safe passage of all vehicular and pedestrian traffic.
2. Contractor to develop detailed maintenance and protection of traffic plan for review by the engineer prior to construction.
3. The contractor shall follow the recommended traffic control procedures. If the contractor desires to change the procedure, he shall present his changes in writing to the engineer for review There may be utility relocations, adjustments and improvements which are necessitated by the proposed construction. The contractor shall coordinate his work with each of the utility companies located within the project limits.
4. The contractor is responsible for providing maintenance and protection of traffic throughout the duration of construction. The costs for the individual devices used to maintain and protect traffic shall be included in the lump sum price bid for maintenance and protection of traffic. No separate payments will be made for relocating
5. The contractor will not be permitted to close down the entire street. The contractor shall provide means of access at all times for pedestrians and vehicular traffic at all the devices as required, or as directed by The municipality, during the course of construction. private driveways and occupied buildings affected by the work of this contract. During construction, in the vicinity of a driveway, the access width at the driveway
6. The contractor shall maintain at least one lane of traffic at all times. entrance shall be plainly marked by lights, barricades or other such devices approved by the municipality.
7. During construction, all roads shall be properly maintained to accommodate emergency vehicles at all times.
8. All barricades shall be Type III breakaway barricades.
9. Fill material for escape ramps shall be on-site material. All costs for storing, placing, moving and removing fillet material shall be included in the price bid for the various items in the proposal.

NEGLIA GROUP
EXPERIENCED RESPONSIVE DEDICATED

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NEGLIAGROUP.COM

CHECKED | DESIGNED | DRAWN | REVISION | NO. | DATE

FINAL

A PRODUCT OF

NEGLIA GROUP

EVERETT PARK IMPROVEMENTS

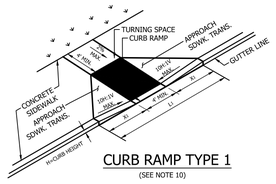
BLOCK 707 - LOT 10
TOWNSHIP OF VERONA
COUNTY OF ESSEX
STATE OF NEW JERSEY

ANTHONY KURUS, PE, PP
PROFESSIONAL ENGINEER N.J. LICENSE NO. 24GE04644500
PROFESSIONAL PLANNER N.J., LICENSE NO. 33LI00614500

MATEO F. LUZURIAGA, PE
PROFESSIONAL ENGINEER
N.J. LICENSE NO. 24GE06029800

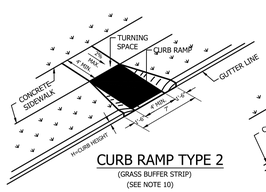
CONSTRUCTION DETAILS I

DRAWN BY:	M.F.L.	SCALE:	N.T.S.
DESIGNED BY:	M.F.L.	CHECKED BY:	A.K.
PROJECT NO.:	VEROMUN24.010		
DATE:	NOVEMBER 2024		10.00



CURB RAMP TYPE 1

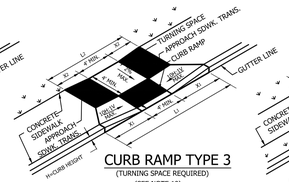
(SEE NOTE 10)



CURB RAMP TYPE 2

(GRASS BUFFER STRIP)

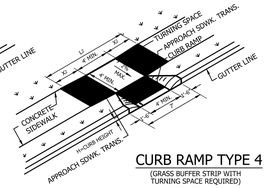
(SEE NOTE 10)



CURB RAMP TYPE 3

(TURNING SPACE REQUIRED)

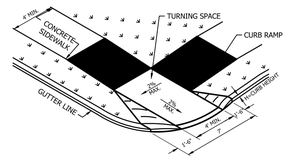
(SEE NOTE 10)

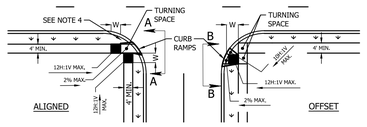


CURB RAMP TYPE 4

(GRASS BUFFER STRIP WITH TURNING SPACE REQUIRED)

(SEE NOTE 10)





CURB RAMP TYPE 6

NOTES:

1. KEEP TURNING SPACE, APPROACH SIDEWALK TRANSITIONS, AND CURB RAMP CLEAR OF OBSTRUCTIONS THAT PROTRUDE ABOVE THE SIDEWALK.
2. DIMENSIONS SHOWN IN TABLES ARE FOR RELATIVELY FLAT SIDEWALK AREAS. CARE SHOULD BE TAKEN WHEN DETERMINING CURB RAMP SIZE BASED ON CURB HEIGHT (H) WHERE ELEVATION OF CURB AND SIDEWALK VARY DRASTICALLY IN AREA OF PROPOSED CURB RAMP.
3. CURB (DROPPED CURB) GUTTERLINE TO BE FLUSH WITH ROADWAY PAVEMENT A MINIMUM OF 4 FEET AT ALL CURB RAMPS.
4. FOR CURB RAMP TYPES 5 AND 6, IF A GRASS BUFFER DOES NOT EXIST, SLOPE CURB TO EQUAL SLOPE OF ADJACENT CURB RAMP.
5. SIDEWALK AND CURB RAMP WITHIN AREA ENCLOSED BY HEAVY LINES INDICATES THE PAY LIMIT FOR CONCRETE SIDEWALK OF THE APPROPRIATE ADJACENT THICKNESS.
6. CURB AND HEADER WITHIN AREA ENCLOSED BY HEAVY LINES INDICATES THE PAY LIMIT FOR VERTICAL CURB OR SLOPING CURB OF THE APPROPRIATE ADJACENT SIZE AND KIND.
7. WHERE THE DISTANCE FROM THE GUTTER LINE TO THE OUTSIDE EDGE OF SIDEWALK IS 6 FEET OR LESS, USE CURB RAMP TYPE 7, INSTEAD OF CURB RAMP TYPE 1 THROUGH 4.
8. CROSSWALKS AND STOP LINES MAY BE MARKED OR UNMARKED. SEE PLANS.
9. THE 12H:1V MAX SLOPE IS THE RUNNING SLOPE FOR CURB RAMPS, BUT ONLY THE 12H:1V SLOPE MEASURED AS X2 IS THE RUNNING SLOPE FOR TYPE 3 AND TYPE 4 CURB RAMPS. ENSURE THE RUNNING SLOPE OF CURB RAMPS DOES NOT REQUIRE ITS LENGTH TO EXCEED 15 FEET. THE RUNNING SLOPE MAY EXCEED THE 12H:1V MAX SLOPE SO AS NOT TO EXCEED THE 15 FEET MAXIMUM LENGTH.
10. CURB RAMP TYPE 1 THROUGH 7 ARE NORMALLY PLACED ON THE RADIUS RETURN AT THE INTERSECTION AND ON A TANGENT SECTION AS DRAWN.
11. FOR NARROW ISLAND WIDTH, SEE PEDESTRIAN REFUGE ISLAND WALKWAY OPENING AT INTERSECTIONS DETAIL.
12. FOR MEDIUM AND LARGE ISLAND WIDTH, SEE CURB RAMP TYPE 1 ON CD-606-1.
13. CONSTRUCT CURB RAMP TYPES 1, 2, 3, 4 & 7 PERPENDICULAR TO CURBLINE, AS SHOWN.
14. IF A CURB RAMP IS REQUIRED, THE LOCATION OF THE DETECTABLE WARNING SURFACE MUST BE AT THE BOTTOM OF THE RAMP AND WITHIN THE REQUIRED DISTANCE FROM THE RAIL.
15. A STANDARD DETECTABLE WARNING (DWS) SURFACE IS NOT AVAILABLE TO FIT THIS APPLICATION, AND THEREFORE ONE WILL NEED TO BE CUSTOMIZED. THE DWS SHOULD COVER THE ENTIRE WIDTH OF THE RAMP. THE ROWS OF DOMES ON THE DWS SHOULD FOLLOW THE DIRECTION OF TRAVEL OF THE RAMP, SO PEDESTRIANS WHO USE MOBILE DEVICES CAN TRACK BETWEEN THE DOMES.

CURB RAMP TABLES

WARNING: DIMENSIONS SHOWN IN CURB RAMP TABLES ARE BASED ON A ZERO PERCENT GUTTER PROFILE. THEREFORE, DIMENSIONS SHOWN MAY INCREASE OR DECREASE BASED ON DIRECTION AND PERCENT OF GUTTER PROFILE.

CURB RAMP TYPE 1

H INCHES	X1 FEET	L1 FEET	W FEET
3	2.5	9.0	3
4	3.3	10.6	4
5	4.2	12.4	5
6	5.0	14.0	6
7	5.8	15.6	7
8	6.7	17.4	8
9	7.5	19.0	9

CURB RAMP TYPE 2, 5, OR 6

H INCHES	W FEET
3	3
4	4
5	5
6	6
7	7
8	8
9	9

CURB RAMP TYPE 7

W FEET	H INCHES	X1 FEET	L1 FEET
4 MIN.	3	3	10
MIN 5'	4	4	12
WITH	5	5	14
HEADER	6	6	16
	7	7	18
	8	8	20
	9	9	22

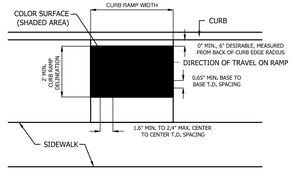
CURB RAMP TYPE 3

W FEET	H INCHES	X1 FEET	L1 FEET	Y FEET	X2 FEET	L2 FEET
2.5	3	2.5	9	2.5	0.5	5
	4	3.3	10.6	2.5	1.5	7
	5	4.2	12.4	2.5	2.5	9
	6	5.0	14.0	2.5	3.5	11
	7	5.8	15.6	2.5	4.5	13
	8	6.7	17.4	2.5	5.5	15
	9	7.5	19.0	2.5	6.5	17
3.0	3	*	*	*	*	*
	4	3.3	10.6	3.0	1	6
	5	4.2	12.4	3.0	2	8
	6	5.0	14.0	3.0	3	10
	7	5.8	15.6	3.0	4	12
	8	6.7	17.4	3.0	5	14
	9	7.5	19.0	3.0	6	16
3.5	3	*	*	*	**	**
	4	3.3	10.6	3.5	0.5	5
	5	4.2	12.4	3.5	1.5	7
	6	5.0	14.0	3.5	2.5	9
	7	5.8	15.6	3.5	3.5	11
	8	6.7	17.4	3.5	4.5	13
	9	7.5	19.0	3.5	5.5	15
4.0	3	*	*	*	*	*
	4	*	*	*	*	*
	5	4.2	12.4	4.0	1	6
	6	5.0	14.0	4.0	2	8
	7	5.8	15.6	4.0	3	10
	8	6.7	17.4	4.0	4	12
	9	7.5	19.0	4.0	5	14

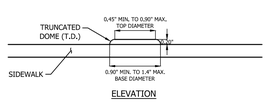
CURB RAMP TYPE 4

W FEET	H INCHES	Y FEET	X2 FEET	L2 FEET
2.5	3	2.5	0.5	5
	4	2.5	1.5	7
	5	2.5	2.5	9
	6	2.5	3.5	11
	7	2.5	4.5	13
	8	2.5	5.5	15
	9	2.5	6.5	17
3.0	3	**	**	**
	4	3.0	1	6
	5	3.0	2	8
	6	3.0	3	10
	7	3.0	4	12
	8	3.0	5	14
	9	3.0	6	16
3.5	3	**	**	**
	4	3.5	0.5	5
	5	3.5	1.5	7
	6	3.5	2.5	9
	7	3.5	3.5	11
	8	3.5	4.5	13
	9	3.5	5.5	15
4.0	3	**	**	**
	4	**	**	**
	5	4.0	1	6
	6	4.0	2	8
	7	4.0	3	10
	8	4.0	4	12
	9	4.0	5	14

* TYPE 3 RAMP IS NOT APPLICABLE, USE TYPE 1. ** TYPE 4 RAMP IS NOT APPLICABLE, USE TYPE 2.

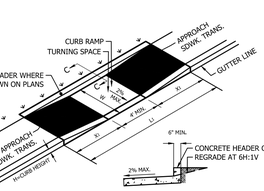


PLAN VIEW



ELEVATION

DETECTABLE WARNING SURFACE

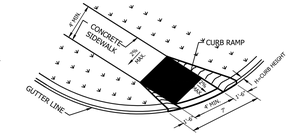


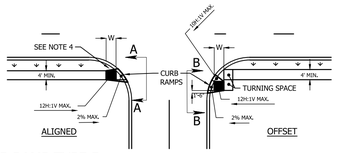
SECTION C-C

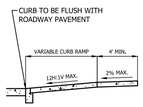
CURB RAMP TYPE 7

(LIMITED ROW)

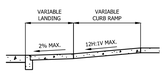
(SEE NOTE 7 & NOTE 10)





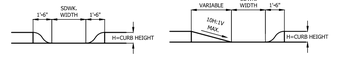


SECTION THROUGH CURB RAMPS 1 THROUGH 4



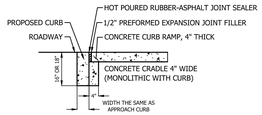
SECTION THROUGH CURB RAMPS 5 AND 6

CURB RAMP TYPE 5

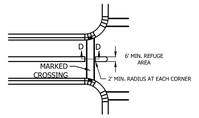


SECTION A-A SECTION B-B

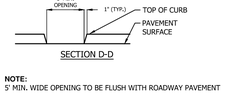
NOTE:
CURB RAMP OPENING TO BE FLUSH WITH ROADWAY PAVEMENT (CURB RAMP TYPES 5 & 6).



DROPPED CURB AND CRADLE

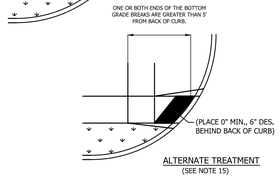


NOTE:
WHERE PRACTICAL, END LEFT TURN ISLAND OR DIVISIONAL ISLAND BEFORE CROSSWALK TO ELIMINATE CUT-THROUGH



SECTION D-D

NOTE:
5' MIN. WIDE OPENING TO BE FLUSH WITH ROADWAY PAVEMENT

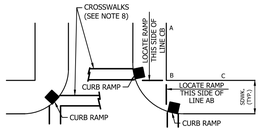


PREFERRED TREATMENT

ALTERNATE TREATMENT

(SEE NOTE 15)

PLACEMENT OF DETECTABLE WARNING SURFACE FOR CURB RAMP TYPE 5 AND 6



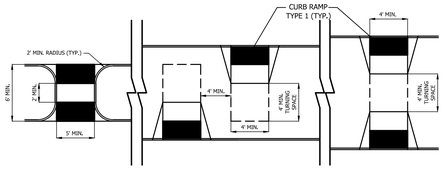
ALTERNATE TREATMENT

(SEE NOTE 13)

PREFERRED TREATMENT

(SEE NOTE 13)

LOCATION OF CURB RAMP TYPES 1, 2, 3, 4 & 7 FOR CROSSING PARALLEL AND PERPENDICULAR TO HIGHWAY



NARROW ISLAND WIDTH

(SEE NOTE 11)

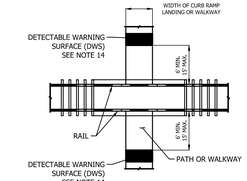
MEDIUM ISLAND WIDTH

(SEE NOTE 12)

LARGE ISLAND WIDTH

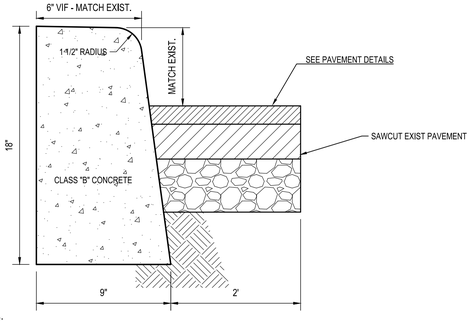
(SEE NOTE 12)

PEDESTRIAN REFUGE ISLAND



PEDESTRIAN REFUGE ISLAND WALKWAY OPENING AT INTERSECTIONS

PEDESTRIAN RAILROAD CROSSING



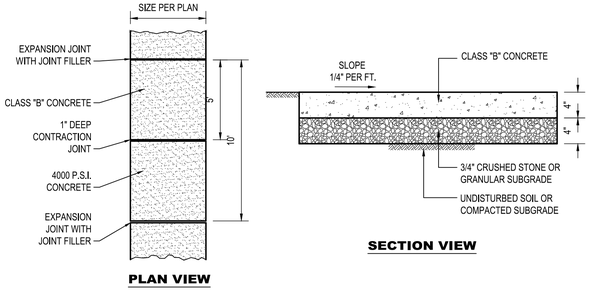
NOTES:

TRANSVERSE JOINTS 1/2" WIDE SHALL BE INSTALLED IN THE CURB 20 FT. APART AND SHALL BE FILLED WITH PREFORMED BITUMINOUS-IMPREGNATED FIBER JOINT FILLER 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.

9" X 18" CONCRETE VERTICAL CURB

NOT TO SCALE



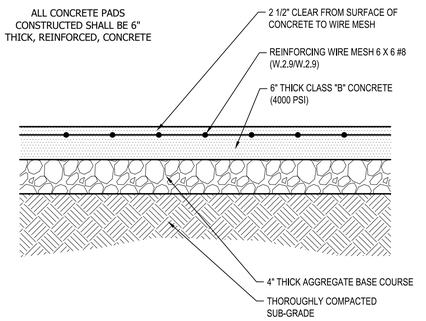
PLAN VIEW **SECTION VIEW**

NOTES:

1. UNIT PRICE FOR SIDEWALK INCLUDES EXCAVATION, GRADING, CONCRETE REMOVAL,CONC. SAWCUTTING AND DISPOSAL, AND D.G.A.
2. EXISTING GREEN BELT MATERIALS (GRASS, BRICK,CONCRETE, ETC.) TO BE REPLACED WITH SAME MATERIAL UNLESS OTHERWISE APPROVED OR DIRECTED BY THE PROJECT ENGINEER.
3. PAY LIMIT FOR TOPSOIL, SEED, & MULCHING IS AS SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER.

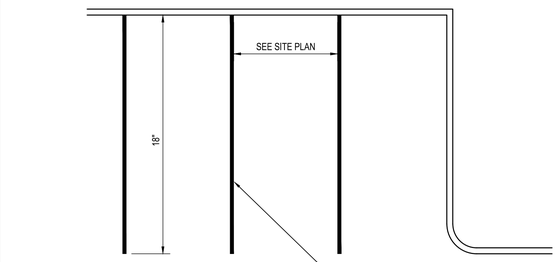
4" THICK CONCRETE SIDEWALK

NOT TO SCALE



CONCRETE, REINFORCED, 6" THICK

NOT TO SCALE



NOTES:

ALL STRIPES TO BE 4" WIDE WHITE PAVEMENT PAINT.

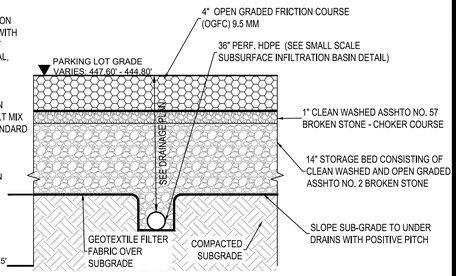
PARKING STALL STRIPING

NOT TO SCALE

NOTES:
1. THE POROUS PAVEMENT SECTION MUST BE DESIGNED TO COMPLY WITH NEW JERSEY STORMWATER BEST MANAGEMENT PRACTICES MANUAL, GREEN INFRASTRUCTURE BMPS, CHAPTER 9.6: PERVIOUS PAVING SYSTEMS.
2. NJDOT OPEN GRADED FRICTION COURSE (OGFC) POROUS ASPHALT MIX TO COMPLY WITH ALL NJDOT STANDARD SPECIFICATION SECTION 902.03.

BOTTOM OF PERVIOUS PAVEMENT SYSTEM ELEVATION VARIES: 446.02' - 443.22'

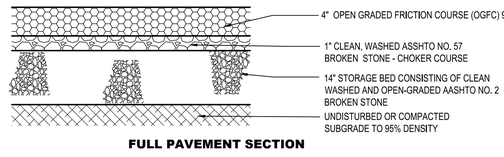
SEASONAL HIGH GROUND WATER TABLE ELEVATION VARIES: 437.5' - 434.5' (APPROXIMATELY 10.5' - 7.5' BELOW EXISTING GRADE - SEE GEOTECH REPORT)



FULL PAVEMENT SECTION

POROUS PAVING SECTION WITH SMALL SCALE SUBSURFACE INFILTRATION BASIN

NOT TO SCALE

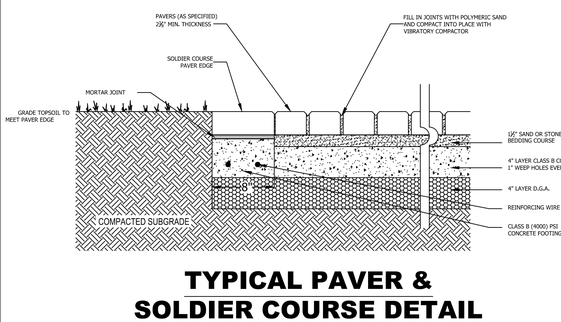


FULL PAVEMENT SECTION

NOTES:
1. THE POROUS PAVEMENT SECTION MUST BE DESIGNED TO COMPLY WITH NEW JERSEY STORMWATER BEST MANAGEMENT PRACTICES MANUAL, GREEN INFRASTRUCTURE BMPS, CHAPTER 9.6: PERVIOUS PAVING SYSTEMS.
2. NJDOT OPEN GRADED FRICTION COURSE (OGFC) POROUS ASPHALT MIX TO COMPLY WITH ALL NJDOT STANDARD SPECIFICATION SECTION 902.03.

POROUS PAVEMENT SECTIONS

NOT TO SCALE



TYPICAL PAVER & SOLDIER COURSE DETAIL

NOT TO SCALE

NOTES:
1. DECORATIVE PAVERS SHALL BE BELGARD CATALINA SLATE OR APPORVED EQUAL, TO BE SELECTED BY TOWNSHIP PRIOR TO CONSTRUCTION /ORDERING.
2. COLOR OF DECORATIVE PAVERS SHALL BE "BELLA", TO BE SELECTED BY TOWNSHIP PRIOR TO CONSTRUCTION/ORDERING.
3. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR PAVER, PATTERN LAYOUT, AND COLORS TO THE TOWNSHIP FOR FINAL APPROVAL PRIOR TO CONSTRUCTION/ORDERING.

NEGLIA GROUP
EXPERIENCED RESPONSIVE DEDICATED

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MOUNTAINSIDE
200 CENTRAL AVENUE, SUITE 102
MOUNTAINSIDE
NEW JERSEY 07092
PHONE: 201.939.8805
FAX: 732.943.7249
NEGLIAGROUP.COM

NO. | DATE | REVISION | DRAWN | DESIGNED | CHECKED

FINAL

A PRODUCT OF

NEGLIA GROUP

EVERETT PARK IMPROVEMENTS

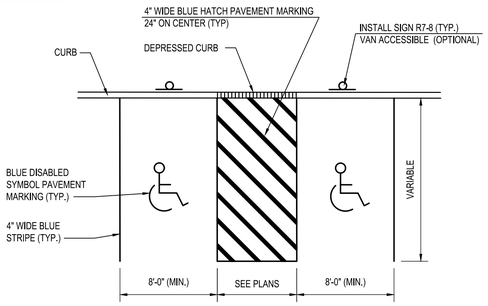
BLOCK 707 - LOT 10
TOWNSHIP OF VERONA
COUNTY OF ESSEX
STATE OF NEW JERSEY

ANTHONY KURUS, PE, PP
PROFESSIONAL ENGINEER N.J. LICENSE NO. 24GE04644500
PROFESSIONAL PLANNER N.J. LICENSE NO. 33LI00614500

MATEO F. LUZURIAGA, PE
PROFESSIONAL ENGINEER
N.J. LICENSE NO. 24GE06029800

CONSTRUCTION DETAILS II

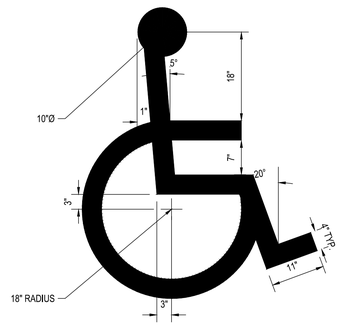
DRAWN BY:	M.F.L.	SCALE:	N.T.S.
DESIGNED BY:	M.F.L.	CHECKED BY:	A.K.
PROJECT NO.:	VEROMUN24.010		10.01
DATE:	NOVEMBER 2024		



NOTES:
1. ALL STRIPES TO BE 4" WIDE BLUE PAVEMENT PAINT.
2. DISABLED PARKING SYMBOL TO BE BLUE PAVEMENT PAINT.
3. ONE 8' DISABLED PARKING SPACE FOR VAN PLUS ONE 8' VAN ACCESSIBLE AISLE REQUIRED PER 8 DISABLED SPACES

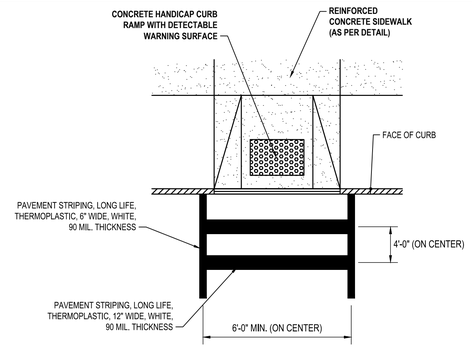
PAVEMENT MARKINGS: HANDICAP STALL

NOT TO SCALE



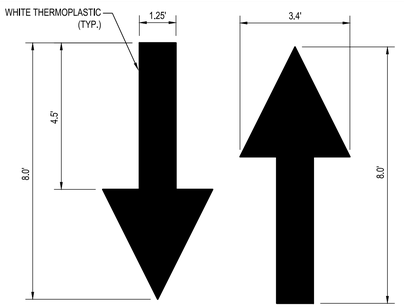
PAVEMENT MARKINGS: HANDICAP SYMBOL

NOT TO SCALE



PAVEMENT MARKINGS: CROSSWALK

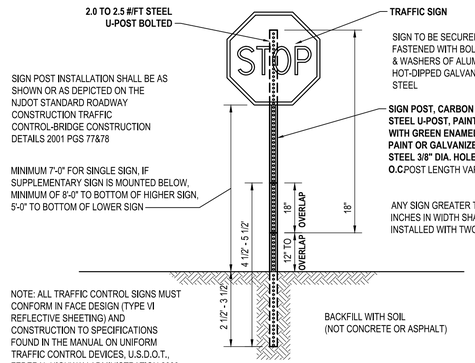
NOT TO SCALE



NOTE:
ALL STRIPES AND MARKINGS TO BE THERMOPLASTIC

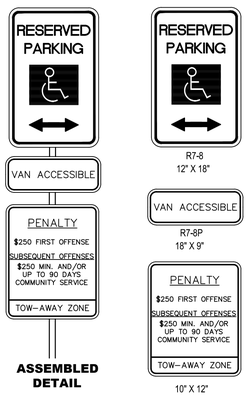
PAVEMENT MARKINGS: DIRECTIONAL ARROWS

NOT TO SCALE



SITE SIGNAGE

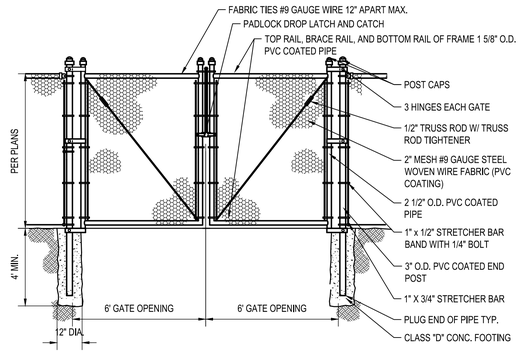
NOT TO SCALE



NOTES:
1. THE PARKING SPACE SHALL BE MARKED WITH AN R7-8 SIGN FROM THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY.
2. BENEATH THE R7-8 SIGN, THE PARKING SPACE SHALL ALSO BE MARKED WITH AN R7-8P SIGN, AS REQUIRED BY N.J.S.A. 39:4-197.3c.
3. THE BOTTOM EDGE OF THE R7-8 SIGN SHALL BE MOUNTED APPROXIMATELY 60 INCHES ABOVE THE PARKING LOT SURFACE.

HANDICAP PARKING STALL SIGNAGE

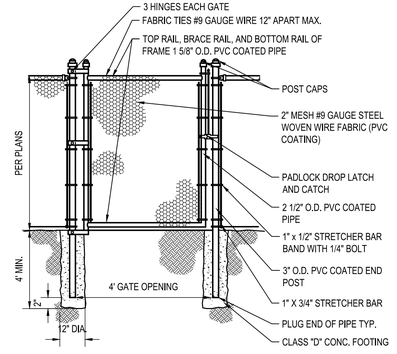
NOT TO SCALE



NOTE:
1. FOR GATES LARGER THAN 4'-0" INSTALL DIAGONAL BRACING WITH TURNBUCKLE.

DOUBLE - LEAF SWING GATE

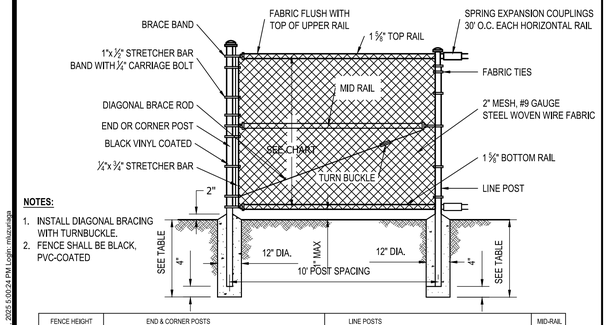
NOT TO SCALE



NOTE:
1. FOR GATES LARGER THAN 4'-0" INSTALL DIAGONAL BRACING WITH TURNBUCKLE.

SINGLE - LEAF SWING GATE

NOT TO SCALE

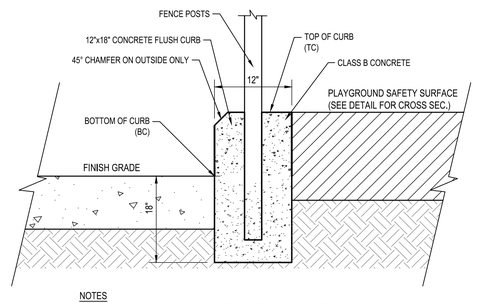


NOTES:
1. INSTALL DIAGONAL BRACING WITH TURNBUCKLE.
2. FENCE SHALL BE BLACK, PVC-COATED

FENCE HEIGHT	END & CORNER POSTS				LINE POSTS				MID-RAIL
NOMINAL HEIGHT	BAR LENGTH	HEIGHT ABOVE GRADE	SIZE (DIA.)	FOOTING DEPTH	BAR LENGTH	HEIGHT ABOVE GRADE	SIZE (DIA.)	FOOTING DEPTH	SIZE (DIA.)
4'-0"	7'-0"	3'-0 5/8" / 4'-0 5/8"	3"	3'-0"	7'-0"	3'-8 7/8"	2.5"	3'-0"	N/A
8'-0"	11'-0"	8'-0 5/8"	3"	3'-0"	11'-0"	7'-8 7/8"	2.5"	3'-0"	1-5/8"

CHAIN LINK FENCE

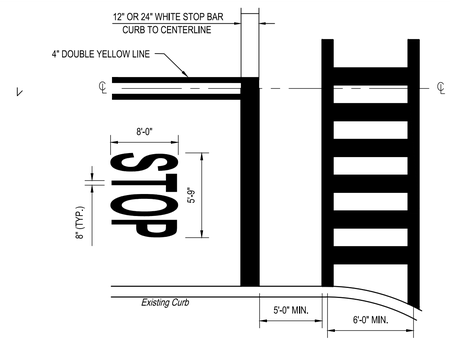
NOT TO SCALE



NOTES
1. ANY EARTHWORK, D.G.A. BASE COURSE OR H.M.A. BASE COURSE REQUIRED TO FILL THE TENNIS COURT TO THE PROPOSED CURB UP TO 2' FROM PROPOSED CURB SHALL BE INCLUDED IN THE UNIT PRICE OF THE CURB.
2. SEE GRADING PLAN FOR CURB ELEVATIONS AND LIMITS OF FLUSH CURB (FC)

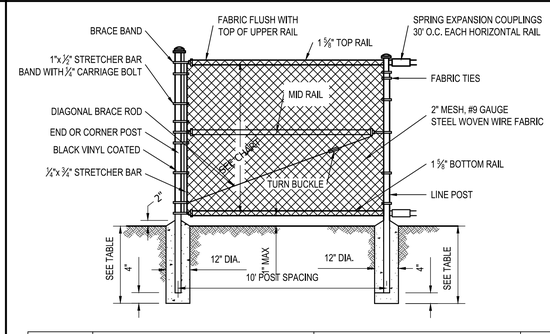
12"x18" CONC. CURB WITH FENCE POST

NOT TO SCALE



PAVEMENT MARKINGS: CROSSWALK & STOP BAR

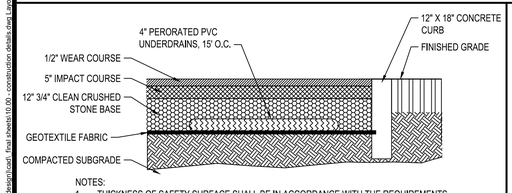
NOT TO SCALE



FENCE HEIGHT	END & CORNER POSTS				LINE POSTS				MID-RAIL
NOMINAL HEIGHT	BAR LENGTH	HEIGHT ABOVE GRADE	SIZE (DIA.)	FOOTING DEPTH	BAR LENGTH	HEIGHT ABOVE GRADE	SIZE (DIA.)	FOOTING DEPTH	SIZE (DIA.)
4'-0" [1524MM]	7'-0" [2438MM]	4'-0 5/8" [1540MM]	3"	3'-0"	7'-8" [2337MM]	3'-8 7/8" [1445MM]	2.5"	3'-0"	N/A

FALL PROTECTION CHAIN LINK FENCE

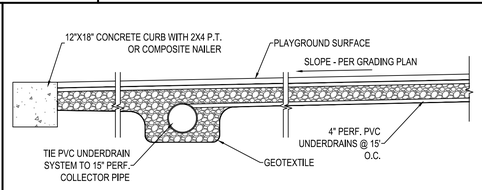
NOT TO SCALE



NOTES:
1. THICKNESS OF SAFETY SURFACE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS AS ENUMERATED IN THE C.P.S.C. STANDARDS AND A.S.T.M. F 1292-99.
2. UNIT PRICE SHALL INCLUDE FULL CROSS SECTION OF SAFETY SURFACE, CRUSHED STONE BASE, GEOTEXTILE FABRIC, EXCAVATION AND DISPOSAL OF ALL EXISTING SURFACE AND SUB-SURFACE MATERIALS IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

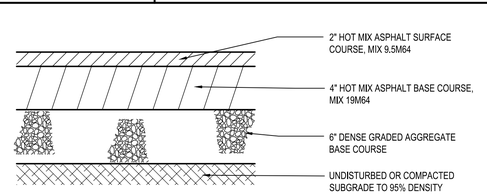
PLAYGROUND SAFETY SURFACE

NOT TO SCALE



PLAYGROUND SURFACE SECTION WITH UNDERDRAIN

NOT TO SCALE



FULL PAVEMENT SECTION

ASPHALT PAVEMENT SECTION

NOT TO SCALE

NEGLIA GROUP
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NEW JERSEY 07092
PHONE: 201.939.8805
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INFO@NEGLIAGROUP.COM
NEGLIAGROUP.COM

NO.	DATE	REVISION	DRAWN	DESIGNED	CHECKED

FINAL

A PRODUCT OF

NEGLIA GROUP

EVERETT PARK IMPROVEMENTS

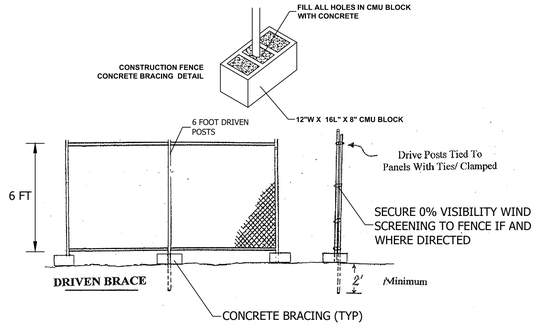
BLOCK 707 - LOT 10
TOWNSHIP OF VERONA
COUNTY OF ESSEX
STATE OF NEW JERSEY

ANTHONY KURUS, PE, PP
PROFESSIONAL ENGINEER
N.J. LICENSE NO. 24GE04654500
PROFESSIONAL PLANNER
N.J. LICENSE NO. 33LI00614500

MATEO F. LUZURIAGA, PE
PROFESSIONAL ENGINEER
N.J. LICENSE NO. 24GE06029800

CONSTRUCTION DETAILS III

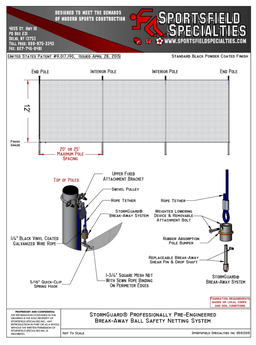
DRAWN BY:	M.F.L.	SCALE:	N.T.S.
DESIGNED BY:	M.F.L.	CHECKED BY:	A.K.
PROJECT NO.:	VEROMUN24.010		10.02
DATE:	NOVEMBER 2024		

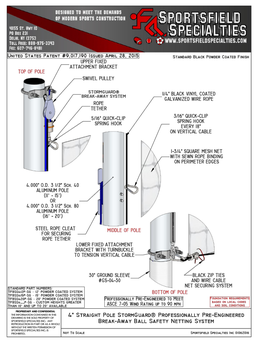


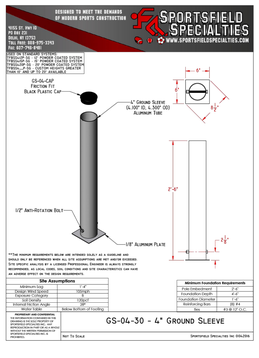
DRIVEN POST CHAIN LINK CONSTRUCTION FENCE - 6' HIGH

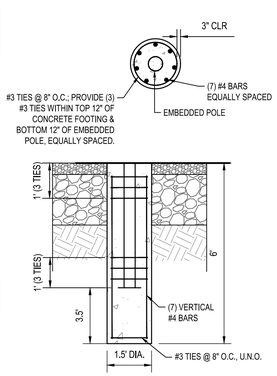
NOT TO SCALE

NOTE:
1. TEMPORARY CONSTRUCTION FENCE SHALL BE 6' HIGH WITH DRIVEN POSTS AS SHOWN OR APPROVED EQUAL.
2. FENCE SHALL BE INSTALLED WITH 0% VISIBILITY WIND SCREENING AS SHOWN OR APPROVED EQUAL.
3. CONCRETE BRACING SHALL BE AS SHOWN OR APPROVED EQUAL.
4. SHOP DRAWINGS SHALL BE PROVIDED PRIOR TO CONSTRUCTION.
5. SECURE GATED ACCESS SHALL BE PROVIDED.
6. LOCATION OF FENCING IS APPROXIMATE AND SHALL BE APPROVED BY TOWNSHIP AND ENGINEER PRIOR TO INSTALLATION.









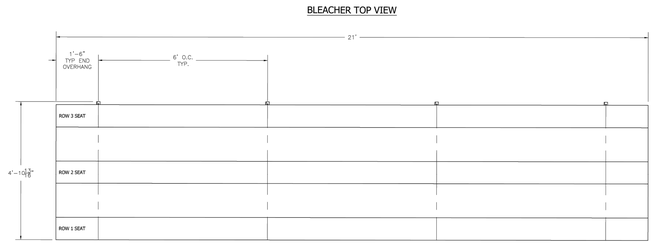
NOTES:

1. NETTING SYSTEM SHALL BE MODEL #TFBSS420P-SG-20' POWDER COATED SYSTEM AS MANUFACTURED BY: SPORTSFIELD SPECIALTIES, DELHI, NEW YORK, 13753, OR APPROVED EQUAL.
2. SEE CHAIN-LINK FENCE HEIGHTS ON FENCING PLAN FOR ONE COMPLETE SYSTEM.
3. CONCRETE FOOTING SHALL MEET 28-DAY STRENGTH OF 4,000 PSI.

ATHLETIC FIELD NETTING SYSTEM

NOT TO SCALE

BLEACHER TOP VIEW



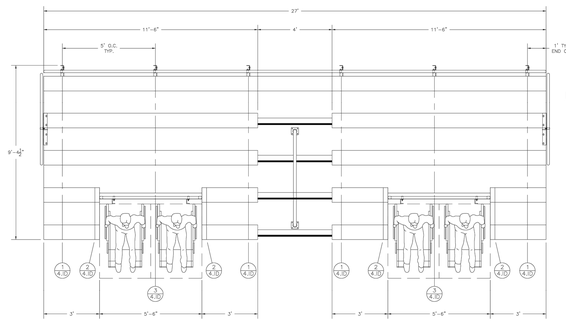
NOTE:
1. BLEACHERS SHALL BE NATIONAL RECREATION SYSTEM NON ELEVATED 3 ROW X 21' BLEACHER, MODEL NO. NB0321APRF OR APPROVED EQUAL.
2. CONTRACTOR SHALL INSTALL BLEACHER ON 6" REINFORCED CONCRETE PAD AS SHOWN ON THE PLANS.
3. CONTRACTOR TO INSTALL BLEACHERS AS PER MANUFACTURER'S SPECIFICATIONS.

National Recreation Systems
PH: 888-568-9064 FAX: 260-482-7449 WWW.BLEACHERS.NET

SECTION LENGTH	GROSS SEATS	ACTUAL SEATS	NO. OF ROWS	NET SEATS
21	14.00	14.00	3	42
		NET SEATS		42
		WHEELCHAIR SPACES		0
		TOTAL NET SEATING CAPACITY (BASED ON 18" PER SEAT)		42

BLEACHERS (21' LONG, 3 ROWS) DETAILS

NOT TO SCALE



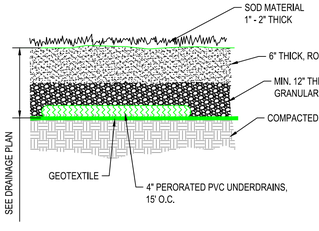
NOTE:
1. BLEACHERS SHALL BE BELSON OUTDOORS NON ELEV. ALUM 5 RPW 27 BLEACHER WITH VERTICAL PICKET GUARDRAIL, MODEL NO. BD-U0527V OR APPROVED EQUAL.
2. CONTRACTOR SHALL INSTALL BLEACHER ON 6" REINFORCED CONCRETE PAD AS SHOWN ON THE PLANS.
3. CONTRACTOR TO INSTALL BLEACHERS AS PER MANUFACTURER'S SPECIFICATIONS.

BELSON OUTDOORS
627 Amersale Drive
Naperville, IL 60563
Phone: (800) 323-5664
Fax: (630) 897-0573
sales@belson.com

SECTION LENGTH	GROSS SEATS	ACTUAL SEATS	NO. OF ROWS	NET SEATS
27	18.00	18.00	1	18
11.5	7.67	7.00	2	14
3	2.00	2.00	4	8
11.5	7.67	7.00	2	14
3	2.00	2.00	4	8
		NET SEATS		62
		WHEELCHAIR SPACES		4
		TOTAL NET SEATING CAPACITY (BASED ON 18" PER SEAT)		66

ADA ACCESSIBLE BLEACHERS (27' LONG, 5 ROWS) DETAILS

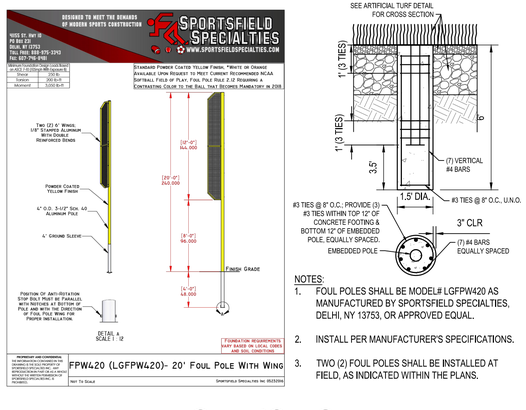
NOT TO SCALE



NOTE:
1. SEE SITE PLAN FOR NATURAL FIELD GRASS AREAS
2. COST OF ALL MATERIAL, LABOR, EQUIPMENT, 12" THICK LAYER OF WELL DRAINED GRANUALR SOILS/SANDY FILL, COMPACTION OF SUBGRADE, EXCAVATION AND DISPOSAL OF EXISTING SURFACE AND SUBSURFACE MATERIALS, 6" THICK LAYER OF ROOTZONE TOPSOIL, SOD MATERIAL, AND FIELD MARKING LINES SHALL BE PAID UNDER THE NATURAL GRASS PAY ITEM.

NATURAL GRASS FIELD SECTION WITH UNDERDRAINS

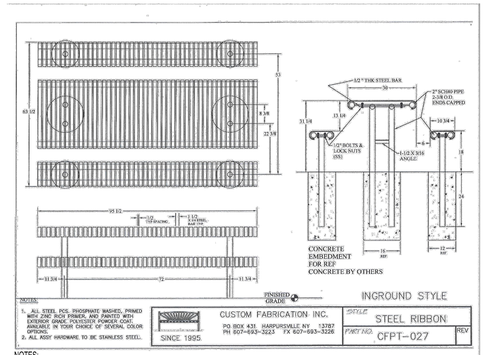
NOT TO SCALE



NOTES:
1. FOUL POLES SHALL BE MODEL# LGFPW420 AS MANUFACTURED BY SPORTSFIELD SPECIALTIES, DELHI, NY 13753, OR APPROVED EQUAL.
2. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
3. TWO (2) FOUL POLES SHALL BE INSTALLED AT FIELD, AS INDICATED WITHIN THE PLANS.

FOUL POLES

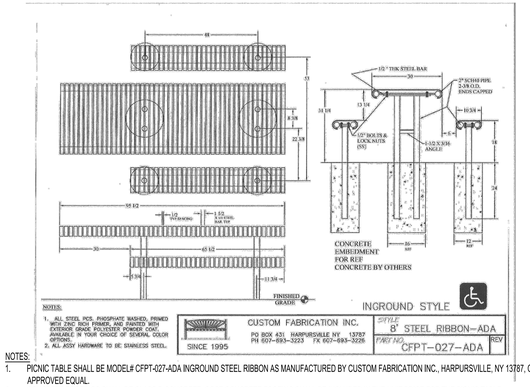
NOT TO SCALE



NOTES:
1. PICNIC TABLE SHALL BE MODEL# CFPT-027 INGROUND STEEL RIBBON AS MANUFACTURED BY CUSTOM FABRICATION INC., HARPURSVILLE, NY 13787, OR APPROVED EQUAL.
2. CONCRETE FOOTINGS SHALL BE CLASS B CONCRETE. COST CONCRETE FOOTING SHALL BE INCLUDED IN THE UNIT PRICE FOR THE PICNIC TABLE.
3. COLOR SHALL BE PINE GREEN AND SHOP DRAWINGS ARE TO BE SUBMITTED TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

STANDARD PICNIC TABLE DETAIL

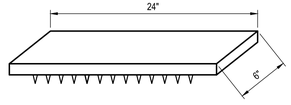
NOT TO SCALE



NOTES:
1. PICNIC TABLE SHALL BE MODEL# CFPT-027-ADA INGROUND STEEL RIBBON AS MANUFACTURED BY CUSTOM FABRICATION INC., HARPURSVILLE, NY 13787, OR APPROVED EQUAL.
2. CONCRETE FOOTINGS SHALL BE CLASS B CONCRETE. COST CONCRETE FOOTING SHALL BE INCLUDED IN THE UNIT PRICE FOR THE PICNIC TABLE.
3. COLOR SHALL BE PINE GREEN AND SHOP DRAWINGS ARE TO BE SUBMITTED TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

ADA PICNIC TABLE DETAIL

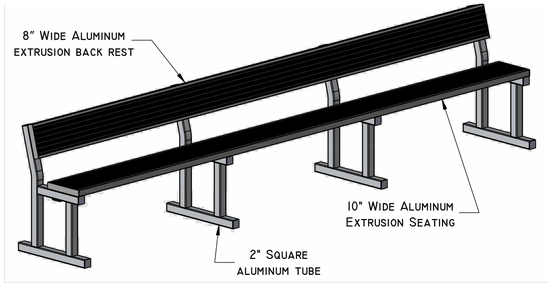
NOT TO SCALE

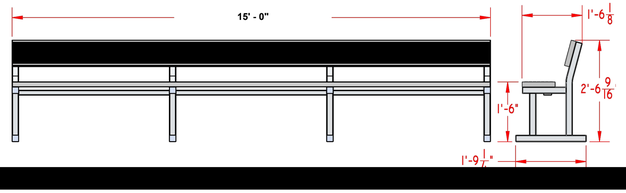


PITCHING RUBBER MODEL TO BE SELECTED PRIOR TO INSTALLTION

PITCHING RUBBER

NOT TO SCALE





NOTES:
1. BENCH SYSTEM SHALL BE MODEL #ATBBRPT15 AS MANUFACTURED BY: SPORTSFIELD SPECIALTIES, DELHI, NEW YORK, 13753, OR APPROVED EQUAL.
2. BENCHES SHALL BE ALUMINUM.
3. BENCHES TO INCLUDE ALL REQUIRED ANCHORING.
4. BENCHES TO BE POWDER COATED. COLOR TO BE DETERMINED BY OWNER AND ARCHITECT. CONTRACTOR TO PROVIDE COLOR SAMPLES FOR APPROVAL.

PLAYER'S BENCH

NOT TO SCALE

NEGLIA GROUP
EXPERIENCED RESPONSIVE DEDICATED

LYNDHURST
34 PARK AVENUE, PO BOX 426
LYNDHURST
NEW JERSEY 07071
PHONE: 201.939.8805
FAX: 201.939.0846
INFO@NEGLIAGROUP.COM

MOUNTAINSIDE
200 CENTRAL AVENUE, SUITE 102
MOUNTAINSIDE
NEW JERSEY 07092
PHONE: 201.939.8805
FAX: 732.943.7249
NEGLIAGROUP.COM

NO. | DATE | REVISION | DRAWN | DESIGNED | CHECKED

FINAL

A PRODUCT OF NEGLIA GROUP

EVERETT PARK IMPROVEMENTS

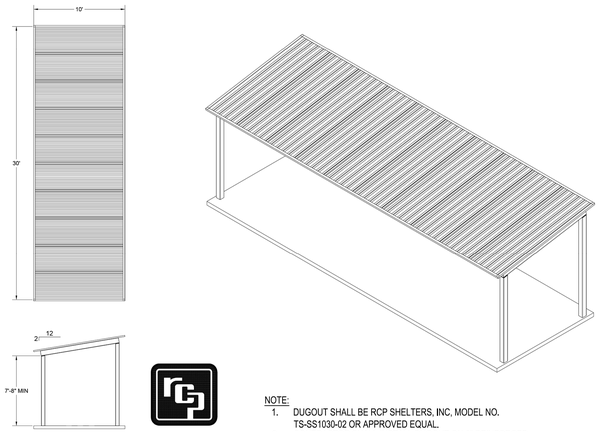
BLOCK 707 - LOT 10
TOWNSHIP OF VERONA
COUNTY OF ESSEX
STATE OF NEW JERSEY

ANTHONY KURUS, PE, PP
PROFESSIONAL ENGINEER N.J. LICENSE NO. 24GE04645500
PROFESSIONAL PLANNER N.J. LICENSE NO. 33LI00614500

MATEO F. LUZURIAGA, PE
PROFESSIONAL ENGINEER N.J. LICENSE NO. 24GE06029800

CONSTRUCTION DETAILS IV

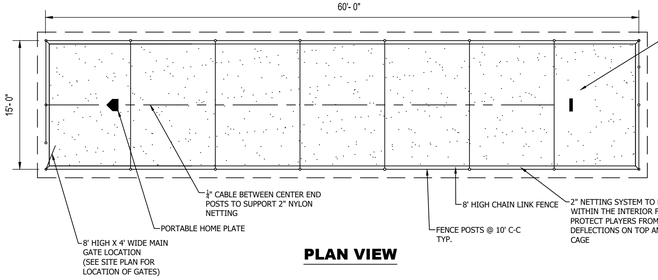
DRAWN BY:	M.F.L.	SCALE:	N.T.S.
DESIGNED BY:	M.F.L.	CHECKED BY:	A.K.
PROJECT NO.:	VEROMUN24.010		10.03
DATE:	NOVEMBER 2024		



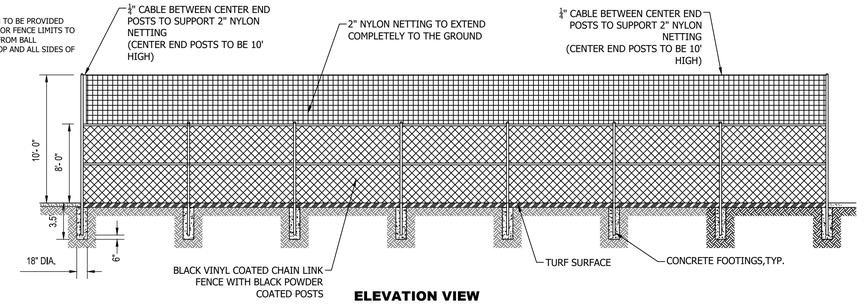
NOTE:
1. DUGOUT SHALL BE RCP SHELTERS, INC, MODEL NO. TS-SS1030-02 OR APPROVED EQUAL.
2. CONTRACTOR SHALL INSTALL DUGOUT ON 6" REINFORCED CONCRETE PAD AS SHOWN ON THE PLANS.
3. INSTALLATION OF DUGOUT SHALL BE DONE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

DUGOUT STRUCTURE (30'X10') DETAIL

NOT TO SCALE



PLAN VIEW



ELEVATION VIEW

NOTES:
1. HOMEPLATES SHALL BE MODEL# LGSHP-UM - SCHUTT HOLLYWOOD UNIVERSAL PRO STYLE HOMEPLATE AS MANUFACTURED BY SPORTSFIELD SPECIALTIES, DELHI, NY, 13753, OR APPROVED EQUAL.
2. BATTING CAGES BID SHALL INCLUDE THE NECESSARY CONDUIT INSTALLED FROM EXISTING BUILDING TO THE CAGES AND AN ELECTRICAL OUTLET SOURCE FOR AUTOMATIC PITCHING MACHINES.

BATTING CAGE DETAILS

NOT TO SCALE

- *Official Size Hollywood MLB® Universal Pro Style Home Plate with Seven Inch (7") Stanchion with One (1) Ground Anchor and One (1) Anchor Plug and Five (5) Zinc-Plated Mounting Spikes*
- *1¼" Thick*
- *18 lb. Shipping Weight*
- *Permanent or Removable Installations*
- *High Durability Molded Rubber Construction*

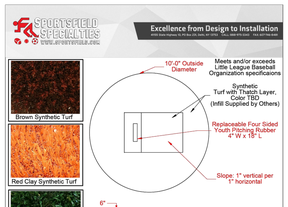
NOTES:
1. HOMEPLATES SHALL BE MODEL# LGSHP-UM - SCHUTT HOLLYWOOD UNIVERSAL PRO STYLE HOMEPLATE AS MANUFACTURED BY SPORTSFIELD SPECIALTIES, DELHI, NY, 13753, OR APPROVED EQUAL.
2. INSTALL PER MANUFACTURER'S SPECIFICATIONS.

HOMEPLATE

- *Hollywood Impact Base: Set of Three (3) with Three (3) Anchors and Plugs*
- *Patented Chevron Design; Compresses Upon Impact*
- *15" x 15" x 2-1/2" / 6" Stanchions*

NOTES:
1. BASES SHALL BE MODEL# LGHIBL - SCHUTT HOLLYWOOD IMPACT BASES AS MANUFACTURED BY SPORTSFIELD SPECIALTIES, DELHI, NY, 13753, OR APPROVED EQUAL.
2. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
3. THE BASEBALL FIELD SHALL BE EQUIPPED WITH THREE (3) BASES COMPLIANT WITH NATIONAL LITTLE LEAGUE REQUIREMENTS.

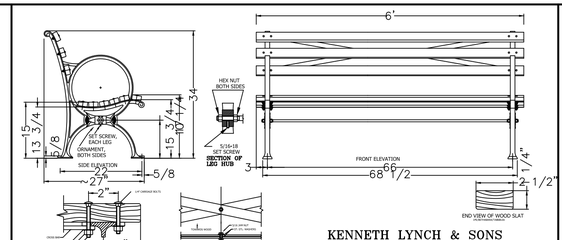
BASES



Synthetic Turf Porta-Pitch
Portable Little League Pitcher's Mound

NOTES:
1. THE LITTLE LEAGUE PORTABLE PITCHING MOUND MOUND SHALL BE MODEL# PPLLGIT - SYNTHETIC TURF PORTAPITCH PORTABLE LITTLE LEAGUE PITCHER'S MOUND AS MANUFACTURED BY SPORTSFIELD SPECIALTIES, DELHI, NY, 13753, OR APPROVED EQUAL.
2. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
3. THE COLOR OF THE PITCHING MOUND SHALL BE BROWN AND SHOP DRAWINGS SHALL BE PROVIDED TO TOWNSHIP AND ENGINEER FOR FINAL APPROVAL PRIOR TO CONSTRUCTION.

LITTLE LEAGUE PORTABLE PITCHING MOUND



KENNETH LYNCH & SONS
114 WILLENBROCK ROAD OXFORD CT 06478
203-264-2831 FAX 203-264-2833

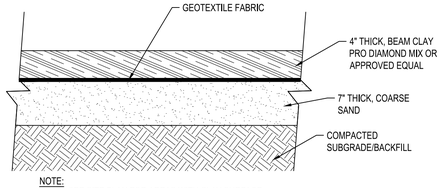
MATERIALS:
X-BRACING: 3/16" X 1 1/4" HOT ROLLED STEEL
BENCH LEGS: CAST DUCTILE IRON
WOOD SLATS: IPE (BETHABARA)/TABEBUIA
SMALL FASTENERS (CARRIAGE BOLTS, NUTS AND WASHERS) STAINLESS STEEL
TIE ROD: 5/8" DIA HOT ROLLED STEEL WITH 5/8 – 11 CUT THREADS & STEEL HEX NUTS

6737 WORLDS FAIR BENCH		
Scale FAX	Date 7/22/96	Drawn S.L.A.
6' LONG BENCH		Rev. 4/19/01
MAT: SEE NOTES		#6737-6FX

NOTES:
1. 6' PARK BENCH SHALL BE AS SHOWN OR EQUAL TO BE APPROVED BY TOWNSHIP & ENGINEER.
2. COLOR OF FRAME TO BE BLACK AND WOOD SLATS COLOR TO BE CEDAR. FINAL COLOR SELECTION TO BE APPROVED BY TOWNSHIP PRIOR TO PURCHASING.
3. PARK BENCH SHALL BE INSTALLED WITH PERMANENT MOUNTING HARDWARE ACCORDING TO MANUFACTURER'S SPECIFICATION.
4. SEE SITE PLAN FOR LOCATIONS.

PARK BENCH

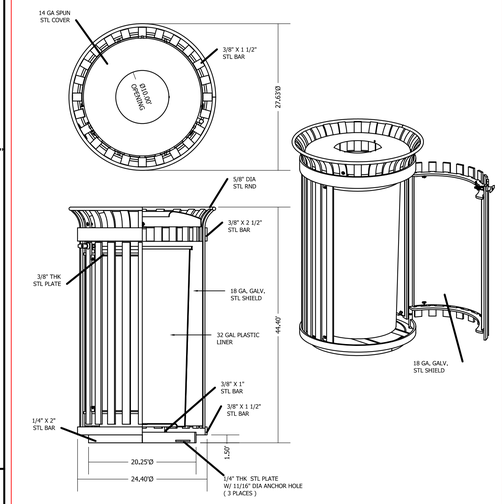
NOT TO SCALE



NOTE:
1. SEE SITE PLAN FOR AREAS WITH CLAY SURFACE
2. CLAY SURFACE SHALL BE A MINIMUM OF 4" THICK
3. CLAY SURFACE SHALL BE BEAM CLAY PRO DIAMOND MIX OR APPROVED EQUAL BY TOWNSHIP AND ENGINEER. SHOP DRAWINGS TO PROVIDED.
4. COLOR OF CLAY SURFACE SHALL BE RED. FINAL COLOR SELECTION SHALL BE APPROVED BY TOWNSHIP AND ENGINEER PRIOR TO PURCHASING.
5. COST OF ALL MATERIAL, LABOR, EQUIPMENT, 7" THICK LAYER OF COARSE SAND, EXCAVATION AND DISPOSAL OF EXISTING SURFACE AND SUBSURFACE MATERIALS, 4" THICK CLAY, CLAY INFIELD CONDITIONER, FIELD MARKING LINES, SHALL BE PAID UNDER THE CLAY INFIELD/ON DECK SKIN AREAS COMPLETE PAY ITEM.

CLAY SURFACE SECTION

NOT TO SCALE



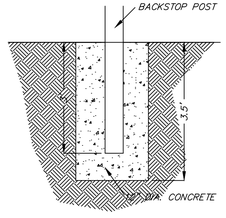
NOTES:
1.) ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.
2.) 1/2" X 3 3/4" EXPANSION ANCHOR BOLTS PROVIDED.

DuMor, inc. | RECEPTACLE | DATE DRAWN : 01/21/14 | DRAWN BY : RDH | DATE REV. : 11/09/20 | REV. BY : RDH | REV. C | DRAWING NUMBER 438-32SH W/ CVB-20-FTO | SHEET 1 OF 2

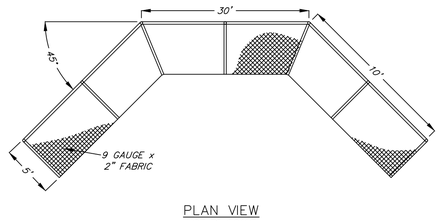
TRASH AND RECYCLE RECEPTACLES

NOT TO SCALE

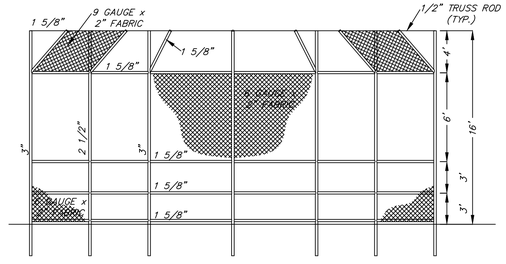
NOTES:
1. TRASH & RECYCLE RECEPTACLE SHALL BE AS SHOW OR APPROVED EQUAL BY TOWNSHIP & ENGINEER.
2. TRASH RECEPTACLE AND RECYCLE RECEPTACLE COLORS SHALL BE BLACK OR APPROVED BY TOWNSHIP & ENGINEER.
3. RECYCLE RECEPTACLE SHALL BE RETROFITTED WITH DUMOR INC., RC-RECYCLED LID AS SHOW OR APPROVED EQUAL. COLOR TO BE SELECTED BY TOWNSHIP & ENGINEER.
4. TRASH AND RECYCLE RECEPTACLE SHALL BE INSTALLED WITH PERMANENT MOUNTING HARDWARE ACCORDING TO MANUFACTURER'S SPECIFICATION
5. SEE SITE PLAN FOR LOCATIONS. TOWNSHIP TO CONFIRM FINAL LOCATIONS PRIOR TO INSTALLATION.



POST DETAIL
NOT TO SCALE



PLAN VIEW
NOT TO SCALE



FRONT ELEVATION
NOT TO SCALE

BACKSTOP DETAIL

NOT TO SCALE

NEGLIA GROUP
EXPERIENCED RESPONSIVE DEDICATED

LYNDHURST
34 PARK AVENUE, PO BOX 426
LYNDHURST
NEW JERSEY 07071
PHONE: 201.939.8805
FAX: 201.939.0846
INFO@NEGLIAGROUP.COM

MOUNTAINSIDE
200 CENTRAL AVENUE, SUITE 102
MOUNTAINSIDE
NEW JERSEY 07092
PHONE: 201.939.8805
FAX: 732.943.7249
NEGLIAGROUP.COM

NO.	DATE	REVISION
		CHECKED
		DESIGNED
		DRAWN

FINAL

A PRODUCT OF

NEGLIA GROUP

EVERETT PARK IMPROVEMENTS

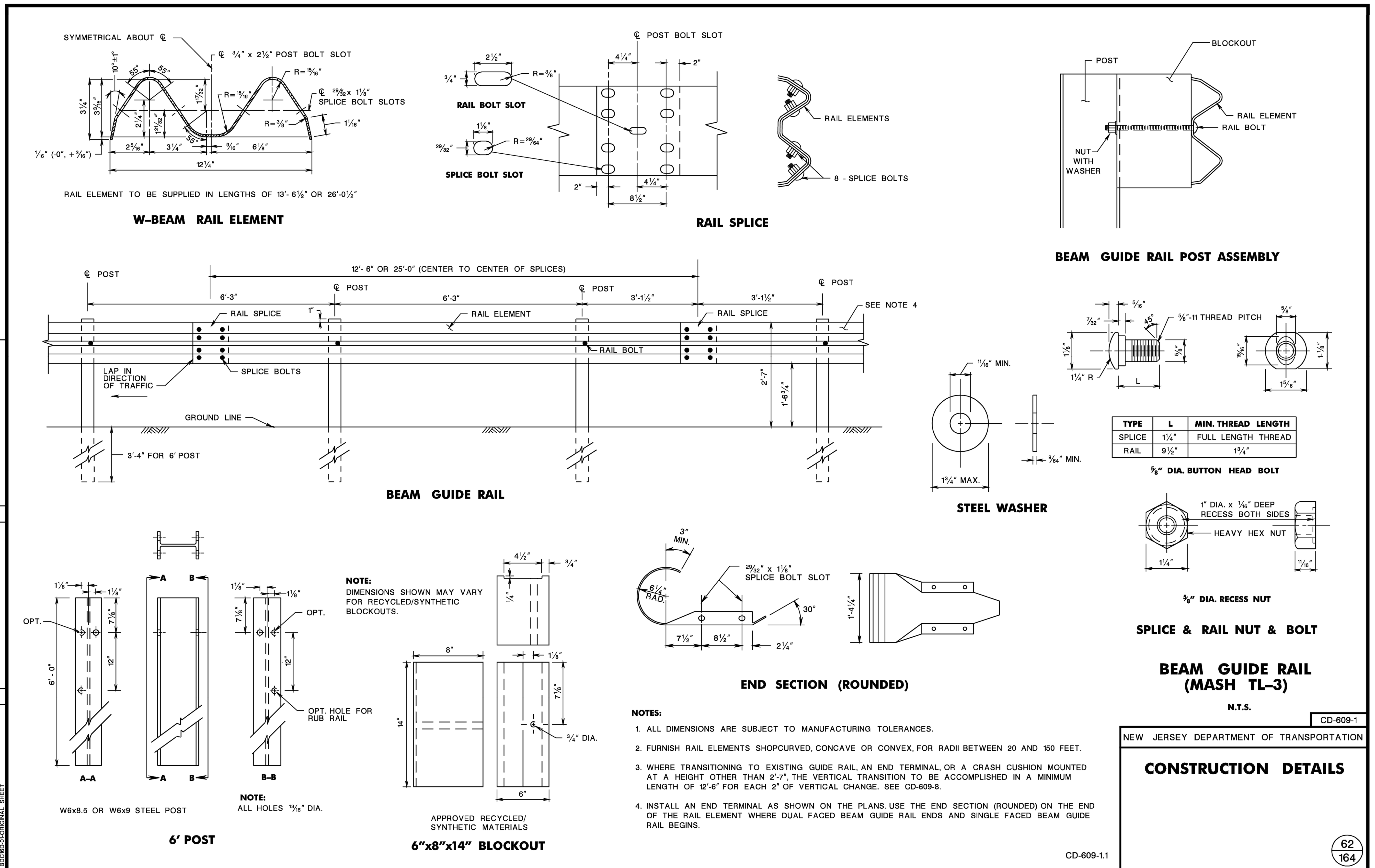
BLOCK 707 - LOT 10
TOWNSHIP OF VERONA
COUNTY OF ESSEX
STATE OF NEW JERSEY

ANTHONY KURUS, PE, PP
PROFESSIONAL ENGINEER
N.J. LICENSE NO. 24GE04644500
PROFESSIONAL PLANNER
N.J. LICENSE NO. 33L100614500

MATEO F. LUZURIAGA, PE
PROFESSIONAL ENGINEER
N.J. LICENSE NO. 24GE06029800

CONSTRUCTION DETAILS V

DRAWN BY:	M.F.L.	SCALE:	N.T.S.
DESIGNED BY:	M.F.L.	CHECKED BY:	A.K.
PROJECT NO.: VEROMUN24.010			
DATE: NOVEMBER 2024			10.04

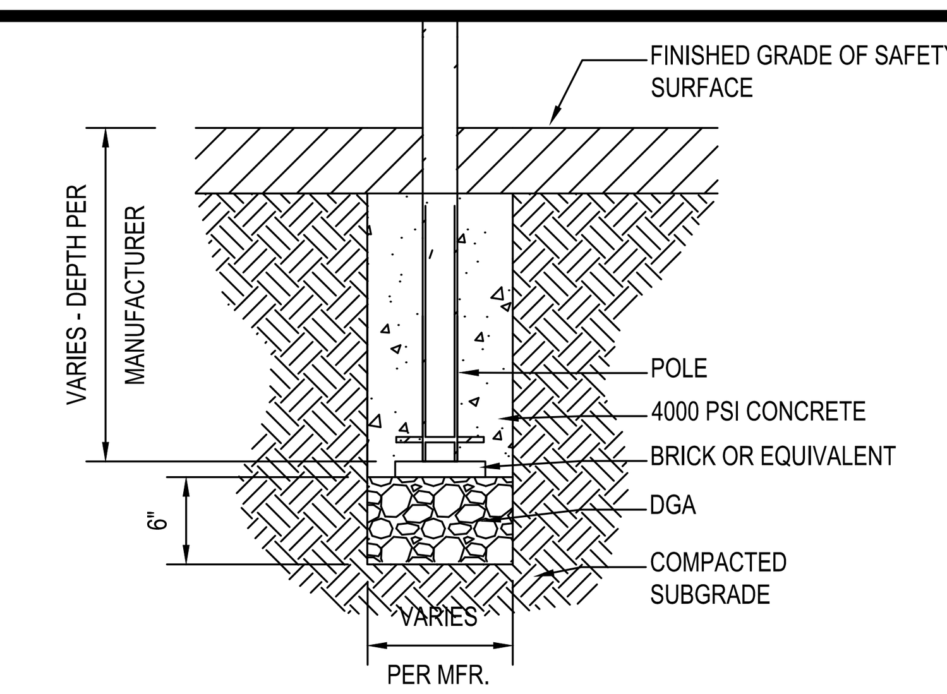


BEAM GUIDE RAIL DETAIL

NOTES:
- CUSTOM SIGN SHALL BE AS SHOWN OR APPROVED EQUAL.
- CUSTOM SIGN SHALL BE CONSTRUCTED WITH EXTERIOR GRADE REDWOOD TO BE ROUTED, SEALED, AND PAINTED TO PROVIDE WEATHER RESISTANT, DURABLE, EXTERIOR GRADE CUSTOM WOOD SIGN.
- CONTRACTOR TO PROVIDE COLORIZED SIGN MOCK UP WITH TEXT AND LETTERING ALONG WITH SHOP DRAWINGS FOR REVIEW PRIOR TO ORDERING SIGN.
- CONTRACTORS PRICE BID FOR CUSTOM SIGN SHALL INCLUDE SHOP DRAWINGS, SIGN MOCK-UP, AND ALL NECESSARY WORK FOR WALL INSTALLATION.
- AS PROVIDED BY AMERICAN WOODCRAVING OR APPROVED EQUAL.

CONTACT INFORMATION: AMERICAN WOODCARVING
1123 ROUTE 23 S.,WAYNE, NJ 07470
973.885.8510

DECORATIVE MAIN ENTRANCE SIGN DETAIL

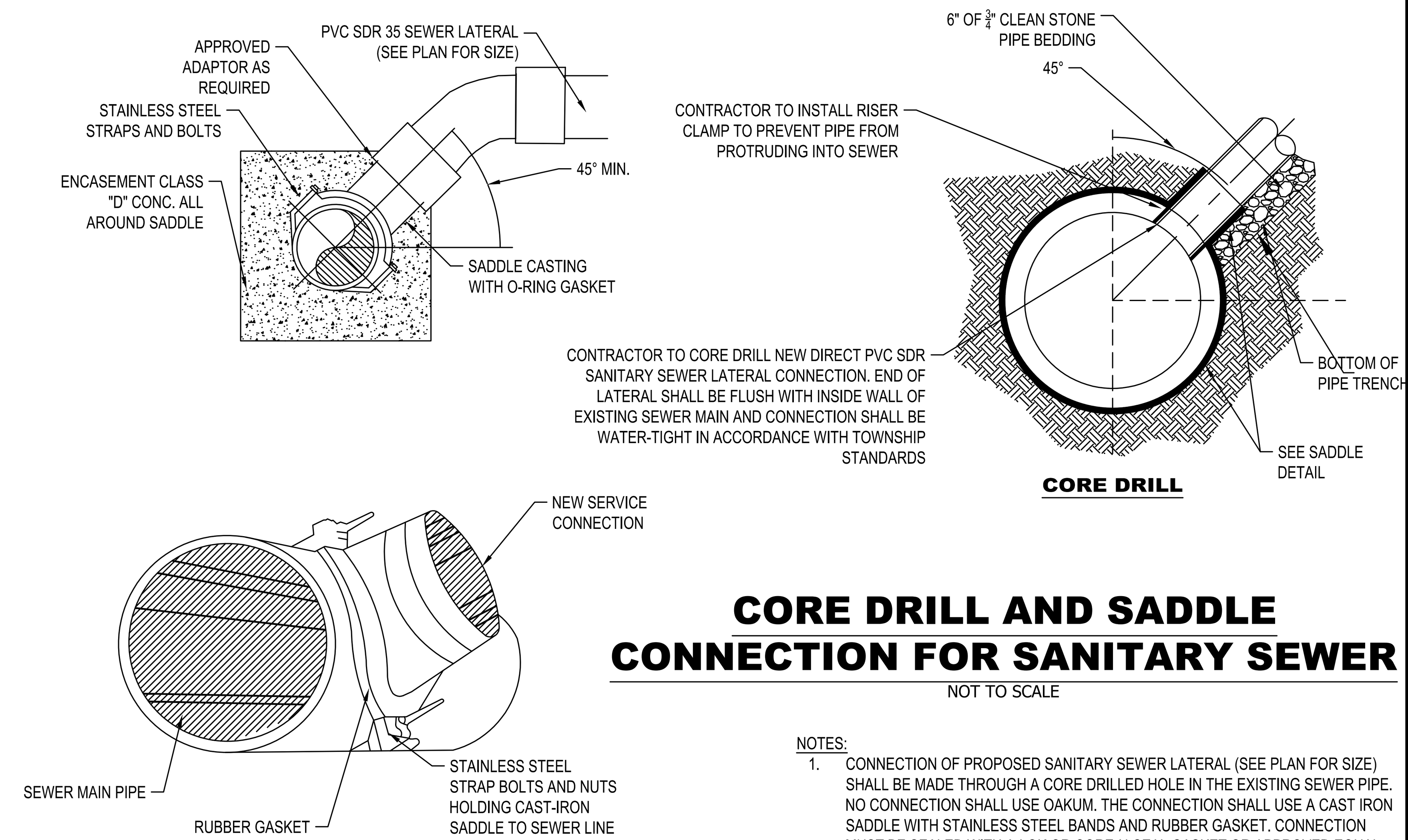


NOTES:

1. CONTRACTOR TO CONSTRUCT PLAYGROUND FOOTINGS AS PER MANUFACTURER SPECIFICATIONS AND RECOMMENDATIONS.

TYPICAL PLAYGROUND EQUIPMENT FOOTING

NOT TO SCALE

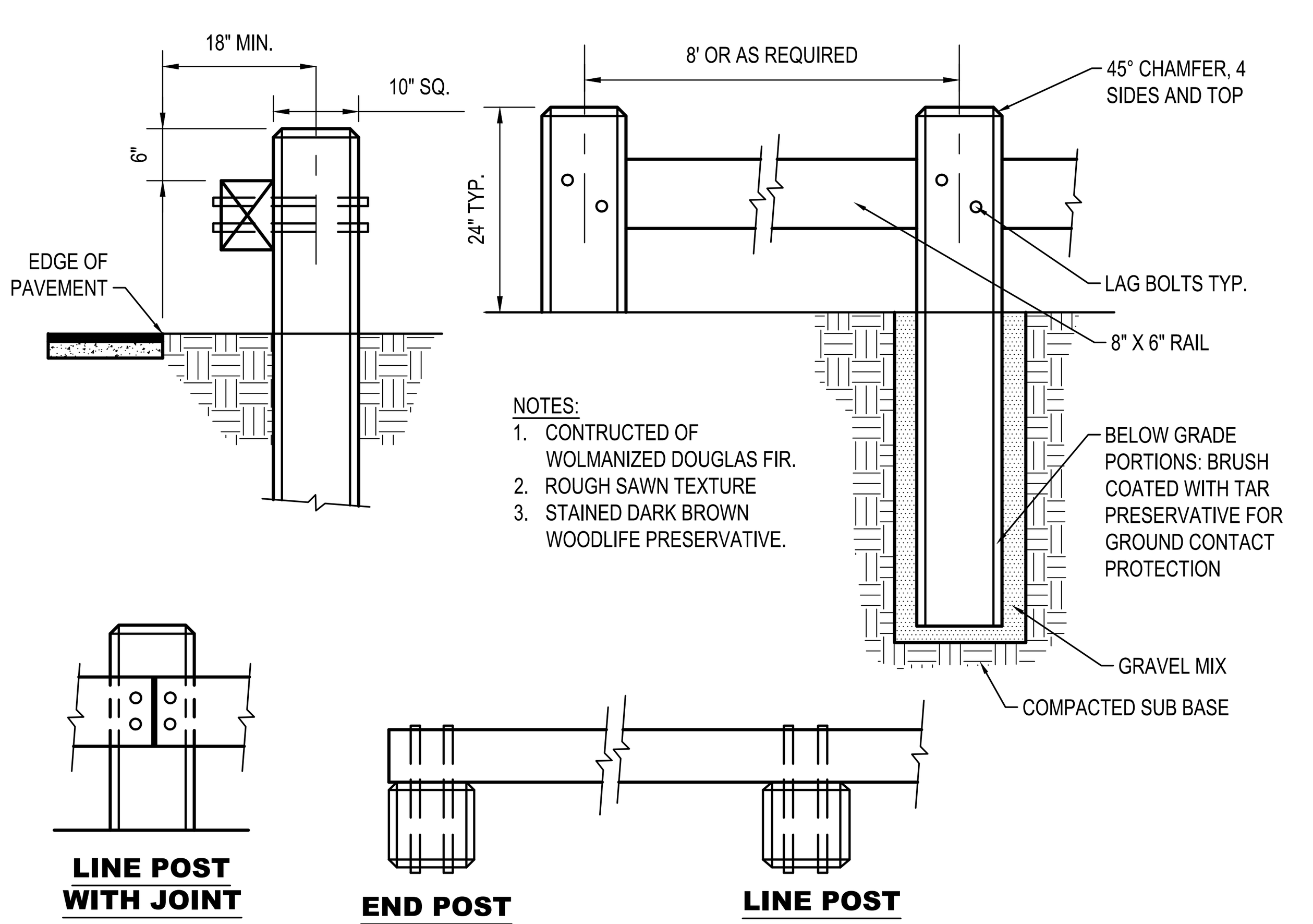


CORE DRILL AND SADDLE CONNECTION FOR SANITARY SEWER

NOT TO SCALE

NOTES:

1. CONNECTION OF PROPOSED SANITARY SEWER LATERAL (SEE PLAN FOR SIZE) SHALL BE MADE THROUGH A CORE DRILLED HOLE IN THE EXISTING SEWER PIPE. NO CONNECTION SHALL USE OAKUM. THE CONNECTION SHALL USE A CAST IRON SADDLE WITH STAINLESS STEEL BANDS AND RUBBER GASKET. CONNECTION MUST BE MADE WITH A-LOK OR CORE-N-SEAL GASKET OR APPROVED EQUAL SADDLE TO PREVENT LEAKAGE. THE CONTRACTOR IS RESPONSIBLE FOR STABILIZATION OF THE EXISTING SEWER MAIN, STRUCTURES, AND APPURTENANCES DURING CONNECTION.



NOTES:

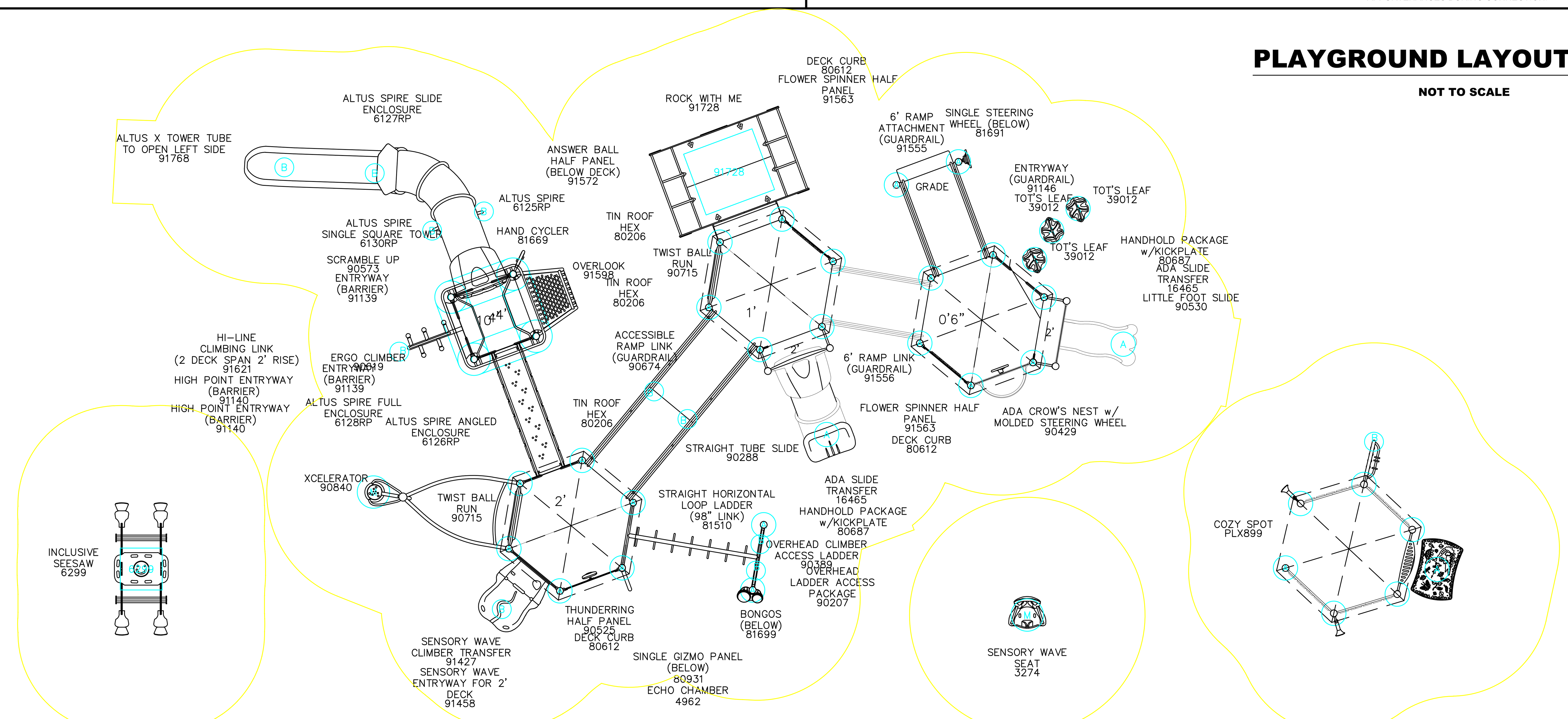
1. CONTRUCTED OF WOLMANIZED DOUGLAS FIR.
2. ROUGH SAWN TEXTURE
3. STAINED DARK BROWN WOODLIFE PRESERVATIVE.

TIMBER GUIDE RAIL

NOT TO SCALE

PLAYGROUND LAYOUT DETAIL

NOT TO SCALE



NEGLIA GROUP
EXPERIENCED DEDICATED RESPONSIVE

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CHECKED | DESIGNED | DRAWN | REVISION | DATE | NO.

FINAL

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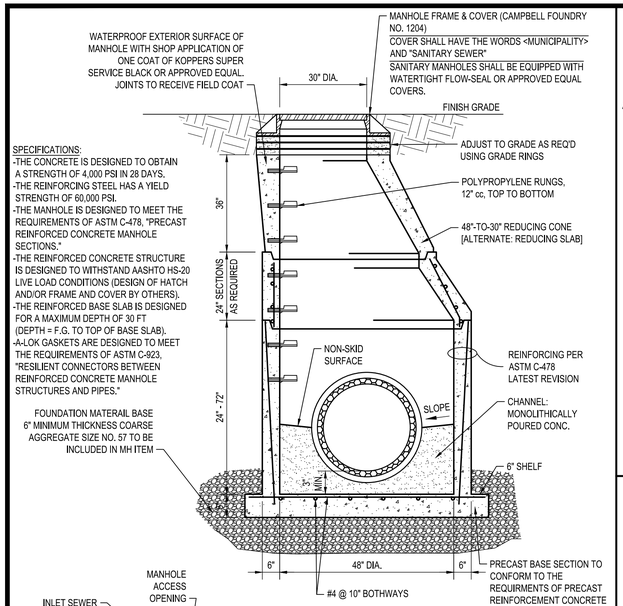
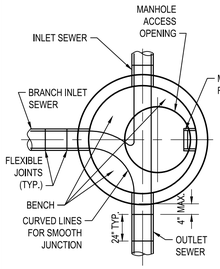
CONSTRUCTION DETAILS VI

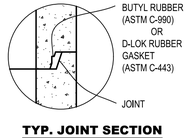
DRAWN BY:	M.F.L.	SCALE:	N.T.S.
DESIGNED BY:	M.F.L.	CHECKED BY:	A.K.
PROJECT NO.: VEROMUN24.010		10.05	
DATE: NOVEMBER 2024			



SECTION VIEW



PLAN

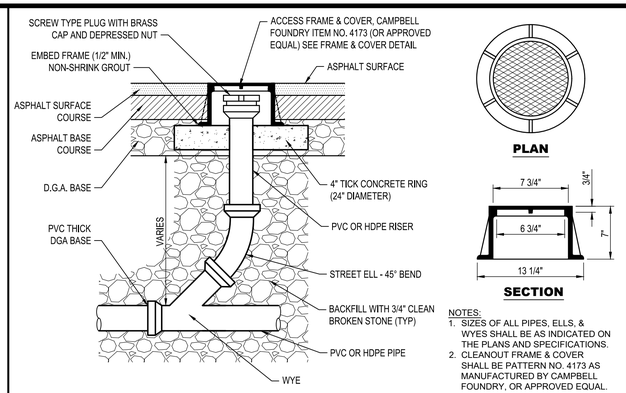


TYP. JOINT SECTION

A-LOK GASKET SECTION

SANITARY MANHOLE, 48" DIAMETER

NOT TO SCALE

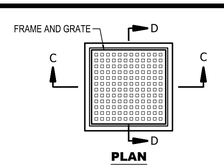


SECTION

NOTES:
1. SIZES OF ALL PIPES, ELLS, & WYES SHALL BE AS INDICATED ON THE PLANS AND SPECIFICATIONS.
2. CLEANOUT FRAME & COVER SHALL BE PATTERN NO. 4173 AS MANUFACTURED BY CAMPBELL FOUNDRY, OR APPROVED EQUAL.

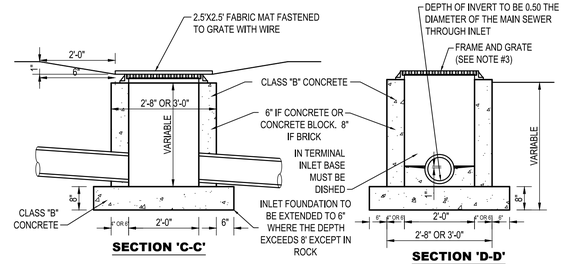
CLEANOUT WITH ACCESS FRAME

NOT TO SCALE



PLAN

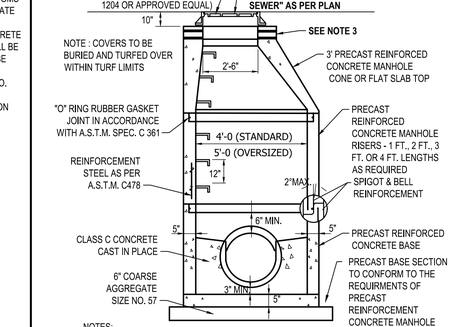
NOTES:
1. INVERTS TO BE ELIMINATED IN BOTTOM OF TERMINAL INLETS. BOTTOMS SHALL BE DISHED AND SLOPED TOWARDS THE OUTLET PIPE AT A RATE OF GRADE OF 2 INCHES PER FOOT.
2. THIS INLET MAY BE CONSTRUCTED OF BRICK, CONCRETE OR CONCRETE BLOCK. IF BRICK OR CONCRETE BLOCK IS USED, THE BOTTOM SHALL BE AS SHOWN FOR CONCRETE & THE OUTSIDE OF THE WALLS SHALL BE PLASTERED WITH 1/2" COAT OF 1:2 CEMENT SAND MORTAR.
3. INLET FRAME AND GRATES TO BE CAMPBELL FOUNDRY PATTERN NO. 3193 OR APPROVED EQUAL.
4. INLET FRAME AND GRATES TO BE ADA-COMPLIANT WHERE NOTED ON THE PLANS.



SECTION 'C-C' **SECTION 'D-D'**

24"x 24" CATCH BASIN

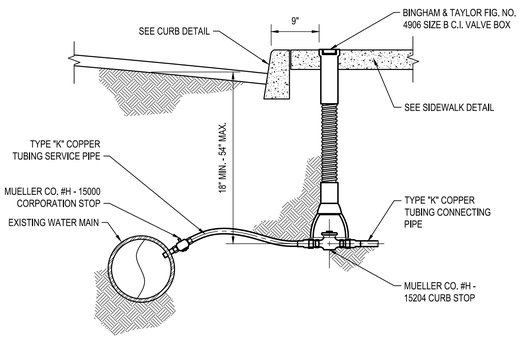
NOT TO SCALE



NOTES:
1. ALL PIPES ARE TO BE CUT FLUSH WITH STRUCTURE WALL.
2. COST FOR FRAME AND COVER ARE INCLUDED IN THE BID PRICE FOR THE STRUCTURE.
3. SHOP DRAWINGS MUST BE SUBMITTED BY A NEW JERSEY PROFESSIONALLY LICENSED ENGINEER FOR ALL PROPOSED PRECAST STRUCTURES THREE (3) WEEKS PRIOR TO CONSTRUCTION.

PRECAST CONCRETE MANHOLE

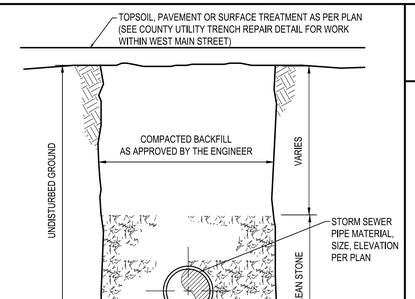
NOT TO SCALE



NOTES:
1. CONTRACTOR TO CONFIRM ALL EQUIPMENT, PIPING, AND INSTALLATION WITH RESPECTIVE UTILITY COMPANY.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL CONNECTIONS WITH THE UTILITY COMPANY.

WATER SERVICE INSTALLATION

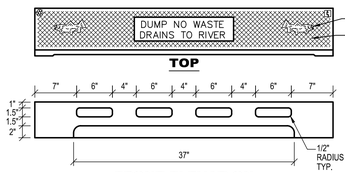
NOT TO SCALE



NOTES:
SAWCUTTING, EXCAVATION, DISPOSAL OF FILL MATERIAL REMOVED FROM TRENCH, BEDDING, PIPE, DGA BACKFILL, SURFACE REPAIR, COMPACTION SHALL BE PAID UNDER THE PIPE ITEM IN THE BID PROPOSAL.

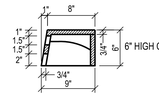
TRENCH FOR STORM SEWER

NOT TO SCALE

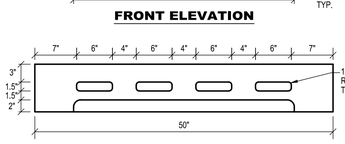


TOP

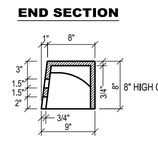
FRONT ELEVATION



END SECTION



FRONT ELEVATION

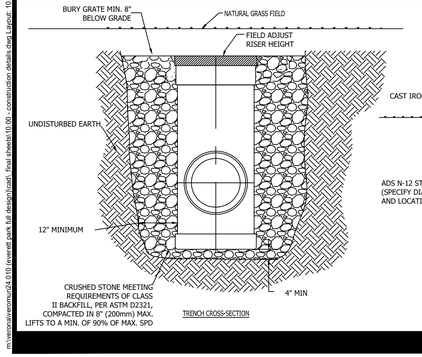


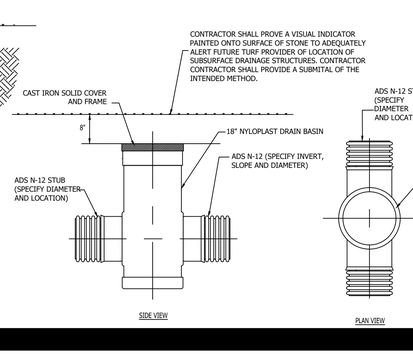
END SECTION

NOTES:
1. MATERIAL: GRAY CAST IRON ASTM A48-83, CLASS 30B
2. IN RETROFIT SITUATIONS THIS CURB PIECE (HEAD) WILL FIT EXISTING CAMPBELL FOUNDRY CO. MANUFACTURED CURB INLETS FOR NJDOT TYPES B, B-1, B-2, D, D-1, AND D-2
3. NAMEPLATE MESSAGE CAN BE MODIFIED TO YOUR SPECIFIC NEEDS WITHIN AREA SHOWN
4. CASTING SUPPLIED WITHOUT SURFACE COATING

CURB PIECE TYPE N-ECO

NOT TO SCALE

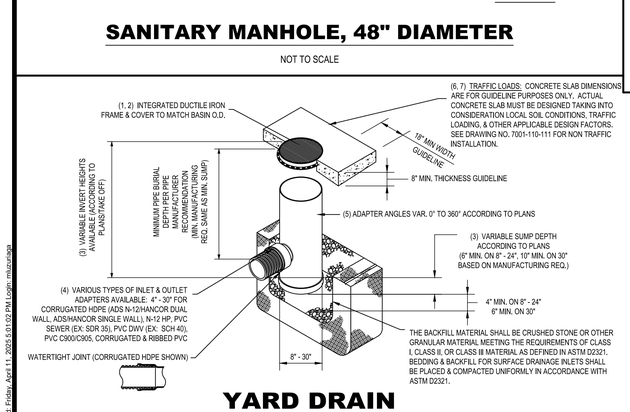




NOTES
1. ANGLE BETWEEN ADAPTERS MAY VARY DEPENDING ON THE CONECTION. CONSULT MANUFACTURER FOR MINIMUM ANGLE BETWEEN ADAPTERS.
2. THE CONTRACTOR MAY ORDER DRAINAGE BASIN WITH ADAPTERS PREMADE OR UTILIZE ADD A BRANCH SYSTEM AS NECESSARY

BURIED YARD DRAIN

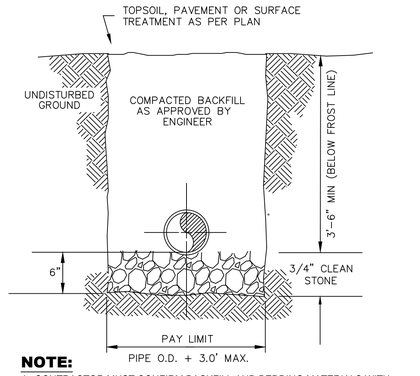
NOT TO SCALE



YARD DRAIN

NOT TO SCALE

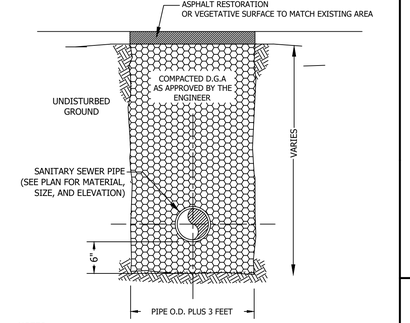
NOTES:
1 - 8"- 30" SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - 12" - 30" FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05. 8" & 10" SOLID COVERS FIT DIRECTLY ONTO DRAIN BASINS WITH THE USE OF A PVC BODY TOP. SEE DRAWING NO. 7001-110-045.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 24"),
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
6 - 12" - 30" SOLID COVERS SHALL MEET H-20 LOAD RATING.
7 - 8" & 10" SOLID COVERS ARE RATED FOR LIGHT DUTY APPLICATIONS ONLY: NO CONCRETE COLLAR NEEDED FOR LIGHT DUTY RATING.
8 - YARD INLETS TO BE ADS NYLOPLAST STRUCTURES, OR APPROVED EQUIVALENTS; CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL INLETS.



NOTE:
1. CONTRACTOR MUST CONFIRM BACKFILL AND BEDDING MATERIALS WITH LOCAL WATER UTILITY PURVEYOR.

WATER SERVICE TRENCH DETAIL

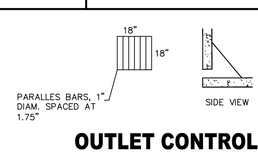
NOT TO SCALE



NOTES:
SAWCUTTING, EXCAVATION, DISPOSAL OF FILL MATERIAL REMOVED FROM TRENCH, BEDDING, PIPE, DGA BACKFILL, SURFACE REPAIR, COMPACTION SHALL BE PAID UNDER THE PIPE ITEM IN THE BID PROPOSAL.

TRENCH FOR SANITARY SEWER

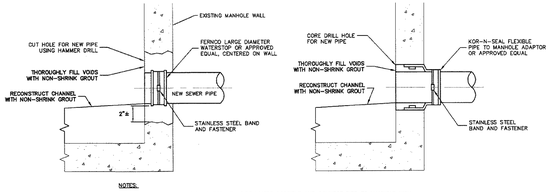
NOT TO SCALE



NOTES:
1. PARALLEL BARS SHALL BE SPACED AT 1.75".
2. TRASH RACK SHALL BE CONSTRUCTED OF RIGID, DURABLE, AND CORROSIVE RESISTANT STEEL OR APPROVED EQUAL AND SHALL WITHSTAND A PERPENDICULAR LIVE LOADING OF 300 LBS/SF.
3. TRASH RACK TO BE MOUNTED WITHIN THE SIDE WALL AND BASE OF THE OUTLET STRUCTURES AT LOW FLOW ORIFICE LOCATION, AT A 45 DEGREE ANGLE.

OUTLET CONTROL STRUCTURE TRASH RACK

NOT TO SCALE



NOTES:
1. CORE DRILL WALL OPENING FOR NEW PIPE WHERE POSSIBLE AND CONNECT PIPE TO MANHOLE WITH KOR-N-SEAL TYPE FLEXIBLE ADAPTOR.
2. WHERE EXISTING MANHOLE CONSTRUCTION PRECLUDES CORE DRILLING CUT WALL OPENING WITH HAMMER DRILL AND UTILIZE FERNCO TYPE WATER STOP.
3. NON-SHRINK GROUT TO BE FIVE STAR STRUCTURAL CONCRETE OR APPROVED EQUAL.
4. FOR LARGE DIAMETER PIPE PENETRATIONS (>15"ø) SEE WALL PENETRATION DETAIL ON THIS SHEET.
5. FOR CONNECTING RCP PIPE, RX-WATERSTOP, OR APPROVED EQUAL, SHALL BE INSTALLED AROUND CIRCUMFERANCE OF PIPE AND CENTERED ON MANHOLE WALL.

EXISTING MANHOLE/CHAMBER WALL PIPE PENETRATION

(NOT TO SCALE)

NEGLIA GROUP
EXPERIENCED RESPONSIVE DEDICATED

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NEGLIAGROUP.COM

NO.	DATE	REVISION	DRAWN	DESIGNED	CHECKED

FINAL

A PRODUCT OF

NEGLIA GROUP

EVERETT PARK IMPROVEMENTS

BLOCK 707 - LOT 10
TOWNSHIP OF VERONA
COUNTY OF ESSEX
STATE OF NEW JERSEY

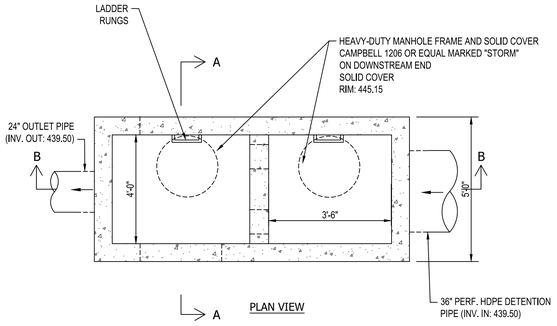
ANTHONY KURUS, PE, PP
PROFESSIONAL ENGINEER
N.J. LICENSE NO. 24GE04644500
PROFESSIONAL PLANNER
N.J. LICENSE NO. 33LI00614500

MATEO F. LUZURIAGA, PE
PROFESSIONAL ENGINEER
N.J. LICENSE NO. 24GE06029800

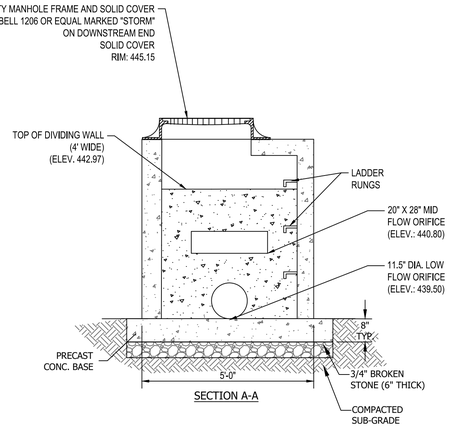
CONSTRUCTION DETAILS VII

DRAWN BY:	M.F.L.	SCALE:	N.T.S.
DESIGNED BY:	M.F.L.	CHECKED BY:	A.K.
PROJECT NO.:	VEROMUN24.010		10.06
DATE:	NOVEMBER 2024		

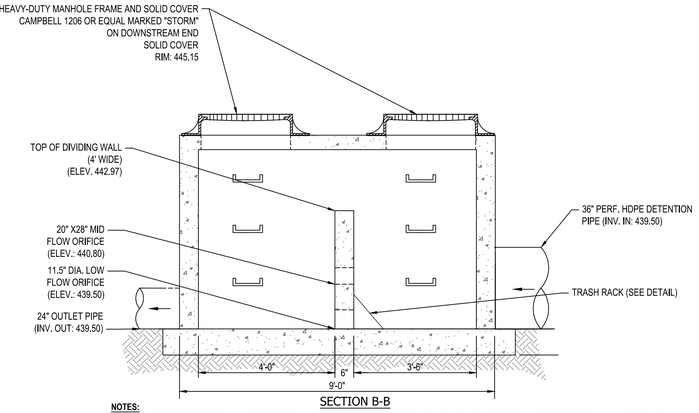
OUTLET CONTROL STRUCTURE -1
RIM: 445.15
INV. IN (36" PERF. HDPE): 439.50
LOW FLOW ORIFICE (11.5" DIA.): 439.50
MID FLOW ORIFICE (20" X 28"): 440.80
TOP OF DIVIDING WALL (4' WIDE): 442.97
INV. OUT (24" RCP): 439.50



PLAN VIEW



SECTION A-A

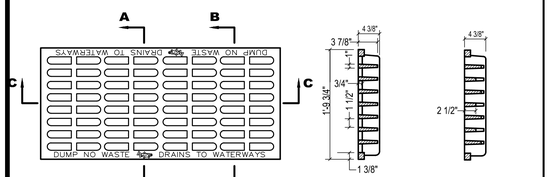


SECTION B-B

NOTES:
1. **THE OUTLET STRUCTURE SHALL BE PROVIDED WITH A TRASH RACK FOR THE 11.5-INCH DIAMETER ORIFICE; CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR SAID TRASH RACK PRIOR TO FABRICATION.**
2. **OUTLET STRUCTURE SHALL BE PRECAST CONCRETE STRUCTURE OR CAST-IN-PLACE STRUCTURE AS SHOWN OR APPROVED EQUAL, CERTIFIED FOR HS-20 LOADING.**
3. **SHOP DRAWINGS CERTIFIED BY LICENSED STRUCTURAL ENGINEER SHALL BE PROVIDED PRIOR TO FABRICATION.**
4. **OUTLET CONTROL STRUCTURE SHALL BE CONSTRUCTED IN ACCORDANCE WITH NJDOT STANDARDS FOR CONCRETE STORM STRUCTURES.**

OUTLET CONTROL STRUCTURE-1 (OCS #1)

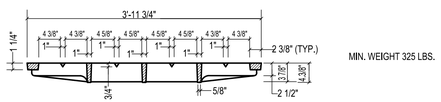
NOT TO SCALE



PLAN

SECTION A-A

SECTION B-B



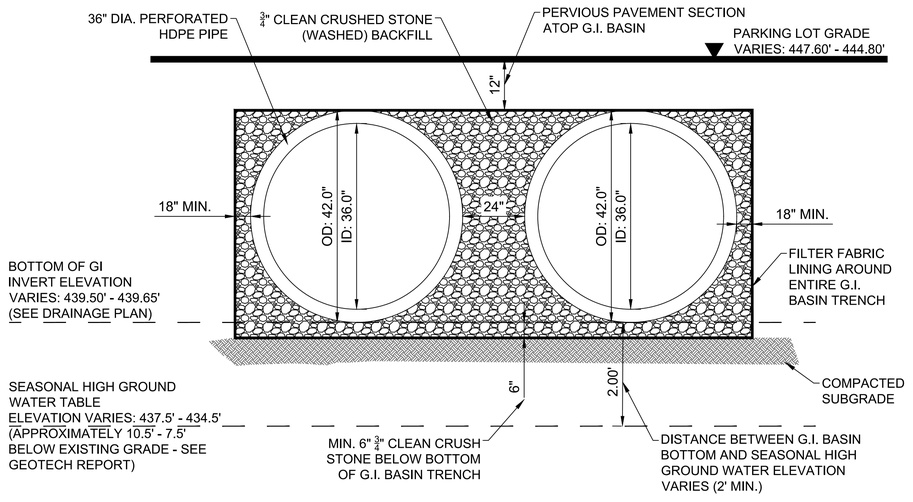
MIN. WEIGHT 325 LBS.

SECTION C-C

NJDOT CD-602-1.8

BICYCLE SAFE GRATE (CAST IRON)

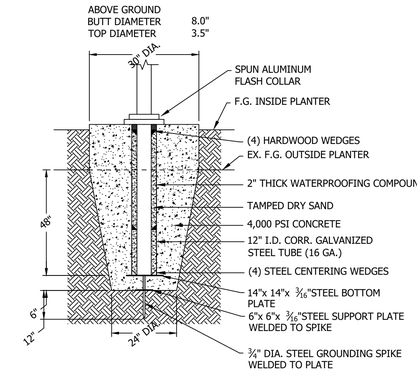
NOT TO SCALE



SMALL SCALE SUBSURFACE INFILTRATION BASIN WITH EXTENDED DETENTION DETAIL (G.I.)

NOT TO SCALE

NOTES:
1. THIS BASIN HAS BEEN DESIGNED TO MEET THE GREEN INFRASTRUCTURE REQUIREMENTS FOR WATER QUANTITY OUTLINED IN CITY ORDINANCE AND NJDEP BMP MANUAL REQUIREMENTS FOR SMALL SCALE SUBSURFACE INFILTRATION BASIN WITH EXTENDED DETECTION (IN-LINE)
2. THE SEASONAL HIGH GROUND WATER TABLE MUST BE AT LEAST TWO (2) FEET BELOW THE LOWEST EXTENT OF THE BASIN BOTTOM (STONE TRENCH).
3. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION.
4. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHERE REQUIRED.
5. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
6. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 6".
7. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
8. PERVIOUS PAVEMENT ATOP G.I. BASIN AS PER PERVIOUS PAVEMENT DETAIL

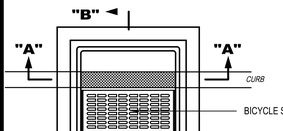


NOTE:

1. CONTRACTOR TO PROVIDE 1 FLAGPOLE 25 FEET IN HEIGHT.
2. ONE SOLAR DOWNLIGHT PER FLAGPOLE TO BE PROVIDED PER SPECIFICATIONS.

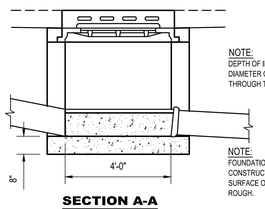
FLAGPOLE FOUNDATION

NOT TO SCALE



PLAN

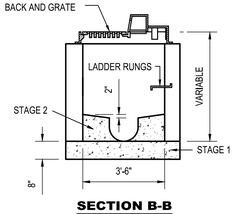
NOTES:
1. ALL STRUCTURES SHALL BE MORTARED INSIDE AND OUT. IN ADDITION, ALL STRUCTURES SHALL BE WATERPROOFED ON THE OUTSIDE.
2. THE BICYCLE SAFE GRATES SHALL BE CAMPBELL FOUNDRY PATTERN NUMBER 2618 OR APPROVED EQUAL. ALL CASTINGS SHALL BE MADE IN THE U.S.A. AS PER LOCAL, STATE, AND FEDERAL REQUIREMENTS.



NOTE:
DEPTH OF INVERT TO BE 0.80 OF DIAMETER OF THE MAIN PIPE THROUGH THE INLET.

NOTE:
FOUNDATION AND INVERT TO BE CONSTRUCTED IN 2 STAGES. TOP SURFACE OF STAGE 1 TO BE LEFT ROUGH.

SECTION A-A

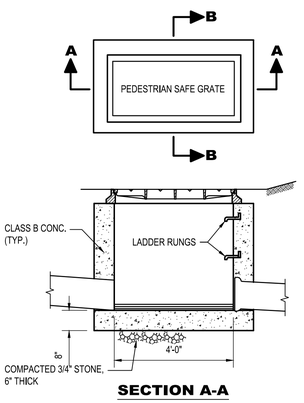


SECTION B-B

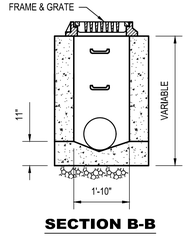
INLET TYPE "B"

NOT TO SCALE

CD-602-2.6



SECTION A-A

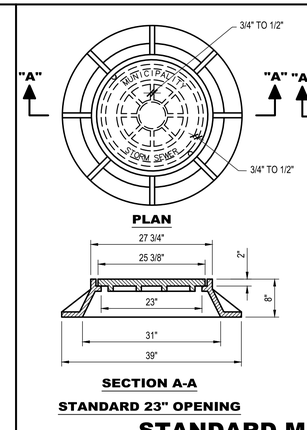


SECTION B-B

NOTES:
1. **INVERTS TO BE ELIMINATED IN BOTTOM OF TERMINAL INLETS. BOTTOMS SHALL BE DISHED AND SLOPED TOWARDS THE OUTLET PIPE AT A RATE OF GRADE OF 2 INCHES PER FOOT.**
2. **THIS INLET MAY BE CONSTRUCTED OF BRICK, CONCRETE, OR CONCRETE BLOCK. IF BRICK OR CONCRETE BLOCK IS USED, THE BOTTOM SHALL BE AS SHOWN FOR CONCRETE & THE OUTSIDE OF THE WALLS SHALL BE PLASTERED WITH ½" COAT OF 1:2 CEMENT SAND MORTAR.**
3. **INLET FRAME AND GRATES TO BE CAMPBELL FOUNDRY PATTERN NON. 2824 OR APPROVED EQUAL.**

INLET TYPE "A"

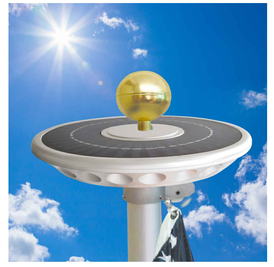
NOT TO SCALE



NOTES:
1. NEW FRAME AND COVERS SHALL BE INSTALLED AT ALL TOWNSHIP OF VERONA STORM AND SANITARY MANHOLES AS SHOWN ON THE PLANS.
2. MANHOLE FRAME AND COVER SHALL BE CAMPBELL FOUNDRY NO.1206 OR EQUAL TO BE APPROVED BY THE PROJECT ENGINEER. SHOP DRAWINGS SHALL BE PROVIDED FOR REVIEW PRIOR TO ORDERING ANY MANHOLE FRAMES AND COVERS.
3. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS OF EXISTING MANHOLES PRIOR TO ORDERING.
4. STORM MANHOLES SHALL BE MARKED "STORM" AND SANITARY MANHOLES SHALL BE MARKED "SANITARY"
5. UNIT PRICE BID ITEM FOR "RECONSTRUCT SANITARY MANHOLE FOR 4" NEW CONNECTION (NEW FRAME AND COVER) " SHALL INCLUDE THE FOLLOWING SCOPE OF WORK:
   - SAWCUT AROUND EXISTING MANHOLE, 2' MINIMUM
   - REMOVE MANHOLE FRAME AND COVER AND RECONSTRUCT NEW CONCRETE BRICK AROUND TOP OF EXISTING STRUCTURE.
   - SUPPLY AND INSTALL NEW MANHOLE FRAME AND COVER.
   - FULL DEPTH ASPHALT REPAIR, 6" THICK RESTORATION

STANDARD MANHOLE FRAME & COVER

NOT TO SCALE



- MFR: ITEC (OR APPROVED EQUAL)
- MODEL #: DRSFPTL-40
- 40 HIGH POWER LED

SOLAR FLAGPOLE LIGHT

NOT TO SCALE

NEGLIA GROUP
EXPERIENCED DEDICATED RESPONSIVE

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CHECKED | DESIGNED | DRAWN | REVISION | NO. | DATE

FINAL

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EVERETT PARK IMPROVEMENTS

BLOCK 707 - LOT 10
TOWNSHIP OF VERONA
COUNTY OF ESSEX
STATE OF NEW JERSEY

ANTHONY KURUS, PE, PP
PROFESSIONAL ENGINEER N.J. LICENSE NO. 24GE06441500 | PROFESSIONAL PLANNER N.J. LICENSE NO. 33LI00614500

MATEO F. LUZURIAGA, PE
PROFESSIONAL ENGINEER
N.J. LICENSE NO. 24GE06029800

CONSTRUCTION DETAILS VIII

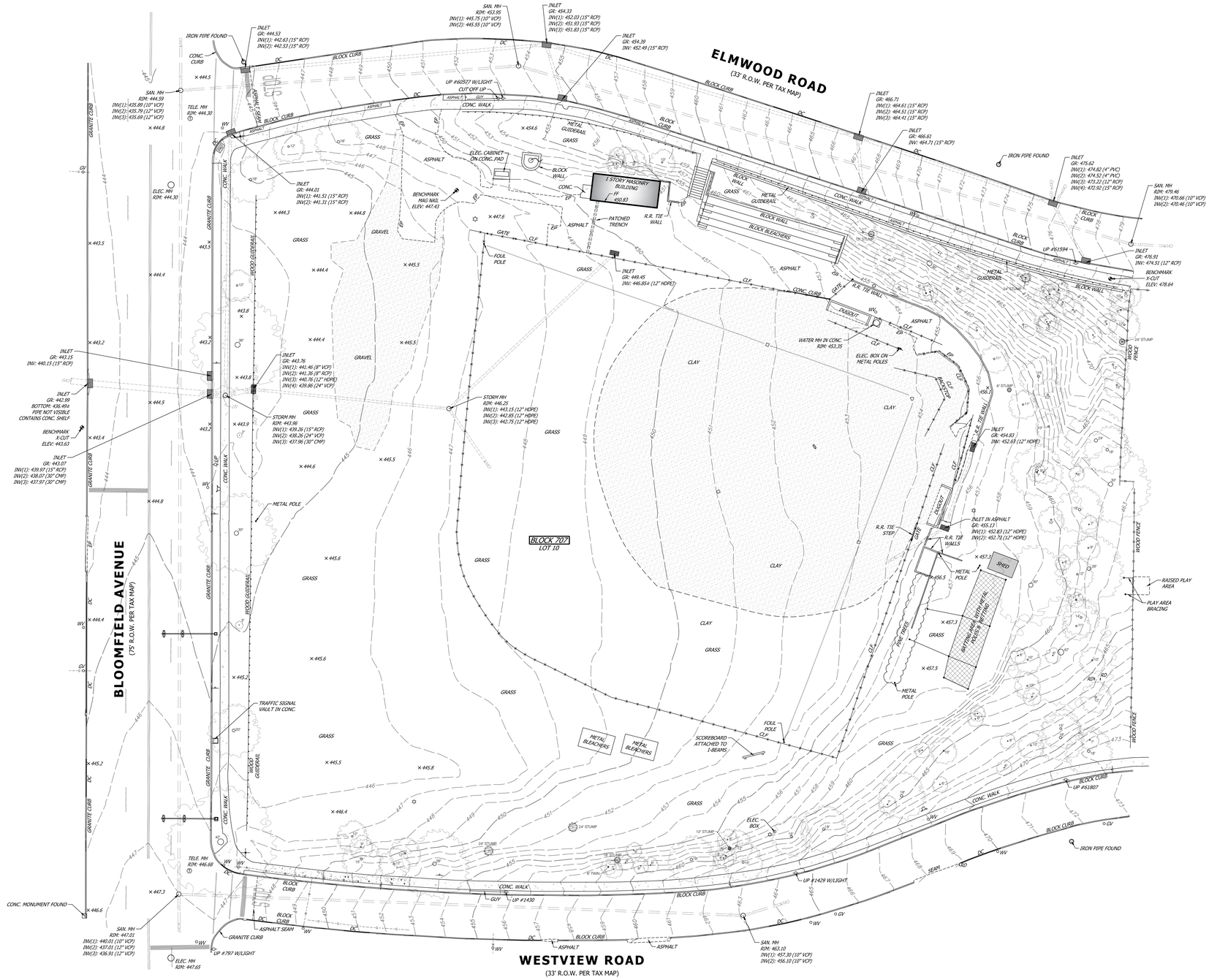
DRAWN BY:	M.F.L.	SCALE:	N.T.S.
DESIGNED BY:	M.F.L.	CHECKED BY:	A.K.
PROJECT NO.: VEROMUN24.010			
DATE: NOVEMBER 2024			**10.07**

GRAPHIC SCALE

0 10 20 40 60

(IN FEET)
1 inch = 20 ft.

N.J.P.C.S.



PLAN LEGEND:

S84°33'E	SURVEY CALL	S84°33'E (D)	DEED CALL
	INLETS		SIGNS
			UTILITY POLE
	TREES		LIGHT POLE
	SHRUB		WATER VALVE
RD	ROOF DRAIN		GAS VALVE
DC	DEPRESSED CURB		CLEAN-OUT
EP	EDGE OF PAVEMENT		UNKNOWN VALVE
	MANHOLE	LSA	LANDSCAPED AREA
	FIRE HYDRANT	CLF	CHAIN LINK FENCE
	HANDICAPPED SPACE	FF(S)	FINISHED FLOOR(SILL)
	ELECTRIC MARKOUT		SANITARY SEWER LINE
FO	FIBER OPTIC MARKOUT		STORM SEWER LINE
	GAS MARKOUT		TELEPHONE MARKOUT
	OVERHEAD WIRES		WATER MARKOUT
	UNKNOWN CONNECTION	EM	ELECTRIC METER

NEW JERSEY CERTIFICATION:

I CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR, LICENSED TO PRACTICE IN THE STATE OF NEW JERSEY, AND THAT THIS MAP OR PLAN IS A RESULT OF A FIELD SURVEY COMPLETED ON MAY 10, 2023, UNDER MY DIRECT SUPERVISION IN ACCORDANCE WITH THE RULES AND REGULATIONS PROMULGATED BY THE STATE BOARD OF ENGINEERS AND LAND SURVEYORS. I DECLARE THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE INFORMATION SHOWN HEREON CORRECTLY REPRESENTS THE CONDITIONS FOUND AT, AND AS OF THE DATE OF THE FIELD SURVEY, EXCEPT SUCH IMPROVEMENTS OR EASEMENTS, IF ANY, BELOW THE SURFACE AND NOT VISIBLE.

SURVEY NOTES:

1. UNDERGROUND UTILITIES IF DEPICTED ARE BASED ON VISIBLE EVIDENCE. THE LACK OF UTILITY INFORMATION DOES NOT DENY THE EXISTENCE OF SAME. PRIOR TO ANY DESIGN OR CONSTRUCTION, THE PROPER UTILITY AGENCIES MUST BE CONTACTED TO VERIFY THE PRESENCE OR ABSENCE OF UTILITIES.
2. WETLANDS ARE NOT DEPICTED. THE LACK OF WETLANDS INFORMATION DOES NOT DENY THE EXISTENCE OF SAME. SITE REVIEW AND DELINEATION BY A QUALIFIED PROFESSIONAL IS REQUIRED TO VERIFY THE PRESENCE OR ABSENCE OF WETLANDS.
3. TOXIC WASTES ARE NOT DEPICTED. THE LACK OF TOXIC WASTE INFORMATION DOES NOT DENY THE EXISTENCE OF SAME. SITE REVIEW FOR THE SAME SHOULD BE PURSUED AND APART FROM THIS SURVEY.
4. **FEMA DATA - EFFECTIVE DOCUMENTS:** IN ACCORDANCE WITH A CERTAIN MAP ENTITLED "NATIONAL FLOOD INSURANCE PROGRAM, FIRM, ESSEX COUNTY, NEW JERSEY (ALL JURISDICTIONS), PANEL 103 OF 200, MAP NUMBER 34013C0103F", WITH AN EFFECTIVE DATE OF JUNE 4 ,2007, THE SUBJECT PARCEL LIES FULLY WITHIN ZONE X, AN AREA DETERMINED TO BE OUTSIDE THE 0.2% CHANCE FLOODPLAIN.
5. FENCES & WALLS HAVE BEEN LOCATED AT THE BOTTOM OF THE STRUCTURE, AT THE TIME OF FIELD SURVEY.
6. THE MERIDIAN OF THIS SURVEY IS BASED ON THE NEW JERSEY PLANE COORDINATE SYSTEM NAD83(2011) AS ESTABLISHED USING GPS METHODS AND THE SMARTNET NETWORK.
7. ELEVATIONS SHOWN ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988(NAVD88) AS ESTABLISHED USING GPS METHODS AND THE SMARTNET NETWORK.

REFERENCES:

1. LOT AND BLOCK NUMBERS SHOWN HEREON REFER TO THE TOWNSHIP OF TAX MAP SHEET NO. 2 & 7 DATED JANUARY 1, 2008.

REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	DESIGNED	CHECKED
1	12-18-2023	UPDATE DRAINAGE SYSTEM.	PJP		GAV
2	10-16-2024	UPDATED SANITARY SYSTEM ALONG BLOOMFIELD AVENUE.	PJP		GAV

CERTIFICATE OF AUTHORIZATION (N.J.S.A. 45:8-56) 24GA27927000

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PROFESSIONAL LAND SURVEYOR
N.J. LICENSE NO. 24GS03721300

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TOPOGRAPHIC SURVEY
EVERETT PARK
BLOCK 707 LOT 10
TOWNSHIP OF VERONA
ESSEX COUNTY NEW JERSEY

DRAWN BY: P.J.P.	CHECKED BY: G.A.V.	PROJECT NO.: VEROMUN23.010	SHEET NO.: 1 OF 1
DESIGNED BY:	SCALE: 1"=20'		
FIELD BOOK NO.:	PAGE	DATE: JUNE 6, 2023	

I:\Municipality\verona\veromun23.010\everett field survey and concept\dwg\everett\veromun23.010-vf.dwg

ELECTRICAL NOTES:

A. GENERAL REQUIREMENTS

1. THIS CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SERVICES, TOOLS, TRANSPORTATION, INCIDENTALS AND DETAILS NECESSARY TO PROVIDE A COMPLETE ELECTRICAL SYSTEM AS SHOWN ON THE DRAWINGS.
2. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER AND ANY MATERIAL OR LABOR CALLED FOR IN ONE SHALL BE FURNISHED AND INSTALLED EVEN THOUGH NOT SPECIFICALLY MENTIONED IN BOTH. ANY MATERIAL OR LABOR WHICH IS NEITHER SHOWN ON THE DRAWINGS NOR CALLED FOR IN THE SPECIFICATIONS, BUT WHICH IS OBVIOUSLY NECESSARY TO COMPLETE THE WORK, AND WHICH IS USUALLY INCLUDED IN WORK OF SIMILAR CHARACTER, SHALL BE FURNISHED AND INSTALLED AS PART OF THE CONTRACT.
3. ALL WORK SHALL BE PERFORMED IN A NEAT PROFESSIONAL MANNER USING GOOD CONSTRUCTION PRACTICES.
4. UNLESS SPECIFICALLY NOTED OTHERWISE, MATERIALS, PRODUCTS, AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW, UNDERWRITERS LABORATORIES LISTED AND LABELED AND SIZED IN CONFORMITY WITH REQUIREMENTS OF STATE AND LOCAL CODES, WHICHEVER IS MORE STRINGENT.
5. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL ELECTRICAL CONNECTIONS AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM.

B. CODES

1. ALL WORK SHALL CONFORM TO THE STATE'S, COUNTY'S, CITY'S AND LOCAL CODES AND ORDINANCES, SAFETY AND HEALTH CODES, NEC 2020 CODES, NFPA CODES, ENERGY CODES AND ALL OTHER APPLICABLE CODES AND REQUIREMENTS. THIS CONTRACTOR SHALL INQUIRE INTO AND COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS, INCLUDING BUT NOT LIMITED TO COMPLIANCE WITH NEC ARTICLE 110.26 FOR PROPER WORKING CLEARANCES.

C. LICENSES, PERMITS, INSPECTIONS & FEES

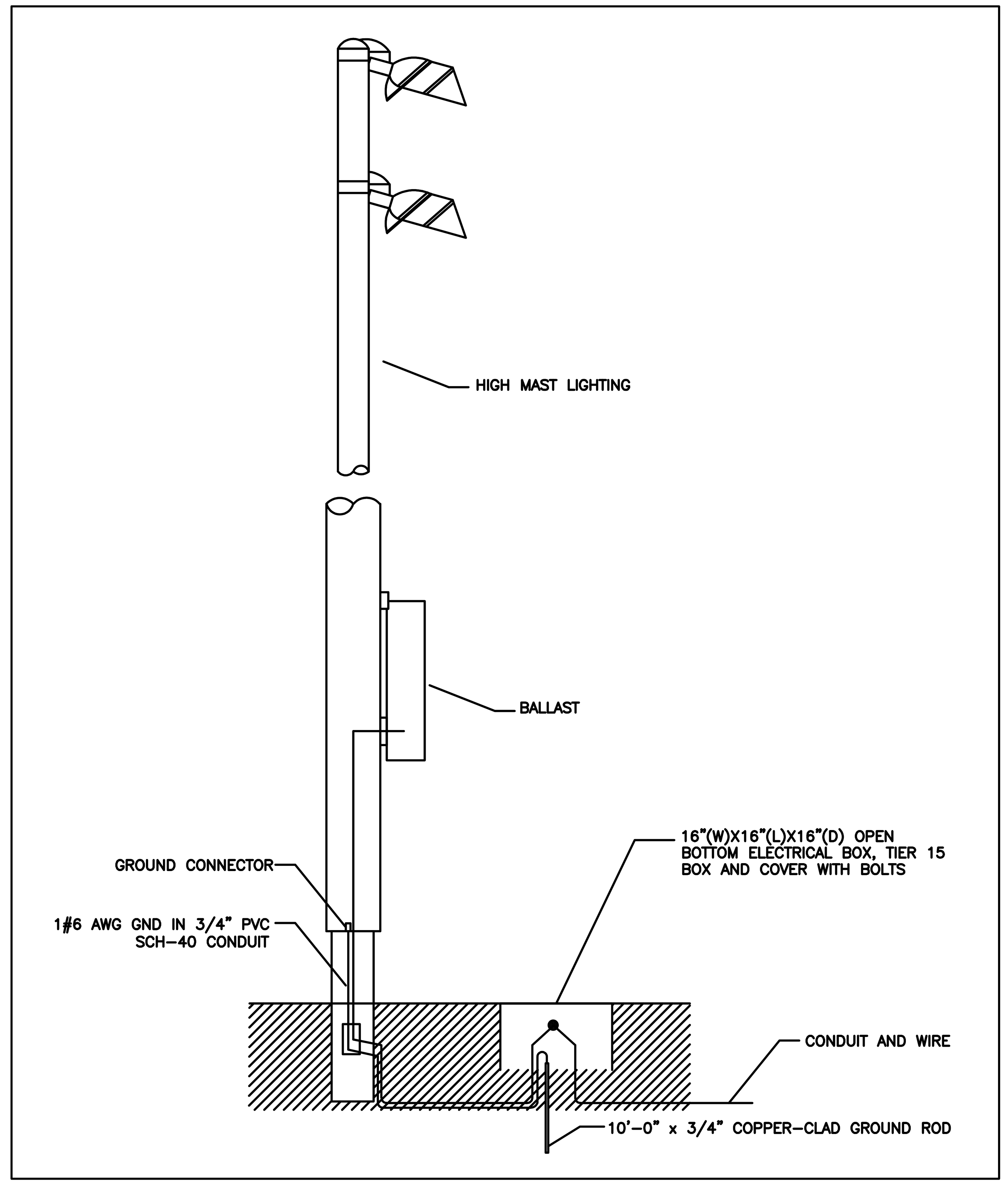
1. THIS CONTRACTOR SHALL OBTAIN AND PAY FOR ALL LICENSES, PERMITS, INSPECTIONS, AND FEES REQUIRED OR RELATED TO HIS WORK.

D. RECORD DRAWINGS

1. THIS CONTRACTOR SHALL MAINTAIN ONE SET OF DRAWINGS ON THE JOB SITE UPDATED WEEKLY TO RECORD ALL DEVIATIONS FROM CONTRACT DRAWINGS, SUCH AS:
   a. LOCATION OF CONCEALED CONDUIT AND EQUIPMENT.
   b. REVISIONS, ADDENDUMS, AND CHANGE ORDERS.
   c. SIGNIFICANT DEVIATIONS MADE NECESSARY BY FIELD CONDITIONS, APPROVED EQUIPMENT SUBSTITUTIONS, AND CONTRACTOR'S COORDINATION WITH OTHER TRADES.
2. AT COMPLETION OF THE PROJECT AND BEFORE FINAL APPROVAL, THIS CONTRACTOR SHALL MAKE ANY FINAL CORRECTIONS TO DRAWINGS AND CERTIFY THE ACCURACY OF EACH PRINT BY SIGNATURE THEREON.

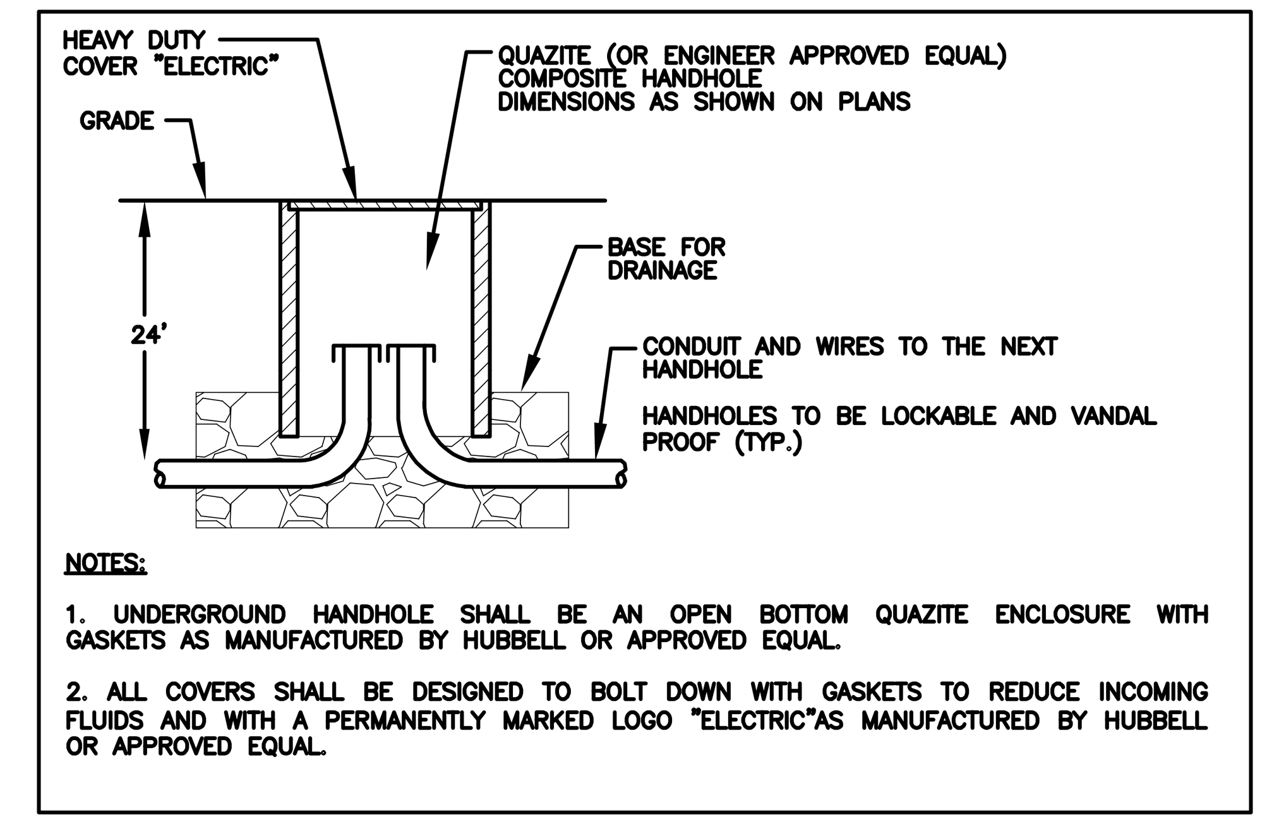
E. SCOPE OF WORK

1. THIS CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT, SERVICES, TOOLS, TRANSPORTATION, AND FACILITIES NECESSARY FOR, REASONABLY IMPLIED AND INCIDENTAL TO, THE FURNISHING, INSTALLATION, COMPLETION AND TESTING OF ALL THE WORK FOR THE ELECTRICAL SYSTEMS AS SHOWN ON THE DRAWINGS, CALLED FOR IN THE SPECIFICATIONS, AND AS REQUIRED BY JOB CONDITIONS, TO INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
   a. INSTALLATION OF A NEW ELECTRIC SERVICE, INCLUDING BUT NOT LIMITED TO METERING EQUIPMENT AND MAIN SERVICE DISCONNECT, SITE LIGHTING POLES AND ASSOCIATED LIGHTING FIXTURES AND ACCESSORIES, NEW PANELBOARDS, AND ALL ASSOCIATED WIRING FROM NEW PANELBOARDS TO NEW SITE LIGHTING POLES & LIGHTING FIXTURES, TESTING & COMMISSIONING OF SITE LIGHTING SYSTEM.
   b. INSTALLATION OF HEW FIRE ALARM SYSTEM AND DEVICES.
   c. INSTALLATION OF NEW LIGHTING FIXTURES AND SWITCHES.



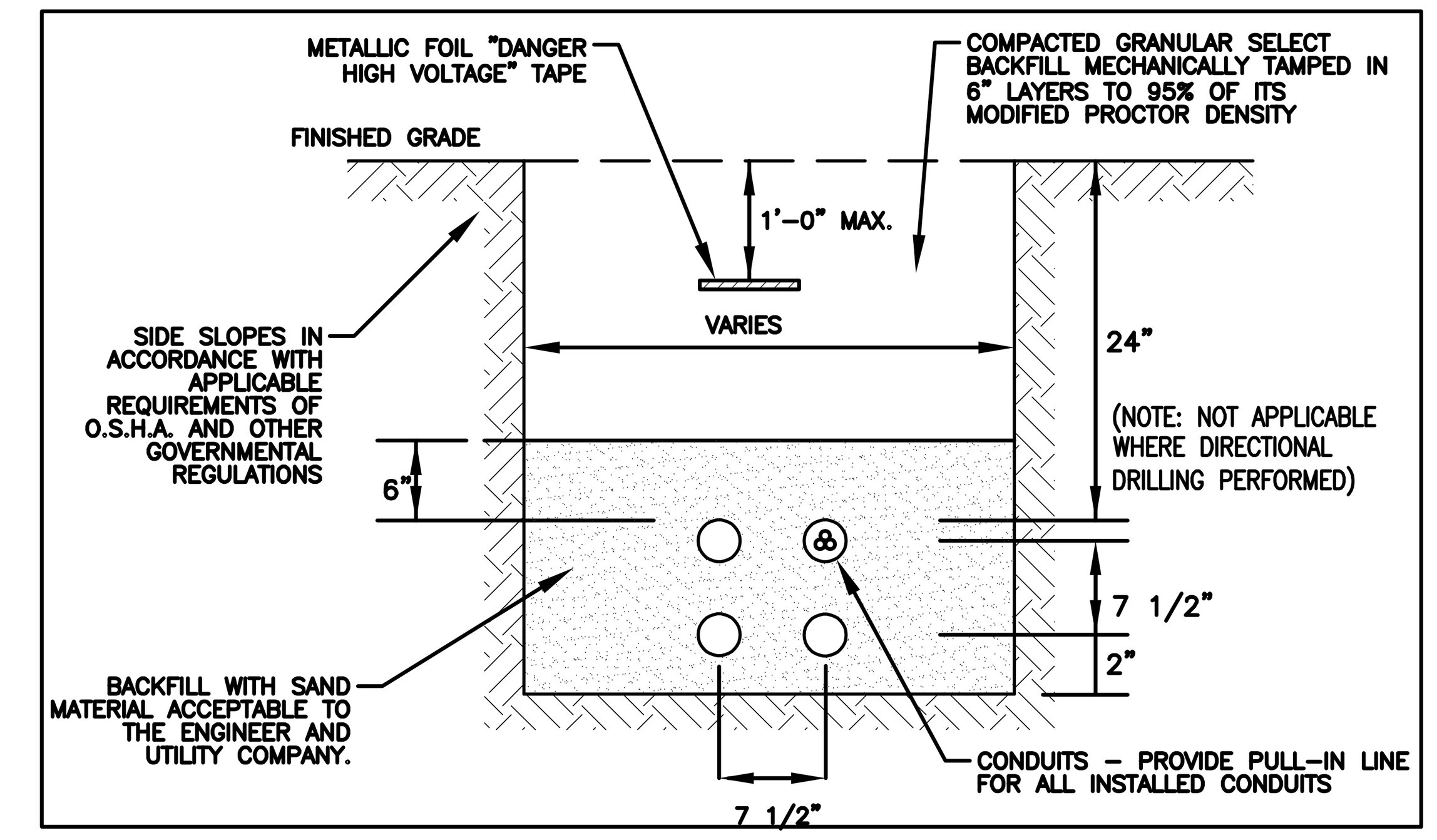
1 HANDHOLE & POLE WIRING DETAIL

SCALE: NONE



2 ELECTRICAL HANDHOLE DETAIL

SCALE: NONE



3 TYPICAL TRENCH DETAIL

SCALE: NONE

- SUN VALLEY LIGHTING DEZINER SERIES 8 LED Post Top (120VAC, 35.5W & 23.6W)
- SUN VALLEY LIGHTING 4300 SERIES
- POLE-TOP GFI RECEPTACLE
- POLE-MOUNTED PHOTO EYE
- POLE-MOUNTED MOTION SENSOR

SPECIFICATIONS:

LUMINAIRE: **HOUSING** - HEAVY WALL ALUMINUM CONSTRUCTION. **REFLECTOR**-HEAVY WALL ALUMINUM CONSTRUCTION.

P-LED SYSTEM: 20 EMITTERS (LED'S) DRIVEN AT **525mA** FOR 35 TOTAL INPUT WATTS. **WARM WHITE** NOMINAL 3000K CCT FOR THE ENTIRE MODULE. EMITTERS ARE ARRAYED ON A METAL CORE PCB PANEL LOCATED ON A COPPER THERMAL TRANSFER PAD. EACH EMITTER IS ENCLOSED BY AN INJECTION MOLDED H12 ACRYLIC LED REFRACTOR. ALL REFRACTORS ARE RETAINED BY AN ALUMINUM FRAME. ALL MODULES IN A LUMINAIRE HAVE THE SAME OPTICAL PATTERN. LED REFRACTORS PRODUCE STANDARD SITE/AREA DISTRIBUTION **TYPE II**. MODULES ARE FIELD REPLACEABLE AND FIELD ROTATABLE IN 90° INCREMENTS. **HOUSE SIDE SHIELD PROVIDED.**

DRIVERS: CONSTANT CURRENT ELECTRONIC WITH A POWER FACTOR OF > 90 AND A MINIMUM OPERATING TEMPERATURE OF -40°F. DRIVER(S) IS/ARE UL AND CUL RECOGNIZED AND MOUNTED DIRECTLY AGAINST THE ELECTRICAL HOUSING TO FACILITATE THERMAL TRANSFER, HELD DOWN BY UNIVERSAL CLAMPS TO FACILITATE EASY REMOVAL. IN-LINE TERMINAL BLOCKS FACILITATE WIRING BETWEEN THE DRIVER AND OPTICAL ARRAYS. DRIVERS ACCEPT AN INPUT OF 120-277V, 50/60HZ. 20KA SURGE PROTECTOR WITH END OF LIFE OPEN CIRCUIT PROTECTION FOR LUMINAIRE.

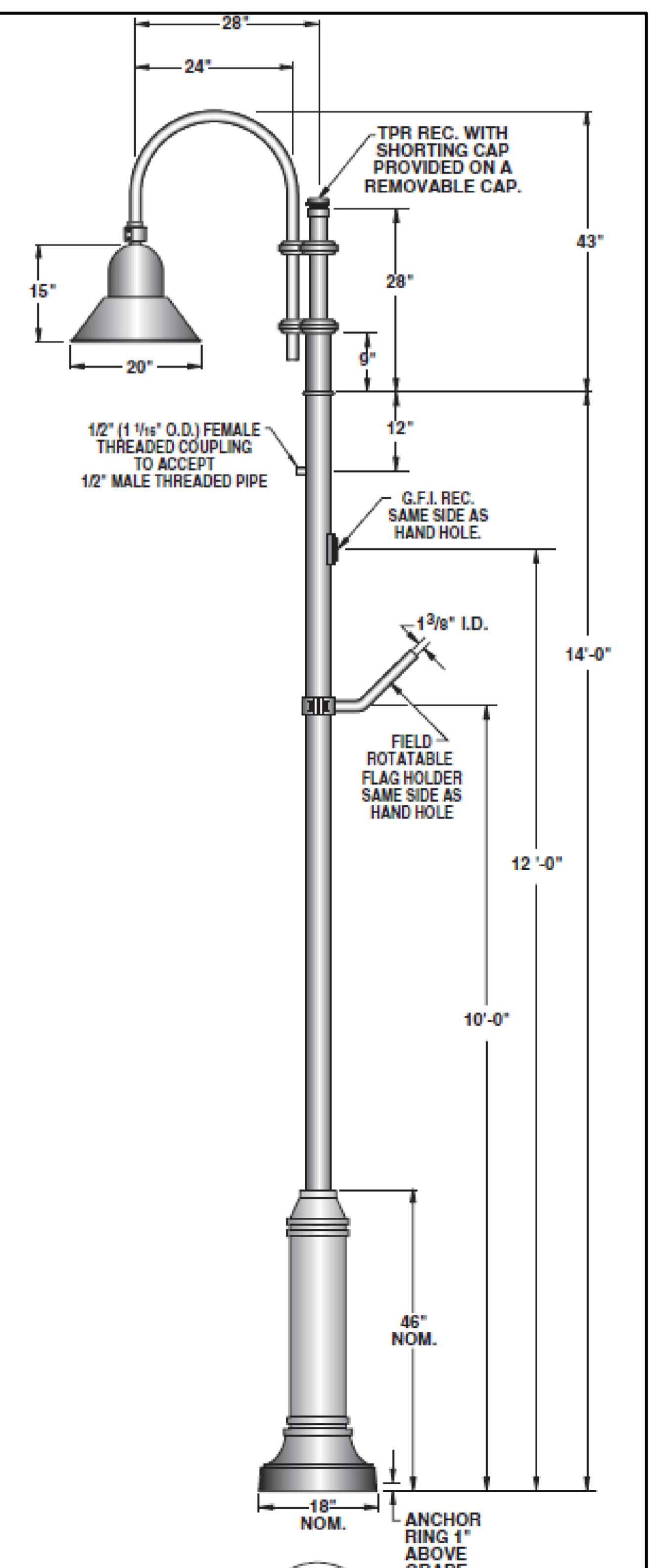
ARM: DURABLE CORROSION RESISTANT, CAST AND EXTRUDED ALUMINUM CONSTRUCTION.

SHAFT: 4" DIA. EXTRUDED FROM 6063 ALLOY ALUMINUM. SHAFT IS HEAT TREATED TO PRODUCE A T6 TEMPER. .188 WALL THICKNESS. SHAFT IS CIRCUMFERENTIALLY WELDED TO BASE. 2 7/8" X6" LONG TENON ON POLE.

BASE: ONE PIECE, CORROSION RESISTANT DURABLE CAST ALUMINUM CONSTRUCTION. MINIMUM .225 WALL THICKNESS. BASE CONSISTS OF A SMOOTH, BOTTOM SECTION AND A DECORATIVE TOP SECTION. BASE IS FURNISHED WITH HAND HOLE AND COVER. HAND HOLE COVER SUPPLIED WITH TAMPER RESISTANT HARDWARE. GROUNDING LUG PROVIDED INSIDE BASE OPPOSITE HAND HOLE.

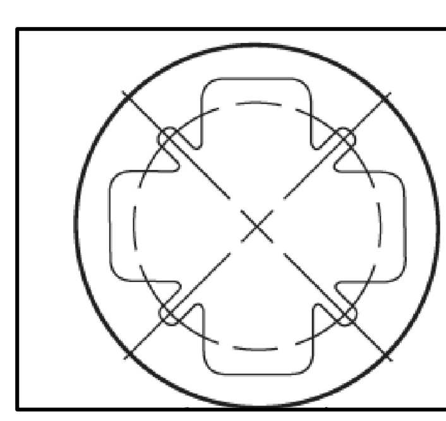
ANCHORAGE: **(4) 3/4"X24"** FULLY GALVANIZED ANCHOR BOLTS. EACH BOLT SUPPLIED WITH TWO NUTS AND TWO WASHERS.

FINISH: POLYESTER POWDER COAT (COLOR: **BLACK TEXTURED, RAL-9005-T.**)



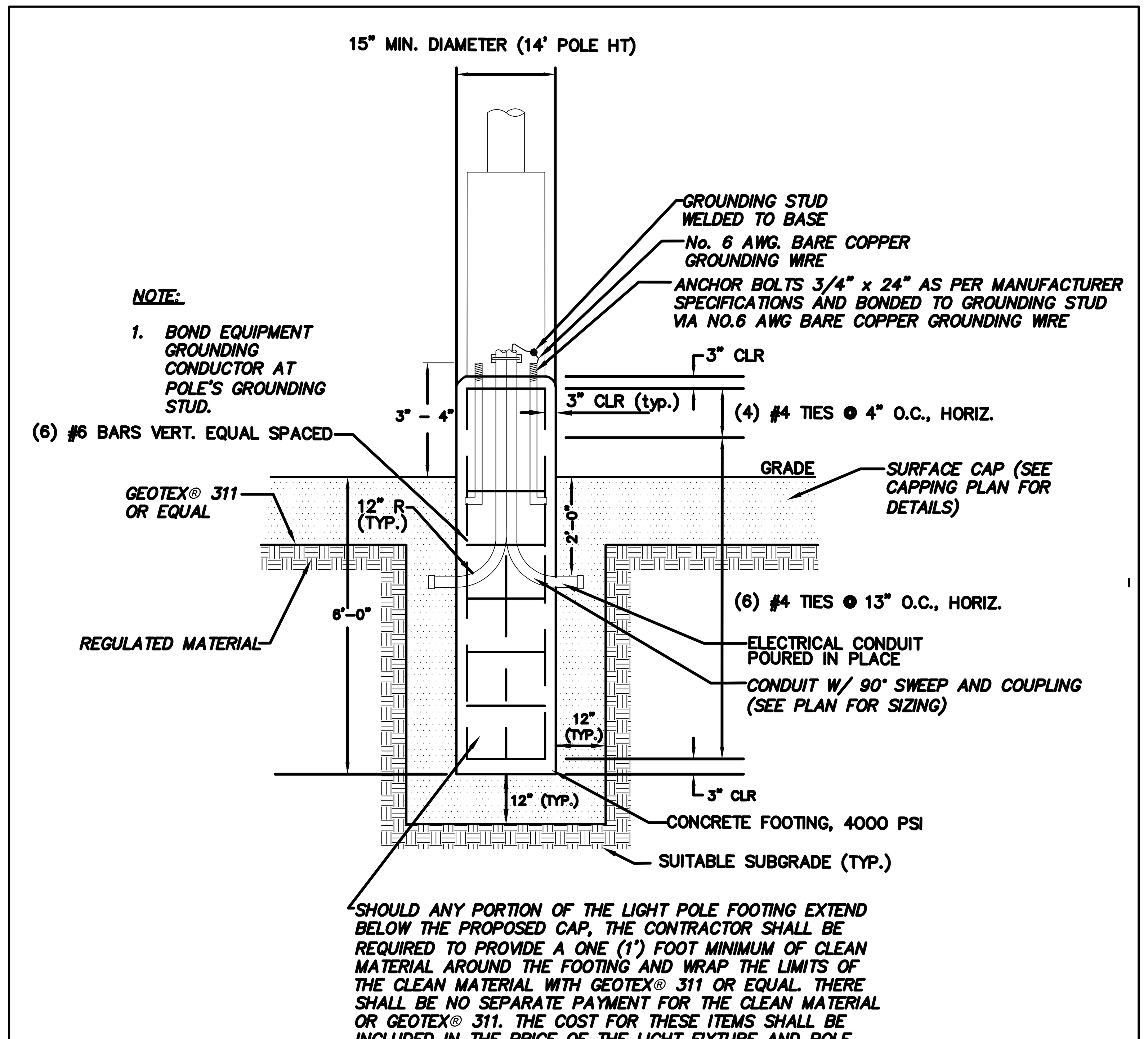
4 LIGHT POLE & FIXTURE DETAIL

SCALE: NONE



5 LIGHT POLE BOLT PATTERN

SCALE: NONE



6 LIGHT POLE CONCRETE FOOTING DETAIL

SCALE: NONE

ABBREVIATIONS

A	AMPERE
AC	ALTERNATING CURRENT
AL	ALUMINUM
AWG	AMERICAN WIRE GAUGE
C	CONDUIT, CORRIDOR
CT	CURRENT TRANSFORMER
EX	EXISTING
G,GND	GROUND
KW	KILOWATT
LTG	LIGHTING
LV	LOW VOLTAGE
MDP	MAIN DISTRIBUTION PANEL
N.T.S.	NOT TO SCALE
OCPD	OVERCURRENT PROTECTIVE DEVICE
P	POLE(S)
PH	PHASE
PNL	PANEL
SW	SWITCH
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLT
W	WATT
WP	WATERPROOF

ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
▭	ELECTRICAL PANELBOARD/ENCLOSURE
Px○	SITE LIGHTING FIXTURE. Px DENOTES LIGHTING FIXTURE TYPE.
□	ELECTRICAL HANDHOLE (HH1/HH2)
Ⓜ	METER
⌒	CIRCUIT BREAKER
⊖	DUPLEX OUTDOOR GFI/WP CONVENIENCE RECEPTACLE – WALL MOUNTED 120VAC/20A/1-POLE
$	1-POLE LIGHT SWITCH

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NO.	DATE	REVISION	DRAWN	DESIGNED	CHECKED

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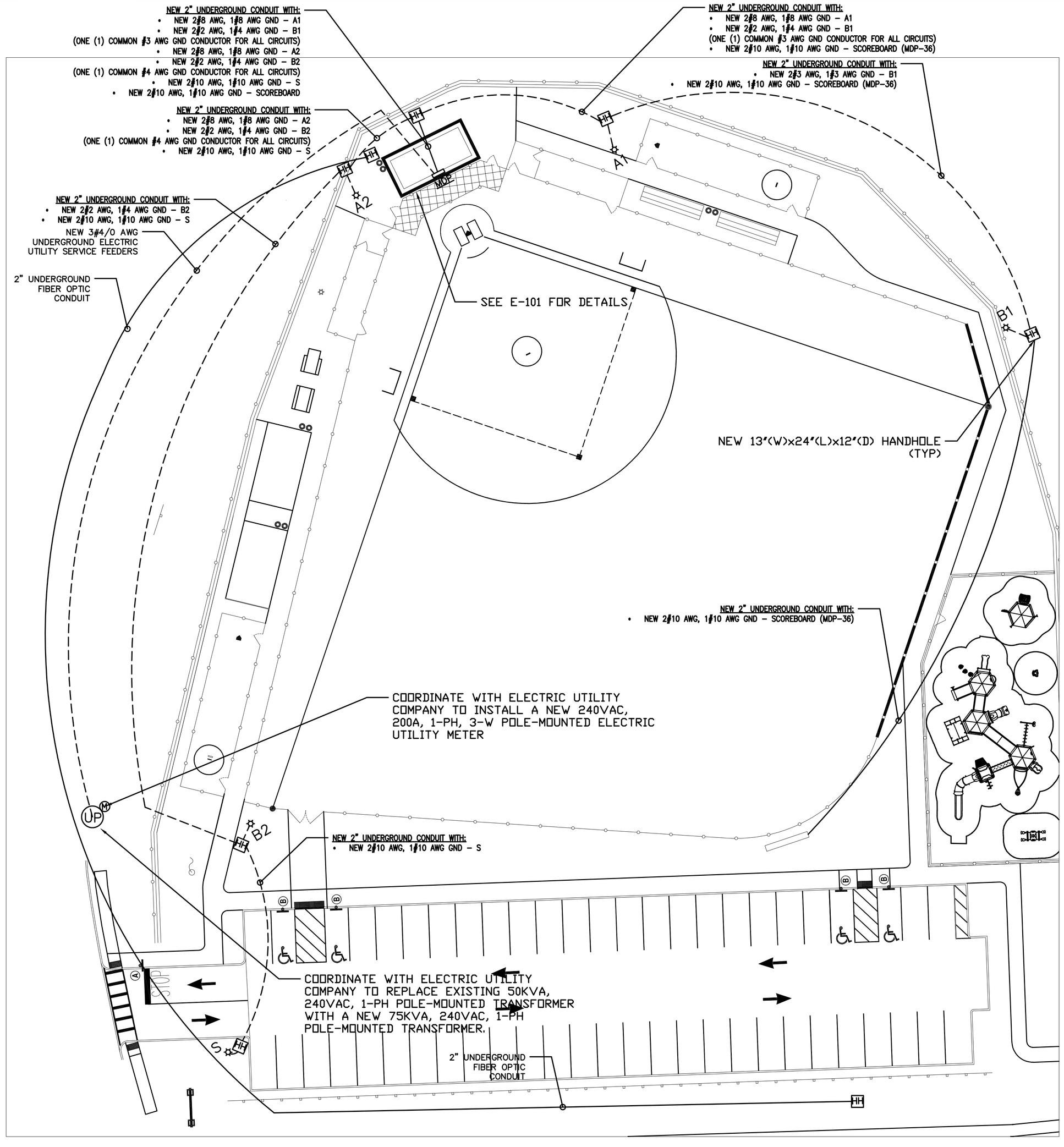
ELECTRICAL NOTES, SYMBOLS, ABBREVIATIONS & DETAILS

DRAWN BY:	JM	SCALE:	AS SHOWN
DESIGNED BY:	JM	CHECKED BY:	JFG
PROJECT NO.: 20241203			
DATE: NOVEMBER 2024			

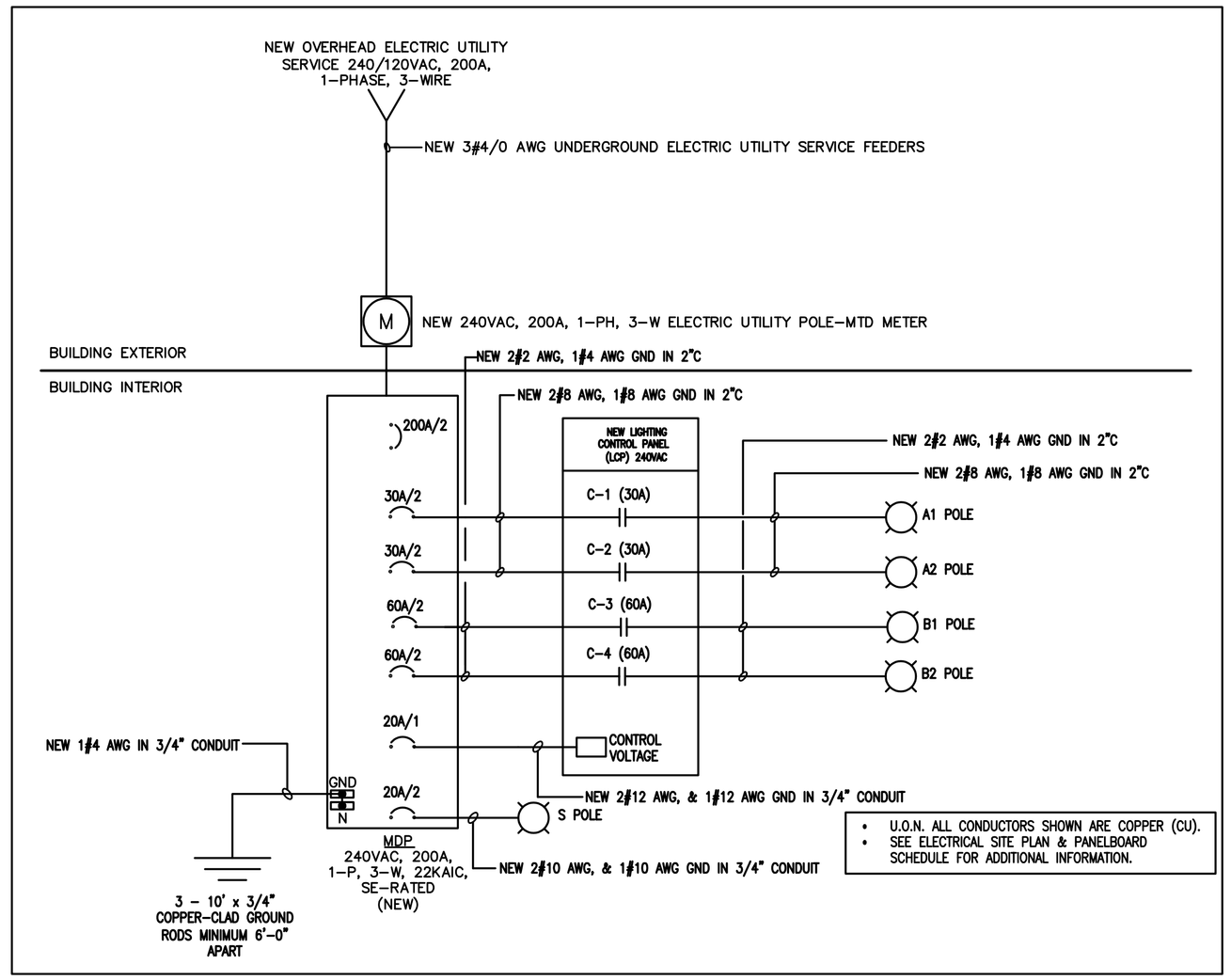
E001



1 ELECTRICAL SITE LIGHTING & POWER PLAN

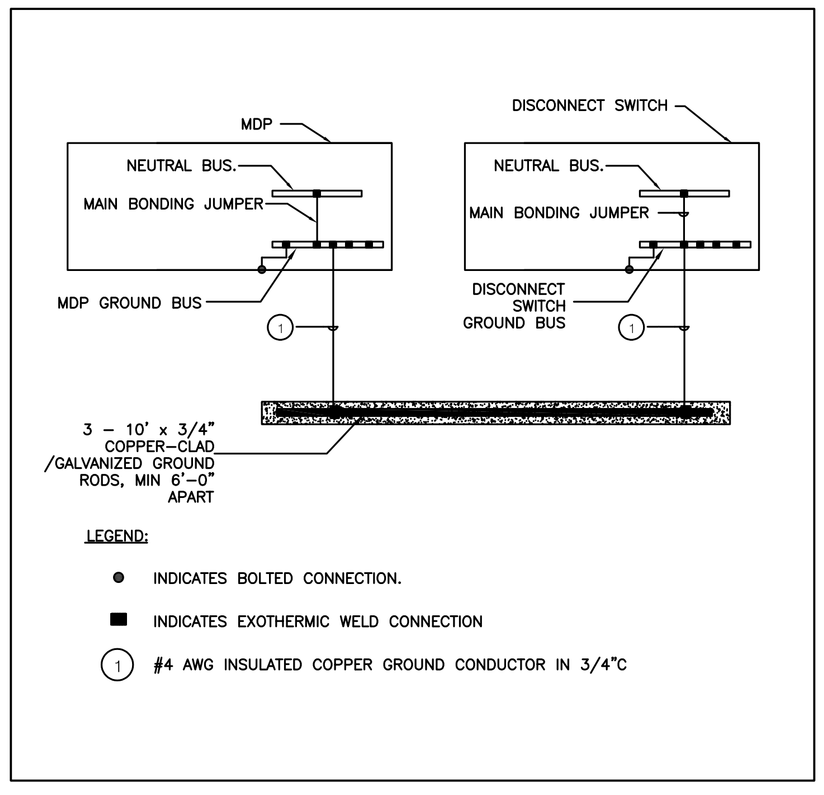
SCALE: 1" = 20'-0"

NORTH



2 ELECTRICAL ONE-LINE DIAGRAM

SCALE: N.T.S.



3 ELECTRIC SERVICE GROUNDING DETAIL

SCALE: N.T.S.

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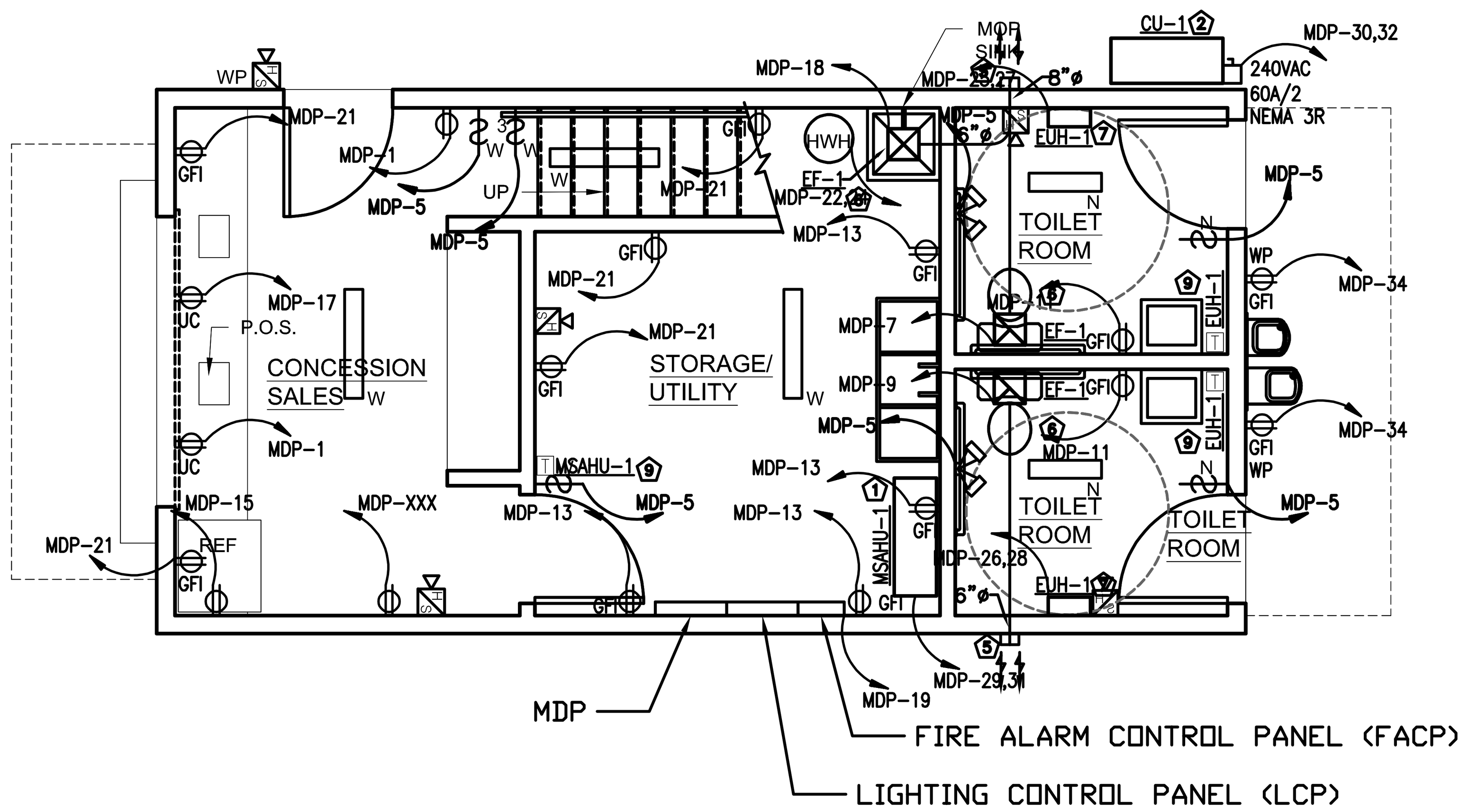
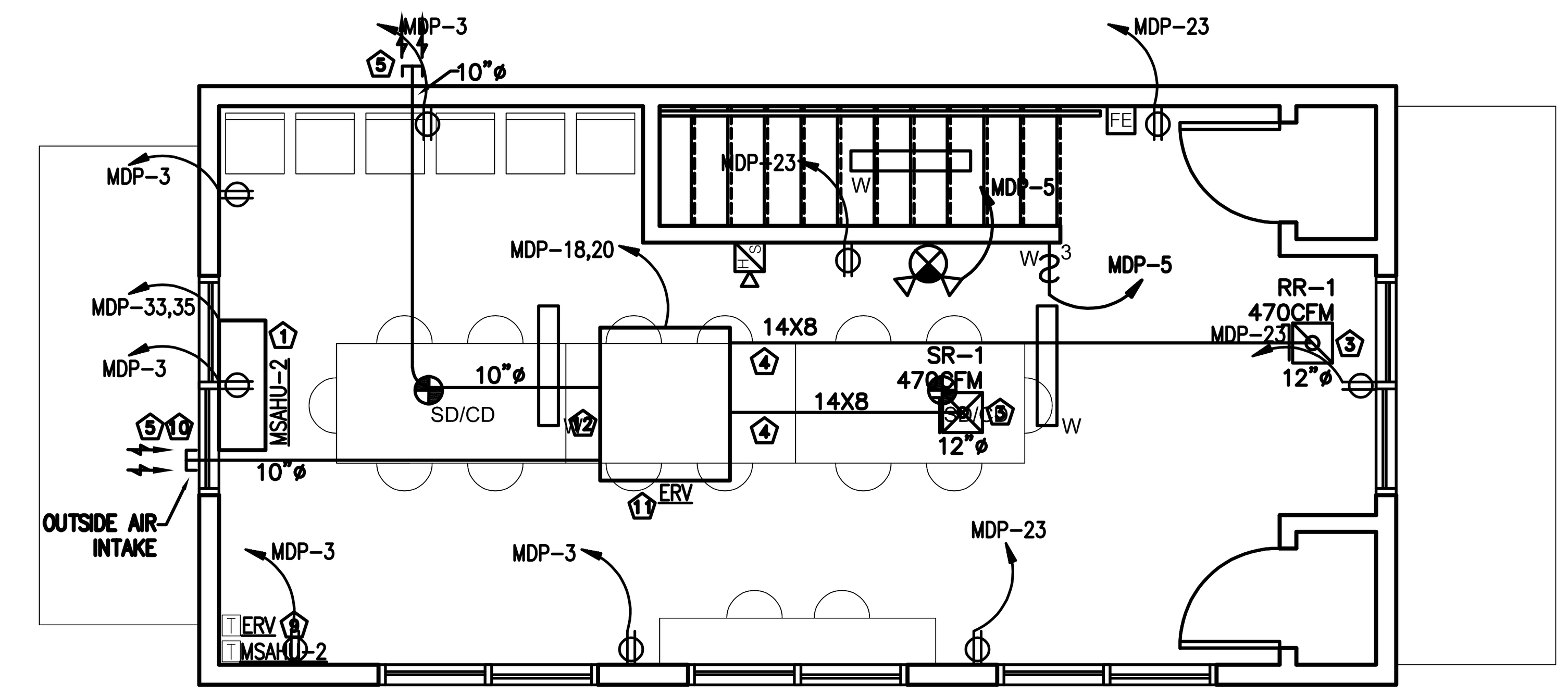
ELECTRICAL SITE LIGHTING & POWER PLAN, ONE-LINE DIAGRAM & DETAILS

DRAWN BY:	JM	SCALE:	AS SHOWN
DESIGNED BY:	JM	CHECKED BY:	JFG
PROJECT NO.: 20241203			E100
DATE: NOVEMBER 2024			



1 CONCESSION BUILDING – 1ST FLOOR POWER, LIGHTING & FIRE ALARM

SCALE: 1/4" = 1'–0"



2 CONCESSION BUILDING – 2ND FLOOR POWER, LIGHTING & FIRE ALARM

SCALE: 1/4" = 1'–0"

NAME **MDP** — SYSTEM 240/120V, 1-PH, 3-W — LOCATION STORAGE/UTILITY — BUS RATING 200A — MAIN BREAKER 200A — AIC RATING 22KAIC

No.	CIR. BKR. POLE	CIR. BKR. TRIP	SERVICE TO	KVA	A	B	KVA	SERVICE TO	CIR. BKR. TRIP	CIR. BKR. POLE	No.
1	1	20	CONCESSION BUILDING 1ST FL RECEPTACLES	0.4	2.4		2.0	SPORTS LIGHTING A-1 (2#3 AWG, 1#3 AWG GND IN 2"C)	30	2	2
3	1	20	CONCESSION BUILDING 2ND FL RECEPTACLES	0.9		2.9	2.0				4
5	1	20	CONCESSION BUILDING LIGHTING	1.0	3.0		2.0	SPORTS LIGHTING A-2 (2#3 AWG, 1#3 AWG GND IN 2"C)	30	2	6
7	1	20	MEN'S ROOM EXHAUST FAN	0.2		2.2	2.0				8
9	1	20	WOMEN'S ROOM EXHAUST FAN	0.2	4.2		4.0	SPORTS LIGHTING B-1 (2#3 AWG, 1#3 AWG GND IN 2"C)	60	2	10
11	1	20	MEN'S & WOMEN'S ROOM GFI RECEPTACLES	0.4		4.4	4.0				12
13	1	20	CONCESSION BUILDING GFI RECEPTACLES	0.7	4.7		4.0	SPORTS LIGHTING B-2 (2#3 AWG, 1#3 AWG GND IN 2"C)	60	2	14
15	1	20	REFRIGERATOR	1.0		5.0	4.0				16
17	1	20	POS RECEPTACLES	0.2	0.4		0.2	ERV	20	2	18
19	1	20	FIRE ALARM CONTROL PANEL (FACP)	1.0		1.2	0.2				20
21	1	20	CONCESSION BUILDING GFI RECEPTACLES	0.9	3.9		3.0	HWH (2#10 AWG, 1#10 AWG GND IN 3/4"C)	30	2	22
23	1	20	CONCESSION BUILDING 2ND FL RECEPTACLES	0.7		3.7	3.0				24
25	2	20	MEN'S ROOM UNIT HEATER	1.5	3.0		1.5	WOMEN'S ROOM UNIT HEATER	20	2	26
27				1.5		3.0	1.5				28
29	2	20	MSAHU-1	0.2	4.0		3.8	MSCU-1 (2#8 AWG, 1#10 AWG GND IN 3/4"C)	40	2	30
31				0.2		4.0	3.8				32
33	2	20	MSAHU-2	0.2	0.6		0.4	OUTSIDE GFI RECEPTACLES	20	1	34
35				0.2		0.8	0.6	SCOREBOARD	20	1	36
37	2	20	PARKING LOT POLE - S	0.1	0.1			SPARE	20	1	38
39				0.1		0.1		SPARE	20	1	40
41	1	20	SPACE		1.0		1.0	LCP CONTROL VOLTAGE	20	1	42
					27.3	27.3					

TOTAL CONNECTED LOAD	35	KVA
TOTAL DEMAND LOAD	148	AMPS

NOTES: SERVICE-ENTRANCE RATED PANELBOARD. REFER TO SITE PLAN AND ONE-LINE DIAGRAM FOR DDITIONAL WIRING INFORMATION.

LIGHTING CONTROL PANEL (LCP): C1, C2, C3, C4

3 PANELBOARD SCHEDULE

SCALE: N.T.S.

LIGHTING FIXTURE SCHEDULE

DESCRIPTION: WALL MOUNTED EMERGENCY LIGHT FIXTURE
MANUFACTURE: LITHONIA LIGHTING
MODEL: EU2 LED M12
LAMP: 2 X 1.8W LED
VOLTAGE: 120VAC
NOTES: SEALED MAINTENANCE–FREE NICKEL CADMIUM BATTERY DELIVERS 90 MINUTES CAPACITY TO EMERGENCY LAMPS. DAMP LOCATION LISTED.

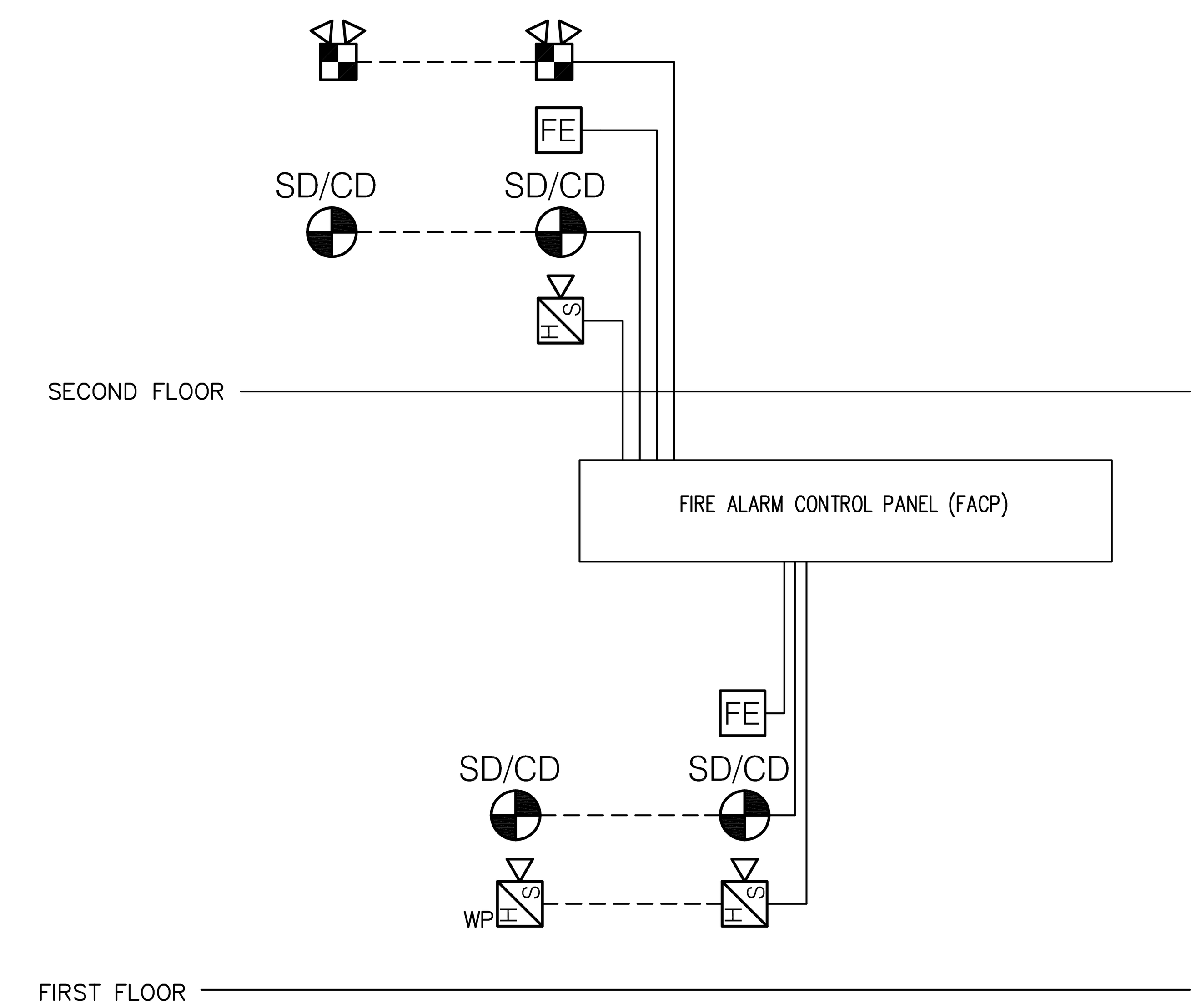
DESCRIPTION: WALL MOUNTED EMERGENCY LIGHT/EXIT COMBO
MANUFACTURE: LITHONIA LIGHTING
MODEL: ECC R
LAMP: 2 X 0.75W LED
VOLTAGE: 120VAC
NOTES: SEALED MAINTENANCE–FREE NICKEL CADMIUM BATTERY DELIVERS 90 MINUTES CAPACITY TO LAMP.

Luminaire Schedule

Symbol	Tag	Label	Arrangement	Lum. Lumens	LLF	Description	Lum. Watts	Mounting Height
	N	RAB - SML2-5000	Single	1960	1.000	SURFACE-MOUNTED	25	9'-0"
	W	RAB - SML3-5000	Single	2830	1.000	SURFACE-MOUNTED	35	9'-0"

5 LIGHTING FIXTURE SCHEDULE

SCALE: N.T.S.



4 FIRE ALARM RISER DIAGRAM

SCALE: N.T.S.

FIRE ALARM SYMBOLS

	COMBINATION AUDIBLE AND VISUAL FIRE ALRM STROBE LIGHT
FACP	FIRE ALARM CONTROL PANEL
FE	FIRE ALARM PULL STATION
SD/CD	COMBINATION CARBON MONOXIDE & SMOKE DETECTOR DEVICE
	"WP" DENOTES WEATHER PROOF

	Activate Alarm At FACP	Activate Notification Floor of Alarm	Activate Notification Floor Above	Transmit Alarm to Central Station
Pull Station	●	●	●	●
Area Smoke	●	●	●	●

FIRE ALARM SEQUENCE OF OPERATION

NOTES

1. ALL FIRE ALARM WIRING TO BE IN ACCORDANCE WITH NEC 2020 ARTICLE 760 REQUIREMENTS, LOCAL AUTHORITIES AND APPLICABLE SECTIONS OF THE LOCAL BUILDING CODE.
2. ALL EQUIPMENT SHALL BE INSTALLED AND CONNECTED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND INSTRUCTIONS.
3. ALL FIRE ALARM SYSTEM WIRING SHALL BE #16 AWG MINIMUM 200° PLENUM RATED CABLE RUN IN HUNG CEILINGS AND IN EMT WHERE NOT CONCEALED OR WHERE APPLICABLE BY CODES. MINIMUM CONDUIT SIZE SHALL BE 3/4".
4. ALL CONDUCTORS TO BE FREE OF GROUNDS, OPENS, AND SHORTS.
5. COORDINATE EXACT LOCATIONS OF ALL DEVICES AND CONDUIT ROUTING WITH ARCHITECT PRIOR TO INSTALLATION.
6. MAINTAIN CONTINUITY OF FIRE ALARM SERVICE FOR ALL EXISTING SYSTEM DEVICES THROUGHOUT CONSTRUCTION PHASE OF THIS PROJECT.
7. SUBMIT SHOP DRAWINGS OF DEVICES COMPATIBLE WITH EXISTING SYSTEM FOR APPROVAL.
8. CONNECT CONTROLS WIRING FROM MECHANICAL SYSTEM EQUIPMENT, SUCH AS FIRE DAMPERS, DOOR HOLDERS/SHUTTERS, ETC TO THE NEW FIRE ALARM CONTROL PANEL, FACP.
9. WHEN INSTALLING SHIELDED CABLE THE FOLLOWING MUST BE OBSERVED:
9.1. METALLIC CONTINUITY MUST BE MAINTAINED THROUGHOUT THE LENGTH OF THE CABLE RUN.
9.2. THE CABLE SHIELD MUST BE ISOLATED FROM GROUND AND TERMINATED ONLY IN THE ASSOCIATED CONTROL PANEL AT THE TERMINAL INDICATED ON THE CONTROL PANEL DRAWINGS. THE REMOTE END OF THE SHIELD (AT LAST DEVICE) MUST BE TAPED AND ISOLATED FROM GROUND.
10. GROUNDING MUST COMPLY WITH ARTICLE 250 OF THE NEC. GROUNDING CONDUCTOR MUST BE NO. 10 AWG, SINGLE-CONDUCTOR UNLESS OTHERWISE NOTED.
11. ALL FIRE ALARM WIRING MUST BE INSTALLED SEPARATE FROM ANY 120VAC OR HIGHER WIRING.
12. T-TAPPING IS NOT PERMITTED ON NOTIFICATION APPLIANCES CIRCUITS (NAC'S).

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CONCESSION BUILDING POWER, LIGHTING AND FIRE ALARM PLANS, PANELBOARD & LIGHTING FIXTURE SCHEDULES, FIRE ALARM SYMBOLS, RISER DIAGRAM & SEQUENCE OF OPERATION

DRAWN BY:	JM	SCALE:	AS SHOWN
DESIGNED BY:	JM	CHECKED BY:	JFG
PROJECT NO.: 20241203			
DATE: NOVEMBER 2024		E101	

HVAC SPECIFICATIONS

1. NOTICE TO BIDDERS

A. THE SPECIFICATIONS AND DRAWINGS ARE INTENDED TO SERVE THIS CONTRACTOR JOINTLY AS A BASIS UPON WHICH THE CONTRACTOR SHALL SUBMIT A CONTRACT PRICE FOR THE MATERIAL AND LABOR PROVISION.
B. WHEN CONFLICTS OCCUR IN THE SPECIFICATIONS OR ON THE DRAWINGS OR BETWEEN EITHER, THE ITEMS OF GREATER QUANTITY OR HIGHER COST SHALL BE PROVIDED.
C. THE CONTRACTOR SHALL PROVIDE ALL ITEMS OF LABOR OR MATERIALS NOT SPECIFICALLY INDICATED, BUT REQUIRED TO COMPLETE THE INTENDED INSTALLATION.
D. THE WORK UNDER THIS CONTRACT SHALL BE PERFORMED AND COORDINATED SIMULTANEOUSLY WITH WORK OF OTHER TRADES SO AS NOT TO DELAY THE OVERALL PROGRESS OF WORK.
E. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR HIS WORK WITH ITS COMPLETION AND FINAL ACCEPTANCE AND SHALL REPLACE ANY OF SAME WHICH MAY BE DAMAGED, LOST OR STOLEN, WITHOUT ADDITIONAL COSTS TO THE OWNER.

2. GENERAL CONDITIONS

A. THE APPLICATION PROVISIONS OF THE GENERAL CONSTRUCTION SPECIFICATIONS SHALL APPLY TO THE SPECIFICATION ARTICLES.
B. PERFORM ALL WORK IN ACCORDANCE WITH ASHRAE, SMACNA, O.S.H.A. PERTINENT NFPA CODES AND THE RULES AND REGULATIONS OF ALL CITY, STATE AND FEDERAL AUTHORITIES HAVING JURISDICTION. PROVIDE OWNER WITH CERTIFICATES OF INSPECTION.
C. DO ALL NECESSARY CUTTING AND ROUGH PATCHING. THE FINISH PAINTING, POWER WIRING, AND FINAL PATCHING.
D. THESE DRAWINGS INDICATE THE SIZE AND GENERAL LOCATION OF WORK. SCALED DIMENSIONS SHALL NOT BE USED. ANY DIMENSIONS NOT SHOWN SHALL BE OBTAINED FROM THE ARCHITECTURAL DRAWINGS. FOR EXACT LOCATIONS, CEILING HEIGHT, DOOR SWINGS, MOUNTING HEIGHT, REFLECTED CEILING PLAN, ETC., REFER TO ARCHITECTURAL DRAWINGS AND DETAILS.
E. PRIOR TO STARTING ANY WORK, PURCHASING OF EQUIPMENT, ETC. COORDINATE THE WORK WITH OTHER TRADES. CONFER WITH OTHER CONTRACTORS WHOSE WORK MIGHT AFFECT THIS INSTALLATION AND ARRANGE ALL PARTS OF THIS WORK AND EQUIPMENT OF OTHERS WITH THE BUILDING CONSTRUCTION AND WITH ARCHITECTURAL FINISHES SO THAT IT WILL HARMONIZE IN SERVICE AND APPEARANCE. IN THE EVENT THERE IS A CONFLICT IN COORDINATION BETWEEN TRADES, THE OWNER WILL RESOLVE IT.
F. ALL WORK SHALL BE GUARANTEED AGAINST DEFECTS FOR A MINIMUM PERIOD OF ONE YEAR, UNLESS OTHERWISE SPECIFIED, FROM THE DATE OF FINAL ACCEPTANCE OF THE INSTALLATION. ANY PORTIONS OF THE WORK WHICH DEVELOP DEFECTS DURING THAT TIME SHALL BE REPLACED OR REPAIRED IN MANNER SATISFACTORY TO THE ARCHITECT, AT NO ADDITIONAL COST TO THE OWNER.
G. FURNISH LIABILITY INSURANCE AND BONDING AS REQUIRED BY THE OWNER, ARCHITECT, OR BUILDING MANAGEMENT.
H. SUBMIT TO THE OWNER "AS-BUILT" PLANS AND SHOP DRAWINGS FOR ALL WORK INSTALLED.
I. ALL PARTS OF THE WORK AND ASSOCIATED EQUIPMENT SHALL BE TESTED AND ADJUSTED TO WORK PROPERLY AND BE LEFT IN PERFECT OPERATING CONDITION.
J. PRIOR TO SUBMITTING A BID FOR THE WORK AS SHOWN AND SPECIFIED, THE CONTRACTOR IS ADVISED TO VISIT THE PROJECT SITE TO FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS. NO ALLOWANCE WILL BE AUTHORIZED FOR SITE CONDITIONS THAT COULD HAVE BEEN NOTED PRIOR TO BID SUBMISSION.

3. OPERATING AND MAINTENANCE INSTRUCTIONS

A. ALL MECHANICAL AND VENTILATION SYSTEM FANS NOT PART OF THE TESTED AND LISTED HVAC EQUIPMENT MEET EFFICACY AND AIR FLOW LIMITS PER TABLE R403.6.2, TESTED AND VERIFIED TO MEET MINIMUM FLOW RATES REQUIRED BY SECTION R403.6.
B. AFTER FINAL TEST AND ADJUSTMENTS FULLY INSTRUCT OWNER'S OPERATING PERSONNEL IN ALL DETAILS OF OPERATION FOR EQUIPMENT INSTALLED. A SIGNED RECEIPT OBTAINED FROM THE OPERATOR SHALL BE CONSTRUED AS EVIDENCE THAT INSTRUCTIONS WERE SATISFACTORY.
C. FURNISH THREE (3) COPIES OF WRITTEN DESCRIPTIONS OF ALL SYSTEMS COVERING ALL OPERATING PROCEDURES, AUTOMATIC CONTROL DESCRIPTIONS AND AUTOMATIC CONTROL TEMPERATURE AND PRESSURE SETTINGS. WRITTEN DESCRIPTIONS SHALL INCLUDE LUBRICATION SCHEDULES, PARTS LISTS, PERFORMANCE SERVICES FOR EQUIPMENT, FILTER SIZE/QUANTITY INSTRUCTIONS WHICH ARE UTILIZED SHALL BE CLEARLY MARKED TO INDICATE APPLICABILITY. PROVIDE MANUFACTURER MANUALS FOR MECHANICAL AND WATER HEATING SYSTEMS.
D. SHOP DRAWINGS SHALL BE REVIEWED AND SUBMITTED BY THE GENERAL CONTRACTOR. SHEET METAL AND PIPING DRAWINGS SHALL BE MINIMUM 3/8 INCH (OR LARGER) SCALE SHOWING ELEVATIONS, CLEARANCES, AND EQUIPMENT. NO MATERIAL SHALL BE FABRICATED AND/OR INSTALLED UNTIL SHOP DRAWINGS AND SHOP DETAILS HAVE BEEN REVIEWED AND ACCEPTED BY THE ENGINEER.
E. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR, BUT NOT LIMITED TO:

1. AIR DIFFUSERS, COMPLETE WITH SOUND RATINGS, CFM'S PERFORMANCE DATA AND CONSTRUCTION FEATURES.
2. SHOP STANDARD DETAILS OF DUCTWORK FABRICATION, INCLUDING DAMPERS, ACCESS DOORS, ETC.
3. FLEXIBLE CONNECTORS.
4. AIR FILTERS.
5. PIPE HANGERS, SUPPORTS, LAYOUT, ANCHORS AND WELDED CERTIFICATION WHEN REQUIRED.
6. EQUIPMENT SUCH AS: A/C UNITS, FANS, VALVES, ETC.
7. TEMPERATURE CONTROL SYSTEM, INCLUDING DEVICES, SET-POINTS, CONTROL WIRING SCHEMATICS, PANEL LOCATIONS, POWER REQUIREMENTS AND SEQUENCE OF OPERATION.
8. BALANCING REPORTS FOR AIR SYSTEMS.
9. INSULATION FOR DUCTWORK, AND EQUIPMENT.

F. EFFICIENCY HVAC PACKAGE; EFFICIENCES >= 95 AFUE GAS FURNACE, 16 SEER AIR CONDITIONER, 10 HSPF/16 SEER HEAT PUMP OF 3.5 COP GROUND SOURCE HEAT PUMP.

4. TESTING AND BALANCING

A. THE CONTRACTOR SHALL OBTAIN THE SERVICES OF A TESTING AND BALANCING SUB-CONTRACTOR WITH AT LEAST 5 YEARS OF EXPERIENCE IN AIR AND WATER BALANCING. (AABC OR NEBB CERTIFIED)
B. THE BALANCER SHALL SUBMIT ALL BALANCING REPORTS DIRECTLY TO THE ENGINEER AS A SHOP DRAWING SUBMITTAL.
C. IF THE BALANCING SUB-CONTRACTOR FINDS THAT HE CANNOT BALANCE ANY SYSTEM OR PORTION THEREOF, HE SHALL IMMEDIATELY ADVISE THE ENGINEER IN WRITING AND SHALL STATE THE REASONS WHY BALANCING CANNOT BE ACHIEVED.
E. THE BALANCING SUB-CONTRACTOR SHALL MAKE ALL REQUIRED SYSTEM ADJUSTMENTS, AND SHALL ALSO FURNISH ALL LABOR, INSTRUMENTS, TEMPORARY CONNECTIONS AND ALL NECESSARY ACCESSORIES REQUIRED FOR PERFORMING SPECIFIED ADJUSTMENTS.
F. AIR FLOW RATES SHALL BE BALANCED WITHIN A TOLERANCE OF PLUS OR MINUS 10 PERCENT AT THE TERMINAL DEVICES AND PLUS OR MINUS 5 PERCENT AT THE FANS. WATER FLOW RATES ARE TO BE BALANCED TO A TOLERANCE OF PLUS 10% OR MINUS 5%.

5. RECORD DRAWINGS

A. FIVE SETS OF REPRODUCIBLE RECORD DRAWINGS SHALL BE DELIVERED TO THE OWNER AND HIGHLAND ASSOCIATES UPON WHICH CORRECTIONS SHALL BE MADE TO PROVIDE AN ACCURATE AND COMPLETE RECORD OF THE WORK AS INSTALLED.
B. SUBMIT AS-BUILT DRAWINGS ON CAD IN THE AUTOCAD RELEASE 14 FORMAT UPON COMPLETION OF THE PROJECT. SCANNED DRAWINGS ARE PROHIBITED.

6. APPROVALS AND SUBSTITUTIONS

A. IT IS THE INTENT OF THESE SPECIFICATIONS THAT WHENEVER A MANUFACTURER IS SPECIFIED AND SUBSTITUTIONS ARE REQUESTED, THEY SHALL CONFORM IN ALL ASPECTS TO THE SPECIFIED ITEM. CRITERIA AS DELINEATED FOR EQUIPMENT SHALL BE INTERPRETED AS MINIMUM PERFORMANCE REQUIREMENTS.
B. IT SHALL BE MANDATORY FOR THIS CONTRACTOR TO SUBMIT HIS PROPOSAL PRICE BASED ON SPECIFIED MANUFACTURER OR SUPPLIER OF MATERIALS OR SERVICES. IF THE CONTRACTOR DESIRES TO SUBSTITUTE OTHER THAN SPECIFIED, HE SHALL SUBMIT SEPARATE PRICES FOR EACH OF THESE ITEMS FOR ADDITIONS OR DEDUCTION TO CONTRACT PROPOSAL PRICE FOR ACCEPTANCE OR REJECTIONS AT THE TIME WHEN BIDS ARE DUE. SHOULD THESE SUBSTITUTIONS BE REJECTED, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE SPECIFIED MATERIALS AND SERVICES. SUBSTITUTED EQUIPMENT THAT CANNOT MEET SPACE REQUIREMENTS, WHETHER APPROVED OR NOT, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ANY MODIFICATIONS OF RELATED SYSTEMS OR ADDITIONAL COSTS THAT RESULT FROM SUBSTITUTED EQUIPMENT SHALL BE BORNE BY THIS CONTRACTOR.
C. ALL WORK SHALL MEET OR EXCEED LATEST REQUIREMENTS OF NATIONAL, STATE COUNTY, MUNICIPAL AND OTHER AUTHORITIES EXERCISING JURISDICTION OVER THE WORK OF THIS PROJECT.
D. SECURE AND PAY FOR ALL PERMITS AND INSPECTION CERTIFICATES AND TRANSMIT SAME TO THE OWNER AT THE COMPLETION OF THE WORK.
E. THIS CONTRACTOR SHALL PERFORM ALL INSPECTIONS IN ACCORDANCE WITH THE LOCAL AUTHORITIES HAVING JURISDICTION.

7. WORK INCLUDED UNDER OTHER SECTIONS

A. ITEMS OF WORK INCLUDED UNDER OTHER SECTIONS OF THIS PROJECT ARE AS FOLLOWS:
1. GENERAL CONSTRUCTION
2. ELECTRICAL POWER WIRING
3. FIRE PROTECTION SYSTEMS

8. SHEET METAL DUCTWORK

A. ALL DUCTWORK AIR CHAMBERS, CASINGS, ENCLOSURES, DAMPERS AND ALL AUXILIARY DEVICES AND WORK NECESSARY TO MAKE THE VARIOUS AIR CONDITIONING AND VENTILATING SYSTEMS COMPLETE AND READY FOR SATISFACTORY OPERATION, SHALL BE FURNISHED AND INSTALLED.
B. STEEL DUCTS: ASTM A525 GALVANIZED STEEL SHEET, LOCK-FORMING QUALITY. HAVING ZINC COATING OF 1.25 OZ. PER SQ FT. FOR EACH SIDE IN CONFORMANCE WITH ASTM A90.
C. FABRICATE AND SUPPORT ALL DUCTWORK IN ACCORDANCE WITH SMACNA APPLICABLE PRESSURE DUCT CONSTRUCTION STANDARD AND ASHRAE HANDBOOKS, EXCEPT AS MODIFIED HEREIN. PROVIDE DUCT MATERIAL GAUGES, REINFORCING AND SEALING (CLASS C) FOR 2" PRESSURE CLASSIFICATION POSITIVE OR NEGATIVE, EXCEPT W.G. AS MODIFIED HEREIN.
D. PROVIDE ACCESS DOORS TO ALL CONCEALED CONTROLS,FUSIBLE LINKS, DAMPERS, ETC.
E. PROVIDE MANUAL DAMPERS IN EACH SPLIT OR TAP CONNECTION TO TRUNK DUCTS FOR BALANCING PROPOSES, EACH PROVIDED WITH OPERATOR AND LOCKING DEVICE.
F. ANGLES AND OTHER STRUCTURAL SHAPES USED IN CONNECTION WITH BOTH STEEL AND ALUMINUM SHEETS SHALL BE DIAMETER ZINC-COATED STEEL. HANGER SHALL BE 3/8" MINIMUM HOT ROLLED MILL STEEL.
G. PROVIDE FIRE DAMPERS AND/OR FIRE-SMOKE DAMPERS WITH ACCESS DOORS WHERE SHOWN ON DRAWINGS. FIRE DAMPERS SHALL BE "RUSKIN" OR AS APPROVED. DAMPERS SHALL MEET THE REQUIREMENTS OF NFPA BULLETIN NO. 90A, AND LOCAL BUILDING CODE.
H. INSULATED FLEXIBLE DUCTWORK WITH VAPOR BARRIER MAY BE USED TO CONNECT LOW PRESSURE DUCTWORK TO CEILING DIFFUSERS. FLEXIBLE DUCT SHALL NOT EXCEED 3 FEET IN LENGTH, WITH CONSTRUCTION CONFORMING TO NFPA 90A AND UL181.
I. INSULATED FLEXIBLE DUCTS, VINYL IMPREGNATED FIBERGLASS FABRIC SUPPORTED BY HELICALLY WOUND SPRING STEEL WIRE OR FLAT STEEL BANDS RATED TO 3 INCHES WG POSITIVE AND 15 INCHES WG NEGATIVE, WRAPPED WITH FLEXIBLE GLASS FIBER INSULATION, ENCLOSED BY SEAMLESS ALUMINUM PIGMENTED PLASTIC VAPOR BARRIER JACKET MAXIMUM 0.23K VALUE AT 75 DEGREES F.
J. DUCTWORK LAYOUTS AND ROUTES AS SHOWN ON THE DRAWINGS ARE SCHEMATIC. THEREFORE, CHANGES IN DUCT SIZES AND/OR LOCATIONS SHALL BE MADE WHERE NECESSARY TO CONFORM TO SPACE CONDITIONS OR TO OBTAIN MAXIMUM HEADROOM CONDITIONS WITHOUT ADDITIONAL COSTS TO THE OWNER.
K. MINIMUM DUCT GAUGE SHALL BE "MINIMUM" AND "NOT LESS THAN" 24. DRIVE SLIPS AND CADDY CLIPS ARE PROHIBITED.
L. COORDINATE WITH ALL AFFECTED TRADES TO ENSURE THAT NO CEILINGS, EQUIPMENT OR OTHER MATERIALS OTHER THAN AS SPECIFICALLY PROVIDED HEREIN ARE SUPPORTED FROM DUCTWORK OR THE DUCTWORK HANGER SYSTEM.
M. MAKE JOINTS AND SEAMS SMOOTH ON THE INSIDE AND A NEAT FINISH ON THE OUTSIDE. DUCT JOINTS SHALL BE AIRTIGHT WITH LAPS MADE IN THE DIRECTION OF AIR FLOW AND NO FLANGES PROJECTING INTO THE AIR STREAM. DUCTS SHALL BE ADEQUATELY BRACED TO PREVENT VIBRATION. PROVIDE ADDITIONAL BRACING WHERE NECESSARY.
N. ALL JOINTS SHALL BE SEALED USING DUCT SEALER SIMILAR TO FOSTER 32 – 50.
O. PROVIDE AN AIRTIGHT FABRIC NECK AT THE INLET AND OUTLET CONNECTIONS OF AIR HANDLING SYSTEMS. NECKS SHALL BE NOT LESS THAN 3" NOR MORE THAN 10" IN WIDTH AND BOTH SIDES SHALL BE SECURED WITH CRIMPED LOCK SEAMS THE ENTIRE PERIMETER WITH GALVANIZED STEEL SHEET BANDS 3" WIDE. NECK FABRIC SHALL BE CLOSE WOVEN GLASS CLOTH, DOUBLE NEOPRENE COATED, 28-OUNCES PER SQUARE YARD MINIMUM WEIGHT.
P. DUCTS, AIR HANDLERS, AND FILTER BOXES ARE SEALED WITH JOINTS/SEEMS COMPLIANT WITH INTERNATIONAL MECHANICAL CODE OR INTERNATIONAL RESIDENTIAL CODE, AS APPLICABLE.

9. GRILLES, REGISTERS AND DIFFUSERS

A. FURNISH AND INSTALL ALL METAL DIFFUSERS, GRILLES AND REGISTERS AS SPECIFIED.
B. A SCHEDULE OF DIFFUSERS, GRILLES AND REGISTERS WITH MANUFACTURERS MODELS, SIZES ACCESSORIES, FINISHES ETC., SHALL BE SUBMITTED FOR REVIEW PRIOR TO RELEASE FOR FABRICATION AND DELIVERY. REFER TO SCHEDULE OR NOTES ON DRAWINGS FOR TYPE, UNLESS BUILDING STANDARD AIR DEVICES ARE SPECIFIED.
C. AIR DIFFUSERS AND GRILLES SHALL BE LOCATED IN CONFORMANCE WITH ARCHITECTURAL REFLECTED CEILING PLANS.
D. FRAMING FOR ALL AIR DISTRIBUTION DEVICES SHALL CONFORM TO AND ACCOMMODATE THE CEILING CONSTRUCTION.
E. EXISTING DIFFUSERS SHOWN TO BE RELOCATED SHALL BE CLEANED AND TESTED FOR ACCESSORIES OPERATION.
F. PROVIDE REMOTE CORD OPERATED DAMPERS FOR LINEAR DIFFUSER BRANCH DUCTWORK BALANCING.

10. INSULATION REQUIREMENTS

A. GENERAL – FURNISH AND INSTALL THERMAL INSULATION AS SPECIFIED IN THIS SECTION. INSULATION SHALL BE MANUFACTURED BY OWENS CORNING, MANSVILLE, CERTAINTEED OR APPROVED EQUAL. ALL INSTALLED INSULATION IS LABELED AND THE INSTALLED R-VALUES PROVIDED.
B. PROVIDE INSULATION (INCLUDING INSULATION JACKET OR FACING AND ADHESIVES USED TO ADHERE THE FACING OR JACKET TO THE INSULATION) WITH NONCOMBUSTIBLE MATERIAL MEETING ALL CODE REQUIREMENTS AND FIRE AND SMOKE HAZARD RATINGS AS TESTED BY PROCEDURE ASTM E-84, NATIONAL FIRE PROTECTION ASSOCIATION 225, AND UL 723, NOT EXCEEDING FLAME SPREAD 25 AND SMOKE DEVELOPED 50. PROVIDE PROTECTION OF INSULATION ON ALL HVAC PIPING.
C. INSULATION SCHEDULE

DUCTWORK:
CONCEALED 1" THICK 3/4# DENSITY ALUM. VAPOR JACKET
EXPOSED 1" THICK 6# DENSITY ALUM. VAPOR JACKET
CONDENSER IN 1" THICK 6# DENSITY ALUM. VAPOR JACKET
CONDENSER OUT 1" THICK 6# DENSITY ALUM. VAPOR JACKET

NOTE: ALL SUPPLY DUCTWORK, NEW AND EXISTING WITHIN CONTRACT LIMITS SHALL BE INSULATED UNLESS OTHERWISE NOTED. RETURN DUCTWORK SHALL BE INSULATED WHEN SO SPECIFIED. SUPPLY AND RETURN DUCTS IN ATTICS INSULATED >= R-8, WHERE DUCT IS >= 3 INCHES IN DIAMETER OR >= R-6 WHERE <3 INCHES.

D. PERFORM ALL WORK IN STRICT ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
E. SEAL ALL VAPOR BARRIERS TO PREVENT MOISTURE PENETRATION.
F. EXPOSED DUCTWORK TO ELEMENT SHALL BE WRAPPED 2" INSULATION WITH TWO LAYERS OF BITUMINOUS ROOFING FELT AND TWO COATS OF BITUMINOUS.
G. HVAC PIPING CONVEYING FLUIDS ABOVE 105 DEGREES F OR CHILLED FLUIDS BELOW 55 DEGREES F ARE INSULATED TO >= R-3.

11. ACOUSTICAL LINING

A. PROVIDE ACOUSTICAL LINING AS SHOWN ON DRAWINGS AND SPECIFIED HEREIN.
B. ACOUSTIC LINING: ACOUSTIC LINE ALL DUCTWORK, SUPPLY AND RETURN WITHIN MECHANICAL EQUIPMENT ROOMS, OR A DISTANCE OF NOT LESS THAN 15'-0" FROM SYSTEM FANS, OR AS SHOWN ON DRAWING.
C. LINING SHALL BE 1-1/2 LB PER CU. FT. DENSITY, OWENS CORNING, JOHNS MANSVILLE, KNAUF, OR CERTAINTEED WITH A MINIMUM THICKNESS OF 1", EXCEPT AS MODIFIED HEREIN OR ON DRAWINGS. LINING SHALL BE COATED TO PREVENT FIBER DETERIORATION AT VELOCITIES BELOW 2000 FPM.
D. DUCT SIZES INDICATED ON DRAWINGS ARE CLEAR, INSIDE DIMENSIONS WITHOUT THE ACOUSTICAL LINING INSTALLED.

12. AIR DISTRIBUTION SYSTEM INSTALLATION

A. ADHERE TO DRAWINGS AS CLOSELY AS POSSIBLE. VARY THE RUNS AND SIZES OF DUCTWORK WHERE NECESSARY TO ACCOMMODATE CONDITIONS ARISING DUE TO FIELD CONDITIONS.
B. SHAPE ALL CHANGES IN DIRECTION, BOTH HORIZONTAL AND VERTICAL, TO PERMIT THE EASIEST POSSIBLE AIR FLOW OR USE SQUARE DOUBLE VANED ELBOWS.
C. EXACT DIMENSIONS OF OPENINGS MUST AWAIT REVIEW OF REGISTERS AND DIFFUSERS. EXACT LOCATIONS SHALL BE SUBMITTED FOR REVIEW. REGISTER BOXES AND OTHER OPENINGS OF THE DUCTWORK MUST BE TIGHTLY CLOSED DURING CONSTRUCTION TO KEEP DIRT, DUST AND OTHER FORMS OF RUBBISH OUT OF THE DUCTWORK.
D. PROVIDE GALVANIZED ANGLE IRON AND BANDS REQUIRED FOR DUCTWORK BRACING AND SUPPORT. PROVIDE HANGER INSERTS SUITABLE FOR THE STRUCTURE FROM WHICH THE DUCTS WILL BE HUNG. INSERTS SHALL NOT BE PERMITTED IN "CINDER CONCRETE" SLABS.
E. PROVIDE DOUBLE THICK TURNING VANES IN ALL CASES WHERE 90° DEGREE SQUARE ELBOWS ARE USED.
F. AIR HANDLER LEAKAGE DESIGNATED BY MANUFACTURER AT <=2% OF DESIGN AIR FLOW.

13. AUTOMATIC TEMPERATURE CONTROLS

A. FURNISH AND INSTALL A COMPLETE SYSTEM OF AUTOMATIC TEMPERATURE CONTROLS IN ACCORDANCE WITH THESE SPECIFICATIONS AND BUILDING STANDARDS. PROGRAMMABLE THERMOSTATS INSTALLED FOR CONTROL OF PRIMARY HEATING AND COOLING SYSTEMS AND INITIALLY SET BY MANUFACTURER TO CODE SPECIFICATIONS.
B. CONTROL SYSTEM TO INCLUDE ALL REQUIRED DEVICES SUCH AS: THERMOSTATS, SENSORS, TRANSMITTERS, RELAYS, CONTACTS, AVERAGING CONTROLLERS, HIGH/LOW LIMIT CONTROLS, WATER DETECTORS, ETC., TO PROVIDE A COMPLETE WORKING SYSTEM.
C. ALL CONTROL WIRING SHALL BE INCLUDED UNDER THIS SECTION AND INSTALLED IN BE ACCORDANCE WITH ALL LOCAL REGULATIONS.
D. PROJECTS IN BUILDINGS WITH CENTRAL BUILDING MANAGEMENT SYSTEMS SHALL BE COORDINATED WITH THE SYSTEM MANUFACTURER TO ASSURE TOTAL COMPATIBILITY OF ALL DEVICES TO BE FURNISHED BY THE MECHANICAL CONTRACTOR, OR SPECIFIED EQUIPMENT MANUFACTURER.
E. A COMPLETE SUBMITTAL INDICATING ALL POINT-TO-POINT WIRING SCHEMATICS, DEVICES TO BE FURNISHED, SET-POINTS, PHYSICAL LAYOUT, LOCATION AND SIZE OR ALL EQUIPMENT SUCH AS THERMOSTATS, CONTROL PANELS, STARTERS, ETC., OF DEVICES SHALL BE SUBMITTED PRIOR TO INSTALLATION FOR REVIEW BY THE OWNER, ENGINEER, AND ARCHITECT AS REQUIRED. INSTALLATION OF DEVICES SHALL NOT PROCEED UNTIL REVIEWED.
F. PROVIDE ONE YEAR FREE SERVICE AND GUARANTEE OF TEMPERATURE CONTROL SYSTEM.
G. PROVIDE ALL NECESSARY WIRING DIAGRAMS AND CONTROL SEQUENCE FOR THE COMPLETE SYSTEM.
H. A/C SYSTEM SHALL BE PROVIDED WITH

1) HEATING AND COOLING DIGITAL THERMOSTAT WITH TIME CLOCK FOR WEEKEND AND NIGHT SET BACK FEATURES
2) SMOKE DETECTOR IN RETURN DUCT AFTER FILTER AIR PLENUM AT UNIT AND INTERFACED WITH THE ALARM SYSTEM. MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL DUCT SMOKE DETECTOR. PROVIDE A LOCKABLE CONTROL PANEL. LOCATE ALL CONTROLS IN CONTROL PANEL.

I. THE A/C UNITS SUPPLIED WITH CERTAIN CONTROL ITEMS WHICH SHALL BE INTEGRATED WITH OTHER CONTROL ITEMS NECESSARY TO OBTAIN A FULLY AUTOMATIC SYSTEM AS DESCRIBED HEREIN.

14. VIBRATION ISOLATION

A. FURNISH VIBRATION ISOLATION DEVICES FOR ALL EQUIPMENT WITH ROTATING MOTORS AND FANS.
B. DEVICES SHALL BE SUITABLE FOR NOT LESS THEN 95 ISOLATION.
C. DEVICES INSTALLED SUBJECT TO OUTDOOR WEATHER CONDITIONS SHALL BE SUITABLY PROTECTED TO PREVENT CORROSION
D. ISOLATION SHALL BE PROVIDED FOR ALL PIPING AND PUMPS WITHIN MECHANICAL EQUIPMENT ROOMS, AND/OR NOT LESS THAN 50' FROM PUMPS AND FANS, AND/OR BETWEEN ALL MECHANICAL EQUIPMENT AND BUILDING STRUCTURE UNLESS OTHERWISE NOTED OR SHOWN ON DRAWINGS.

SYMBOL LIST

	MINI SPLIT AIR HANDLING UNIT	ERV	ENERGY RECOVERY VENTILATOR
	MINI SPLIT CONDENSING UNIT / CONDENSING UNIT	MSAHU	MINI-SPLIT AIR HANDLING UNIT
	ELECTRIC UNIT HEATER	MSCU	MINI-SPLIT CONDENSING UNIT
	ENERGY RECOVERY VENTILATOR	CFM	CUBIC FEET PER MINUTE
	NEW WORK (SINGLE LINE)	ø	DIAMETER
	RETURN/EXHAUST REGISTER/GRILLE	EUH	ELECTRIC UNIT HEATER
	SUPPLY DUCTWORK/GRILLE	RG	RETURN REGISTER
	TOILET EXHAUST FAN	SG	SUPPLY DIFFUSER
T	THERMOSTAT	SP	STATIC PRESSURE
VD	VOLUME DAMPER	TEF	TOILET EXHAUST FAN
		OA	OUTSIDE AIR
		EF	EXHAUST FAN

NOTE:

SYMBOL LIST SHOWN ABOVE IS FOR GENERAL REFERENCE ONLY, THE PRESENCE OF A SYMBOL DOES NOT IMPLY ITS USE ON THIS PROJECT. REFER TO DRAWINGS FOR SPECIFIC SYMBOLS USED.

APPLICABLE CODES

NEW JERSEY BUILDING CODES:
INTERNATIONAL MECHANICAL CODE 2021
NATIONAL STANDARD PLUMBING CODE 2021
INTERNATIONAL FUEL GAS CODE 2021

NEGLIA GROUP
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MECHANICAL NOTES, SYMBOLS & ABBREVIATIONS

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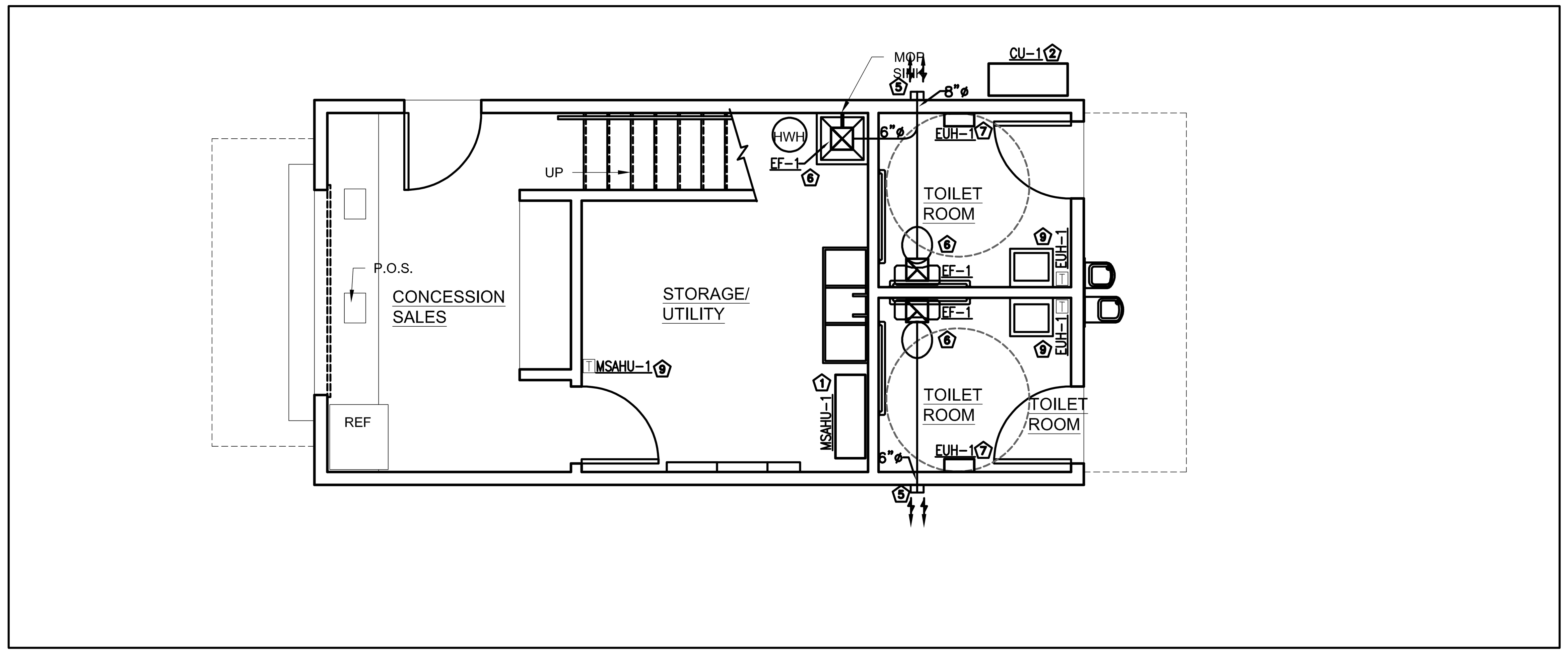
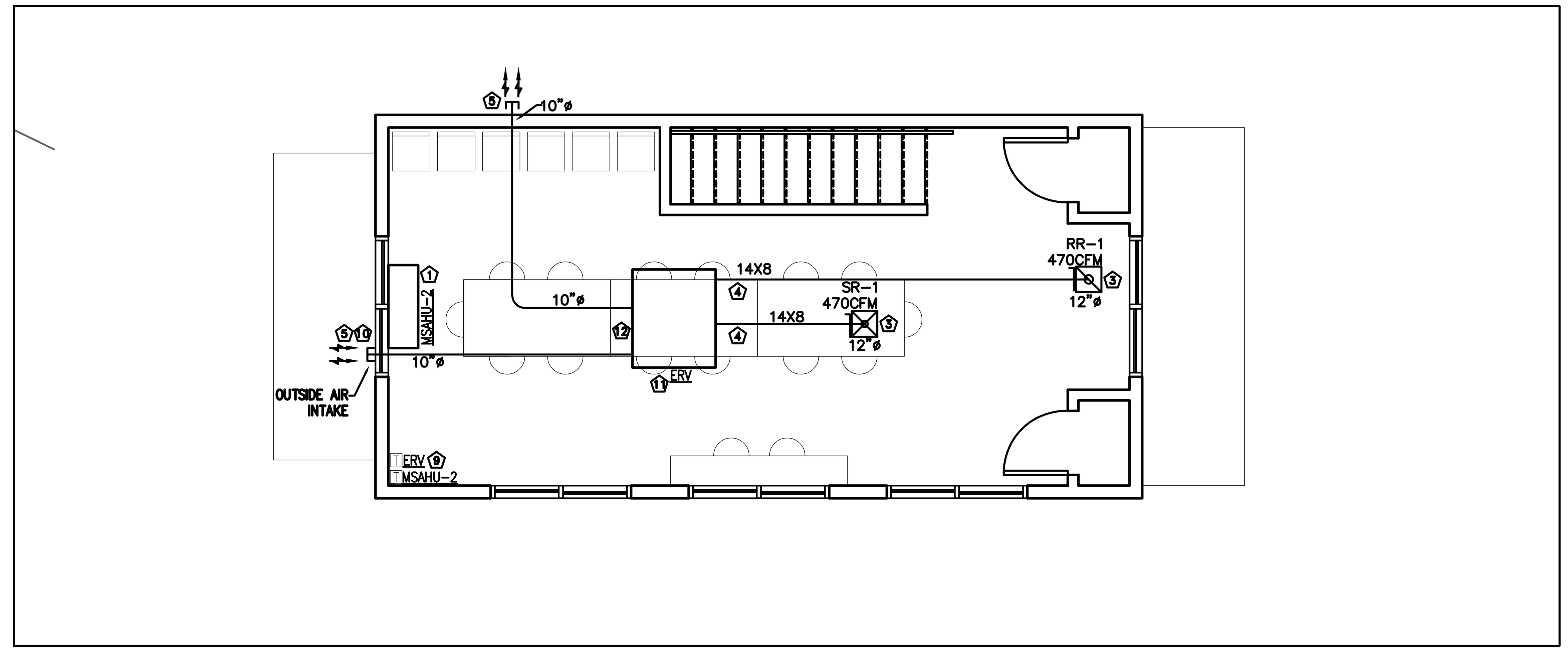


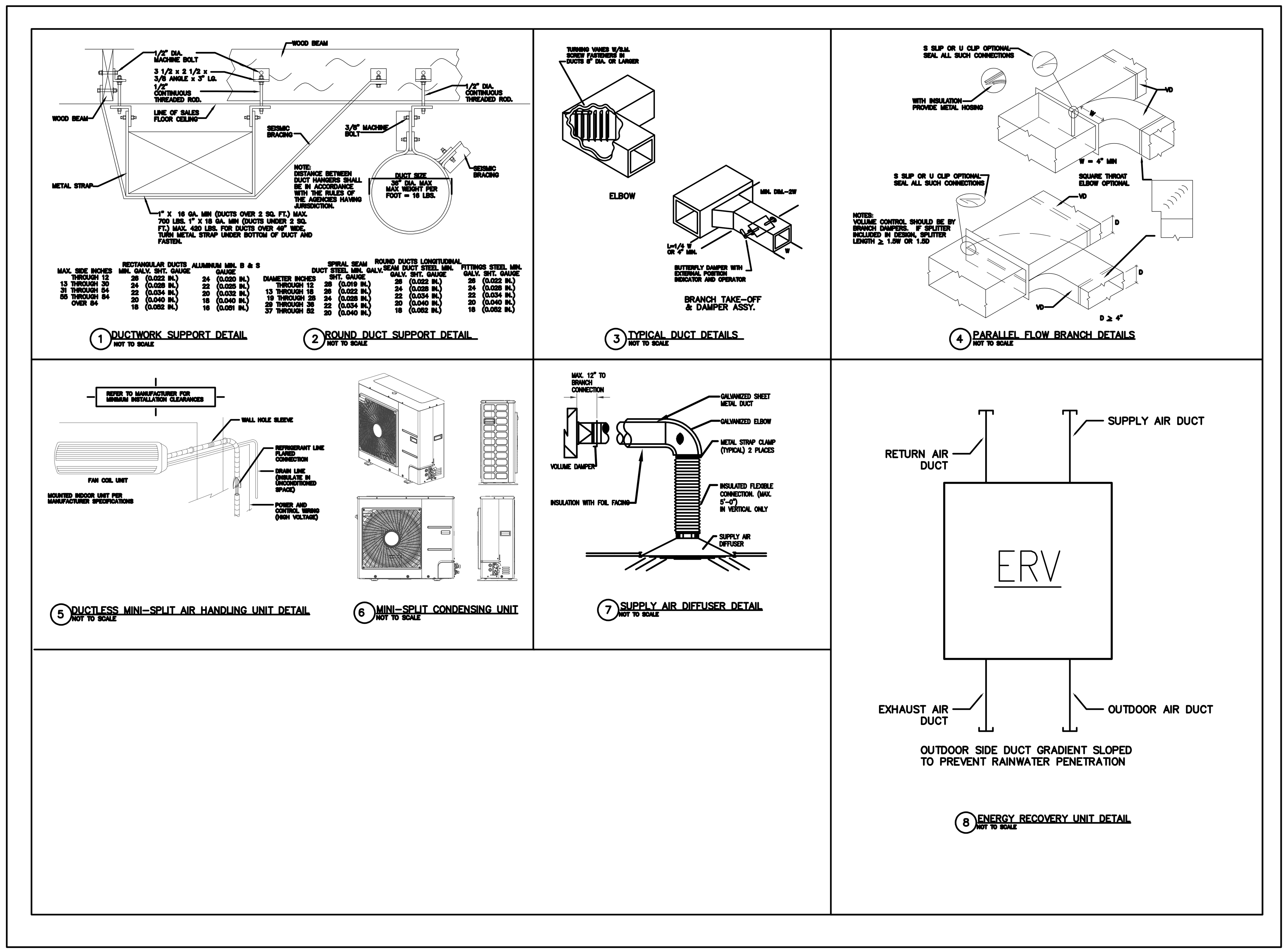
1 CONCESSION BUILDING – 1ST FLOOR HVAC

SCALE: 1/4" = 1'–0" NORTH



2 CONCESSION BUILDING – 2ND FLOOR HVAC

SCALE: 1/4" = 1'–0" NORTH



3 MECHANICAL DETAILS

SCALE: N.T.S.

KEY NOTES

1. PROVIDE/INSTALL NEW WALL MOUNTED DUCTLESS MINI–SPLIT AIR HANDLER UNIT AND ACCESSORIES FOR A COMPLETE AND OPERABLE HVAC SYSTEM PER SCHEDULE AND AS SHOWN ON PLANS. NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES PRIOR TO BID/INSTALLATION. INSTALL CONDENSATE DRAIN PIPING TO THE NEAREST SINK DRAIN, ABOVE THE TRAP. REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION.
2. PROVIDE/INSTALL NEW CONDENSER UNIT AND ACCESSORIES FOR A COMPLETE AND OPERABLE SYSTEM AS SHOWN ON PLANS. MAINTAIN MANUFACTURER CLEARANCES CONDENSING UNITS REQUIRE NEOPRENE VIBRATION PADS ON RATED CONCRETE SLAB. NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES PRIOR TO BID/INSTALLATION.
3. PROVIDE/INSTALL AIR DEVICE AND MANUAL VOLUME DAMPER PER SCHEDULE AND AS SHOWN ON PLANS.
4. PROVIDE/INSTALL NEW SUPPLY, RETURN, AND OUTSIDE AIR DUCTWORK AND INSULATION AS REQUIRED BY CODE. SUPPLY AND RETURN AIR OUTLETS CAN BE CONNECTED TO FLEX OR RIGID DUCT, DEPENDING ON AVAILABLE CEILING SPACE AND ASSOCIATED BRANCH DUCT DIMENSION REQUIREMENTS. FLEX DUCT THROUGHOUT CORRIDORS MUST REMAIN UNDER 5 FEET IN LENGTH. PROVIDE/INSTALL RATED FIRE DAMPERS AT HORIZONTAL DUCTWORK PENETRATIONS THROUGH FIRE RATED WALLS OR STRUCTURES. FIELD VERIFY AVAILABLE CEILING SPACE AND NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
5. PROVIDE/INSTALL NEW FIRE BARRIER DUCT WRAP PER SCHEDULE. INSTALL PER MANUFACTURER INSTALLATION SPECIFICATIONS AND LOCAL CODE HAVING JURISDICTION.
6. PROVIDE/INSTALL CEILING CABINET EXHAUST FAN PER SCHEDULE AND MANUFACTURER SPECIFICATIONS. 6"ø/8"ø EXHAUST DISCHARGE TERMINATION OUTWARD THROUGH WALL CAP. PROVIDE MANUAL TOGGLE SWITCH FOR MOP SINK EXHAUST FAN CONTROL. RESTROOM EXHAUST FANS TO BE CONTROLLED VIA LIGHT SWITCH. EXHAUST AIR DISCHARGE MUST BE A MINIMUM OF TEN (10) FEET FROM ANY OUTSIDE AIR INTAKE.
7. PROVIDE/INSTALL NEW WALL MOUNTED ELECTRIC UNIT HEATER. REFER TO MANUFACTURER SPECIFICATIONS FOR WALL MOUNTING POSITION AND REQUIRED HARDWARE. CONFIRM FINAL LOCATIONS AND THERMOSTAT SET POINTS WITH OWNER'S REPRESENTATIVE.
8. NOT USED.
9. THERMOSTAT PER SCHEDULE. INSTALL 5'–0" FROM THE FLOOR. PROVIDE LOCKABLE COVER. COORDINATE FINAL LOCATION AND TEMPERATURE SET POINTS WITH OWNER'S REPRESENTATIVE, PRIOR TO INSTALLATION.
10. OUTSIDE AIR INTAKE MUST BE MINIMUM OF TEN (10) FEET FROM ANY EXHAUST DISCHARGE. REFER TO SCHEDULE FOR ROOF CAP & WALL CAP MANUFACTURER INFORMATION; CONFIRM FINAL LOCATION AND FINISH WITH OWNER'S REPRESENTATIVE.
11. PROVIDE/INSTALL NEW ENERGY RECOVERY VENTILATION UNIT AND ACCESSORIES TO OPERATE AS PER INTENDED OUTSIDE AIR VENTILATION RATE, FOR A COMPLETE AND OPERABLE HVAC SYSTEM, PER SCHEDULE AND AS SHOWN ON PLANS. NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES PRIOR TO BID/INSTALLATION. STANDARD III WIRED REMOTE CONTROLLER ACCESSORY, PREMTB100, TO BE PROVIDED AND INSTALLED. PROVIDE/INSTALL CEILING ACCESS PANELS FOR REQUIRED, PERIODIC MAINTENANCE. CONFIRM LOCATION AND FINISH WITH OWNER'S REPRESENTATIVE. ERV UNIT OUTSIDE AIR INTAKE SHALL BE A MINIMUM OF TEN (10) FEET FROM ANY EXHAUST AIR DISCHARGE.
12. ERV UNIT EXHAUST AIR DISCHARGE AND OUTSIDE AIR INTAKE DUCTWORK OUTWARD THROUGH 2ND LEVEL CEILING SPACE THROUGH ASSOCIATED WALL CAPS. REFER TO SCHEDULE FOR ROOF CAP MANUFACTURER INFORMATION. CONFIRM LOCATION AND FINISH WITH OWNER'S REPRESENTATIVE.

4 MECHANICAL KEY NOTES

SCALE: N.T.S.

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CONCESSION BUILDING HVAC FLOOR PLANS, KEY NOTES, & DETAILS

DRAWN BY: JM	SCALE: AS SHOWN
DESIGNED BY: JM	CHECKED BY: JFG
PROJECT NO.: 20241203	
DATE: NOVEMBER 2024	M100

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ENERGY RECOVERY VENTILATOR SCHEDULE

UNIT #	LOCATION	MANUFACTURER MODEL #	UNIT DATA			ELECTRIC DATA		WEIGHT (LB)	REMARKS
			NOMINAL CAPACITY (CFM)	AIR FLOW RATE (CFM) (SH/H/L)	E.S.P. (IN. W.G.) (SH/H/L)	VOLT/PH/HZ	RATED AMPS (AMP)		
ERV	RESIDENTIAL UNITS	LG ARVU053ZEA2	470	471/471/338	0.80/0.44/0.24	208~230/1/60	2.8	148.0	1–5

BASIS OF DEIGN:

NEW ENERGY RECOVERY VENTILATOR UNIT WIT HAIR TO AIR HEAT EXHCHANGER TO PROVIDE HEAT AND ENTHALPY EXCHANGE TO SERVE ASSOCIATED RESIDENTIAL SUPPLY AND RETURN AIR IN CONJUNCTION WITH OUTSIDE AIR INTAKE AND EXHAUST AIR. ERV UNIT SHALL ENGAGE OPERATION UPON ACTIVATION OF ASSOCIATED DUCTLESS MINI–SPLIT AIR HANDLING UNIT, MSAHU–2.

REMARKS:

1. CONTRACTOR SHALL PROVIDE/INSTALL NEW CONDENSING UNIT AND ACCESSORIES FOR A COMPLETE AND OPERABLE HVAC SYSTEM AS SHOWN ON PLANS. INSTALL PER LOCAL CODE HAVING JURISDICTION.
2. MAINTAIN MANUFACTURER SPECIFIED CLEARANCES.
3. PROVIDE/INSTALL ENERGY RECOVERY VENTILATION SYSTEM AS SHOWN ON PLANS. FOR ADDITIONAL INFORMATION REFER TO MANUFACTURER INSTALLATION INSTRUCTION AND OWNER'S REPRESENTATIVE.
4. PROVIDE/INSTALL BOTH PRE–FILTERS AND MERV–13 FILTER AS PER MANUFACTURER DIMENSIONS AND SPECIFCIATIONS.
5. PROVIDE STANDARD III WIRED REMOTE CONTROLLER – PREMTB100.

FIRE BARRIER DUCT WRAP SCHEDULE

"FBDW"	THE 1 HOUR FIRE BARRIER VENTILATION DUCT WRAP SHALL BE MANUFACTURED BY 3M MODEL#: FIRESTOP WRAP 615+48, OR APPROVED EQUIVALENT. FIRE BARRIER DRYER VENTILATION WRAP MUST MEET THE REQUIREMENTS FOR FIRE PROTECTION. FIRE BARRIER DRYER VENTILATION WRAP IS UL 1479/NFPA 96/NFPA 92A/NFPA 92B/ISO 6944–1985/ASTM E814 APPROVED.

EXHAUST WALL CAP SCHEDULE

"EWC"	THE EXHAUST WALL VENT CAP SHALL BE MANUFACTURED BY BROAN MODEL#: 641, 6"ø/8"ø/10"ø, OR APPROVED EQUIVALENT. EXHAUST VENTILATION GRILLE IS UL 723/ASTM E84 STANDARDS COMPLIANT.

AIR DEVICE SCHEDULE

UNIT #	TYPE	MANUFACTURER MODEL #	SIZE (IN)	MOUNTING	MATERIAL	REMARKS
SR–1	SUPPLY DIFFUSER	TITUS 250	16X16	CEILING	STEEL	1,2
RR–1	RETURN REGISTER	TITUS 350	12X12	CEILING	STEEL	1,4

REMARKS:

1. FINISH BY ARCHITECT.
2. STEEL CONSTRUCTION CURVED BLADE CEILING DIFFUSER WITH 4–WAY DISCHARGE.
3. STEEL CONSTRUCTION LOUVERED RETURN REGISTER WITH MODEL AG–15 OPPOSED BLADE DAMPER.
4. SUPPLY AND RETURN AIR OUTLETS CAN BE CONNECTED TO FLEX OR RIGID DUCT, CONDITIONAL ON AVAILABLE CEILING SPACE AND ASSOCIATED BRANCH DUCT DIMENSION REQUIREMENTS. PROVIDE MANUAL VOLUME DAMPERS FOR ALL AIR OUTLETS. REPORT ANY DISCREPANCIES TO OWNER'S REPRESENTATIVE.

WALL MOUNTED ELECTRIC UNIT HEATER SCHEDULE

UNIT #	SERVICE	MANUFACTURER MODEL #	CFM	ELECTRIC DATA			HEATING CAPACITY		WEIGHT (LBS)	REMARKS
				AMPS	VOLT/PH/HZ	FAN MOTOR SIZE (HP)	(kW)	(BTUh)		
EUH–1	RESTROOMS	QMARK MUH0321	350	11.0/12.5	208/240/1/60	1/100	2.2/3.0	7.5/10.2	N/A	1–3

REMARKS:

1. PROVIDE/INSTALL WALL MOUNTED THERMOSTAT, SET @ 70 DEG. F.
2. REFER TO MANUFACTURER SPECIFICATIONS REGARDING WALL MOUNTING CONFIGURATION, HEIGHT, INSTALLATION, AND OPERATION OF UNIT AND ACCESSORIES.
3. CONFIRM FINAL HEATER LOCATIONS AND THERMOSTAT TEMPERATURE SET–POINT WITH OWNER'S REPRESENTATIVE.

MINI SPLIT AIR HANDLER UNIT SCHEDULE

UNIT #	LOCATION	MANUFACTURE MODEL NUMBER	TONS	TOTAL CFM	NOMINAL CAPACITY		ELECTRIC DATA		WEIGHT (LBS)	REMARKS
					COOLING (BTU/H)	HEATING (BTU/H)	VOLT/PH/HZ	RATED AMPS (A)		
MSAHU–1	1ST STORAGE	LG LSN181HSV5	1.5	558 438 353	18,000	21,600	208~230/1/60	0.4	25.6	1–6
MSAHU–2	2ND ANNOUNEMENT	LG LSN181HSV5	1.5	558 438 353	18,000	21,600	208~230/1/60	0.4	25.6	1–6

BASIS OF DEIGN:

NEW INDOOR WALL MOUNTED DUCTLESS MINI–SPLIT AIR HANDLING UNITS. REFER TO MANUFACTURER SPECIFICATIONS REGARDING INSTALLATION. RATED CAPACITY IS BASED ON 95'F DB/75'F WB OUTDOOR TEMPERATURE. AS PER 2021 EPA REQUIREMENTS, R410A IS NO LONGER ALLOWED IN ANY UNITS MANUFACTURED JANUARY 1ST, 2025, OR LATER. TWO–PORT BRANCH DISTRIBUTION UNIT REQUIRED FOR INSTALLATION, MODEL# LG PMBD3620.

REMARKS:

1. CONTRACTOR SHALL PROVIDE/INSTALL DUCTLESS MINI–SPLIT AIR HANDLING UNIT AND ACCESSORIES FOR A COMPLETE AND OPERABLE HVAC SYSTEM AS SHOWN ON PLANS. REFER TO MANUFACTURER SPECIFICATIONS FOR PROPER INSTALLATION RESTRICTIONS AND REQUIREMENTS.
2. MAINTAIN MANUFACTURER CLEARANCES.
3. COORDINATE ELECTRICAL DISCONNECT WITH ELECTRICAL CONTRACTOR.
4. PROVIDE THERMOSTAT CONTROL VIA LG PREMTB101 STANDARD III WIRED REMOTE CONTROLLER.
5. REFER TO MSAHU SCHEDULE AND MANUFACTURER SPECIFICATIONS FOR PROPER INSTALLATION RESTRICTIONS AND REQUIREMENTS.
6. RUN 27/32 O.D. & 5/8 I.D. INCH DRAIN LINE TO NEAREST APPROVED BY CODE LOCATION.

FAN SCHEDULE

UNIT #	SERVICE	MANUFACTURER MODEL #	PERFORMANCE DATA		FAN DATA			MOTOR DATA		WEIGHT (LB)	REMARKS
			CFM	SP TOTAL (IN WG)	TYPE	DRIVE	RPM	VOLT/PH/HZ	HP		
EF–1	MOP SINK & RESTROOMS	PANASONIC FV–0511VKS2	80	0.125	CEILING	DIRECT	1280	120/1/60	1/10	7	1,2

REMARKS:

1. PLUG DISCONNECT AND FACTORY MOUNTED BACK–DRAFT DAMPER.
2. UNIT CONTROLLED BY LIGHT SWITCH.

OUTSIDE AIR INTAKE WALL CAP SCHEDULE

"IWC"	THE OUTSIDE AIR INTAKE WALL VENT CAP SHALL BE MANUFACTURED BY FAMCO, MODEL: "PLASTIC WALL VENT WITH FIXED LOUVERS", 10"ø, OR APPROVED EQUIVALENT. EXHAUST VENTILATION GRILLE IS UL 723/ASTM E84 STANDARDS COMPLIANT.

MINI SPLIT CONDENSING UNIT SCHEDULE

UNIT #	LOCATION	MANUFACTURER MODEL #	TONS	TOTAL CFM	FAN MOTOR (A)	COMPRESSOR (A)	HEATING (BTU/H)	COOLING CAPACITY			ELECTRIC DATA			WEIGHT (LBS)	INDOOR UNITS SERVED	REMARKS
								MAX (BTU/H)	DB °F	WB °F	VOLT/PH/HZ	MCA (AMP)	MOP (AMP)			
MSCU–1	OUTDOOR	LG LMU361HHV	3.0	4238	1.6 X 2	22.0	50,000	47,000	80	67	208~230/1/60	32.7	40.0	218.0	MSAHU–1,2	1–5

BASIS OF DEIGN:

NEW OUTDOOR DUCTLESS MINI–SPLIT CONDENSING UNITS TO SERVE ASSOCIATED WALL MOUNTED MINI–SPLIT AIR HANDLING UNITS. REFER TO MANUFACTURER SPECIFICATIONS REGARDING INSTALLATION. RATED CAPACITY IS BASED ON 95'F DB/75'F WB OUTDOOR TEMPERATURE. AS PER 2021 EPA REQUIREMENTS, R410A IS NO LONGER ALLOWED IN ANY UNITS MANUFACTURED JANUARY 1ST, 2025, OR LATER. TWO–PORT BRANCH DISTRIBUTION UNIT REQUIRED FOR INSTALLATION, MODEL# LG PMBD3620.

REMARKS:

1. CONTRACTOR SHALL PROVIDE/INSTALL NEW CONDENSING UNIT AND ACCESSORIES FOR A COMPLETE AND OPERABLE HVAC SYSTEM AS SHOWN ON PLANS. INSTALL PER LOCAL CODE HAVING JURISDICTION.
2. MAINTAIN MANUFACTURER SPECIFIED CLEARANCES.
3. PROVIDE/INSTALL CONDENSING UNIT ON ROOF LEVEL AS SHOWN ON PLANS. FOR ADDITIONAL INFORMATION REFER TO MANUFACTURER SPECIFICATIONS AND OWNER'S REPRESENTATIVE.
4. COORDINATE DISCONNECT SWITCH WITH ELECTRICAL CONTRACTOR.
5. RUN 3/8 INCH LIQUID LINE AND 3/4 INCH GAS LINE.

1 MECHANICAL SCHEDULES
N.T.S.

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MECHANICAL SCHEDULES

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DESIGNED BY:	JM	CHECKED BY:	JFG
PROJECT NO.: 20241203			
DATE: NOVEMBER 2024		M200	

PLUMBING SPECIFICATIONS

A. GENERAL:

1. THE ENTIRE INSTALLATION, INCLUDING ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP, SHALL CONFORM TO ALL APPLICABLE LAWS, CODES, AND REGULATIONS OF MUNICIPAL, COUNTY, STATE, AND FEDERAL AUTHORITIES AND IN COMPLIANCE WITH THE LATEST EDITIONS OF THE LIFE SAFETY CODE, LOCAL BUILDING CODE, PLUMBING AND HEALTH CODES, AND ALL AMENDMENTS.

2. IT IS THE INTENT OF THESE SPECIFICATIONS TO PROVIDE A COMPLETE, FINISHED, TESTED, ADJUSTED, AND OPERATIONAL PLUMBING SYSTEM. ANY APPARATUS, MATERIAL, WORK, OR INCIDENTAL ITEMS REQUIRED TO MAKE THE SYSTEM COMPLETE AND READY FOR OPERATION SHALL BE INCLUDED IN THE PLUMBING CONTRACTOR'S PROPOSAL (BID) WHETHER OR NOT IT IS SHOWN ON THE DRAWINGS OR NOTED.

3. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC. THEY ARE INTENDED TO CONVEY THE SCOPE OF THE WORK AND TO INDICATE THE GENERAL ARRANGEMENT OF THE EQUIPMENT, PIPING, ETC. THE PLUMBING CONTRACTOR MUST OBTAIN APPROVED CONSTRUCTION DRAWINGS FROM THE GENERAL CONTRACTOR BEFORE BEGINNING ANY WORK.

4. THE PLUMBING CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND LICENSES PERTAINING TO THE WORK.

5. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATED PLUMBING WORK WITH OTHER TRADES SO AS TO PROVIDE THE SYSTEM AS DESCRIBED.

B. GENERAL PLUMBING NOTES:

1. THE PLUMBING CONTRACTOR SHALL PROVIDE THE WORK INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN FOR ALL PLUMBING WORK. THE WORD "WORK" SHALL MEAN ALL LABOR, TRANSPORTATION, MATERIAL, EQUIPMENT, TOOLS, INSTALLATION, SUPERVISION AND ANY OTHER INCIDENTAL ITEMS OR SERVICES OBVIOUSLY NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE COMPLETE SYSTEMS. THE WORD "PROVIDE" SHALL MEAN FURNISH AND INSTALL, MAKE ALL FINAL CONNECTIONS AND LEAVE IN AN APPROVED OPERATING CONDITION.

2. THE PLUMBING CONTRACTOR SHALL NOTIFY LOCAL INSPECTOR FOR ALL REQUIRED INSPECTIONS THROUGHOUT THE CONSTRUCTION THAT ARE UNDER THE LOCAL INSPECTOR'S JURISDICTION.

3. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING WITH REGARD TO THE PLUMBING WORK: WORKMAN IDENTIFICATION, WORKER'S SAFETY CONTRACTOR'S LIABILITY INSURANCE, SAFETY BARRICADES, WARNING SIGNS AND TRASH REMOVAL.

4. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL RIGGING, HANDLING OF MATERIALS AND EQUIPMENT, AND THE NECESSARY PROTECTION FOR MATERIALS AND EQUIPMENT. TOOLS AND EQUIPMENT WILL ONLY BE STORED IN OWNER DESIGNATED AREAS ONLY.

5. THE PLUMBING CONTRACTOR WILL PROTECT THE WORK AND MATERIALS AGAINST DIRT, THEFT, INJURY OR DAMAGE UNTIL ACCEPTED BY THE OWNER. ALL WORK SHALL BE TURNED OVER TO THE OWNER CLEAN AND IN NEW CONDITION READY FOR SATISFACTORY SERVICE.

6. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL SUPPORTS AND HANGERS FOR ALL EQUIPMENT INSTALLED UNDER THIS WORK.

7. THE PLUMBING CONTRACTOR SHALL CHECK AND VERIFY ALL SIZES, DIMENSIONS AND CONDITIONS BEFORE STARTING ANY WORK. ANY DEVIATIONS OR PROBLEMS SHALL BE TRANSMITTED TO THE ARCHITECT FOR REVIEW.

8. THE PLUMBING CONTRACTOR SHALL CONNECT ALL KITCHEN EQUIPMENT. ALL EXPOSED PIPING IN KITCHEN SHALL BE CHROME PLATED.

C. SUBMITTALS:

1. THE PLUMBING CONTRACTOR SHALL SUBMIT SUBMITTAL SHEETS AND EQUIPMENT SPECIFICATIONS (SHOP DRAWINGS) OF ALL EQUIPMENT, PIPING, VALVES, ACCESSORIES, ETC. BEFORE PROCEEDING WITH ANY WORK. INCLUDING THE FOLLOWING:

   a. SPECIAL PURPOSE VALVES
   b. PLUMBING FIXTURES
   c. FLOOR DRAINS
   d. BACKFLOW PREVENTER IF APPLICABLE
   e. WATER HEATER

2. INSPECTION AND TEST REPORTS.

3. CERTIFICATES OF INSPECTIONS AND TESTS FROM AN INDEPENDENT TESTING AGENCY.

4. MAINTENANCE MANUALS OF WATER HEATERS.

5. THE PLUMBING CONTRACTOR SHALL PREPARE THREE (3) SETS OF AS-BUILT DRAWINGS OF THE PROJECT. THE THREE (3) SETS SHALL BE GIVEN TO THE OWNER AT THE COMPLETION OF THE PROJECT. ANY DEVIATIONS, CHANGES, OR ADDITIONS TO THE CONTRACT DRAWINGS MUST BE INDICATED ON THE AS-BUILT DOCUMENTS.

D. D.DELIVER, STORAGE AND HANDLING:

1. DELIVER AND STORE EQUIPMENT ON FACTORY INSTALLED SHIPPING SKIDS, SMALL SPECIALTIES IN FACTORY FABRICATED CONTAINERS AND PIPING WITH SEALING PLUGS IN ENDS OR WITH OTHER PROTECTION.

E. GENERAL PIPING, VALVES AND SUPPORTS FOR PLUMBING SYSTEMS:

1. SANITARY PIPING:

   a. UNDERGROUND SANITARY SEWER PIPING: CAST IRON AND PVC PIPING.
   b. COMPLY WITH ASTM A74, ASTM A888, AND CISPI 301.
   ABOVE GROUND SANITARY AND VENT PIPING: CAST IRON AND PVC PIPING.
   c. COMPLY WITH ASTM A74, ASTM A888, AND CISPI 301.
   CONNECT NEW SANITARY PIPING AND VENT PIPING TO EXISTING SEWER AND VENT PIPING. PROVIDE TRANSITION FITTING. VERIFY LOCATION WITH SITE ENGINEER & ARCHITECT.

2. WATER PIPING:

   a. WATER PIPING WITHIN BUILDING AND ABOVE GROUND SHALL BE TYPE "L" HARD COPPER WITH WROUGHT COPPER FITTINGS AND VALVES AT EQUIPMENT MAKEUP INLET CONNECTIONS.

   b. SOLDER SHALL BE LEAD FREE.

   c. CONNECT NEW COLD WATER PIPING TO WATER SERVICE AS REQUIRED. VERIFY EXACT LOCATION IN FIELD. CONNECT NEW HOT AND COLD WATER PIPING TO ALL EQUIPMENT NOTED.

   d. INSULATE WITH 1/2" THICK OWENS CORNING FIBERGLASS WITH ALL SERVICE JACKET. PROVIDE PIPE SHIELDS AT HANGER LOCATIONS.

   e. PROVIDE FLUSHING AND DISINFECTING AS PRESCRIBED IN LOCAL HEALTH AUTHORITIES' STANDARDS. IN ABSENCE, PROVIDE AS PRESCRIBED IN AWWA C-651.

PROVIDE EXTERNAL PROTECTIVE 0.025 INCH WRAPPING AROUND ALL PIPING PASSING THROUGH OR IN CONCRETE WALLS.

F. SHUTOFF VALVES - DOMESTIC WATER

a. PROVIDE AN ACCESSIBLY LOCATED VALVE IN EACH CONNECTION TO A PIECE OF EQUIPMENT AND AT ALL OTHER POINTS WHERE INDICATED OR REQUIRED FOR A PROPER SYSTEM OPERATION AND MAINTENANCE.

b. BALL VALVES: 600 PSI WOG, FULL PORT, TWO PIECE, BRONZE BODY CHROME PLATED STEEL BALL AND STEM. NIBCO T595Y SERIES, THREADED ENDS; NIBCO OS595Y SERIES, SWEAT ENDS.

G. BACKFLOW PREVENTERS:

a. REDUCED PRESSURE BACKFLOW PREVENTER: ANSI/ASSE 1013.
b. FURNISHED WITH TWO GATE VALVES, STRAINER, AND TEST COCK.
c. PROVIDE WHERE SHOWN ON DRAWINGS AND CONFORM TO LOCAL WATER DEPARTMENT FOR MODEL TYPE AND BUILDING USE.
d. BASIS OF DESIGN: "WATTS" MANUFACTURER.
e. ACCEPTABLE MANUFACTURERS: "FEBCO", "WILKINS" AND "WATTS"

H. PROVIDE EXPANSION LOOPS FOR HOT AND COLD WATER PIPING OVER 100 FT OF STRAIGHT RUN.

I. EQUIPMENT SCHEDULE IS PROVIDED TO INDICATE PERFORMANCE AND QUALITY REQUIREMENTS OF SPECIFIED EQUIPMENT. SUBMITTAL OF SUBSTITUTE PRODUCTS SHALL BE PERMITTED SUBJECT TO APPROVAL.

J. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING, START UP AND BALANCING ON ALL PLUMBING INSTALLED, MODIFIED OR REVISED BY WORK OF THIS CONTRACT. THIS INCLUDES ALL TESTING REQUIRED BY THE AUTHORITY HAVING JURISDICTION, FLUSHING, AND DISINFECTING OF DOMESTIC WATER SYSTEM.

K. ALL EQUIPMENT OR PIPE PENETRATIONS THROUGH WALL SHALL BE SLEEVED AND SEALED.

L. PLUMBING CONTRACTOR SHALL PROVIDE ACCESS PANELS FOR ANY CONCEALED VALVES, CLEANOUTS, OR TRAPS.

M. ALL PIPE SUPPORTS SHALL CONFORM TO LATEST SECTION 308 "PIPING SUPPORT" OF THE INTERNATIONAL PLUMBING CODE. MAXIMUM SPACING FOR HORIZONTAL PIPING SHALL NOT EXCEED SPACING IN PLUMBING CODE. MINIMUM ROD SIZE SHALL BE 3/8". PROVIDE ADDITIONAL SUPPORTS AT CONCENTRATED LOADS (VALVES, ETC.) IN ADDITION, AT CHANGES IN PIPING DIRECTION. PROVIDE A SUPPORT AT EACH JOINT FOR CAST IRON HUB AND NO-HUB PIPING. PROVIDE A RISER CLAMP AT FLOOR IN VERTICAL PIPING. PROVIDE INSULATION SHIELDS ON ALL INSULATED LINES. PROVIDE HIGH STRENGTH CALCIUM SILICATE INSULATION INSERTS WHERE NECESSARY TO PREVENT CRUSHING INSULATION. STRUCTURAL ATTACHMENTS SHALL BE COORDINATED WITH BUILDING CONSTRUCTION, AND SHALL BE SUBMITTED FOR APPROVAL. DROP IN ANCHORS OR WEDGE ANCHORS BY HILTI OR PHILLIPS MAY BE USED IN CONCRETE, IF APPROVED BY THE ENGINEER.

N. DRAINAGE SPECIALTIES (CARRIERS, CLEANOUTS AND FLOOR DRAINS) SHALL BE FROM A SINGLE MANUFACTURER. PRODUCTS OF J. SMITH, JOSAM, WADE, WATTS DRAINAGE, OR ZURN MANUFACTURERS ARE ACCEPTABLE. CONTRACTOR SHALL COORDINATE TOP SHAPE FOR FLOOR DRAINS AND CLEANOUTS WITH FINAL FLOOR FINISHES. IN GENERAL, PROVIDE SQUARE TOPS IN TILE FLOORS, AND ROUND TOPS IN OTHER AREAS.

O. SEE ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURE'S SPECIFICATIONS.

IF INCOMING WATER PRESSURE IS GREATER THAN 80 PSI, PROVIDE A WATTS PRESSURE REDUCING VALVE AT WATER SERVICE ENTRANCE. BUILDING SHALL BE PROVIDED WITH NO GREATER THAN 80 PSI.

GENERAL NOTES:

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NSPC PLUMBING CODE, ALL LOCAL ORDINANCES AND THE AUTHORITY HAVING JURISDICTION.

2. ALL PLUMBING MATERIALS, INSTALLATION PROCEDURES AND SYSTEM LAYOUTS SHALL BE APPROVED BY ALL APPLICABLE CODE ENFORCEMENT AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS FOR THIS INSTALLATION.

3. PLUMBING DRAWINGS ARE SCHEMATIC IN NATURE. DO NOT SCALE FROM THESE DRAWINGS.

4. CHANGES OR SUBSTITUTIONS OF EQUIPMENT WILL NOT BE ALLOWED WITHOUT SPECIFIC WRITTEN APPROVAL FROM THE ENGINEER. ALL COSTS RESULTING FROM THE SELECTION OF EQUIPMENT OTHER THAN SPECIFIED SHALL BE BORNE BY THE CONTRACTOR, INCLUDING, BUT NOT LIMITED TO WORK AFFECTING OTHER CONTRACTORS, THE OWNER, OR REDESIGN ISSUES.

5. ALL CONTRACT WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL REQUIREMENTS OF THE WRITTEN SPECIFICATIONS AND ARE CONSIDERED TO BE AN INTEGRAL PART OF THESE CONTRACT DOCUMENTS.

6. ALL PLUMBING WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE STATE DEPARTMENT OF HEALTH.

7. PROVIDE CLEAN OUTS AT THE BASE OF ALL SANITARY AND STORM STACKS IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL STANDARD PLUMBING CODE

8. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH EXISTING CONDITIONS AND ALL OTHER CONTRACTORS IN ESTABLISHING PIPE RUNS AND SPACE CONDITIONS.

9. THE CONTRACTOR SHALL REVIEW THESE PLANS AND SPECIFICATIONS, AS WELL AS THE RELATED HVAC, ELECTRICAL, 9. STRUCTURAL, ARCHITECTURAL INTERIOR DECOR AND SITE ENGINEERING DRAWINGS TO BECOME FAMILIAR WITH THE FULL PROJECT SCOPE. DURING THE COURSE OF CONSTRUCTION COORDINATION AND ACTUAL CONSTRUCTION, THE CONTRACTOR SHALL COOPERATE WITH ALL OTHER CONTRACTORS AND TRADES ON THIS PROJECT, TO ENSURE A SMOOTH RUNNING AND CAREFULLY COORDINATED INSTALLATION.

10. ANY DISCREPANCIES OR INADEQUACIES WITHIN THESE BID DOCUMENTS OR BETWEEN THESE BID DOCUMENTS AND THE RELATED HVAC, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, INTERIOR DECOR AND SITE ENGINEERING DRAWINGS, OR BETWEEN THESE BID DOCUMENTS AND FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID SUBMISSION.

11. RUN ALL DOMESTIC WATER AND SANITARY WASTE AT LOWEST LEVEL. AND SANITARY VENT AS HIGH AS POSSIBLE THROUGHOUT ENTIRE BUILDING. INSTALL LONG RUNS OF PIPING WITHIN STEEL (JOIST) SPACE AND OTHER PIPING TIGHT TO BOTTOM OF STEEL. COORDINATE AND VERIFY WITH OTHER CONTRACTORS SO AS NOT TO INTERFERE WITH DUCTWORK, LIGHTING SYSTEMS, ETC.

12. ALL PIPING, EXCEPT IN MECHANICAL ROOMS SHALL BE ORGANIZED NEATLY AND KEPT TIGHT TO WALLS AND CEILINGS WITH STANDARD CLEARANCE FOR FUTURE FURRING BY GENERAL CONTRACTOR.

13. ALL EXPOSED HORIZONTAL AND VERTICAL PIPING SHALL BE INSTALLED IN A NEAT ARRANGEMENT IN LOCATIONS WHICH ARE THE MOST INCONSPICUOUS. VERTICAL DROPS SHALL BE KEPT TO AN ABSOLUTE MINIMUM AND THEIR FINAL LOCATIONS SHALL BE COORDINATED AND RUN WITHIN CHASES, WALLS, SOFFITS WITH OTHER MECHANICAL/ELECTRICAL FEEDS. ALL SUCH LOCATIONS ARE TO BE REVIEWED WITH THE ENGINEER PRIOR TO INSTALLATION.

14. ALL PLUMBING FIXTURES/APPLIANCES SHALL HAVE THEIR OWN INDEPENDENT SHUT-OFF VALVES, INSTALLED IN AN EASILY ACCESSIBLE AND OPERABLE POSITION. EACH DOMESTIC WATER BRANCH LINE SHALL HAVE ITS OWN SHUT-OFF VALVE.

15. DOMESTIC HOT WATER HEATER TEMPERATURE/PRESSURE RELIEF VALVES SHALL BE PIPED FULL SIZE TO THE NEAREST APPROVED MOP SINK OR FLOOR DRAIN. THIS REQUIREMENT SHALL BE APPLICABLE TO ALL DOMESTIC WATER HEATERS EXCEPT INSTANTANEOUS WATER HEATERS.

16. FURNISH AND INSTALL PIPE SLEEVES PASSING THROUGH INTERIOR WALLS. SLEEVES SHALL BE STEEL PIPE: ASTM A 53, TYPE E, GRADE A, SCHEDULE 40, GALVANIZED, PLAIN ENDS, LENGTH EQUAL TO WIDTH OF WALL.

17. INSULATE ALL HOT WATER, HOT WATER RECIRCULATION, AND COLD WATER PIPING SYSTEMS. INSULATION SHALL BE INSTALLED AS A COMPLETE SYSTEM INCLUDING VALVES, FITTINGS, ETC.

18. ALL PENETRATIONS IN FOUNDATION WALLS AND FLOORS INCLUDING SLAB PENETRATIONS SHALL BE SEALED BY UTILIZING A NON-CRACKING POLYURETHANE OR SIMILAR CAULK, OR EQUIVALENT IN ORDER TO CLOSE OFF THE SOIL GAS (RADON) ENTRY ROUTES AS REQUIRED BY THE UNIFORM CONSTRUCTION CODE, SECTION 5:23 10.4 (b) 6.

19. HWH INDICATES PLUMBING EQUIPMENT. REFER TO PLUMBING EQUIPMENT SCHEDULES FOR ADDITIONAL INFORMATION.

20. UNLESS OTHERWISE NOTED ON THESE DRAWINGS, ALL MECHANICAL EQUIPMENT SHALL BE MOUNTED ON SEISMIC RESTRAINTS AND VIBRATION ISOLATORS TO PREVENT THE TRANSMISSION OF VIBRATION AND MECHANICALLY TRANSMITTED SOUND TO THE BUILDING STRUCTURE. SEISMIC RESTRAINTS AND VIBRATION ISOLATORS SHALL BE SELECTED IN ACCORDANCE WITH THE SPECIFICATIONS AND BASED ON ACTUAL WEIGHT DISTRIBUTION OF THE EQUIPMENT FURNISHED. DEFLECTIONS SHALL BE AS NOTED ON THE EQUIPMENT SHOP DRAWING SUBMITTALS. THE MANUFACTURER SHALL PROVIDE INSTALLATION INSTRUCTIONS, DRAWINGS, DETAILS, AND FIELD SUPERVISION AS NOTED IN SPECIFICATIONS. ALL VIBRATION ISOLATORS AND SEISMIC RESTRAINTS WILL BE IN STRICT ACCORDANCE WITH THE LATEST EDITIONS OF THE BUILDING CODES AND AUTHORITY HAVING JURISDICTION. THE MANUFACTURER OF THE VIBRATION AND SEISMIC CONTROL EQUIPMENT SHALL DESIGN AND CALCULATE THE VIBRATION ISOLATION AND SEISMIC RESTRAINT TYPES, SIZES, LOCATIONS, DEFLECTIONS, DEAD LOADS, ANCHORING METHODS, BOLT DIAMETERS, EMBEDMENT AND WELD LENGTHS BASED ON ACTUAL EQUIPMENT BEING INSTALLED. THE MANUFACTURER WILL SUBMIT THESE CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL MECHANICAL ENGINEER LICENSED IN THE STATE OF NEW JERSEY, AS PART OF THE VIBRATION ISOLATION AND SEISMIC RESTRAINTS SHOP DRAWINGS. SEISMIC DESIGN ERRORS AND OMISSION INSURANCE CERTIFICATE SHALL BE A PART OF THIS SHOP DRAWING SUBMITTAL.

21. REFER TO HVAC DRAWINGS AND SPECIFICATIONS FOR SIZES OF ALL HVAC EQUIPMENT/DUCTWORK SHOWN ON THESE DRAWINGS.

22. FLOOR DRAINS SHALL BE MOUNTED DIRECTLY ADJACENT TO CONCRETE PADS ON WHICH EQUIPMENT IS SET. COORDINATE EXACT LOCATION WITH OTHER CONTRACTORS INVOLVED PRIOR TO SETTING.

MIXING VALVES:

A TEMPERATURE ACTUATED MIXING VALVE SHALL BE INSTALLED IN CONJUNCTION WITH THE WATER HEATING SOURCE TO DISTRIBUTE TEMPERED WATER TO THE SYSTEM. THE VALVE SHALL BE CERTIFIED TO ASSE 1017, CSA B 125.3, NSF 372 STANDARDS AND SHALL BE LISTED BY A THIRD PARTY. THE TEMPERATURE ACTUATED MIXING VALVE SHALL CONTROL THE DELIVERED WATER TEMPERATURE VIA A REGULATING PISTON MADE FROM ENGINEERED POLYMER. THE ADJUSTING MECHANISM SHALL USE A UNIQUE, PURPOSE DESIGNED ADJUSTER TOOL TO MINIMIZE UNAUTHORIZED TAMPERING WITH VALVE SETTING.

LIST OF ABBREVIATIONS

& @	AND AT
APP'D	APPROVED
ARCH.	ARCHITECTURAL
BLDG.	BUILDING
COORD.	COORDINATE
CO	CLEANOUT
DET.('S)	DETAIL(S)
EA.	EACH
ELEC.	ELECTRICAL
EQ ETC.	EQUAL ETCETERA
EXIST.	EXISTING
FL.	FLOOR
IN.,"	INCH
MANUF.	MANUFACTURER
MAX.	MAXIMUM
MECH.	MECHANICAL
MIN.	MINIMUM
N.T.S.	NOT TO SCALE
SAN.	SANITARY
SCHED.	SCHEDULE
SQ. FT.	SQUARE FEET
SQ. IN.	SQUARE INCHES
TYP.	TYPICAL
V.I.F.	VERIFY IN FIELD
W/	WITH

APPLICABLE CODES

NEW JERSEY BUILDING CODES:

INTERNATIONAL MECHANICAL CODE 2021

NATIONAL STANDARD PLUMBING CODE 2021

INTERNATIONAL FUEL GAS CODE 2021

PLUMBING GENERAL NOTES

1.DESIGN DRAWINGS ARE SCHEMATIC. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.

2.THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

3.BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE		MODEL #	DESCRIPTION	REMARKS
LAV	LAVATORY	MANUF: MODEL #: STYLE: COLOR:	AMERICAN STANDARD LUCERN WALL-HUNG LAVATORY VITEOUS WHITE	VITEOUS CHINA W/ WALL HANGER	
	LAVATORY FOUCET	MANUF: MODEL #: STYLE:	AMERICAN STANDARD 5500-170-002CQ5 MONTEREY	TWO-HANDEL CENTERSET LAVATORY FOUCET	
WC	TOILET	MANUF: MODEL #: STYLE: COLOR:	AMERICAN STANDARD 2462.016 CADET PRO RIGHT HEIGHT 29-1/4"H PRESSURE ASSISTED TOILET WHITE (SEAT TO MATCH)	VITEOUS CHINA 1.6 GPF	
	TOILET DRAIN FLANGE			PVC OR ABS WITH PLASTIC RING. FITS OUTSIDE 3" OR INSIDE 4" SCHEDULE 40 DWV PIPE.	
SS	MOP SINK	MANUF: MODEL #:	MUSTEE 17F	FLOOR MOUNTED. CONNECTS TO STANDARD 1 1/2"P OR S TRAP. 19 GALLON CAPACITY. 13" DEEP TUB.	
	SERVICE SINK FAUCET FAUCET BLOCK HANDIFLO FITTING	MANUF: MODEL #:	MUSTEE 93.600 CHROME FINISH MUSTEE 20.600 MUSTEE 94.700		
WF	WATER FOUNTAIN	MANUF: MODEL #: MOUNTING: COLOR:	ELKAY EZSTL8LC WALL LIGHT GRAY GRANITE	8.0 GPH WATER COOLER, ADA, PUSHBALL CONTROLS ON FRONT AND SIDES, NON-FILTERED	
KITCHEN SINK	KITCHEN SINK WITH HOT & COLD WATER FAUCET	MANUF: MODEL #:	ELKAY, LUSTERTONE DROP-IN TRIPLE BASIN 18 GAUGE STAINLESS STEEL		
WHA	WATER HAMMER ARRESTOR	MANUF: MODEL #:	SIOUX CHEIF 750 SERIES	750 SERIES OR EQUAL BY PRECISION PLUMBING PRODUCTS, INC.	
TP	TRAP PRIMER	MANUF: MODEL #:	PRECISION PLUMBING PRODUCTS, INC. P2-500	ADJUSTABLE FLOW RATE, INTEGRAL VACCUUM BREAKER AND INTEGRAL BACKFLOW PREVENTER.	MOUNT IN AN ACCESSIBLE LOCATION PER MANUF PRINTED INSTRUCTIONS.
MV	MIXING VALVE	MANUF: MODEL #:	WATTS MMV	1/2" PIPE SIZE	SHALL CONFORM W/ ASSE 1017, ASSE 1069 & ASSE 1070.

LEGEND

SANITARY PIPE	
VENT PIPE	
DOMESTIC COLD WATER PIPE	
DOMESTIC HOT WATER PIPING	
WATER HAMMER ARRESTER	
WATER PROOF SLEEVE	
SLEEVE	
UNION	
CHECK VALVE	

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A PRODUCT OF

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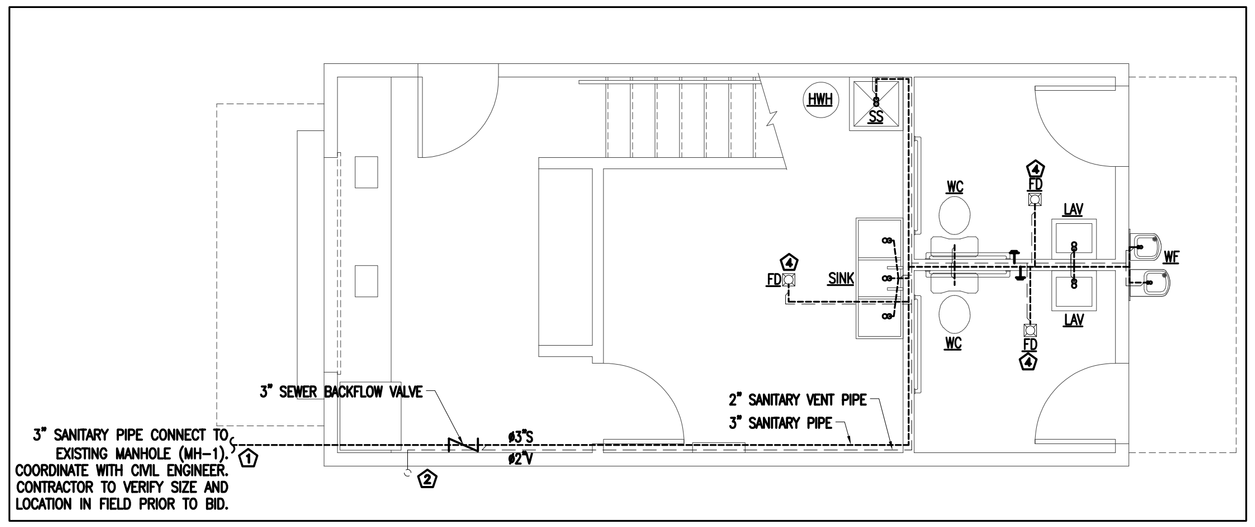
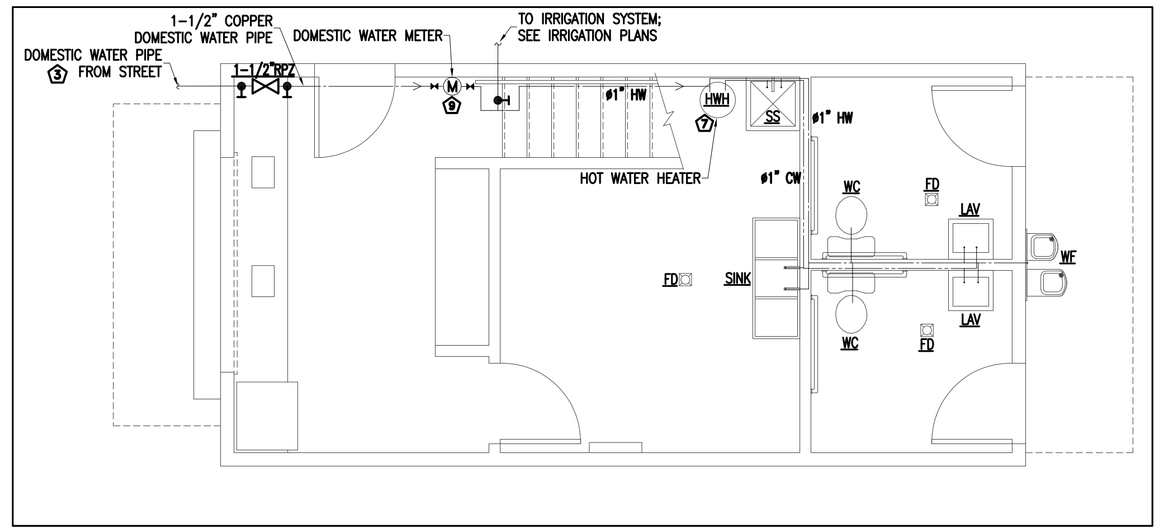
PLUMBING SPECIFICATIONS, NOTES, ABBREVIATION, DETAILS & APPLICABLE CODES

DRAWN BY:	MP	SCALE:	AS SHOWN
DESIGNED BY:	MP	CHECKED BY:	JFG
PROJECT NO.: 20241203			P001
DATE: JANUARY 2025			

CERTIFICATE OF AUTHORIZATION (N.J.S.A. 45:8-56) 24GA27927000



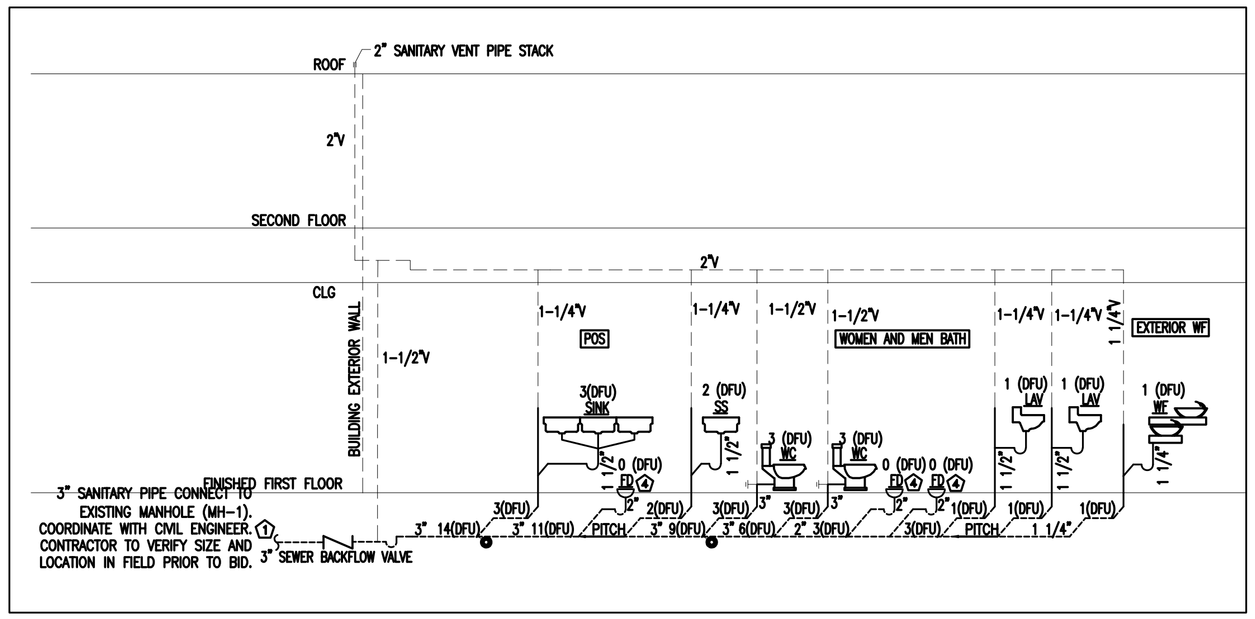
1 SANITARY PLUMBING PLAN - FIRST FLOOR
SCALE: 1/4" = 1'-0"



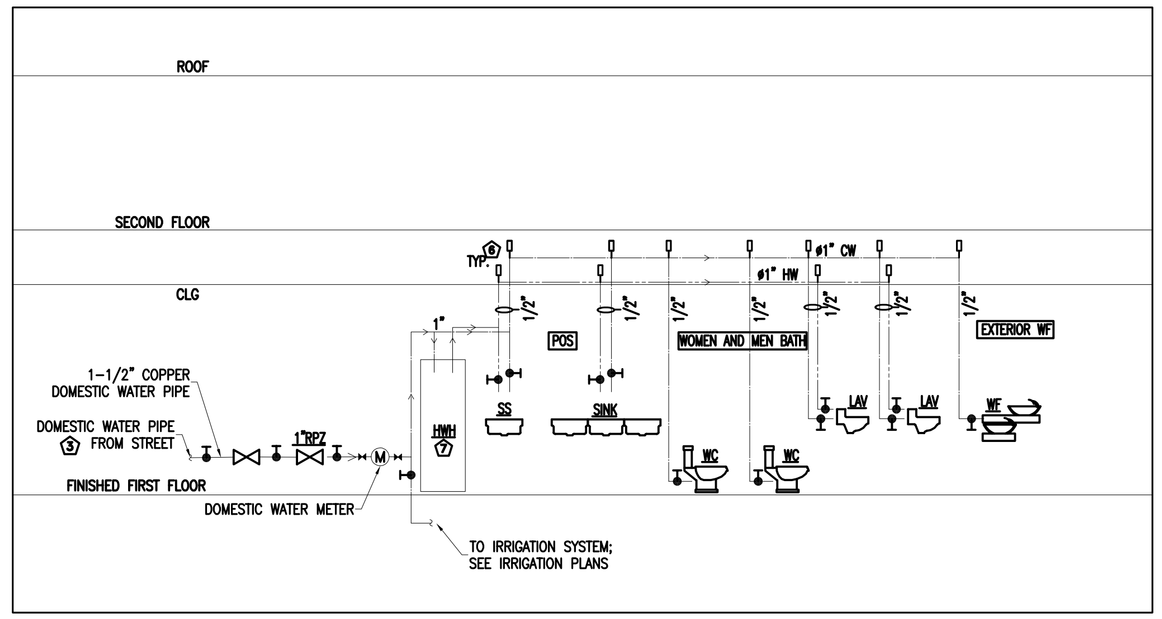
2 DOMESTIC WATER PLUMBING PLAN - FIRST FLOOR
SCALE: 1/4" = 1'-0"

PLUMBING KEY NOTES:

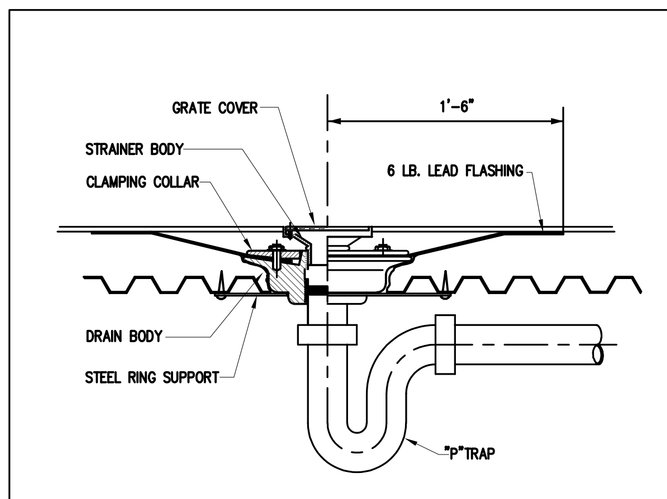
1. CONNECT NEW 3" SANITARY LINES AS SHOWN ON PLANS/RISER TO CITY SANITARY LINE FOR SPACE. FIELD VERIFY EXACT LOCATION, SIZE, INVERT, DIRECTION OF FLOW, AND CONNECTION POINT OF SANITARY MAIN PRIOR TO BID. REFER TO RISER DIAGRAM AND PLUMBING SPECIFICATIONS FOR FURTHER INFORMATION.
2. PROVIDE VENT LINE FROM PLUMBING FIXTURES AS SHOWN ON PLANS/RISER. FIELD VERIFY EXACT SIZE, LOCATION, AND CONNECTION POINT OF VENT LINE PRIOR TO BID/INSTALLATION. NOTIFY ENGINEER/OWNER OF ANY DISCREPANCIES. REFER TO RISER DIAGRAM AND PLUMBING SPECIFICATIONS FOR FURTHER INFORMATION.
3. CONNECT NEW 1-1/2" COPPER WATER PIPE TO EXISTING WATER MAIN IN STREET AS SHOWN ON PLANS/RISER. FIELD VERIFY EXACT SIZE, LOCATION, AND CONNECTION POINT IN FIELD PRIOR TO BIDDING. REFER TO RISER DIAGRAM AND PLUMBING SPECIFICATIONS FOR FURTHER INFORMATION.
4. PROVIDE NEW FLOOR DRAINS AND ACCESSORIES FOR A COMPLETE AND OPERABLE PLUMBING SYSTEM. FIELD VERIFY EXACT LOCATION, SIZE, AND CONNECTION POINT OF SANITARY MAIN PRIOR TO BID.
5. CONTRACTOR SHALL PROVIDE NEW TRAP PRIMER AS REQUIRED.
6. FURNISH AND INSTALL NEW WATER HAMMER ARRESTORS IN THE COLD AND HOT WATER PIPING AS SHOWN ON THE WATER RISER DIAGRAM. WATER HAMMER ARRESTORS TO BE LOCATED IN AN ACCESSIBLE LOCATION. UNITS AS MANUFACTURED BY SIOUX OR PRECISION PLUMBING PRODUCTS ARE ACCEPTABLE.
7. FURNISH AND INSTALL NEW ELECTRIC HOT WATER HEATER AS SHOWN ON PLANS PER SCHEDULE. PROVIDE ALL ACCESSORIES FOR A COMPLETE AND OPERABLE SYSTEM.
8. CONTRACTOR SHALL PROVIDE WALL CLEANOUT. FIELD VERIFY EXACT SIZE, LOCATION, AND CONNECTION POINT PRIOR TO BID. NOTIFY ENGINEER OF ANY DISCREPANCIES.
9. PROVIDE/INSTALL WATER METER PER CODE AS SHOWN ON PLANS.



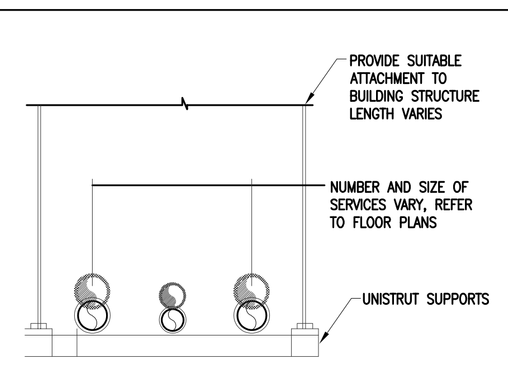
3 SANITARY AND VENT RISER DIAGRAM
NTS



4 DOMESTIC WATER RISER DIAGRAM
NTS

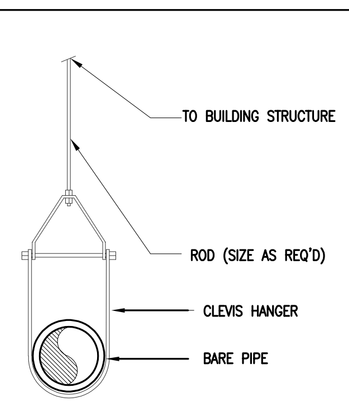


1 TYPICAL FLOOR DRAIN DETAIL
NOT TO SCALE



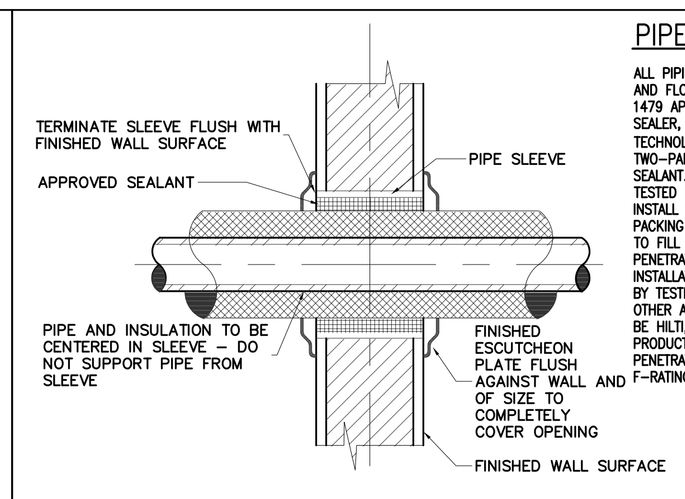
NOTE:
PROVIDE APPROVED YELLOW FOAM RUBBER PROTECTION PADDING ON HANGER ROD END AND UNISTRUCT IN ALL INSTANCES WHERE BOTTOM OF HANGER ROD IS BELOW 7'-0".

2 TYPICAL CHANNEL TRAPEZE HANGER
NOT TO SCALE



NOTE:
CLEVIS HANGERS REQUIRED ON PIPING LARGER THAN 1", GENERAL PURPOSE HANGERS MAY BE USED ON 1" PIPING ONLY.

3 TYPICAL HANGER DETAIL
NOT TO SCALE

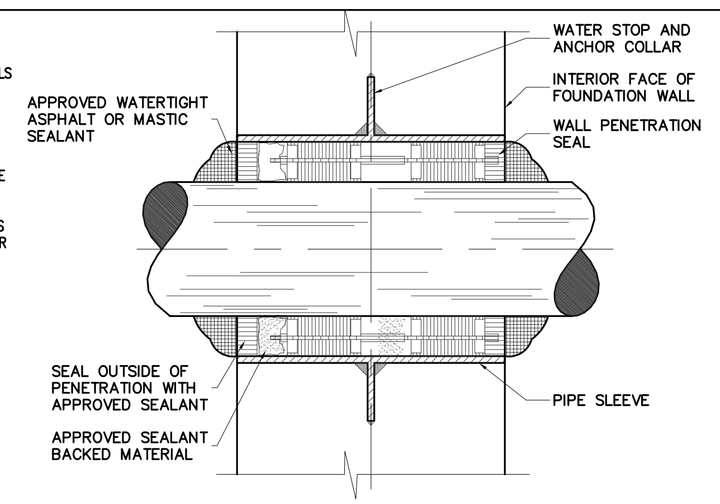


PIPE SLEEVE NOTES

ALL PIPING SYSTEM PENETRATIONS OF WALLS AND FLOORS SHALL BE SEALED WITH U.L. 1479 APPROVED FIRE RESISTANT JOINT SEALER, SIMILAR TO SPECIFIED TECHNOLOGIES "PENSIL 200" OR EQUAL, TWO-PART FOAMED-IN-PLACE SILICONE SEALANT. FIRE RESISTANT SEALER SHALL BE TESTED IN ACCORDANCE WITH ASTME 814. INSTALL SEALANT, INCLUDING FORMING, PACKING AND OTHER ACCESSORY MATERIALS TO FILL OPENINGS WHERE WALL AND FLOOR PENETRATIONS OCCUR. COMPLY WITH INSTALLATION REQUIREMENTS ESTABLISHED BY TESTERS AND INSPECTION AGENCY. OTHER APPROVED MANUFACTURERS SHALL BE HILTI, INC. AND 3M, FIRE PROTECTION PRODUCT DIVISION. PIPING SYSTEM PENETRATION SHALL HAVE A 2-HOUR F-RATING AND A 1-HOUR T-RATING.

NOTE:
ALL SEALANT SHALL BE U.L. APPROVED AND MEET "F" AND/OR "T" RATING AS PER IBC. REFER TO PIPE SLEEVE NOTES.

4 PIPE SLEEVE THRU INTERIOR WALL
NOT TO SCALE



NOTE:
ALL SEALANT SHALL BE U.L. APPROVED AND MEET "F" AND/OR "T" RATING AS PER IBC. REFER TO PIPE SLEEVE NOTES.

5 PIPE SLEEVE THRU EXTERIOR WALL
NOT TO SCALE

5 PLUMBING DETAILS
NTS

ELECTRIC HOT WATER HEATER SCHEDULE

MARK	MANUFACTURER	MODEL NO.	LOCATION	CAPACITY	DIMENSIONS (HxD) (IN)	WATER CONNECTION SIZE (IN AND OUT)	ELECTRIC RATING	VOLTAGE (V/PH)	WEIGHT (LB)	REMARKS
HWH	A.O. SMITH	SIGNATURE 100 EEU6-50H450V	FIRST FLOOR	50 GAL / 6KW	59" x 20.5"	3/4	21.6A FLA	240VAC/1-PHASE	98	1

REMARKS:
1. INSTALL PER MANUFACTURER INSTALLATION MANUAL.

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SANITARY & DOMESTIC WATER PLUMBING PLANS, RISER DIAGRAMS, KEY NOTES, PLUMBING DETAILS & SCHEDULE

DRAWN BY:	MP	SCALE:	AS SHOWN
DESIGNED BY:	MP	CHECKED BY:	JFG
PROJECT NO.:	20241203		
DATE:	JANUARY 2025		P100

GENERAL STRUCTURAL AND CONSTRUCTION NOTES

GENERAL

1. ALL WORK SHALL CONFORM TO THE "2021 INTERNATIONAL BUILDING CODE NJ EDITION" AND TO ALL OTHER APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.
2. IN CASE OF CONFLICT BETWEEN THE GENERAL NOTES AND DETAILS, THE MOST RIGID REQUIREMENTS SHALL GOVERN.
3. WORK NOT INDICATED ON A PART OF THE DRAWINGS BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE REPEATED.
4. JOB SITE SAFETY AND CONSTRUCTION PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
5. THE CONTRACTOR SHALL PROVIDE FOR DEWATERING AS REQUIRED DURING EXCAVATION AND CONSTRUCTION. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION
6. ALL COSTS OF INVESTIGATION AND/OR REDESIGN DUE TO CONTRACTOR IMPROPER INSTALLATION OF STRUCTURAL ELEMENTS OR OTHER ITEMS NOT IN CONFORMANCE WITH THE CONTRACT DOCUMENTS SHALL BE AT THE CONTRACTOR'S EXPENSE.
7. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE SITE CIVIL DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN DRAWINGS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER PRIOR TO PERFORMING THE WORK.
8. THE CONTRACTOR SHALL VERIFY ALL EXISTING BUILDING INFORMATION SHOWN (DIMENSIONS, ELEVATIONS, ETC.) AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO FABRICATION OF ANY STRUCTURAL COMPONENT.
9. THE CONTRACTOR SHALL VERIFY AND/OR ESTABLISH ALL EXISTING CONDITIONS AND DIMENSIONS AT THE SITE. FAILURE TO NOTIFY ENGINEER OF UNSATISFACTORY CONDITIONS CONSTITUTES ACCEPTANCE OF UNSATISFACTORY CONDITIONS.
10. IF THE EXISTING FIELD CONDITIONS DO NOT PERMIT THE INSTALLATION OF THE WORK IN ACCORDANCE WITH THE DETAILS SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY AND PROVIDE A SKETCH OF THE CONDITION WITH HIS PROPOSED MODIFICATION OF THE DETAILS GIVEN ON THE CONTRACT DOCUMENTS. DO NOT COMMENCE WORK UNTIL CONDITION IS RESOLVED AND MODIFICATION IS APPROVED BY THE ENGINEER.
11. THE CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE DESIGN AND CONSTRUCTION OF FALSEWORK, FORMWORK, STAGINGS, BRACING, SHEETING, AND SHORING, ETC.
12. CONTRACTOR TO PROVIDE SHEETING, BRACING, AND UNDERPINNING AS NECESSARY TO PREVENT ANY LATERAL OR VERTICAL MOVEMENTS OF EXISTING STAIRS, RETAINING WALLS, STREETS, AND ANY EXISTING UTILITY LINES.
13. SHOP DRAWINGS FOR ALL STRUCTURAL MATERIALS TO BE SUBMITTED TO ENGINEER FOR REVIEW PRIOR TO THE START OF FABRICATION OR COMMENCEMENT OF WORK. REVIEW PERIOD SHALL BE A MINIMUM OF TWO (2) WEEKS.

EARTHWORK

1. EXCAVATION SHALL BE PERFORMED SO AS NOT TO DISTURB EXISTING ADJACENT BUILDINGS, SIDEWALKS, STREETS, AND UTILITY LINES, UNLESS WHERE PAVEMENT AND SIDEWALKS ARE NOTED FOR REPLACEMENT ON SITE PLANS. VERIFY LOCATION OF ALL UTILITIES AND EXISTING ADJACENT FOUNDATION ELEVATIONS PRIOR TO COMMENCEMENT OF WORK. HAND EXCAVATE AROUND UTILITIES AS REQUIRED.
2. DO NOT EXCAVATE BELOW THE INFLUENCE LINE DRAWN FROM THE BOTTOM OF EXISTING ADJACENT FOUNDATIONS ELEVATIONS AT A SLOPE OF 2H:1V.
3. THE OWNER SHALL RETAIN THE SERVICES OF A PROFESSIONAL GEOTECHNICAL ENGINEER, SUBJECT TO THE APPROVAL OF THE ENGINEER, TO PERFORM SOIL TESTING AND INSPECTION.
4. THE RETAINING WALL DESIGNS HAVE BEEN PREPARED BASED ON RECOMMENDATIONS, CRITERIA AND BORING INFORMATION INCLUDED IN A GEOTECHNICAL ENGINEERING REPORT PREPARED BY GZA GEOENVIRONMENTAL INC. DATED OCTOBER 27, 2023. CONTRACTOR SHALL REVIEW THE GEOTECHNICAL REPORT INFORMATION PRIOR TO BID.
5. THE CONTRACTOR SHALL OBSERVE WATER CONDITIONS AT THE SITE AND TAKE THE NECESSARY PRECAUTIONS TO ENSURE THAT THE FOUNDATION EXCAVATIONS REMAIN DRY DURING CONSTRUCTION. ANY DEWATERING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

SHEETING AND SHORING

1. SHEETING, SHORING, AND ASSOCIATED EXCAVATION SHALL BE PERFORMED IN ACCORDANCE WITH OSHA GUIDELINES.
2. TEMPORARY BRACING, SHEETING, SHORING, ETC., REQUIRED FOR WALL EXCAVATION AND WALL INSTALLATION, SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER ENGAGED BY THE CONTRACTOR. DETAILED SIGNED AND SEALED SHOP DRAWINGS SHALL BE PREPARED INDICATING ALL WORK TO BE PERFORMED. SUBMIT THE SHOP DRAWINGS IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS.

FOUNDATIONS

1. FOUNDATIONS HAVE BEEN DESIGNED AND FOOTING ELEVATIONS ESTABLISHED ON THE BASIS OF A SUBSURFACE INVESTIGATION REPORT AND RECOMMENDATIONS PREPARED BY GZA GEOENVIRONMENTAL INC. DATED DECEMBER 12, 2024. SEE THE REPORT FOR ADDITIONAL REQUIREMENTS. THE REQUIREMENTS CONTAINED IN THE GEOTECHNICAL REPORT ARE PART OF THE CONSTRUCTION DOCUMENTS.
2. RETAINING WALL AND BUILDING FOOTINGS SHALL BEAR ON VIRGIN SOIL OR CONTROLLED COMPACTED FILL PER THE REQUIREMENTS OF THE GEOTECHNICAL REPORT WITH A MINIMUM BEARING CAPACITY OF 4,000 PSF.
3. PRIOR TO FOOTING CONCRETE PLACEMENT, THE FOOTING SUBGRADE SHALL BE APPROVED BY THE INSPECTING GEOTECHNICAL ENGINEER. IF CONDITIONS PROVE TO BE UNACCEPTABLE AT ELEVATIONS SHOWN, FOOTING BOTTOMS SHALL BE LOWERED TO ACCEPTABLE SUBGRADE MATERIAL. FILL OVER-EXCAVATION WITH LEAN CONCRETE (2,500 PSI)
4. THE BOTTOM OF EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 3'-0"(3) FEET BELOW FINISHED GRADE, OR AS REQUIRED BY LOCAL BUILDING CODES.
5. 5. THE BEARING ELEVATIONS OF NEW FOOTINGS ADJACENT TO EXISTING FOOTINGS ARE TO MATCH THE ADJACENT EXISTING FOOTING BEARING ELEVATIONS UNLESS INDICATED OTHERWISE ON PLANS.
6. SLABS ON GRADE SHALL BEAR ON MECHANICALLY COMPACTED SOIL CAPABLE OF SUPPORTING 500 PSF. DRAINAGE FILL UNDER SLABS SHALL BE COMPACTED GRAVEL OR CRUSHED STONE.
7. CONCRETE FOR FOUNDATIONS SHALL BE POURED ON THE SAME DAY THE SUBGRADE IS APPROVED BY THE GEOTECHNICAL ENGINEER.
8. UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT THE STRUCTURAL ENGINEER'S APPROVAL.
9. THE CONTRACTOR SHALL OBSERVE WATER CONDITIONS AT THE SITE AND TAKE THE NECESSARY PRECAUTIONS TO ENSURE THAT THE FOUNDATION EXCAVATIONS REMAIN DRY DURING CONSTRUCTION. ANY SHEETING OR SHORING REQUIRED FOR DEWATERING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

CAST-IN-PLACE CONCRETE

1. CONCRETE SHALL BE DESIGNED AND DETAILED IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI-318-18), AND CONSTRUCTED IN ACCORDANCE WITH THE CRSI MANUAL OF STANDARD PRACTICE.
2. LEAN CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE 28-DAY STRENGTH OF 1,500 PSI. AIR ENTRAINMENT 4.5% TO 7.5% IN ALL EXPOSED CONCRETE WORK.
3. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE (144 PCF +) WITH ALL CEMENT CONFORMING TO ASTM C150, TYPE I. MAXIMUM AGGREGATE SIZE SHALL BE 1-½" FOR FOOTINGS AND ¾" FOR WALLS AND SLABS, CONFORMING TO ASTM C33.
4. REINFORCING STEEL: ASTM A615 GRADE 60
5. LEVELING GROUT SHALL BE NON-SHRINK, NON-METALLIC TYPE, FACTORY PRE-MIXED GROUT IN ACCORDANCE WITH CE-CRD-C621 OR ASTM C109, WITH A MINIMUM COMPRESSIVE 28-DAY STRENGTH OF 5,000 PSI.
6. THE CONCRETE SLABS SHALL BE FINISHED FLAT AND LEVEL WITHIN TOLERANCE, TO THE ELEVATION INDICATED ON THE DRAWINGS.
7. EARLY DRYING OUT OF CONCRETE, ESPECIALLY DURING THE FIRST 24 HOURS, SHALL BE CAREFULLY GUARDED AGAINST. ALL SURFACES SHALL BE MOIST CURED OR PROTECTED USING A MEMBRANE CURING AGENT APPLIED AS SOON AS FORMS ARE REMOVED. IF MEMBRANE CURING AGENT IS USED, EXERCISE CARE NOT TO DAMAGE COATING.
8. COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI-306. HOT WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI-305R.
9. THROUGHOUT CONSTRUCTION, THE CONCRETE WORK SHALL BE ADEQUATELY PROTECTED AGAINST DAMAGE DUE TO EXCESSIVE LOADING, CONSTRUCTION EQUIPMENT, MATERIALS OR METHODS, ICE, RAIN, SNOW, EXCESSIVE HEAT, AND FREEZING TEMPERATURES.
10. PREPARE CONCRETE TEST CYLINDERS FROM EACH DAY'S POUR. CYLINDERS SHALL BE PROPERLY CURED AND STORED. SAMPLE FRESH CONCRETE IN ACCORDANCE WITH ASTM C172.
11. RETAIN LABORATORY TO PROVIDE TESTING SERVICE. SLUMP PER ASTM C143L AIR CONTENT PER ASTM C231 OR C173, CYLINDER TESTS PER ASTM C31 AND C39. ONE SET OF SIX (6) CYLINDERS FOR EACH 50 CUBIC YARDS FOR EACH MIX USED. REPORTS OF ALL TESTS TO BE SUBMITTED TO THE ARCHITECT.

SEGMENTAL BLOCK RETAINING WALLS

PART 1: GENERAL

1.1 SCOPE

WORK INCLUDES FURNISHING AND INSTALLING CONCRETE RETAINING WALL UNITS TO THE LINES AND GRADES DESIGNATED ON THE CONSTRUCTION DRAWINGS AND AS SPECIFIED HEREIN.

1.2 REFERENCE STANDARDS

ASTM C94 READY-MIXED CONCRETE

ASTM C1372 SEGMENTAL RETAINING WALL UNITS

1.3 DELIVERY, STORAGE, AND HANDLING

A. CONTRACTOR SHALL CHECK THE MATERIALS UPON DELIVERY TO ASSURE PROPER MATERIAL HAS BEEN RECEIVED.

B. CONTRACTOR SHALL PREVENT EXCESSIVE MUD, WET CEMENT AND LIKE MATERIALS FROM COMING IN CONTACT WITH THE SRW UNITS.

C. CONTRACTOR SHALL PROTECT THE MATERIALS FROM DAMAGE. DAMAGED MATERIAL SHALL NOT BE INCORPORATED IN THE PROJECT.

PART 2: MATERIALS

2.1 WALL UNITS

A. WALL UNITS SHALL BE REDI-ROCK® AS PRODUCED BY A LICENSED MANUFACTURER OR AN APPROVED EQUAL LARGE BLOCK SEGMENTAL WALL SYSTEM. THE CONSTRUCTION DOCUMENTS ARE BASED ON A REDI-ROCK WALL SYSTEM. IF AN ALTERNATE SYSTEM IS SUBMITTED THE CONTRACTOR SHALL SUBMIT SIGNED AND SEALED SHOP DRAWINGS AND DESIGN CALCULATIONS INCLUDING INTERNAL WALL STABILITY AS WELL AS GLOBAL SLOPE STABILITY DESIGN AND CHECKS.

B. WALL UNITS SHALL BE MADE WITH READY-MIXED CONCRETE IN ACCORDANCE WITH ASTM C94, 4,000 PSI 28TH DAY COMPRESSIVE STRENGTH AND 4½% TO 7½% AIR ENTRAINMENT NOTWITHSTANDING ANYTHING STATED ABOVE, ALL MATERIAL USED IN THE WALL UNITS MUST MEET APPLICABLE ASTM AND LOCAL REQUIREMENTS FOR EXTERIOR CONCRETE.

C. EXTERIOR BLOCK DIMENSIONS SHALL BE UNIFORM AND CONSISTENT. MAXIMUM DIMENSIONAL DEVIATIONS SHALL BE 1% EXCLUDING THE ARCHITECTURAL SURFACE. MAXIMUM WIDTH (FACE TO BACK) DEVIATION INCLUDING THE ARCHITECTURAL SURFACE SHALL BE 1.0 INCH.

D. EXPOSED FACE SHALL BE FINISHED AS SELECTED BY OWNER. SUBMIT SAMPLES OF MANUFACTURER'S COMPLETE LINE OF AVAILABLE FINISHES FOR OWNER'S SELECTION. OTHER SURFACES TO BE SMOOTH FORM TYPE. DIME-SIZE BUG HOLES ON THE BLOCK FACE MAY BE PATCHED AND/OR SHAKE-ON COLOR STAIN CAN BE USED TO BLEND INTO THE REMAINDER OF THE BLOCK FACE.

2.2 LEVELING PAD AND FREE DRAINING BACKFILL

A. LEVELING PAD SHALL BE AS NOTED IN THE TYPICAL DETAILS.

0. B. FREE DRAINING BACKFILL MATERIAL SHALL BE WASHED STONE AND SHALL BE PLACED TO A MINIMUM OF 1' WIDTH BEHIND THE BACK OF THE WALL AND SHALL EXTEND VERTICALLY FROM THE LEVELING PAD TO AN ELEVATION 4"BELOW THE TOP OF WALL.

C. NON-WOVEN GEOTEXTILE CLOTH SHALL BE PLACED BETWEEN THE FREE DRAINING BACKFILL AND RETAINED SOIL. E. WHERE ADDITIONAL FILL IS NEEDED, CONTRACTOR SHALL SUBMIT SAMPLE AND SPECIFICATIONS TO THE GEOTECHNICAL ENGINEER FOR APPROVAL.

2.3 DRAINAGE

A. INTERNAL AND EXTERNAL DRAINAGE SHALL BE PROVIDED AS NOTED ON THE PLANS.

2.4 BACKFILL

A. BACKFILL BEHIND CRUSHED STONE SHALL BE COMPACTED GRANULAR FILL WITH A MINIMUM FRICTION ANGLE OF 32 DEGREES.

PART 3: CONSTRUCTION OF WALL SYSTEM

3.1 EXCAVATION

A. CONTRACTOR SHALL EXCAVATE TO THE LINES AND GRADES SHOWN ON THE CONSTRUCTION DRAWINGS. ALL EXCAVATION SHALL BE PERFORMED IN ACCORDANCE WITH OSHA STANDARDS. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING DESIGN AND CONSTRUCTION OF TEMPORARY SHORING AS NEEDED TO MAINTAIN SLOPE STABILITY BEHIND WALL AND A SAFE EXCAVATION.

3.2 FOUNDATION SOIL PREPARATION

A. NATIVE FOUNDATION SOIL SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR OR 90% OF MODIFIED PROCTOR PRIOR TO PLACEMENT OF THE LEVELING PAD MATERIAL.

B. IN-SITU FOUNDATION SOIL SHALL BE EXAMINED BY THE ENGINEER TO ENSURE THAT THE ACTUAL FOUNDATION SOIL STRENGTH MEETS OR EXCEEDS ASSUMED DESIGN STRENGTH. SOIL NOT MEETING THE REQUIRED STRENGTH SHALL BE REMOVED AND REPLACED WITH ACCEPTABLE, COMPACTED MATERIAL.

3.3 LEVELING PAD PLACEMENT

A. LEVELING PAD SHALL BE PLACED AS SHOWN ON THE CONSTRUCTION DRAWINGS.

B. LEVELING PAD SHALL BE PLACED ON UNDISTURBED NATIVE SOILS OR SUITABLE REPLACEMENTS FILLS.

C. LEVELING PAD SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR OR 90% OF MODIFIED PROCTOR TO ENSURE A LEVEL, HARD SURFACE ON WHICH TO PLACE THE FIRST COURSE BLOCKS. PAD SHALL BE CONSTRUCTED TO THE PROPER ELEVATION TO ENSURE THE FINAL ELEVATION SHOWN ON THE PLANS.

D. LEVELING PAD SHALL HAVE A 6 INCH MINIMUM DEPTH FOR WALLS UNDER 8 FEET IN HEIGHT AND A 12 INCH MINIMUM DEPTH FOR WALLS OVER 8 FEET. PAD DIMENSIONS SHALL EXTEND BEYOND THE BLOCKS IN ALL DIRECTIONS TO A DISTANCE AT LEAST EQUAL TO THE DEPTH OF THE PAD OR AS DESIGNED BY ENGINEER.

E. FOR STEPS AND PAVERS, A MINIMUM OF 1" – 1½" OF FREE DRAINING SAND SHALL BE SCREEDED SMOOTH TO ACT AS A PLACEMENT BED FOR THE STEPS OR PAVERS.

3.4 UNIT INSTALLATION

A. THE FIRST COURSE OF WALL UNITS SHALL BE PLACED ON THE PREPARED LEVELING PAD WITH THE AESTHETIC SURFACE FACING OUT AND THE FRONT EDGES TIGHT TOGETHER. ALL UNITS SHALL BE CHECKED FOR LEVEL AND ALIGNMENT AS THEY ARE PLACED.

B. ENSURE THAT UNITS ARE IN FULL CONTACT WITH LEVELING PAD. PROPER CARE SHALL BE TAKEN TO DEVELOP STRAIGHT LINES AND SMOOTH CURVES ON BASE COURSE AS PER WALL LAYOUT.

C. THE BACKFILL IN FRONT AND BACK OF ENTIRE BASE ROW SHALL BE PLACED AND COMPACTED TO FIRMLY LOCK THEM IN PLACE. CHECK ALL UNITS AGAIN FOR LEVEL AND ALIGNMENT. ALL EXCESS MATERIAL SHALL BE SWEPT FROM TOP OF UNITS.

D. INSTALL NEXT COURSE OF WALL UNITS ON TOP OF BASE ROW. POSITION BLOCKS TO BE OFFSET FROM SEAMS OF BLOCKS BELOW. BLOCKS SHALL BE PLACED FULLY FORWARD SO KNOB AND GROOVE ARE ENGAGED. CHECK EACH BLOCK FOR PROPER ALIGNMENT AND LEVEL. BACKFILL TO 12 INCH WIDTH BEHIND BLOCK WITH FREE DRAINING BACKFILL. SPREAD BACKFILL IN UNIFORM LIFTS NOT EXCEEDING 9 INCHES. EMPLOY METHODS USING LIGHTWEIGHT COMPACTION EQUIPMENT THAT WILL NOT DISRUPT THE STABILITY OR BATTER OF THE WALL. HAND-OPERATED PLATE COMPACTION EQUIPMENT SHALL BE USED AROUND THE BLOCK AND WITHIN 3 FEET OF THE WALL TO ACHIEVE CONSOLIDATION. COMPACT BACKFILL TO 95% OF STANDARD PROCTOR (ASTM D 698, AASHTO T-99) DENSITY WITHIN 2% OF ITS OPTIMUM MOISTURE CONTENT.

E. INSTALL EACH SUBSEQUENT COURSE IN LIKE MANNER. REPEAT PROCEDURE TO THE EXTENT OF WALL HEIGHT.

F. ALLOWABLE CONSTRUCTION TOLERANCE AT THE WALL FACE IS 2 DEGREES VERTICALLY AND 1 INCH IN 10 FEET HORIZONTALLY.

G. ALL WALLS SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL BUILDING CODES AND REQUIREMENTS.

PART 4: AVAILABILITY

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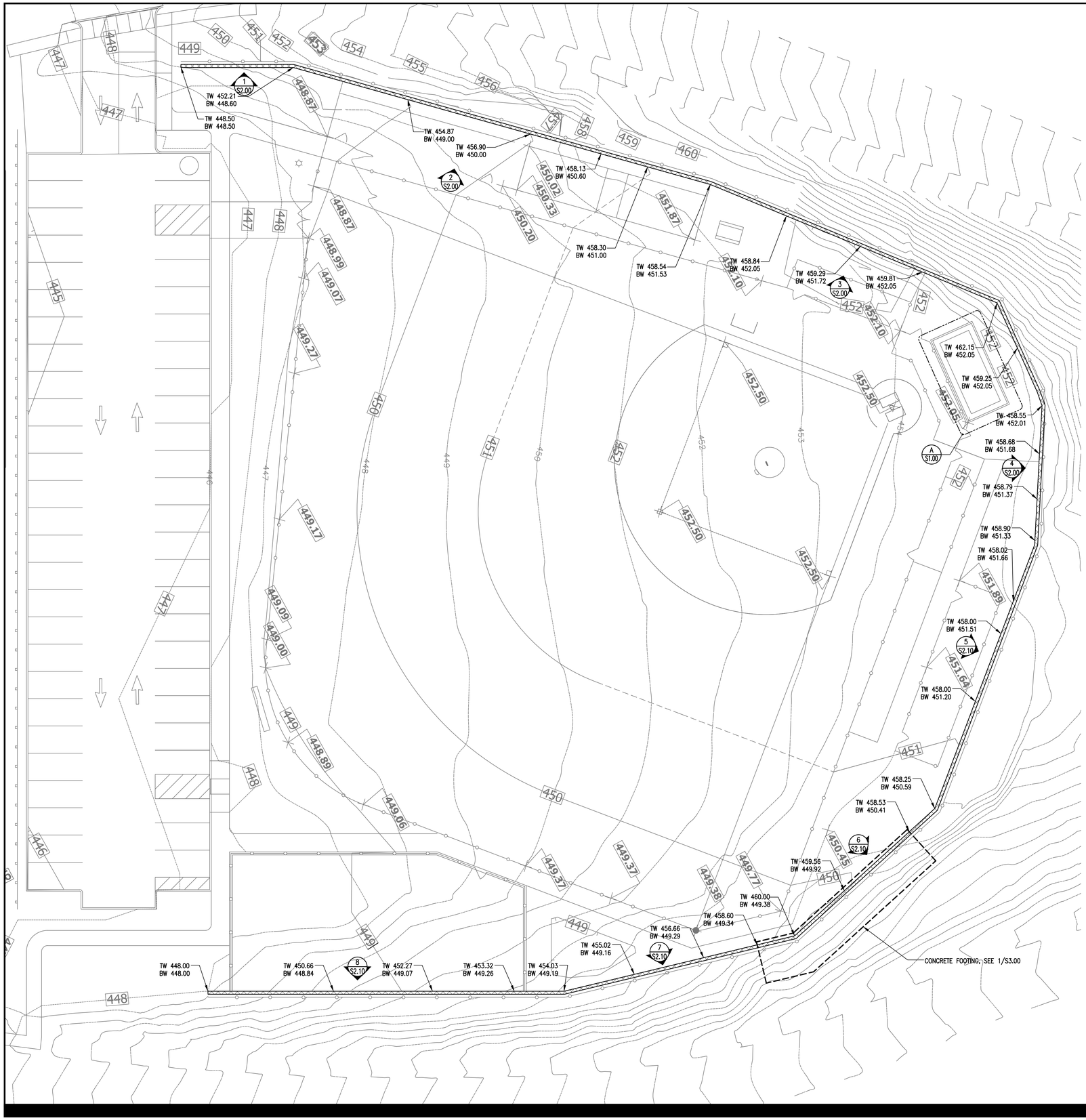
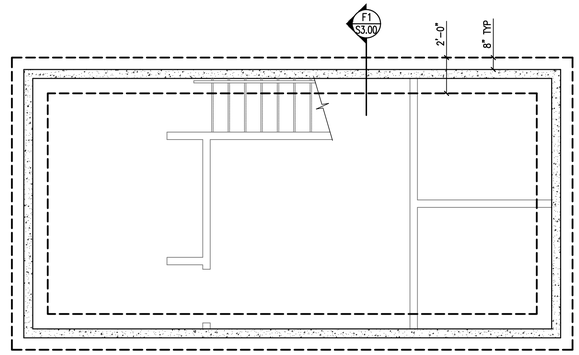
DELCHO G. PALECHEV
PROFESSIONAL ENGINEER, N.J. LIC. No.48732

GENERAL NOTES

DRAWN BY:	MPP	SCALE:	NTS
DESIGNED BY:	DGP	CHECKED BY:	DGP
PROJECT NO.: 24-0230			S0.00
DATE: FEBRUARY 2025			





A S1.00 ENLARGED FOUNDATION AND SLAB PLAN
CONCESSION STAND (DO NOT SCALE PLAN)
SCALE: 1/4" = 1'-0"

RETAINING WALL PLAN
SCALE: 1/16" = 1'-0" (DO NOT SCALE PLAN)

NOTES:

1. ALL TOP OF WALL, BOTTOM OF WALL ELEVATIONS AND GRADING ARE PROVIDED FOR REFERENCE ONLY AND ARE BASED ON SITE PLANS PREPARED BY NEGLIA ENGINEERING ASSOCIATES. SEE SITE PLANS FOR ALL ELEVATIONS AND SITE LAYOUT.
2. T.W. ELEVATION DENOTED ON PLAN INDICATES PROPOSED FINISHED GRADE ELEVATION. SEE GRADING AND SITE PLAN FOR ADDITIONAL INFORMATION. SEE SECTIONS AND ELEVATIONS FOR REQUIRED WALL EXTENSIONS.
3. B.W DENOTES BOTTOM OF GRADE AT WALL. SEE ELEVATIONS AND SECTIONS AND FOR WALL TIP ELEVATIONS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR AND INCLUDE IN HIS BID ALL NECESSARY CORNER BLOCKS AND END OF WALL BLOCKS AS NEEDED TO PROVIDE A TEXTURED SURFACE ON ALL EXPOSED FACES.

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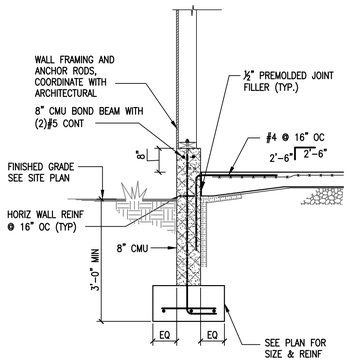
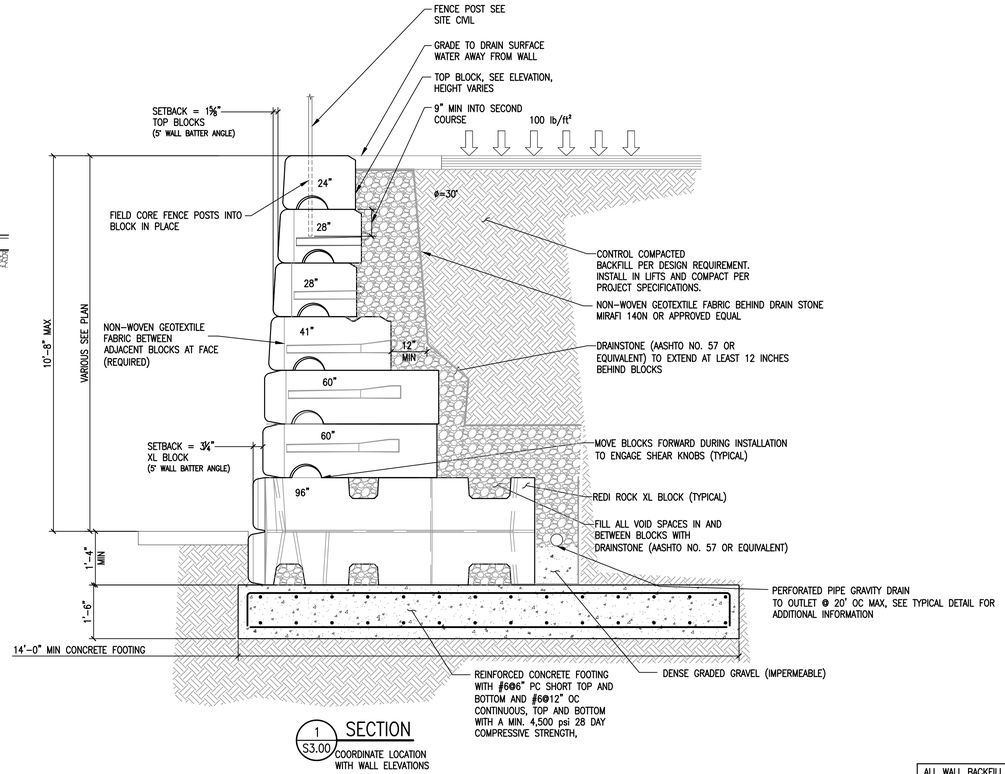
RETAINING WALL PLAN, ENLARGED FOUNDATION AND SLAB PLAN

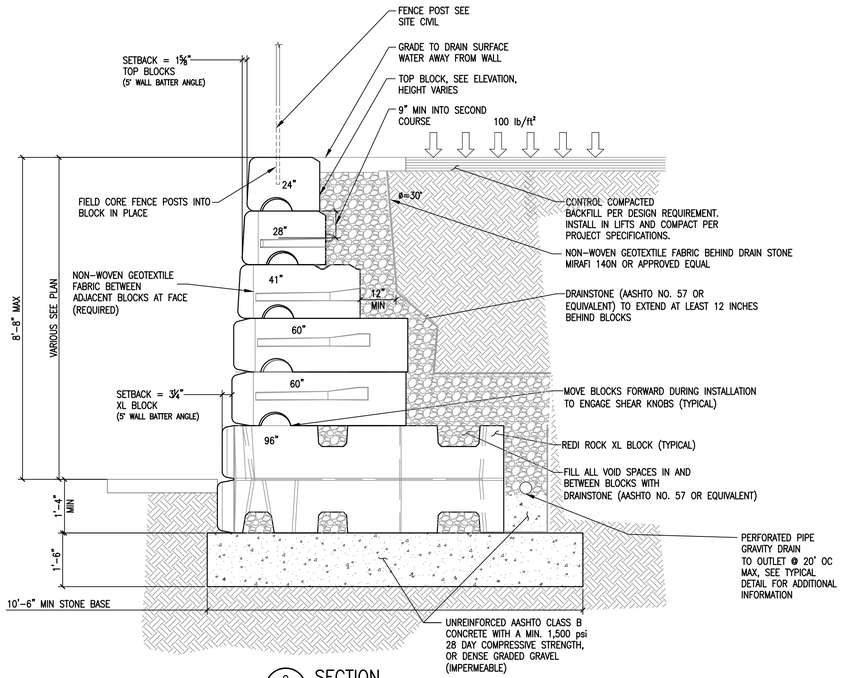
DRAWN BY:	MPP	SCALE:	1/16"=1'-0"
DESIGNED BY:	DGP	CHECKED BY:	DGP
PROJECT NO.:	24-0230		S1.00
DATE:	FEBRUARY 2025		



F1 S3.00 SECTION

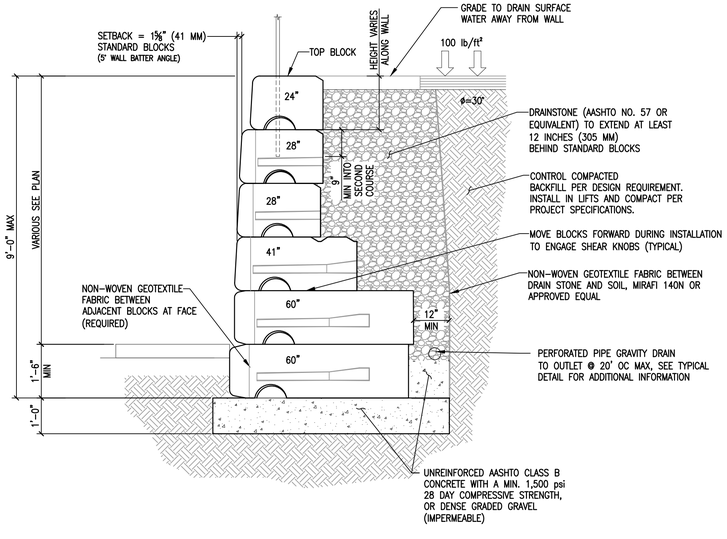


1 S3.00 SECTION
COORDINATE LOCATION WITH WALL ELEVATIONS

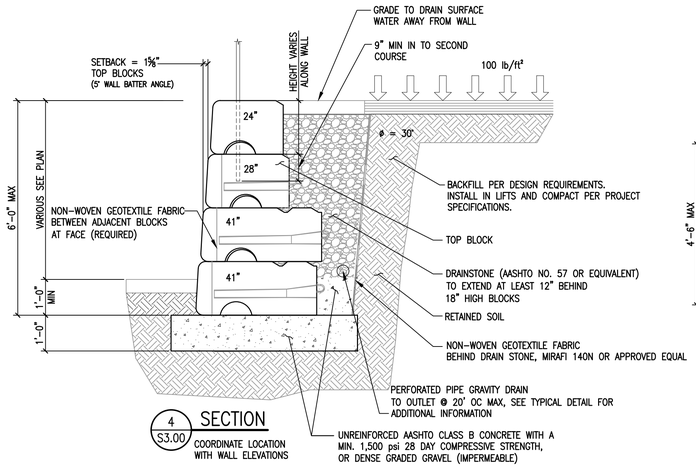


2 S3.00 SECTION
COORDINATE LOCATION WITH WALL ELEVATIONS

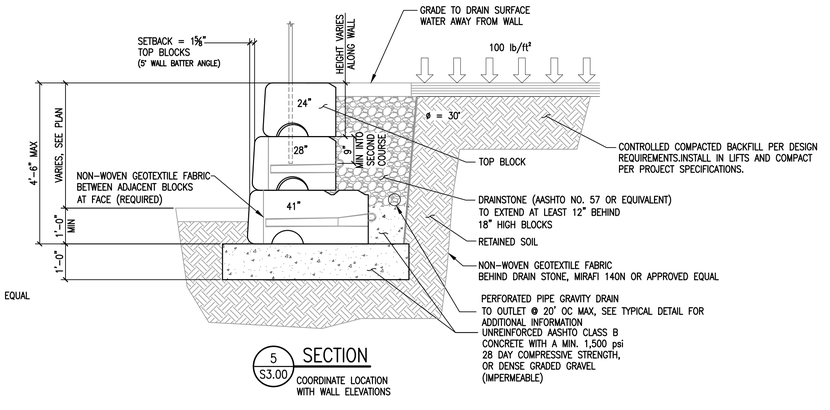
ALL WALL BACKFILL BEHIND CRUSHED STONE SHALL BE CONTROLLED COMPACTED GRANULAR BACKFILL WITH A MINIMUM FRICTION ANGLE OF 30 DEGREES



3 S3.00 SECTION
COORDINATE LOCATION WITH WALL ELEVATIONS



4 S3.00 SECTION
COORDINATE LOCATION WITH WALL ELEVATIONS



5 S3.00 SECTION
COORDINATE LOCATION WITH WALL ELEVATIONS

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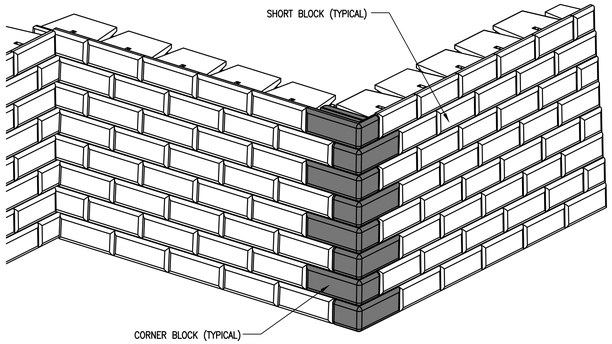
SECTIONS

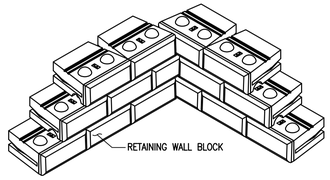
DRAWN BY:	MPP	SCALE:	NTS
DESIGNED BY:	DGP	CHECKED BY:	DGP
PROJECT NO.: 24-0230			
DATE: FEBRUARY 2025			S3.00

NOTES:
- ROWS 2, 4, 6, AND 8 REQUIRE APPROXIMATELY 3" (3 MM) GAPS BETWEEN BLOCKS FOR LENGTH OF WALL GIVEN.
- SOLUTION SHOWN BASED ON A 24" (610 MM) WIDE CORNER BLOCK.

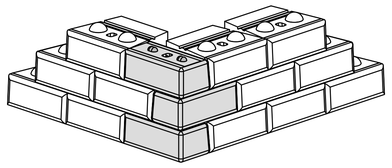


ROW	SHORT BLOCK REQUIRED
1	0
2 AND 3	1 PER ROW
4 AND 5	2 PER ROW
6 AND 7	3 PER ROW
8	4 PER ROW

TD1 / S4.00 TYPICAL DETAIL
90° BATTERED CORNER – FLUSH END

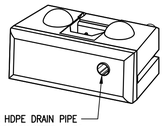


90° INSIDE CORNER (41" AND 28" SERIES)



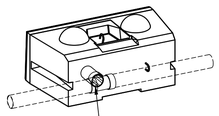
ISOMETRIC VIEW OF CORNER

TD2 / S4.00 TYPICAL DETAIL
90° CORNER OPTIONS

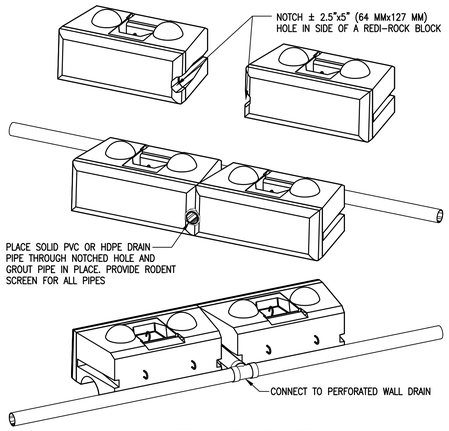


SOLID PVC OR HDPE DRAIN PIPE CAST INTO BLOCK DIAMETER = 3" (76 MM) OR 4" (102 MM) AS SPECIFIED ON PLANS

WALL DRAIN WEEP HOLE OPTIONS

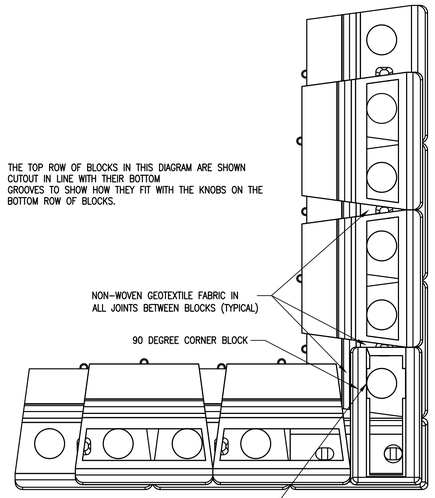


CUSTOM PIPE CAST INTO BLOCK



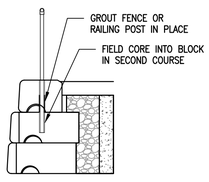
FIELD INSTALLED PIPE

TD3 / S4.00 TYPICAL DETAIL
DRAINAGE WEEP OPTIONS

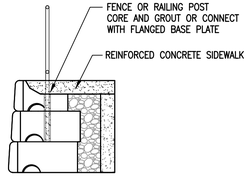


TOP VIEW OF BOTTOM TWO ROWS

TD4 / S4.00 TYPICAL DETAIL
90° OUTSIDE CORNER DETAIL
90° CORNER BLOCK OPTION

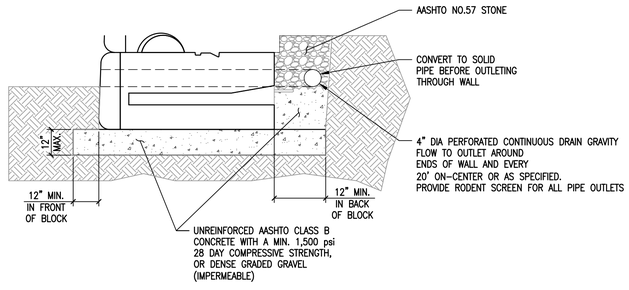


GROUTED CONNECTION
(2 BLOCKS)



MOMENT SLAB CONNECTION

TD5 / S4.00 TYPICAL DETAIL
FENCE OR PEDESTRIAN GUARD CONNECTION OPTIONS



DENSE GRADED GRAVEL LEVELING PAD

TD6 / S4.00 TYPICAL DETAIL
LEVELING PAD AND DRAIN
FOR RETAINING WALL

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NO. | DATE | REVISION | DRAWN | DESIGNED | CHECKED

ISSUED FOR REVIEW

A PRODUCT OF NEGLIA GROUP

EVERETT PARK IMPROVEMENTS

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STATE OF NEW JERSEY

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TYPICAL DETAILS

DRAWN BY: MPP	SCALE: NTS
DESIGNED BY: DGP	CHECKED BY: DGP
PROJECT NO.: 24-0230	S4.00
DATE: FEBRUARY 2025	