

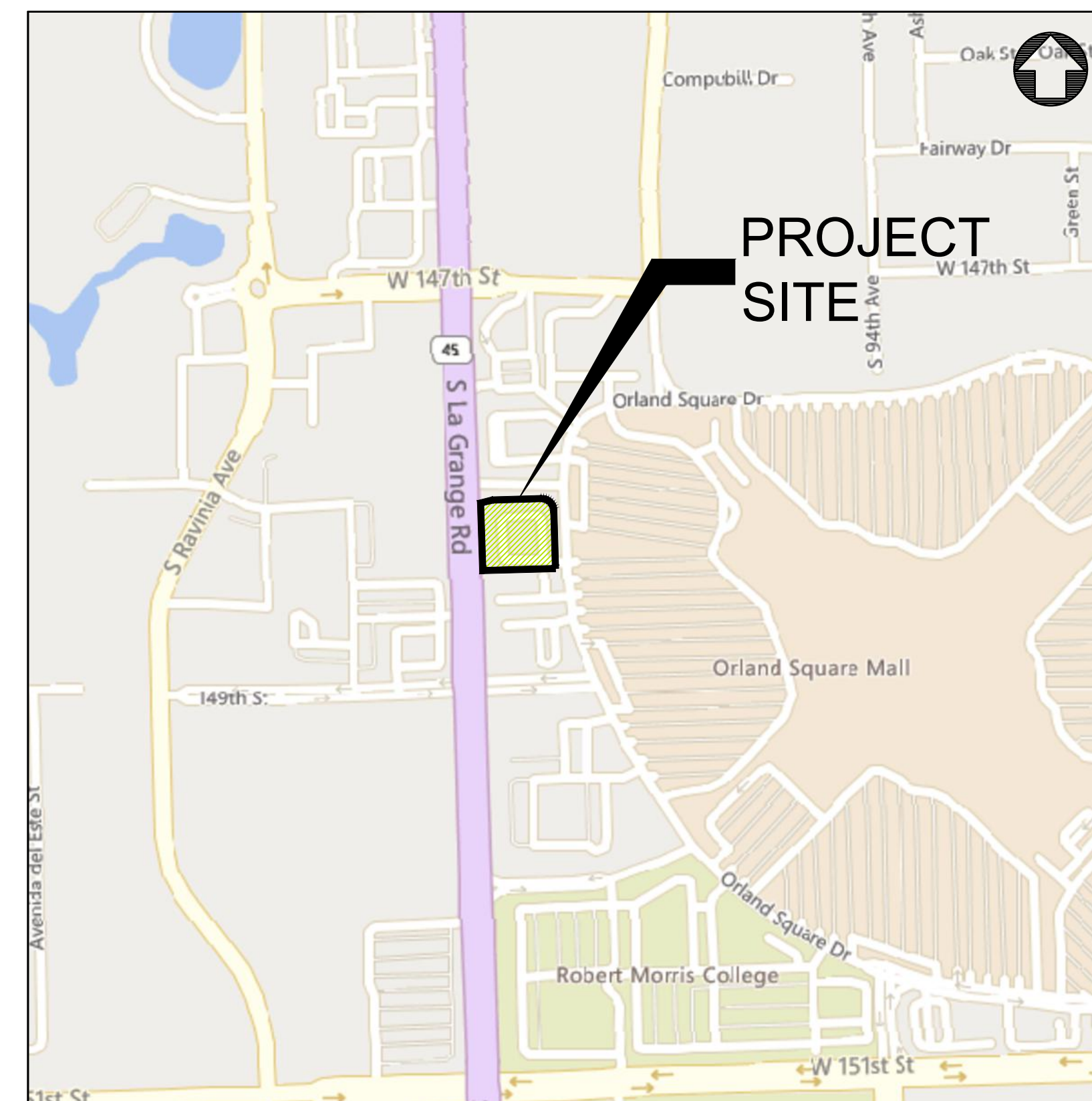
FINAL ENGINEERING FOR

PORTILLO'S - ORLAND PARK

20 ORLAND SQUARE DR. ORLAND PARK, IL 60462

LOCATION MAP

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SECTION 10, TOWNSHIP 36N, RANGE 12E

ENGINEER
CAGE ENGINEERING
 2200 CABOT DRIVE, SUITE 325
 LISLE, IL 60532
 EMAIL: ABRUDER@CAGECIVIL.COM
 AARON BRUDER, P.E.

EXISTING LEGEND	PROPOSED LEGEND
EXISTING TREE	CURB & GUTTER
CURB & GUTTER	BARRIER CURB
EXISTING BUILDING	REVERSE PITCH CURB & GUTTER
PCC SIDEWALK	DEPRESSED CURB & GUTTER
GAS SERVICE	PROPOSED BUILDING
ELECTRIC SERVICE	STANDARD DUTY ASPHALT PAVEMENT
STORM SEWER	HEAVY DUTY CONCRETE PAVEMENT
SANITARY SEWER	PCC SIDEWALK
WATER MAIN	DETECTABLE WARNING TILE
CABLE LINE	STORM SEWER
OVERHEAD UTILITY LINE	SANITARY SEWER
COMMUNICATION LINE	GAS SERVICE (BY OTHERS)
FIBER OPTIC LINE	ELECTRIC SERVICE (BY OTHERS)
FENCE	WATER MAIN
STORM STRUCTURE	STORM STRUCTURE
SANITARY MANHOLE	DOWNSPOUT CONNECTION
CLEANOUT	SANITARY MANHOLE
WATER METER	CLEANOUT
VALVE VAULT	VALVE BOX
VALVE BOX	PARKING LOT LIGHT
HYDRANT	TOP OF SIDEWALK GRADE
GAS METER	TOP OF CURB GRADE
ELECTRIC METER	PAVEMENT GRADE
PARKING LOT LIGHT	GROUND GRADE
UTILITY POLE	MAJOR CONTOUR
GUY WIRE	MINOR CONTOUR
TRANSFORMER	
FIBER OPTIC BOX	
FIBER OPTIC PEDESTAL	
CABLE PEDESTAL	
PHONE PEDESTAL	
ELECTRIC PEDESTAL	
MAJOR CONTOUR	
MINOR CONTOUR	

DRAINAGE CERTIFICATE

TO THE BEST OF OUR KNOWLEDGE AND BELIEF, THE DRAINAGE OF THE SURFACE WATERS WILL NOT BE CHANGED BY CONSTRUCTION OF THIS SUBDIVISION (DEVELOPMENT), OR ON THIS SITE, OR ANY PART THEREOF, OR THAT IF SUCH SURFACE WATER DRAINAGE WILL BE CHANGED, REASONABLE PROVISIONS HAVE BEEN MADE FOR THE COLLECTION AND DIVERSION OF SUCH SURFACE WATERS INTO PUBLIC AREAS OR DRAINS WHICH THE PROPERTY OWNER HAS A RIGHT TO USE, AND THAT SUCH SURFACE WATERS WILL BE PLANNED FOR IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES SO AS TO REDUCE THE LIKELIHOOD OF DAMAGE TO THE ADJOINING PROPERTY BECAUSE OF CONSTRUCTION OF THE SUBDIVISION (DEVELOPMENT), OR THIS SITE.

05/08/2024

DATE

ENGINEER

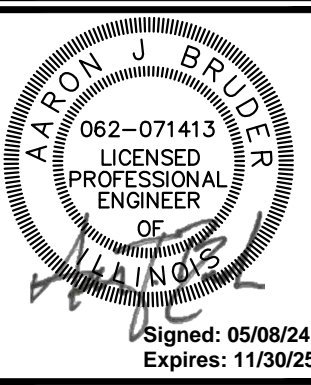
BENCHMARK INFORMATION

SOURCE BENCHMARK: NGS MONUMENT
 DESIGNATION - DK 2005
 PID - DN4690
 STATE/COUNTY - IL / WILL
 USGS QUAD - MOKENA (2018)
 ELEVATION = 729.45 (NAVD88)

*SURVEY COMPLETED BY ASM CONSULTANTS, INC.
 ON 10-25-2023



2200 CABOT DRIVE
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 LISLE, IL 60532
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REVISIONS

05/08/2024
 ISSUE FOR PERMIT

PORTILLO'S HOT DOGS
 PORTILLO'S - ORLAND PARK
 20 ORLAND SQUARE DR.
 ORLAND PARK, IL 60462

PROJ NO: 230210

ENG: SJS

DATE: 02/23/2024

SHEET TITLE

SITE LOCATION MAP & CIVIL LEGEND

SHEET NUMBER

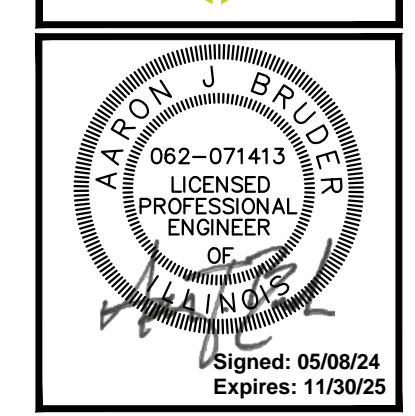
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GENERAL REQUIREMENTS:

- 1. ALL WORK SHALL BE IN CONFORMANCE WITH THE APPLICABLE SECTIONS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (HEREIN AFTER REFERRED TO AS STANDARD SPECIFICATIONS) ADOPTED APRIL 1, 2022 AND SUPPLEMENTAL SPECIFICATIONS. WITHIN THE STANDARD SPECIFICATIONS, ARTICLES 105.01, 105.09, 105.10, 105.11, 105.12, 105.13 AND SECTION 109 SHALL NOT BE INCORPORATED INTO THIS CONTRACT.
2. SCOPE OF WORK: THE PROPOSED IMPROVEMENTS CONSIST OF SUPPLYING ALL THE NECESSARY LABOR, MATERIAL AND EQUIPMENT TO SATISFACTORILY CONSTRUCT AND INSTALL ALL IMPROVEMENTS ACCORDING TO THE PLANS DESIGNATED HEREIN.
3. CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO LOCATE AND PROTECT ALL UNDERGROUND FACILITIES/UTILITIES DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS AND CONTACT THE OWNER. ANY DAMAGE TO ANY UTILITIES SHALL BE PROMPTLY REPORTED TO THE OWNER. REPAIRS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE UNDERGROUND UTILITIES SHOWN HEREIN ARE APPROXIMATE AND BASED ON THE ACTUAL LOCATION OF SURFACE STRUCTURES AND PLANS PROVIDED BY THE OWNER. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVE GROUND UTILITY LOCATION, IDENTIFICATION, AND MARKING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS ASSOCIATED WITH BURIED AND ABOVEGROUND UTILITIES REMAINS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS.
4. THE CONTRACTOR SHALL FURNISH, ERECT, AND MAINTAIN MARKINGS AND ASSOCIATED HAZARD WARNING LIGHTS, DELINEATOR FENCE, AND OTHER ASSOCIATED FACILITIES AS REQUIRED FOR OPEN TRENCHES, EXCAVATIONS, TEMPORARY STOCK PILES, AND PARKED CONSTRUCTION EQUIPMENT THAT MAY POSE A POTENTIAL HAZARD AS PART OF THE DAILY OPERATIONS AT THIS SITE. CONTRACTOR IS SOLELY RESPONSIBLE FOR SITE SAFETY.
5. CONTRACTOR SHALL CONTINUOUSLY COMPARE ALL LINES, GRADES, AND OTHER INFORMATION APPEARING ON THE PLANS WITH THE ACTUAL LINES, GRADES, AND SITE CONDITIONS. ANY DISCREPANCIES THAT MAY AFFECT THE PERFORMANCE OF THE WORK IN ACCORDANCE WITH THE INTENT OF THE CONTRACT DOCUMENTS SHALL BE IMMEDIATELY REPORTED TO THE OWNER AND ENGINEER IN WRITING FOR DISPOSITION BEFORE CONTRACTOR PROCEEDS WITH THE WORK. CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR THE WORK COMPLETED PRIOR TO THE REPORT TO THE OWNER AND ENGINEER, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION OF THE WORK PRIOR TO THE REPORT TO THE OWNER AND ENGINEER.
6. CONTRACTOR PARKING AND LAYDOWN AREAS SHALL BE COORDINATED WITH THE OWNER.
7. PRIOR TO PERFORMING ANY WORK IN OR ON THE RIGHT OF WAY OF ANY CITY OR STATE ROADWAY, THE CONTRACTOR SHALL NOTIFY THE VILLAGE OF ORLAND PARK PUBLIC WORKS AT LEAST 48 HOURS IN ADVANCE. THE CONTRACTOR SHALL ERECT WARNING SIGNS AND BARRICADES TO PROTECT THE TRAVELING PUBLIC AND HIS WORKERS. THE SIGNING AND BARRICADES SHALL CONFORM TO THE APPROPRIATE APPLICATIONS OUTLINED IN THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES OR AS OTHERWISE DIRECTED BY THE CITY / STATE TRAFFIC ENGINEER. IF PERMITS ARE REQUIRED TO CONDUCT THE WORK, THE CONTRACTOR SHALL SECURE THE PERMITS AND SUPPLY THEM TO THE OWNER AT NO ADDITIONAL COST. ALL FULL WIDTH LANE CLOSURES, PARTIAL LANE CLOSURES, AND CONSTRUCTION ADJACENT TO PAVEMENT SHALL BE IDENTIFIED, SIGNED, AND BARRICADES ERECTED IN CONFORMANCE WITH THE APPLICABLE ARTICLES OF SECTION 701 OF THE STANDARD SPECIFICATIONS AND THE MUNICIPALITY'S REQUIREMENTS. ALL TRAFFIC PROTECTION, BOTH ONSITE AND OFFSITE, SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
8. CONTRACTOR SHALL REMOVE EARTHEN MATERIALS, EXISTING SURFACES, AND STRUCTURES AS REQUIRED. ALL WASTE MATERIAL SHALL BE PROPERLY DISPOSED OFF-SITE AND SHALL BE INCIDENTAL TO THE CONTRACT.
9. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, UNLESS NOTED. THIS WILL INCLUDE BUT NOT BE LIMITED TO MUNICIPAL BUILDING PERMIT. THE OWNER WILL SECURE THE N.P.D.E.S. PERMIT. THE CONTRACTOR SHALL PROVIDE ANY FINANCIAL SURETIES REQUIRED AS PART OF ANY PERMIT.
10. WHEN CONCRETE IS PLACED ABUTTING STRUCTURES, FOUNDATIONS OR EXISTING SIDEWALKS, A BOND BREAKER CONSISTING OF 1" P.J.F. AND ELASTOMERIC JOINT SEALANT SHALL BE USED FULL DEPTH UNLESS OTHERWISE NOTED.
11. MAXIMUM CONTRACTION JOINT SPACING ON CONCRETE CURB AND GUTTER OR CONCRETE GUTTER SHALL NOT EXCEED 15' AND SAWCUT SHALL BE AT LEAST ONE AND ONE-HALF (1-1/2) INCHES DEEP. EXPANSION JOINTS SHALL BE DOWELED AND SPACED NO MORE THAN SIXTY (60) FEET ON CENTER AND AT TANGENT POINTS OF ALL RADI, AND TWO (2) NO. 4 REINFORCING BARS SHALL BE PLACED CONTINUOUSLY BETWEEN EXPANSION JOINTS.
12. SIDEWALK RAMPS FOR ADA SHALL BE IN ACCORDANCE WITH THE DETAILS SHOWN HEREIN. DETECTABLE WARNINGS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
13. HOT-MIX ASPHALT PAVEMENT PATCHING SHALL BE IN ACCORDANCE WITH SECTION 442 OF THE STANDARD SPECIFICATIONS.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND SUBMITTING ELECTRONIC AS-BUILT DRAWINGS, FOR UTILITIES AND DETENTION AREAS, TO THE OWNER AND ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PROJECT ACCEPTANCE.
15. CONSTRUCTION STAKING, LAYOUT, AND GRADING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR USING THE BASIC TOPOGRAPHIC SURVEY CONTROLS PROVIDED IN THE PLANS. CONTRACTOR SHALL VERIFY SURVEY CONTROLS PRIOR TO BEGINNING CONSTRUCTION. ANY DISCREPANCIES IN THE SURVEY CONTROLS SHALL BE REPORTED TO THE OWNER AND ENGINEER PRIOR TO CONSTRUCTION. ANY ADDITIONAL SURVEY CONTROLS REQUIRED FOR CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
16. CONTRACTOR SHALL COORDINATE ALL UTILITY LINE CROSSINGS TO ENSURE ALL PIPES MAINTAIN MINIMUM COVER, MINIMUM CLEARANCES, AND PROPER SEPARATION. GRAVITY LINES SHALL HAVE PRECEDENCE OVER PRESSURIZED LINES.
17. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL ITEMS INCORPORATED INTO THE WORK FOR ENGINEER REVIEW AND APPROVAL A MINIMUM OF 4 WEEKS PRIOR TO ORDERING.
18. REFERENCES TO "INSPECTION" OR "INSPECTOR" IN THE SPECIFICATIONS SHALL NOT CREATE, IMPOSE, OR GIVE RISE TO ANY DUTY OWED BY THE OWNER OR ENGINEER TO THE CONTRACTOR, ANY SUBCONTRACTOR, OR ANY SUPPLIER. ALL IMPROVEMENTS SHALL BE SUBJECT TO INSPECTION BY A DULY AUTHORIZED AND QUALIFIED OWNER'S REPRESENTATIVE BOTH DURING THE COURSE OF CONSTRUCTION AND AFTER CONSTRUCTION IS COMPLETE. THE INSPECTOR SHALL HAVE AUTHORITY OVER MATERIALS OF CONSTRUCTION, METHODS OF CONSTRUCTION AND WORKSMANSHIP TO ENSURE COMPLIANCE WITH WORKING DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE FOR REASONABLE TESTS AND PROOF OF QUALITY OF MATERIALS AS REQUESTED BY THE INSPECTOR. UPON DUE CAUSE, WHICH SHALL INCLUDE WEATHER CONDITIONS, WORKMANSHIP OR NON-ADHERANCE TO THE APPROVED PLANS AND SPECIFICATIONS, THE INSPECTOR SHALL HAVE THE AUTHORITY TO STOP CONSTRUCTION.
19. WHERE SECTION, SUB-SECTION, SUBDIVISION, OR PROPERTY MONUMENTS ARE ENCOUNTERED, THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL PROPERTY MARKERS UNTIL AN OWNER OR AUTHORIZED SURVEYOR HAS WITNESSED OR REFERENCED THEIR LOCATION.
20. ALL AGGREGATE BASE COURSE SHALL BE COMPACTED TO 98% STANDARD PROCTOR DENSITY.
21. ALL AGGREGATE BASE AREAS TO BE PAVED (PAVEMENT, SIDEWALK, CURB, OR STRUCTURES) SHALL BE PROOF-ROLLED WITH SEVERAL PASSES OF A FULLY LOADED DUMP TRUCK. CONTRACTOR SHALL NOTIFY THE OWNER, ENGINEER, & VILLAGE 24 HOURS PRIOR TO PROOF ROLL AND SHALL MAKE ALL CORRECTIONS TO PROVIDE A SATISFACTORY SUBGRADE.
22. ANY UNCONTROLLED CRACKING THAT OCCURS IN CONCRETE PAVEMENT, SIDEWALK, CURB, OR CURB AND GUTTER PRIOR TO FINAL ACCEPTANCE SHALL BE ROUTED OR SAWED AND SEALED ACCORDING TO THE STANDARD SPECIFICATIONS.
23. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES PRIOR TO ANY WORK IN AND AROUND UTILITY-OWNED INFRASTRUCTURE AND MAKE THEM AWARE OF WORK TO BE PERFORMED.
24. ALL SIDEWALKS SHALL BE 5 INCHES IN THICKNESS WITH 6"x6" WIRE MESH AND CONSTRUCTED TO THE WIDTH SHOWN ON THE PLANS. ALL SIDEWALKS SHALL BE CONSTRUCTED WITH A MIN. CROSS SLOPE OF 1% AND A MAX. CROSS SLOPE OF 2%. SIDEWALK THICKNESS SHALL BE INCREASED TO A MINIMUM 6" AT DRIVEWAYS OR AS REQUIRED BY THE MUNICIPALITY.
25. ANY SIDEWALKS, FENCES, AND OTHER ITEMS NOT SHOWN TO BE REMOVED, BUT DAMAGED DURING CONSTRUCTION, SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.
26. CONTRACTOR SHALL NOTIFY THE APPROPRIATE AGENCY A MINIMUM OF 48 HOURS PRIOR TO CONNECTING TO OR INSTALLING ANY PUBLIC SEWER OR WATER MAINS.
27. PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE PROJECT SITE. IN ADDITION, THE CONTRACTOR MUST VERIFY THE ENGINEER'S LINE AND GRADE STAKES. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, THE CONTRACTOR MUST IMMEDIATELY PROVIDE THE INFORMATION TO THE ENGINEER BEFORE DOING ANY WORK. OTHERWISE, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY. IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTIONS FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK EFFECTED BY OMISSIONS OR DISCREPANCIES. IF THE CONTRACTOR FAILS TO SECURE WRITTEN INSTRUCTIONS FROM THE ENGINEER, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTION ARISING WITH RESPECT TO SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL.
EXISTING TOPOGRAPHY:
1. ALL UTILITIES SHOWN ARE APPROXIMATE ONLY AND ARE DERIVED FROM EXISTING UTILITY MARKINGS, OLD SITE PLANS, UTILITY COMPANY MAPS, PRIVATE LOCATOR AND OBSERVED EVIDENCE.
2. ALL PIPE SIZES REFERENCED HEREON ARE SHOWN ACCORDING TO UTILITY COMPANY MAPS, OLD SITE PLANS AND OBSERVED EVIDENCE. ALL PIPE SIZES AND INVERTS SHOULD BE VERIFIED PRIOR TO ANY CONSTRUCTION.
3. PRIOR TO ANY EXCAVATION CONTRACTORS SHALL CALL THE TOLL FREE J.U.L.I.E. TELEPHONE NUMBER 1-800-892-0123. ALLOW 48 HOURS FOR LOCATIONS OTHER THAN EMERGENCY ASSISTANCE.
SITE DEMOLITION:
1. EXISTING UTILITIES TO REMAIN, WHICH ARE DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION, SHALL BE REPAIRED AND/OR REPLACED WITHOUT ADDITIONAL COMPENSATION. CONFLICTS WITH PROPOSED CONSTRUCTION AND UTILITIES TO REMAIN ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONSTRUCTION MANAGER FOR COORDINATION WITH THE OWNER'S REPRESENTATIVE, ENGINEER, AND UTILITY COMPANY.
2. NO DEMOLITION OR CONSTRUCTION ACTIVITIES SHALL TAKE PLACE WITHIN PUBLIC RIGHT-OF-WAY UNTIL ALL PERMITS ARE SECURED.
3. ALL PAVEMENT TO BE REMOVED SHALL BE SAWCUT FULL DEPTH.
4. CONTRACTOR SHALL EMPLOY ALL MEASURES NECESSARY DURING DEMOLITION TO CONTROL EROSION AND INSURE THAT SEDIMENT DOES NOT LEAVE THE SITE. TRACKING OF DIRT ONTO PUBLIC STREETS AND EXISTING PARKING LOT SHALL BE CLEANED IMMEDIATELY, AND ALL SEDIMENT AND EROSION CONTROL ITEMS SHALL BE INSTALLED PRIOR TO CLEARING AND DEMOLITION WORK. THE VILLAGE MAY REQUEST ADDITIONAL CLEANUP OF PUBLIC STREETS AT THEIR DISCRETION.
5. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING SITE CONDITIONS AND BECOMING FAMILIAR WITH ALL CONSTRUCTION DOCUMENTS.
6. ITEMS INDICATED TO BE REMOVED SHALL BE COMPLETELY REMOVED UNLESS INDICATED OTHERWISE.
7. ITEMS INDICATED TO BE SALVAGED SHALL BE CAREFULLY REMOVED AND STORED IN A LOCATION DESIGNATED BY THE OWNER.
8. ALL TREES AND BRUSH INDICATED TO BE REMOVED SHALL BE REMOVED COMPLETELY, INCLUDING ROOT BALLS.
9. UNLESS OTHERWISE IDENTIFIED AND/OR NOTED ON THE DEMOLITION PLAN, CONTRACTOR SHALL FULLY DEMOLISH, REMOVE, AND LAWFULLY DISPOSE OF ALL EXISTING BUILDINGS, IMPROVEMENTS, AND RELATED APPURTENANCES AT THIS SITE AND PROPERTY. CONTRACTOR SHALL ALSO DEMOLISH, REMOVE, AND LAWFULLY DISPOSE OF EXISTING IMPROVEMENTS AND CONSTRUCTIONS IN THE PUBLIC RIGHT-OF-WAY NECESSARY TO ACCOMPLISH THE NEW PROJECT WORK DESCRIBED ELSEWHERE IN THESE BIDDING AND CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL PROCURE ALL NECESSARY PERMITS AND APPROVALS FOR SUCH DEMOLITION WORK (BOTH INSIDE THE PROPERTY LINE AND IN THE PUBLIC RIGHT-OF-WAY) PRIOR TO COMMENCING ANY DEMOLITION OPERATIONS.
10. CONTRACTOR SHALL FULLY PROTECT ALL SURROUNDING PROPERTIES FROM ANY AND ALL DAMAGE DURING DEMOLITION OPERATIONS; AND SHALL BE FULLY RESPONSIBLE FOR REPAIRING (TO A CONDITION ACCEPTABLE TO THE OWNER, ARCHITECT, AND VILLAGE) ANY AND ALL DAMAGE THAT DOES OCCUR.
11. CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROLS AND RELATED APPURTENANCES THAT ARE REQUIRED BY ANY APPLICABLE CODES AND ORDINANCES, DURING ALL DEMOLITION OPERATIONS.
12. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE SAFETY AND SECURITY OF THE PROJECT SITE AND ITS SURROUNDINGS DURING DEMOLITION OPERATIONS.
13. ALL DEMOLISHED EXISTING MATERIALS, SYSTEMS, AND CONSTRUCTIONS SHALL BE DISPOSED OF IN A LAWFUL MANNER, AND WRITTEN RECORDS OF THE FINAL DESTINATION FOR THESE MATERIALS, SYSTEMS, AND CONSTRUCTIONS SHALL BE PROVIDED TO THE OWNER AND ENGINEER.
14. EXISTING SITE SHALL BE CLEANED ON A DAILY BASIS THROUGHOUT THE DURATION OF DEMOLITIONS OPERATIONS; AND NO DEBRIS OR PRODUCTS OF DEMOLITION SHALL BE ALLOWED TO ACCUMULATE OUTSIDE THE BOUNDARIES OF THE SITE.
15. CONTRACTOR SHALL FULLY COORDINATE ALL PROJECT DEMOLITION OPERATIONS, INCLUDING THE REMOVAL AND LAWFUL DISPOSAL OF ALL MATERIALS AND SYSTEMS.
16. CONTRACTOR SHALL SUBMIT A COMPLETE WRITTEN PLAN AND SCHEDULE FOR ALL PROPOSED DEMOLITION WORK TO OWNER AND ARCHITECT FOR REVIEW AND COMMENT, PRIOR TO BEGINNING ANY SUCH OPERATIONS.
SITE UTILITIES:
1. THIS CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
A. "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", CURRENT EDITION.
B. ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION"
C. VILLAGE OF ORLAND PARK LAND DEVELOPMENT CODE
2. ALL UTILITY TRENCHES UNDER OR WITHIN 2' OF EXISTING OR PROPOSED PAVEMENT OR BUILDING SHALL BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL. IN ACCORDANCE WITH IDOT SPECIFICATIONS, CONTROLLED LOW-STRENGTH MATERIAL (CLSM) SHALL BE USED TO BACKFILL TRENCHES WITHIN PUBLIC RIGHT OF WAY. THE CLSM SHALL EXTEND 2 FT PAST THE PROPOSED PAVEMENT, CURB, OR SIDEWALK.
3. OPEN CUT TRENCHES SHALL BE SHEETED AND BRACED AS REQUIRED BY THE GOVERNING STATE, FEDERAL LAWS AND MUNICIPAL ORDINANCES, AND AS MAY BE NECESSARY TO PROTECT LIFE, PROPERTY OR THE WORK.
4. CONTRACTOR SHALL AT ALL TIMES DURING CONSTRUCTION PROVIDE AND MAINTAIN SUFFICIENT MEANS AND DEVICES TO REMOVE AND PROPERLY DISPOSE OF ALL WATER ENTERING THE EXCAVATIONS. WATER SHALL BE FILTERED AND DISCHARGED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL REQUIREMENTS.
5. ALL PIPE SHALL BE INSTALLED ON A BEDDING OF APPROVED, COMPACTED GRANULAR MATERIAL UNLESS OTHERWISE APPROVED BY THE ENGINEER. THE BEDDING MATERIAL SHALL BE INSTALLED PER STANDARD SPECIFICATIONS AND PROVIDED PLAN DETAILS.
6. A MINIMUM HORIZONTAL SEPARATION OF 10 FEET SHALL BE MAINTAINED BETWEEN ALL WATER MAINS AND SEWERS. IF SEPARATION IS NOT POSSIBLE, WATER MAIN ENCASEMENT SHALL BE REQUIRED OR THE SEWER SHALL BE CONSTRUCTED OF WATER MAIN QUALITY PIPE.
7. WATER MAINS SHALL CROSS ABOVE SEWERS WITH A MINIMUM VERTICAL SEPARATION OF 18 INCHES WHILE STILL MAINTAINING THE REQUIRED DEPTH OF COVER. IF PROPER SEPARATION IS NOT POSSIBLE, OR IF THE WATER MAIN MUST BE ROUTED UNDER THE SEWER, WATER MAIN ENCASEMENT SHALL BE REQUIRED OR THE SEWER SHALL BE CONSTRUCTED OF WATER MAIN QUALITY PIPE.
8. ALL SANITARY SEWERS SHALL BE TESTED FOR INFILTRATION, EXFILTRATION, AIR TESTING, AND DEFLECTION TESTING IN ACCORDANCE WITH VILLAGE LAND DEVELOPMENT CODE SECTION 6-408.L.5
9. STORM SEWER SHALL BE IN CONFORMANCE WITH THE FOLLOWING:
A. REINFORCED CONCRETE PIPE (10" DIA. AND SMALLER), MINIMUM CLASS 3, ASTM C14.
B. REINFORCED CONCRETE PIPE (12" DIA. AND LARGER), CIRCULAR REINFORCEMENT, MINIMUM CLASS 3, WALL B, ASTM C76
C. PVC UNDERDRAIN PIPE (4", 6" AND 8") - ASTM D2729, SDR 35
D. FRAME AND GRATES
b. MANHOLE FRAME & COVER EAST JORDAN #102223, 1020A HD
c. SIX (6) INCH CURB AND CATCH BASIN INLET EAST JORDAN EJW 7210 W/ TYPE M1 GRATE
d. THREE (3) INCH INLET AND CATCH BASIN EAST JORDAN #7525Z FRAME AND 7525M GRATE
e. YARD INLET EAST JORDAN #6527 GRATE
SANITARY SEWER SHALL BE IN CONFORMANCE WITH THE FOLLOWING:
A. PIPE AND FITTING MATERIAL - POLYVINYL CHLORIDE (PVC) SDR 26, ASTM D 3034, TYPE PSM, LESS THAN 20 FOOT DEPTH AT FINAL GRADE FRO SIZES 6" THROUGH 12"
B. GASKETS - FLEXIBLE ELASTOMERIC, ASTM F 477, ASTM D 3139
C. JOINTS - ASTM D 3212
D. BEDDING - CLASS II, ASTM D 2321
11. ALL CLEANOUT RIMS SHALL BE CONSTRUCTED FLUSH WITH THE FINISHED GROUND SURFACE.
12. CONTRACTOR SHALL COORDINATE CONSTRUCTION OF SANITARY SEWER SERVICES WITH THE DEPARTMENT OF PUBLIC WORKS.
13. CONTRACTOR SHALL COORDINATE WATER MAIN, FIRE AND DOMESTIC WATER SERVICES WITH THE DEPARTMENT OF PUBLIC WORKS.
14. GENERAL CONTRACTOR SHALL COORDINATE ALL UTILITY LINES THAT ENTER THE BUILDING. IN GENERAL, PLUMBING PLANS SHOW ALL INTERIOR BUILDING PIPING AND PIPING UP TO 5-FEET OUTSIDE THE BUILDING. CIVIL PLANS SHOW SITE PIPING BEGINNING FROM 5-FEET OUTSIDE THE BUILDING. GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY CONNECTIONS.
15. CONTRACTOR SHALL COORDINATE ALL UTILITY LINE CROSSINGS TO ENSURE ALL PIPES MAINTAIN MINIMUM COVER, MINIMUM CLEARANCES, AND PROPER SEPARATION. GRAVITY LINES SHALL HAVE PRECEDENCE OVER PRESSURIZED LINES.
16. ALL TRENCH BACKFILL SHALL BE IMPORTED GRANULAR MATERIAL UNLESS EXISTING GRANULAR MATERIALS ARE SPECIFICALLY APPROVED BY THE OWNER'S REPRESENTATIVE.
17. ALL MANHOLES AND INLET CASTINGS LOCATED WITHIN BITUMINOUS ASPHALT PAVEMENT SHALL BE CONSTRUCTED WITH A CONCRETE APRON AT THE SURFACE.
18. FOR ALL WATERMAIN CONSTRUCTION:
A. WATER MAIN AND SERVICES TO BE INSTALLED WITH A MINIMUM OF 5'-6" OF COVER FROM FINISHED GRADE TO TOP OF WATER PIPE.
B. TWO COMPLETE PIPE LENGTHS OF RESTRAINED JOINT PIPE SHALL BE CONSTRUCTED ON THE BRANCH LEG OF ALL TEES AND BOTH SIDES OF ALL 90 DEGREE BENDS.
C. ONE COMPLETE PIPE LENGTH OF RESTRAINED JOINT PIPE SHALL BE CONSTRUCTED ON BOTH SIDES OF ALL 11-1/4 AND 22-1/2 DEGREE BENDS.
D. ALL BENDS, TEES, PLUGS, VALVES AND HYDRANTS SHALL BE RESTRAINED JOINT.
E. ALL WATERMAIN PIPE 4" AND LARGER SHALL BE POLY WRAPPED DUCTILE IRON PIPE SPECIAL CLASS 52, 250 PSI RATING, WITH SINGLE GASKET JOINTS. CEMENT LINING SHALL BE PROVIDED FOR ALL PIPE.
F. ALL WATER SERVICE PIPE LESS THAN 4" SHALL BE COPPER PIPE, TYPE K OR PVC SDR 9 WITH A PRESSURE RATING OF 200 PSI.
INDEMNIFICATION:
1. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER, THE VILLAGE OF ORLAND PARK, PORTILLO'S HOT DOGS, AND CAGE ENGINEERING, INC. FROM AND AGAINST ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING FROM THE PERFORMANCE OF THE CONTRACTOR'S WORK. IN ANY AND ALL CLAIMS AGAINST THE OWNER OR CAGE ENGINEERING, INC. BY ANY EMPLOYEE OF THE CONTRACTOR, OR ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY THE CONTRACTOR, OR ANYONE FOR WHOSE ACTS THE CONTRACTOR MAY BE LIABLE, THE INDEMNIFICATION OBLIGATION SHALL NOT BE LIMITED IN ANY WAY BY ANY LIMITATION ON THE AMOUNT OF DAMAGES, COMPENSATION OR BENEFITS PAYABLE BY OR FOR THE CONTRACTOR UNDER WORKER'S COMPENSATIONS ACTS, DISABILITY BENEFIT ACTS OR OTHER EMPLOYEE BENEFIT ACTS.
CONSTRUCTION MEANS, METHODS, SAFETY
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL LAWS, INCLUDING OSHA STANDARDS AND WITH ANY OTHER APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS AND ORDERS OF ANY PUBLIC BODY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY OR TO PROTECT THEM FROM DAMAGE, INJURY OR LOSS. THE CONTRACTOR SHALL PROVIDE ALL SAFEGUARDS, SAFETY DEVICES AND PROTECTIVE EQUIPMENT AND SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS UTILIZED BY THE CONTRACTOR AND HIS SUB-CONTRACTORS IN THE PERFORMANCE OF THEIR WORK AND SHALL TAKE ANY OTHER ACTIONS NECESSARY TO PROTECT THE LIFE AN HEALTH OF EMPLOYEES ON THE JOB AND THE SAFETY OF THE PUBLIC AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES OR PROCEDURES, EQUIPMENT, AND FOR SAFETY PRECAUTIONS OR PROGRAMS, UNLESS SUCH MEANS AND EQUIPMENT ARE SPECIFIED IN THESE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL COMPLY WITH SECTION 108.06 LABOR, METHODS, AND EQUIPMENT OF THE "STANDARD SPECIFICATIONS."
3. CONTRACTOR WILL BE RESPONSIBLE TO COORDINATE WITH NEARBY RESIDENTS AND BUSINESSES DURING CONSTRUCTION. ACCESS FOR EMERGENCY VEHICLES MUST BE MAINTAINED ON SITE AT ALL TIMES. CONTRACTOR WILL BE RESPONSIBLE TO HOLD A PRE-CONSTRUCTION MEETING WITH VILLAGE STAFF PRIOR TO START OF SITE CONSTRUCTION.
NOTE: IN THE EVENT OF CONFLICTING INFORMATION, MWRD SPECIFICATIONS SHALL SUPERCEDE SPECIFICATIONS PROVIDED HEREIN.

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REVISIONS table with columns for date, description, and initials.

05/08/2024
ISSUE FOR PERMIT

PORTILLO'S HOT DOGS
PORTILLO'S - ORLAND PARK
20 ORLAND SQUARE DR.
ORLAND PARK, IL 60462

PROJ NO: 230210
ENG: SJS
DATE: 02/23/2024

SHEET TITLE
GENERAL NOTES AND SPECIFICATIONS

SHEET NUMBER
C0.1
2 OF 15

A. REFERENCED SPECIFICATIONS

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE FOLLOWING, EXCEPT AS MODIFIED HEREIN OR ON THE PLANS:
 * STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT SS) FOR ALL IMPROVEMENTS EXCEPT SANITARY SEWER AND WATER MAIN CONSTRUCTION;
 * STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION (SSWS) FOR SANITARY SEWER AND WATER MAIN CONSTRUCTION;
 * VILLAGE OF ORLAND PARK MUNICIPAL CODE;
 * THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO (MWRD) WATERSHED MANAGEMENT ORDINANCE AND TECHNICAL GUIDANCE MANUAL;
 * IN CASE OF CONFLICT BETWEEN THE APPLICABLE ORDINANCES NOTED, THE MORE STRINGENT SHALL TAKE PRECEDENCE AND SHALL CONTROL ALL CONSTRUCTION.

B. NOTIFICATIONS

- THE MWRD LOCAL SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK (CALL 708-588-4055 OR SEND EMAIL NOTIFICATION WITH PROJECT NAME, LOCATION AND PERMIT NUMBER TO WMOJOBSTART@MWRD.ORG).
- THE VILLAGE OF ORLAND PARK ENGINEERING DEPARTMENT AND PUBLIC MUST BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION AND PRIOR TO EACH PHASE OF WORK. CONTRACTOR SHALL DETERMINE ITEMS REQUIRING INSPECTION PRIOR TO START OF CONSTRUCTION OR EACH WORK PHASE.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION FOR THE EXACT LOCATIONS OF UTILITIES AND FOR THEIR PROTECTION DURING CONSTRUCTION. IF EXISTING UTILITIES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, IMMEDIATELY NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED. CALL J.U.L.I.E. AT 1-800-892-0123.

C. GENERAL NOTES

- ALL ELEVATIONS SHOWN ON PLANS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). CONVERSION FACTOR IS N/A FT.
- MWRD, THE MUNICIPALITY AND THE OWNER OR OWNER'S REPRESENTATIVE SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION IMPROVEMENTS.
- THE CONTRACTOR(S) SHALL INDEMNIFY THE OWNER, ENGINEER, MUNICIPALITY, MWRD, AND THEIR AGENTS, ETC., FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, OR TESTING OF THIS WORK ON THE PROJECT.
- THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY MWRD AND THE MUNICIPALITY UNLESS CHANGES ARE APPROVED BY MWRD, THE MUNICIPALITY, OR AUTHORIZED AGENT. THE CONSTRUCTION DETAILS, AS PRESENTED ON THE PLANS, MUST BE FOLLOWED. PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED ON THE IMPROVEMENTS INDICATED ON THE PLANS.
- THE LOCATION OF VARIOUS UNDERGROUND UTILITIES WHICH ARE SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND REPRESENT THE BEST KNOWLEDGE OF THE ENGINEER. VERIFY LOCATIONS AND ELEVATIONS PRIOR TO BEGINNING THE CONSTRUCTION OPERATIONS.
- ANY EXISTING PAVEMENT, SIDEWALK, DRIVEWAY, ETC., DAMAGED DURING CONSTRUCTION OPERATIONS AND NOT CALLED FOR TO BE REMOVED SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- MATERIAL AND COMPACTION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MUNICIPALITY, MWRD, AND OWNER.
- THE UNDERGROUND CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS TO NOTIFY ALL INSPECTION AGENCIES.
- ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS DISTURBED DURING CONSTRUCTION SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO FINAL INSPECTION.
- RECORD DRAWINGS SHALL BE KEPT BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER AS SOON AS UNDERGROUND IMPROVEMENTS ARE COMPLETED. FINAL PAYMENTS TO THE CONTRACTOR SHALL BE HELD UNTIL THEY ARE RECEIVED. ANY CHANGES IN LENGTH, LOCATION OR ALIGNMENT SHALL BE SHOWN IN RED. ALL WYES OR BENDS SHALL BE LOCATED FROM THE DOWNSTREAM MANHOLE. ALL VALVES, B-BOXES, TEES OR BENDS SHALL BE TIED TO A FIRE HYDRANT.

D. SANITARY SEWER

- THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT ANY POLLUTED WATER, SUCH AS GROUND AND SURFACE WATER, FROM ENTERING THE EXISTING SANITARY SEWERS.
- A WATER-TIGHT PLUG SHALL BE INSTALLED IN THE DOWNSTREAM SEWER PIPE AT THE POINT OF SEWER CONNECTION PRIOR TO COMMENCING ANY SEWER CONSTRUCTION. THE PLUG SHALL REMAIN IN PLACE UNTIL REMOVAL IS AUTHORIZED BY THE MUNICIPALITY AND/OR MWRD AFTER THE SEWERS HAVE BEEN TESTED AND ACCEPTED.
- DISCHARGING ANY UNPOLLUTED WATER INTO THE SANITARY SEWER SYSTEM FOR THE PURPOSE OF SEWER FLUSHING OF LINES FOR THE DEFLECTION TEST SHALL BE PROHIBITED WITHOUT PRIOR APPROVAL FROM THE MUNICIPALITY OR MWRD.
- ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (LATEST EDITION).
- ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.
- ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.
- ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA) SHALL CONFORM TO THE FOLLOWING:

PIPE MATERIAL	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
VITRIFIED CLAY PIPE	ASTM C-700	ASTM C-425
REINFORCED CONCRETE SEWER PIPE	ASTM C-76	ASTM C-443
CAST IRON SOIL PIPE	ASTM A-74	ASTM C-564
DUCTILE IRON PIPE	ANSI A21.51	ANSI A21.11
POLYVINYL CHLORIDE (PVC) PIPE 6-INCH TO 15-INCH DIAMETER SDR 26 18-INCH TO 27-INCH DIAMETER F/DY=46	ASTM D-3034 ASTM F-679	ASTM D-3212 ASTM D-3212
HIGH DENSITY POLYETHYLENE (HDPE) WATER MAIN QUALITY PVC 4-INCH TO 36-INCH 4-INCH TO 12-INCH 14-INCH TO 48-INCH	ASTM D-3350 ASTM D-3035 ASTM D-2241 AWWA C900 AWWA C905	ASTM D-3261, F-2620 (HEAT FUSION) ASTM D-3212, F-477 (GASKETED) ASTM D-3139 ASTM D-3139

THE FOLLOWING MATERIALS ARE ALLOWED ON A QUALIFIED BASIS SUBJECT TO DISTRICT REVIEW AND APPROVAL PRIOR TO PERMIT ISSUANCE. A SPECIAL CONDITION WILL BE ADDED TO THE PERMIT WHEN THE PIPE MATERIAL BELOW IS USED FOR SEWER CONSTRUCTION OR A CONNECTION IS MADE.

PIPE MATERIAL	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
POLYPROPYLENE (PP) PIPE 12-INCH TO 24-INCH DOUBLE WALL 30-INCH TO 60-INCH TRIPLE WALL	ASTM F-2736 ASTM F-2764	D-3212, F-477 D3212, F-477

- ALL SANITARY SEWER CONSTRUCTION (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS), REQUIRES STONE BEDDING WITH STONE 1/4" TO 1" IN SIZE, WITH MINIMUM BEDDING THICKNESS EQUAL TO 1/4 THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (4) INCHES NOR MORE THAN EIGHT (8) INCHES. MATERIAL SHALL BE CA-7, CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 12" ABOVE THE TOP OF THE PIPE WHEN USING PVC.
- NON-SHEAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR PIPE MATERIALS.
- ALL MANHOLES SHALL BE PROVIDED WITH BOLTED, WATERTIGHT COVERS. SANITARY LIDS SHALL BE CONSTRUCTED WITH A CONCEALED PICKHOLE AND WATERTIGHT GASKET WITH THE WORD "SANITARY" CAST INTO THE LID.
- WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:
 a) A CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SEWER-TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUBWYE SADDLE OR HUB-TEE SADDLE.
 b) REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
 c) WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING "BAND SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE.
- WHENEVER A SANITARY/COMBINED SEWER CROSSES UNDER A WATERMAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED SEWERS AND WATERMANS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATERMAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATER MAIN, THE SEWER SHALL BE CONSTRUCTED TO WATER MAIN STANDARDS OR IT SHALL BE ENCASED WITH A WATER MAIN QUALITY CARRIER PIPE WITH THE ENDS SEALED.
- ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.
- ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED CONCRETE.
- ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE PRECAST "RUBBER BOOTS" THAT CONFORM TO ASTM C-923 FOR ALL PIPE CONNECTIONS. PRECAST SECTIONS SHALL CONSIST OF MODIFIED GROOVE TONGUE AND RUBBER GASKET TYPE JOINTS.
- ALL ABANDONED SANITARY SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST 2 FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUG.
- EXCEPT FOR FOUNDATION/FOOTING DRAINS PROVIDED TO PROTECT BUILDINGS, OR PERFORATED PIPES ASSOCIATED WITH VOLUME CONTROL FACILITIES, DRAIN TILES/FIELD TILES/UNDERDRAINS/PERFORATED PIPES ARE NOT ALLOWED TO BE CONNECTED TO OR TRIBUTARY TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS IN COMBINED SEWER AREAS. CONSTRUCTION OF NEW FACILITIES OF THIS TYPE IS PROHIBITED; AND ALL EXISTING DRAIN TILES AND PERFORATED PIPES ENCOUNTERED WITHIN THE PROJECT AREA SHALL BE PLUGGED OR REMOVED, AND SHALL NOT BE CONNECTED TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS.
- A BACKFLOW PREVENTER IS REQUIRED FOR ALL DETENTION BASINS TRIBUTARY TO COMBINED SEWERS. REQUIRED BACKFLOW PREVENTERS SHALL BE INSPECTED AND EXERCISED ANNUALLY BY THE PROPERTY OWNER TO ENSURE PROPER OPERATION, AND ANY NECESSARY MAINTENANCES SHALL BE PERFORMED TO ENSURE FUNCTIONALITY. IN THE EVENT OF A SEWER SURCHARGE INTO AN OPEN DETENTION BASIN TRIBUTARY TO COMBINED SEWERS, THE PERMITTEE SHALL ENSURE THAT CLEAN UP AND WASH OUT OF SEWAGE TAKES PLACE WITHIN 48 HOURS OF THE STORM EVENT.

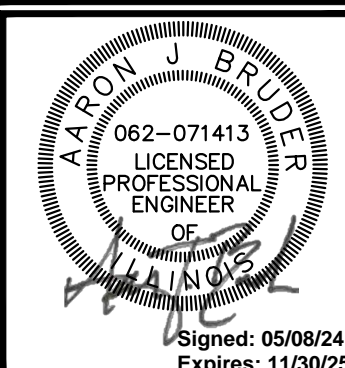
E. EROSION AND SEDIMENT CONTROL

- THE CONTRACTOR SHALL INSTALL THE EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
- EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL PRIOR TO HYDROLOGIC DISTURBANCE OF THE SITE.
- ALL DESIGN CRITERIA, SPECIFICATIONS, AND INSTALLATION OF EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.
- A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:
 a) UPON COMPLETION OF INITIAL EROSION AND SEDIMENT CONTROL MEASURES, PRIOR TO ANY SOIL DISTURBANCE.
 b) ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.
- SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE CO-PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.
- A STABILIZED MAT OF CRUSHED STONE MEETING THE STANDARDS OF THE ILLINOIS URBAN MANUAL SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
- CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL AND SHALL BE INSTALLED PRIOR TO ANY ON SITE CONSTRUCTION ACTIVITIES INVOLVING CONCRETE.
- MORTAR WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ADDITION TO CONCRETE WASHOUT FACILITIES FOR ANY BRICK AND MORTAR BUILDING ENVELOPE CONSTRUCTION ACTIVITIES.
- TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN. VOLUME CONTROL FACILITIES SHALL NOT BE USED AS TEMPORARY SEDIMENT BASINS.
- DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) DAYS.
- ALL FLOOD PROTECTION AREAS AND VOLUME CONTROL FACILITIES SHALL, AT A MINIMUM, BE PROTECTED WITH A DOUBLE-ROW OF SILT FENCE (OR EQUIVALENT).
- VOLUME CONTROL FACILITIES SHALL NOT BE CONSTRUCTED UNTIL ALL OF THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
- SOIL STOCKPILES SHALL, AT A MINIMUM, BE PROTECTED WITH PERIMETER SEDIMENT CONTROLS. SOIL STOCKPILES SHALL NOT BE PLACED IN FLOOD PROTECTION AREAS OR THEIR BUFFERS.
- EARTHEN BANKMENT SIDE SLOPES SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL BLANKET.
- STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY APPROPRIATE SEDIMENT CONTROL MEASURES.
- THE CONTRACTOR SHALL EITHER REMOVE OR REPLACE ANY EXISTING DRAIN TILES AND INCORPORATE THEM INTO THE DRAINAGE PLAN FOR THE DEVELOPMENT. DRAIN TILES CANNOT BE TRIBUTARY TO A SANITARY OR COMBINED SEWER. DRAIN TILES ALLOWED IN COMBINED SEWER AREA FOR GREEN INFRASTRUCTURE PRACTICES.
- IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE SITE INSPECTOR MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCH DEWATERING AND EXCAVATION FOR THE INSTALLATION OF SANITARY SEWERS, STORM SEWERS, WATERMANS AS WELL AS THEIR SERVICES AND OTHER APPURTENANCES. ANY TRENCH DEWATERING, WHICH CONTAINS SEDIMENT SHALL PASS THROUGH A SEDIMENT SETTLING POND OR EQUALLY EFFECTIVE SEDIMENT CONTROL DEVICE. ALTERNATIVES MAY INCLUDE DEWATERING INTO A SUMP PIT, FILTER BAG OR EXISTING VEGETATED UPSLOPE AREA. SEDIMENT LADEN WATERS SHALL NOT BE DISCHARGE TO WATERWAYS, FLOOD PROTECTION AREAS OR THE COMBINED SEWER SYSTEM.
- ALL PERMANENT EROSION CONTROL PRACTICES SHALL BE INITIATED WITHIN SEVEN (7) DAYS FOLLOWING THE COMPLETION OF SOIL DISTURBING ACTIVITIES.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED ON A YEAR-ROUND BASIS DURING CONSTRUCTION AND ANY PERIODS OF CONSTRUCTION SHUTDOWN UNTIL PERMANENT STABILIZATION IS ACHIEVED.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER PERMANENT SITE STABILIZATION.
- THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, SITE INSPECTOR, OR MWRD.

TECHNICAL GUIDANCE MANUAL
MWRD GENERAL NOTES

10/13/2022
STD. DWG. NO.18
PAGE NO. 19

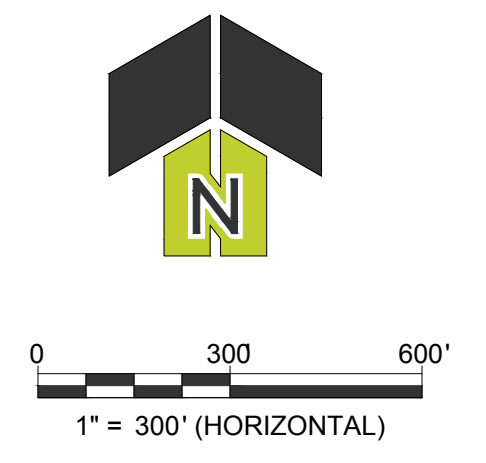
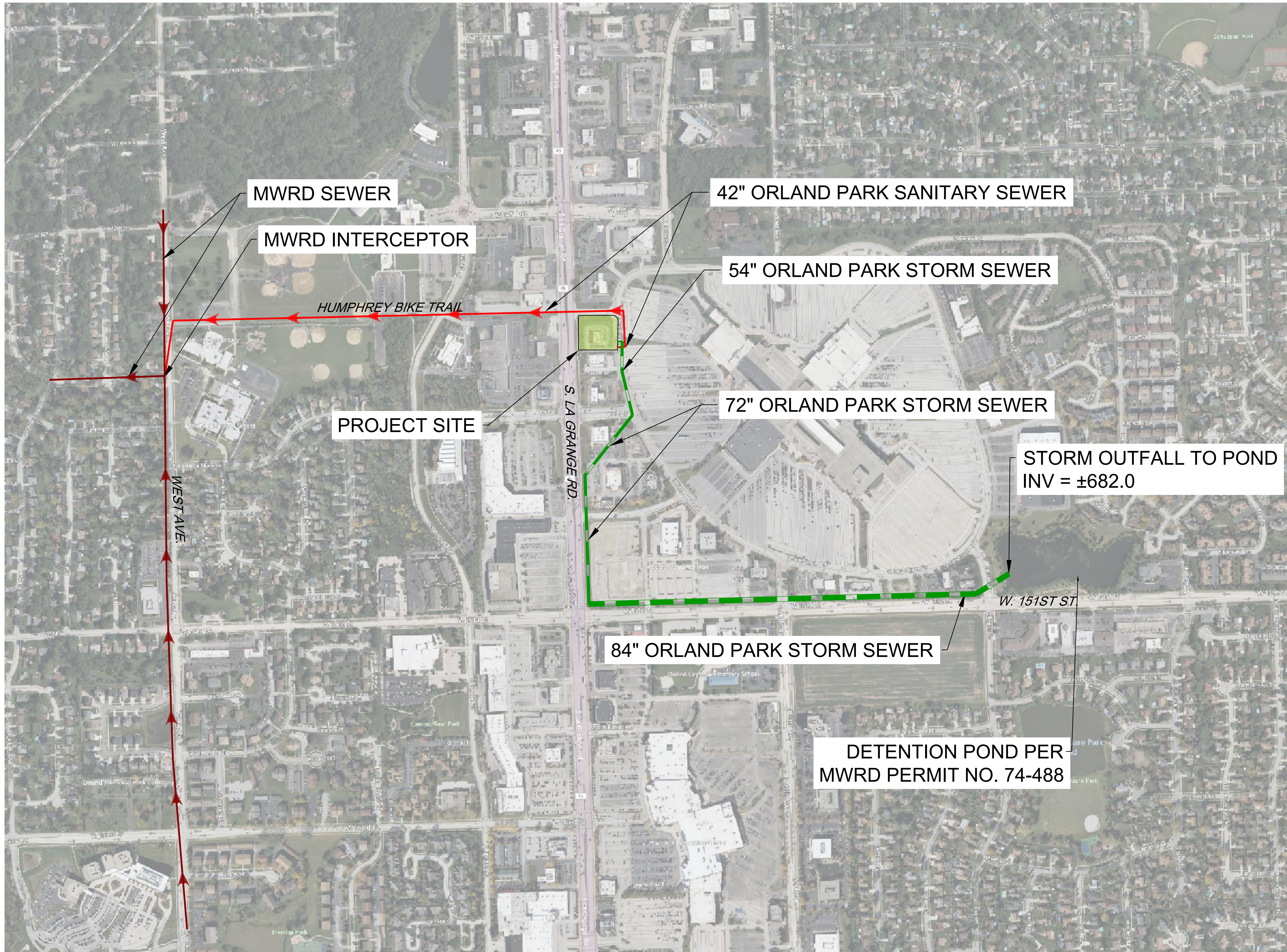
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REVISIONS

PORTILLO'S HOT DOGS
PORTILLO'S - ORLAND PARK
20 ORLAND SQUARE DR.
ORLAND PARK, IL 60462

PROJ NO: 230210
ENG: SJS
DATE: 02/23/2024
SHEET TITLE
MWRD GENERAL NOTES & SPECIFICATIONS
SHEET NUMBER
C0.2
3 OF 15



2200 CABOT DRIVE
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CAGE
CIVIL ENGINEERING

AARON J. BRIDEX
LICENSED PROFESSIONAL ENGINEER
No. 121102
Signed: 05/08/24
Expires: 11/30/25

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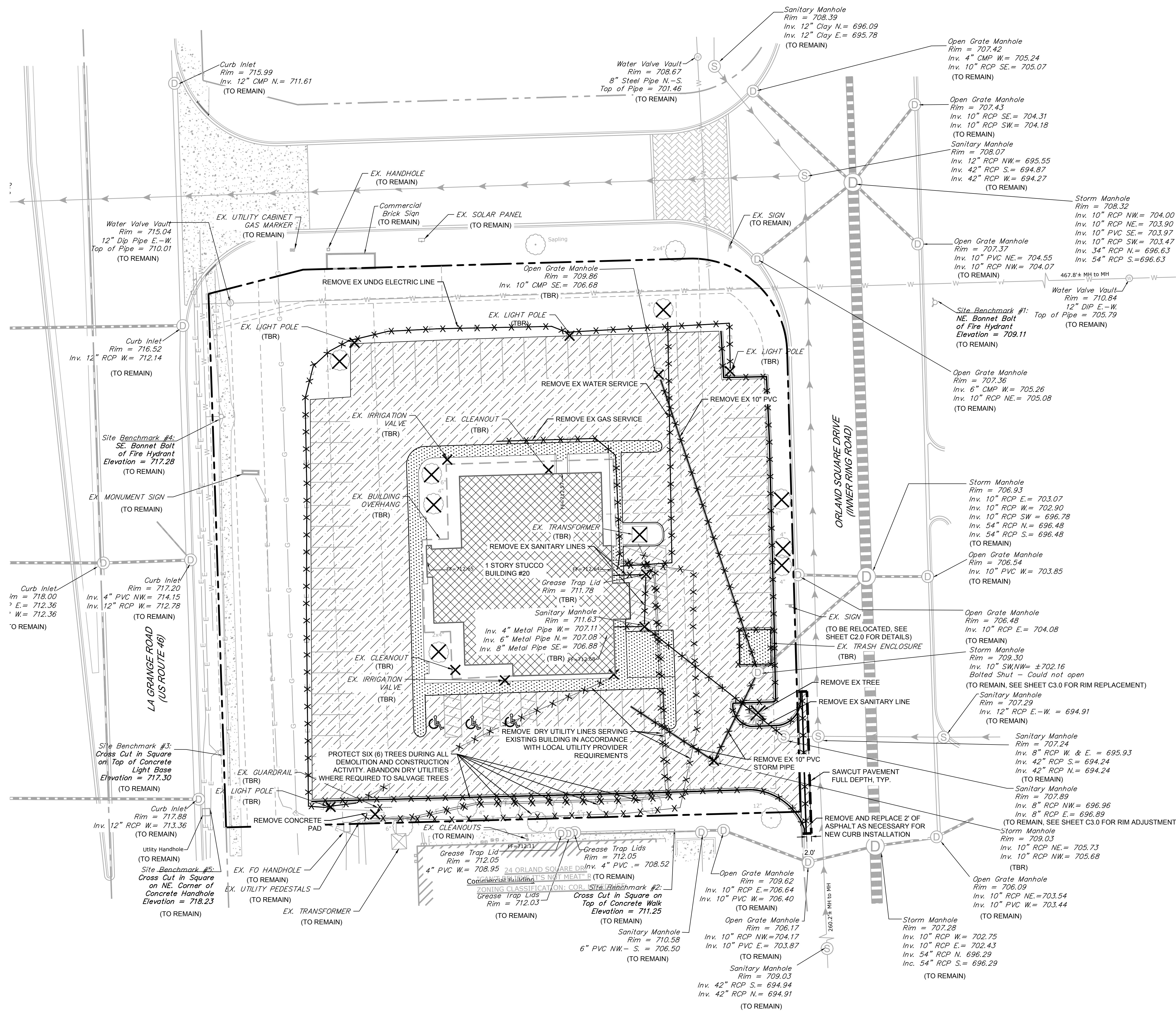
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PORTILLO'S HOT DOGS
PORTILLO'S - ORLAND PARK
20 ORLAND SQUARE DR
ORLAND PARK, IL 60462

PROJ NO: 230210
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DATE: 02/23/2024

SHEET TITLE
UTILITY ROUTING MAP

SHEET NUMBER
C0.3
4 OF 15



DEMOLITION LEGEND

	BUILDING DEMOLITION
	ASPHALT PAVEMENT REMOVAL, FULL DEPTH
	CONCRETE PAVEMENT / SIDEWALK REMOVAL, FULL DEPTH
	SAWCUT PAVEMENT, FULL DEPTH
	CURB & GUTTER REMOVAL
	UTILITY REMOVAL
	TREE/BUSH REMOVAL
	UTILITY STRUCTURE REMOVAL
	(TBR) TO BE REMOVED

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AARON J. BRIDEX
LICENSED PROFESSIONAL ENGINEER
No. 121902
Signed: 05/08/24
Expires: 11/30/25

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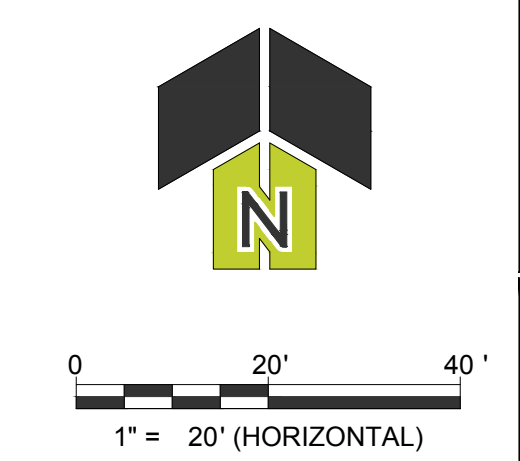
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PORTELLO'S HOT DOGS
PORTELLO'S - ORLAND PARK
20 ORLAND SQUARE DR.
ORLAND PARK, IL 60462

PROJ NO: 230210
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SHEET TITLE
EXISTING CONDITIONS & DEMOLITION PLAN

SHEET NUMBER
C1.0
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PAVING LEGEND

	STANDARD DUTY ASPHALT PAVEMENT
	HEAVY DUTY CONCRETE PAVEMENT
	PCC SIDEWALK
	DETECTABLE WARNING TILE
	CURB & GUTTER
	BARRIER CURB
	REVERSE PITCH CURB & GUTTER
	DEPRESSED CURB & GUTTER

- SHEET NOTES:**
- ALL DIMENSIONS ARE TO BE TAKEN FROM THE FACE OF CURB (FLOWLINE).
 - ALL CURB RADII ARE TO BE TAKEN FROM THE BACK OF CURB.

SITE SUMMARY

PROPOSED & EXISTING ZONING
 • COR, MIXED USE (COMMERCIAL, OFFICE, RESIDENTIAL)

LOT AREA = 55,768 SF = 1.280 AC
 NUMBER OF LOTS = 1 LOT
 NUMBER OF BUILDINGS = 1 BUILDING

BUILDING AREA = 6,970 SF
 PRINCIPAL PORTILLO'S BUILDING AREA = 3,730 SF
 DRIVE THRU WINDOW OVERHANG CANOPY AREA = 1,783 SF
 EMPLOYEE CANOPY AREA = 773 SF
 REMOTE GARBAGE ENCLOSURE AREA = 684 SF
 TOTAL BUILDING AREA = 6,970 SF

TOTAL PERVIOUS AREA = 20,973 SF = 0.481 AC (38%)
 TOTAL IMPERVIOUS AREA = 34,795 SF = 0.799 AC (62%)
 FLOOR AREA RATIO = 0.07
 LOT COVERAGE = 62%

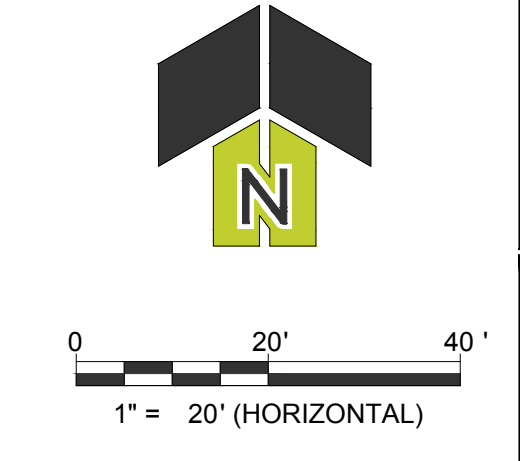
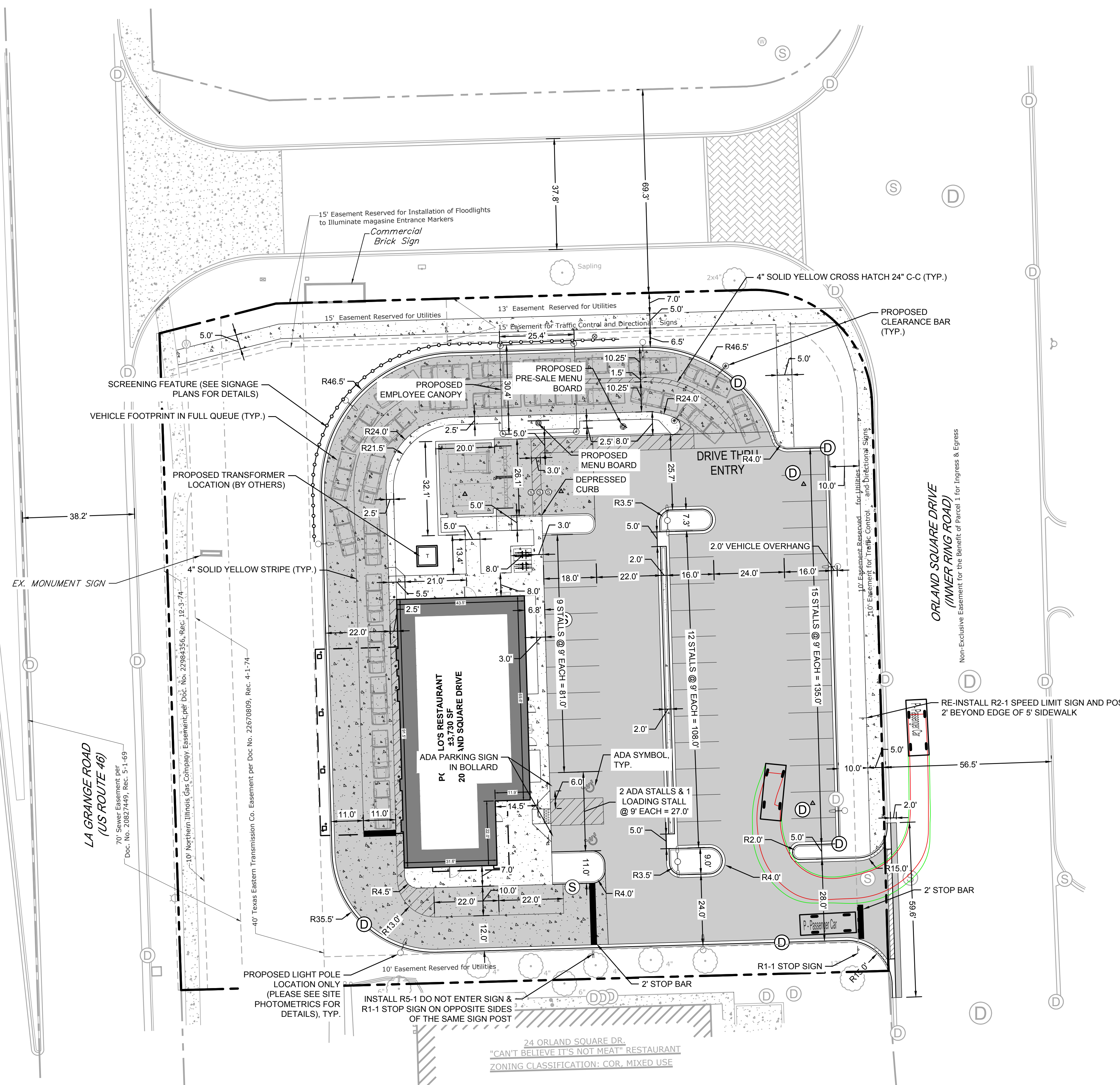
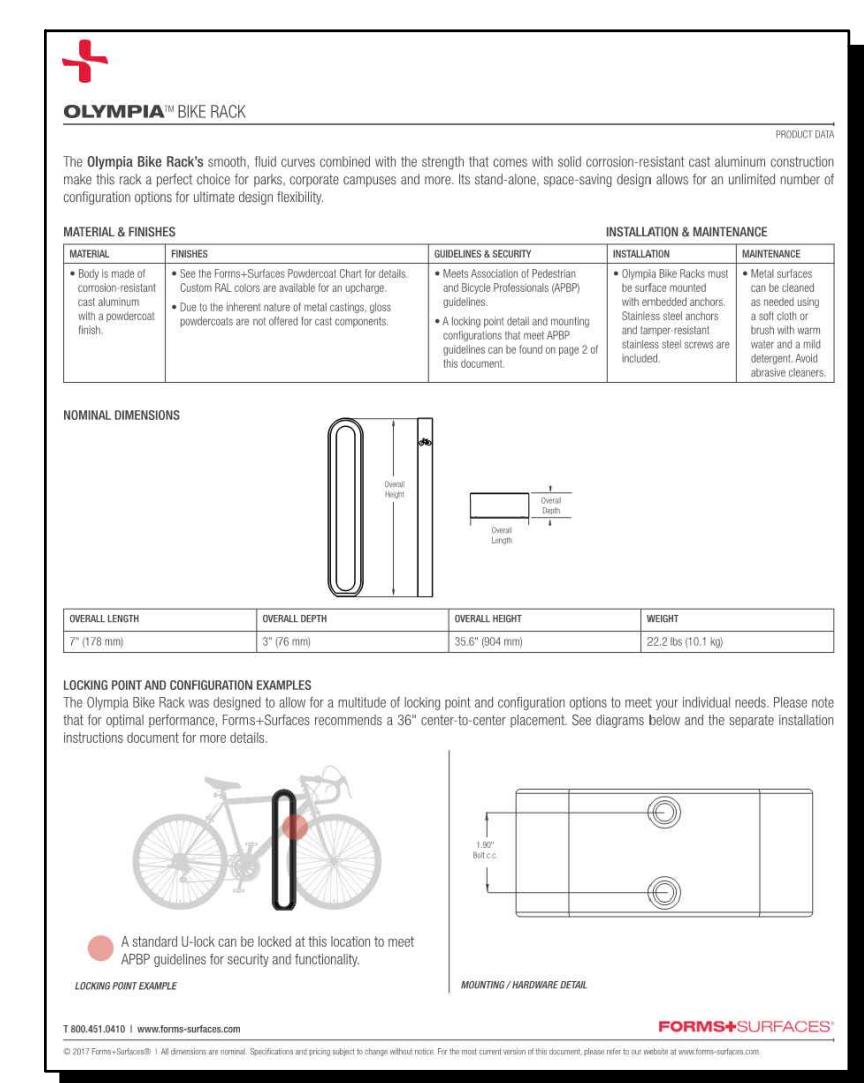
PARKING SUMMARY

REQUIRED PARKING = 1 STALL / 100 SF = 3,730 SF / 10 = 37 STALLS
 REQUIRED ADA STALLS = 2 STALLS
 PROVIDED PARKING = 38 STALLS
 PROVIDED ADA STALLS = 2 STALLS
 TOTAL PROVIDED STALLS = 38 STALLS

REQUIRED BICYCLE PARKING = 3 SPACES
 PROVIDED BICYCLE PARKING = 4 SPACES (2 BIKE RACKS)

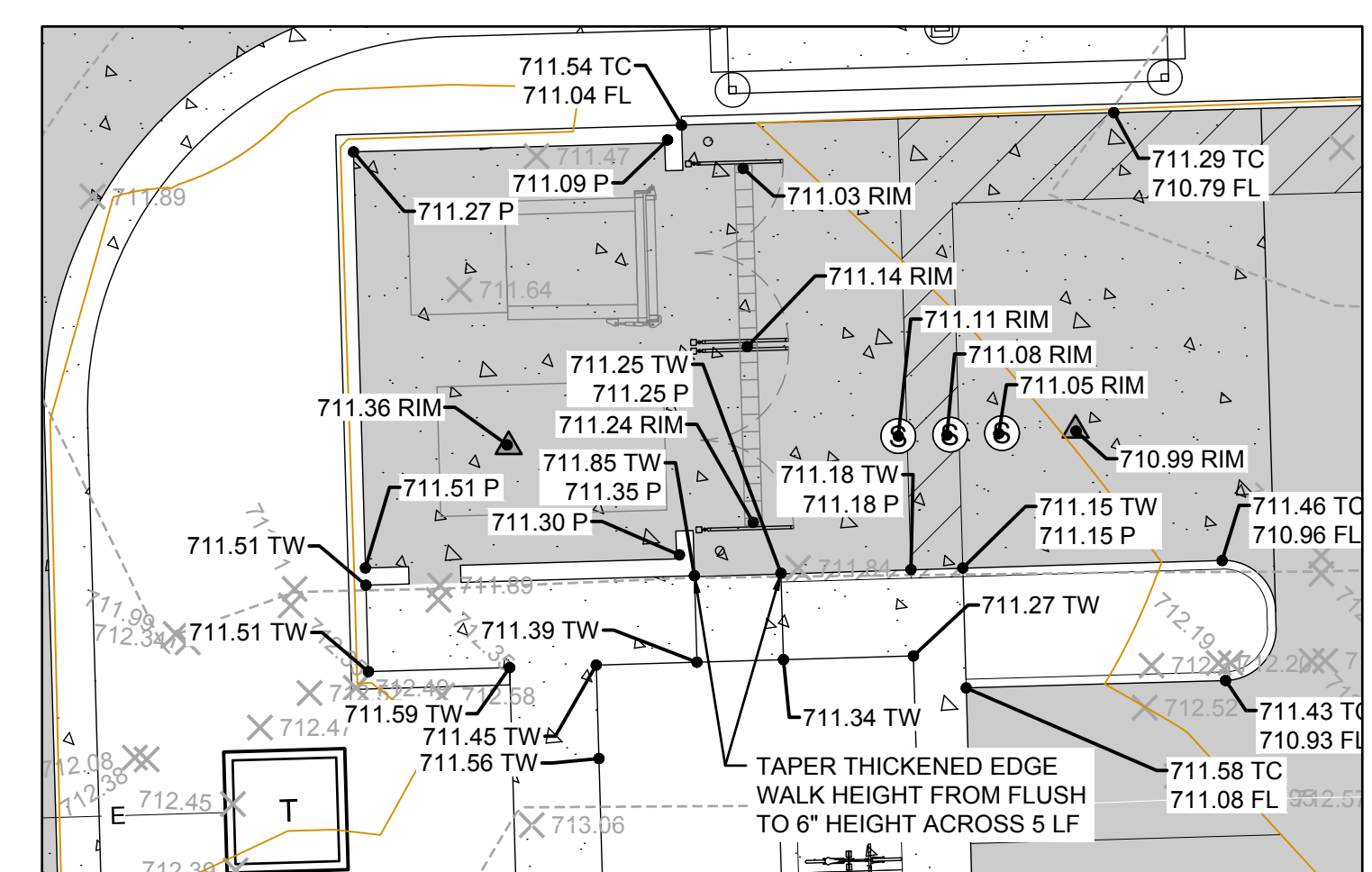
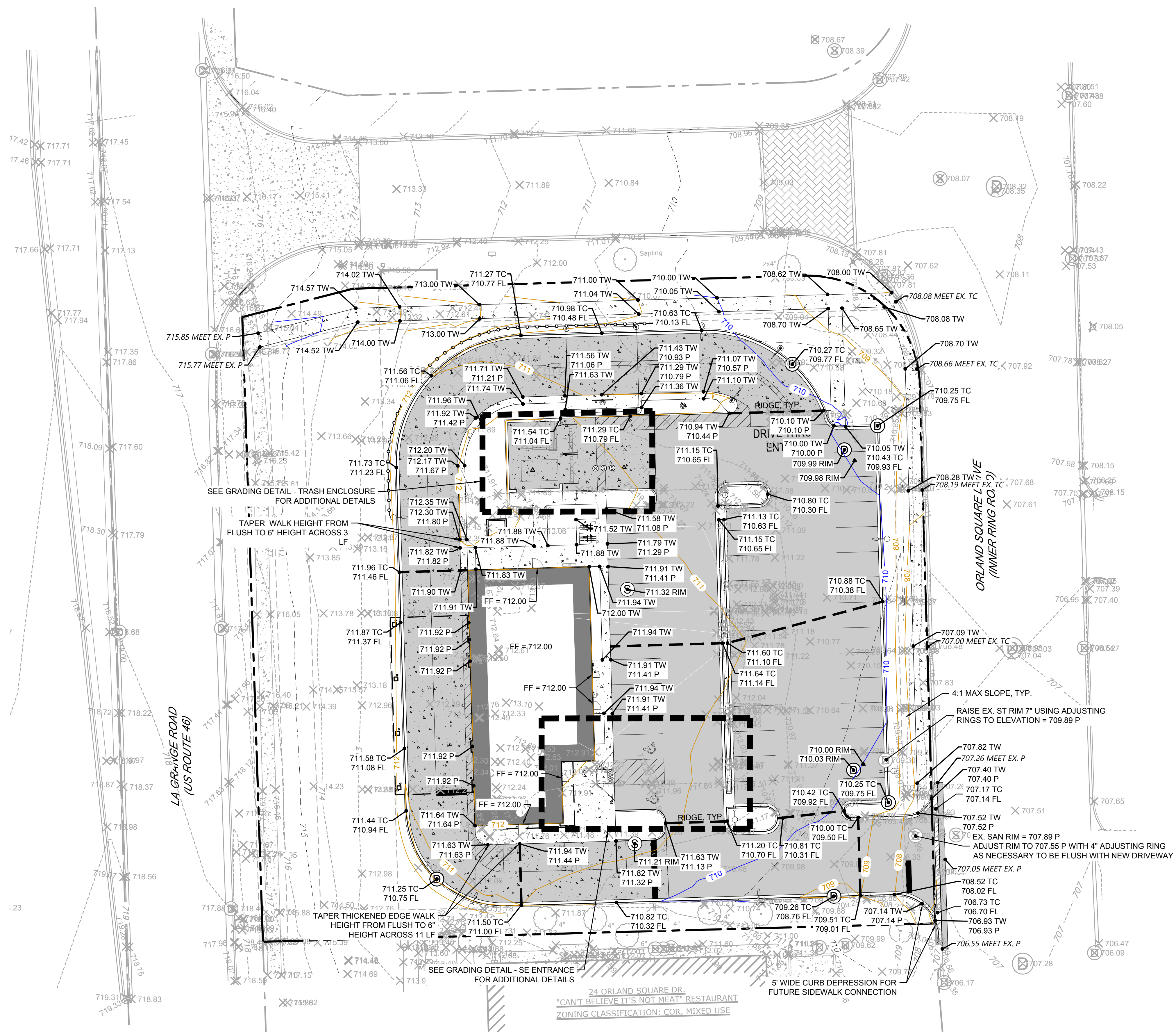
BUILDING SETBACKS

	ACTUAL	REQUIRED
FRONT (NORTH) =	48.5'	25'
SIDE (EAST) =	120.3'	25'
SIDE (SOUTH) =	39.5'	15'
REAR (WEST) =	49.5'	25'

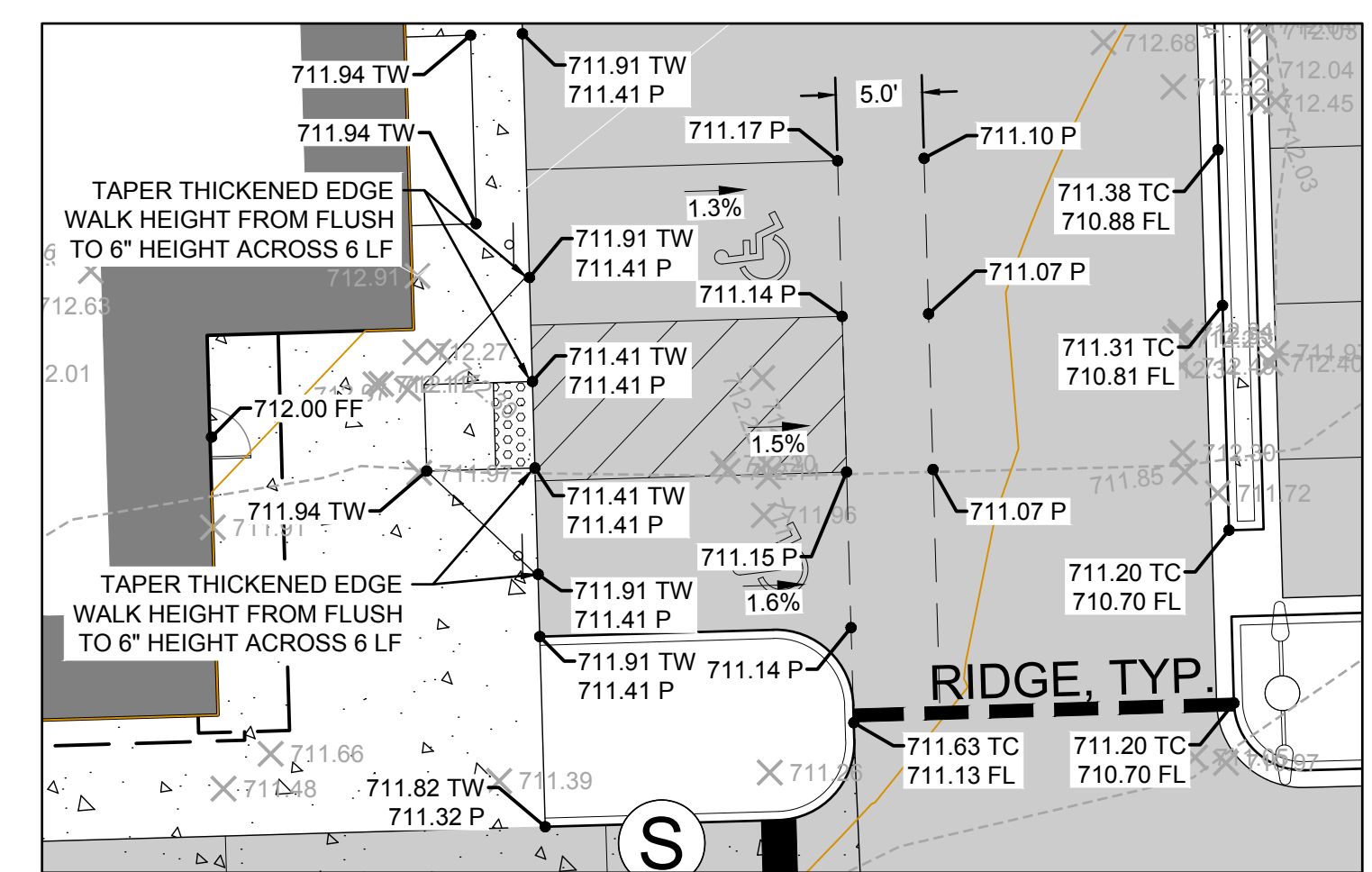


PROPOSED LEGEND

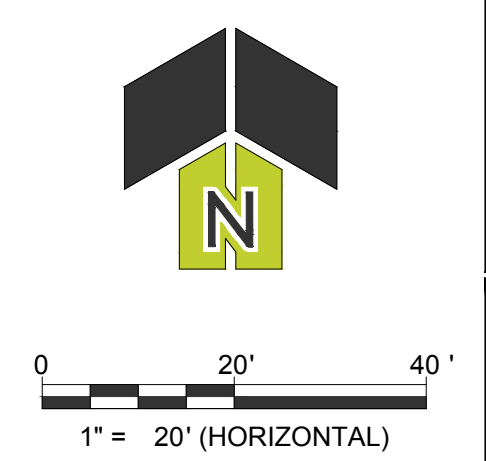
- 100.00 TW TOP OF SIDEWALK GRADE
- 100.00 TC TOP OF CURB GRADE
- 100.00 P PAVEMENT GRADE
- 100.0 G GROUND SURFACE GRADE
- 100 MAJOR CONTOUR
- 100 MINOR CONTOUR



GRADING DETAIL - TRASH ENCLOSURE
SCALE: 1" = 10'



GRADING DETAIL - SE ENTRANCE
SCALE: 1" = 10'



2200 CABOT DRIVE
SUITE 325
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ARON J. BRIDEN
062-071413
LICENSED PROFESSIONAL ENGINEER
STATE OF ILLINOIS
No. 121102
Signed: 05/08/24
Expires: 11/30/25

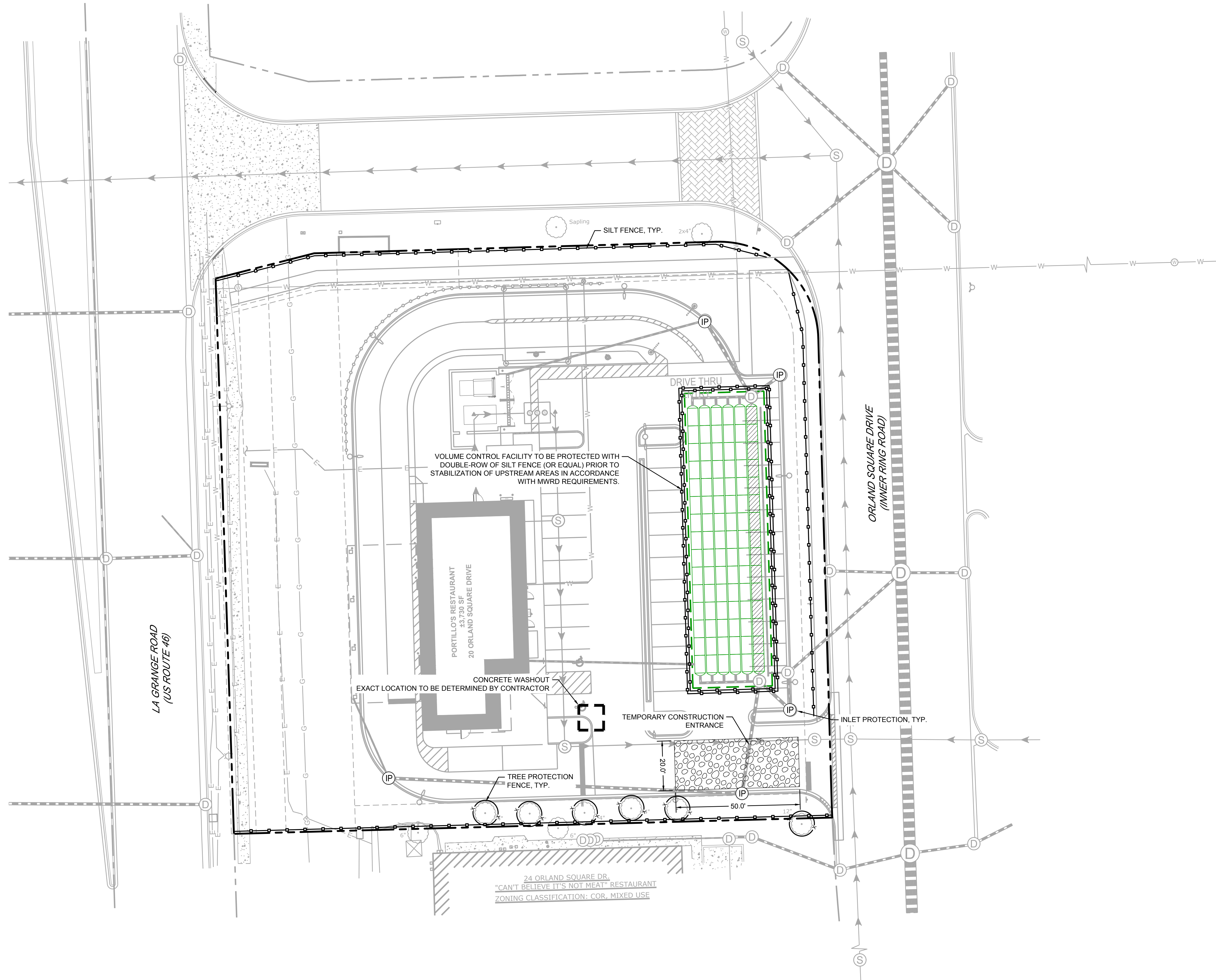
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NO.	DATE	DESCRIPTION

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PORTELLO'S HOT DOGS
PORTELLO'S - ORLAND PARK
20 ORLAND SQUARE DR.
ORLAND PARK, IL 60462

PROJ NO: 230210
ENG: SJS
DATE: 02/23/2024
SHEET TITLE
SITE GRADING PLAN
SHEET NUMBER
C3.0
7 OF 15



SESC LEGEND

- SILT FENCE
- TREE PROTECTION FENCE
- TEMPORARY CONSTRUCTION ENTRANCE
- INLET PROTECTION FILTER BASKET
- CONCRETE WASHOUT

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AARON J. BRIDEX
 LICENSED PROFESSIONAL ENGINEER
 OF ILLINOIS
 No. 119025
 Signed: 05/08/24
 Expires: 11/30/25

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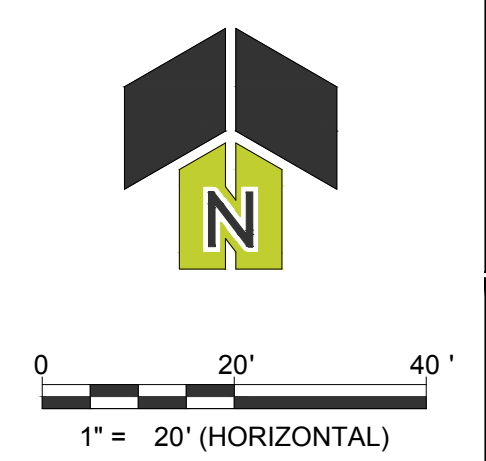
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 20 ORLAND SQUARE DR.
 ORLAND PARK, IL 60462

PROJ NO: 230210
 ENG: SJS
 DATE: 02/23/2024

SHEET TITLE
SOIL EROSION & SEDIMENT CONTROL PLAN

SHEET NUMBER
C4.0
 8 OF 15



FLEXSTORM CATCH-IT FILTERS FOR TEMPORARY INLET PROTECTION
PRODUCT SELECTION AND SPECIFICATION DRAWING

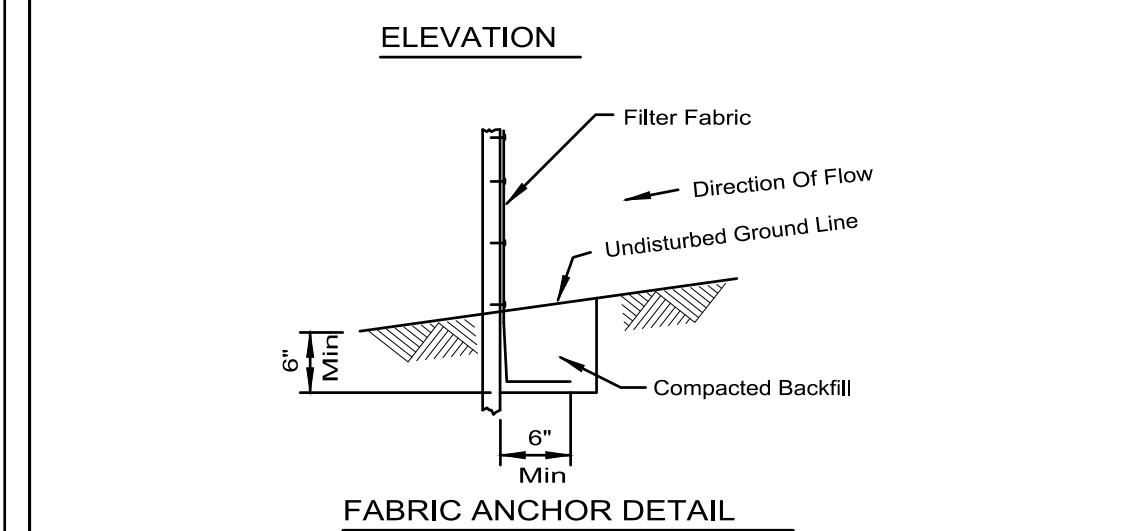
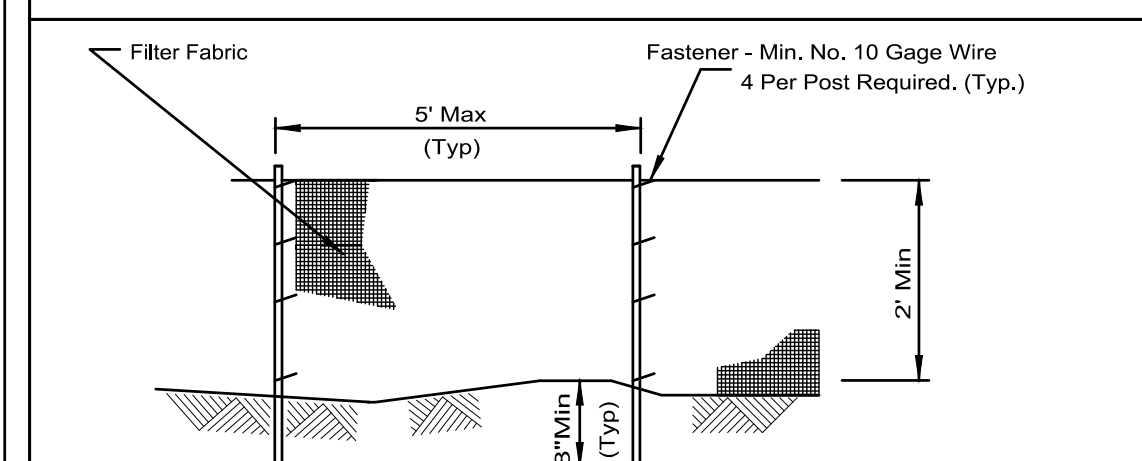
FLEXSTORM CATCH-IT INLET FILTERS FOR ROUND OPENINGS							FLEXSTORM CATCH-IT INLET FILTERS FOR SQUARE/RECTANGULAR OPENINGS								
IDOT Mandat	Headwall Casting	East Joint Casting	Inlet Type	Grate Size	Bag Cap (ft)	Flow Rating (CFS)	ADS PIN	IDOT Mandat	Headwall Casting	East Joint Casting	Inlet Type	Grate Size	Bag Cap (ft)	Flow Rating (CFS)	ADS PIN
1	1713, 1712, 1712, 2094, 2435, 2425	1026, 1022, 1050, 1058	Round (RC)	22.25 x 23.5	1.9	1.3	6MRDLT1	2	R-3501-L2-A	7170, 7171	Round Cub (RC)	22.25 x 16.25	1.6	0.6	62MSQIL216
3	R3275-A, R-3501-A	7220, 7221	Curb Box (CB)	22.0 x 16.9	1.5	1.0	62MCSBLT3	4	R3443-B	5150	SquareRect (SR)	21.75 x 15.75	1.5	1.0	62MSQIL
6	R3502-A	7235	Round Cub (RC)	22 x 22.75	2.3	1.2	62MSQILT6	8	2501, 4349-C, 4352, 4351	2830, 2870, 6527	Round (RD)	26.00 x 26.00	2.3	1.6	62MSQILT8
9	R3508-A2	7300	V-Grate	19.25 x 19.25	1.7	1.0	62MSQIL	10	R3508-A2	7300	V-Grate	19.25 x 19.25	1.7	1.0	62MSQIL
11	R3281-A	7210	Curb Box (CB)	28.75 x 17.25	2.5	1.3	62MCSBLT11	12	R3503-B	7160	Round Cub (RC)	22.5 x 22.5	2.4	1.2	62MSQIL
20	R3526-V, R3529-V	7330, 5388, 7330 (D grt)	SquareRect (SR)	22.5 x 22.5	2.4	1.2	62MSQILT20	21	R3527-V	7640	Curb Box (CB)	24 x 16.25	1.8	1.1	62MCSBL
23	R3525-L	7464	SquareRect (SR)	24 x 22.25	2.7	1.3	62MSQILT23	24	R3526-L	7467	SquareRect (SR)	25.75 x 18.75	2.3	1.2	62MSQILT24
31	...	7250	Round Cub (RC)	22.75 x 22.4	2.5	1.2	62MSQIL	8	R3455C	...	SquareRect (SR)	36 x 24	4.6	1.7	62MSQIL
G304	R-3501-UJ	7545	Single V-Trap	13.75 x 20.2 x 29.2	1.3	0.9	62MCSBLG3	N/A	R-3501-P	7525	Round Cub (RC)	25.7 x 19	2.4	1.2	62MSQIL3501-P
	R-3501-TR	7495	Round Cub (RC)	26 x 23.5	3.1	1.4	62MSQIL3501-TR								

*FLOW RATINGS SHOWN ARE 50% MAXIMUM

INSTALLATION:
1. REMOVE GRATE.
2. DROP FLEXSTORM INLET FILTER ONTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE.
3. REPLACE GRATE.
4. ALL FRAMING IS CONSTRUCTED OF CORROSION RESISTANT STEEL FRAMING FOR PROLONGED PRODUCT LIFE.
5. TOTAL BYPASS CAPACITY WILL VARY WITH EACH SIZED DRAINAGE STRUCTURE. FLEXSTORM DESIGNS FRAMING BYPASS TO MEET OR EXCEED THE DESIGN FLOW OF THE PARTICULAR DRAINAGE STRUCTURE. CONCRETE STRUCTURES MAY REQUIRE ADDITIONAL REVIEW.
6. UPON ORDERING THE ADS PIN CONFIRMATION OF THE DOT CALLOUT, FLEXSTORM ITEM CODE, CASTING NAME AND MODEL, OR DETAILED DIMENSIONAL FORMS MUST BE PROVIDED.
7. FOR WRITTEN SPECIFICATIONS AND MAINTENANCE GUIDELINES VISIT WWW.INLETFILTERS.COM

ALL PRODUCTS MANUFACTURED BY INLET & PIPES PROTECTION, INC. A DIVISION OF ADS, INC. WWW.INLETFILTERS.COM (866) 257-8655 FAX (830) 355-3477 FAX INFO@INLETFILTERS.COM

SILT FENCE PLAN



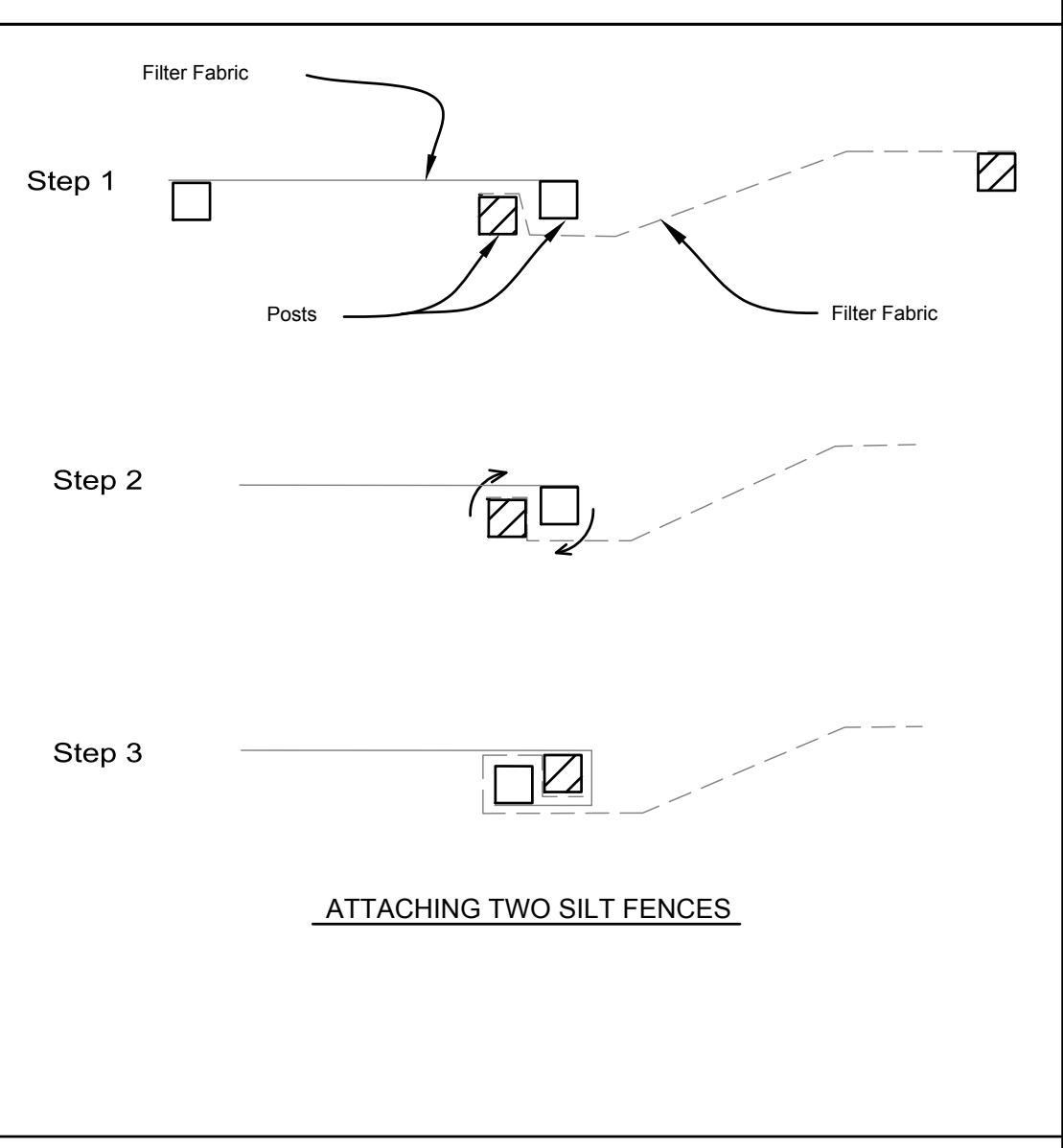
NOTES:

1. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class II with equivalent opening size of at least 30 for nonwoven and 40 for woven.
3. Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 3.0 sq. in.

REFERENCE: Project _____ Date _____
Designed _____ Date _____
Checked _____ Date _____
Approved _____ Date _____

STANDARD DWG. NO. IUM-620
SHEET 1 OF 2
DATE 3-16-12

SILT FENCE - SPLICING TWO FENCES

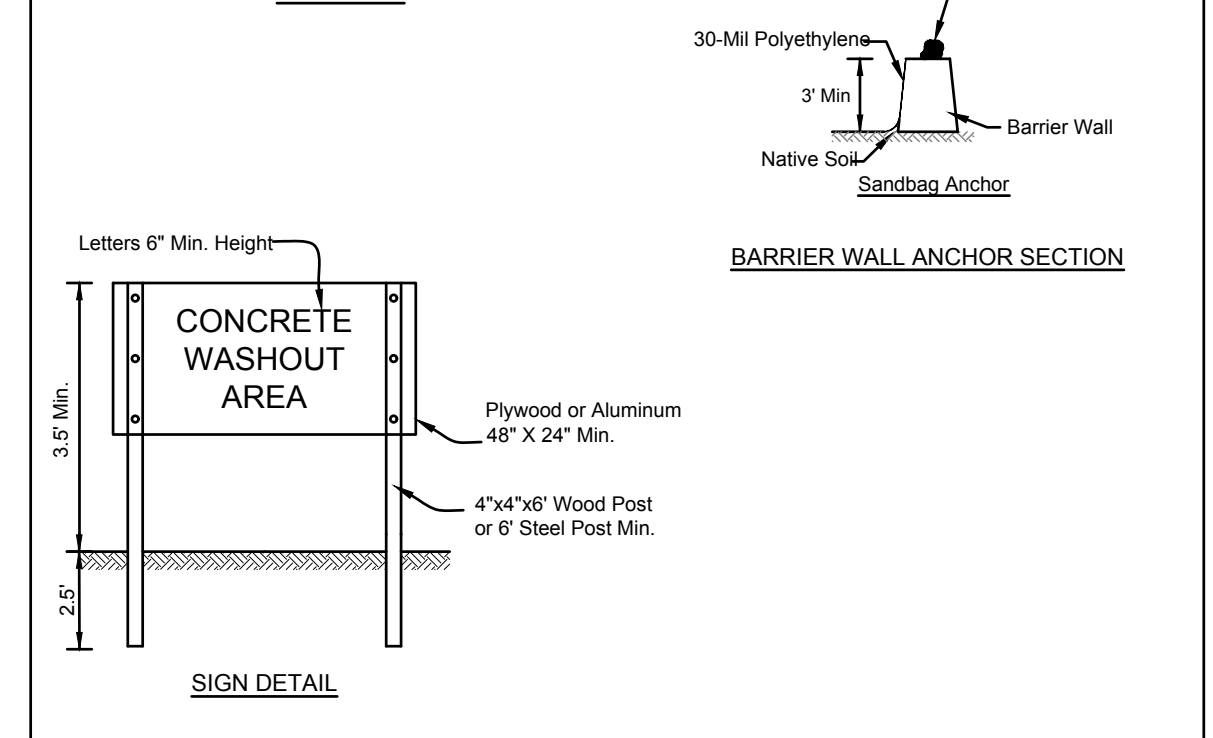
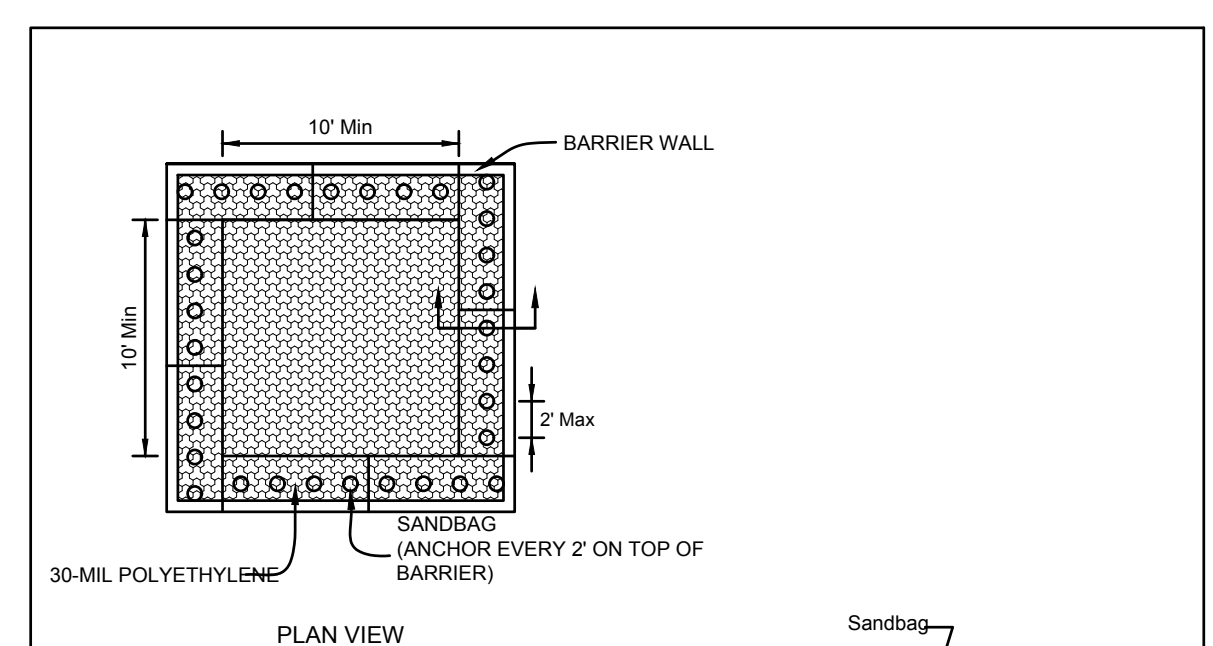


ATTACHING TWO SILT FENCES

1. Place the end post of the second fence inside the end post of the first fence.
2. Rotate both posts at least 180 degrees in a clockwise direction to create a tight seal with the fabric material.
3. Cut the fabric near the bottom of the stakes to accommodate the 6" flap.
4. Drive both posts a minimum of 18 inches into the ground and bury the flap.
5. Compact backfill (particularly at splices) completely to prevent stormwater piping.

REFERENCE: Project _____ Date _____
Designed _____ Date _____
Checked _____ Date _____
Approved _____ Date _____

STANDARD DWG. NO. IUM-620B(W)
SHEET 1 OF 1
DATE 3-16-2012



CONCRETE WASHOUT AREA

SIGN DETAIL

NOTES:

1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardened concrete and/or slurry and returning the facilities to a functional condition.
2. Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.

TEMPORARY CONCRETE WASHOUT FACILITY - BARRIER WALL

REFERENCE: Project _____ Date _____
Designed _____ Date _____
Checked _____ Date _____
Approved _____ Date _____

STANDARD DWG. NO. IUM-620B(W)
SHEET 1 OF 1
DATE 3-16-2012

INLET PROTECTION DETAIL

Scale: NOT TO SCALE

NOTES:

1. The fence shall be located a minimum of 1 foot outside the drip line of the tree to be saved and in no case closer than 5 feet to the trunk of any tree.
2. Fence posts shall be either standard steel posts or wood posts with a minimum cross sectional area of 3.0 sq. in.
3. The fence may be either 40" high snow fence, 40" plastic web fencing or any other material as approved by the engineer/inspector.

REFERENCE: Project _____ Date _____
Designed _____ Date _____
Checked _____ Date _____
Approved _____ Date _____

STANDARD DWG. NO. IL-690
SHEET 1 OF 1
DATE 4-7-04

NRCS
Natural Resource Conservation Service

TREE PROTECTION FENCE DETAIL

SILT FENCE DETAIL

Scale: NOT TO SCALE

NOTES:

1. Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table 1 or 2, Class I, II or IV and shall be placed over the cleared area prior to the placing of rock.
2. Stone shall meet one of the following IDOT coarse aggregate gradations, CA-1, CA-2, CA-3, or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
3. Minimum width is 14 feet for one-way traffic and 20 feet for two-way traffic. Two-way traffic widths shall be increased a minimum of 4 feet for trailer traffic. Depending on the type of vehicle or equipment, speed, loads, climatic and other conditions under which vehicles and equipment operate an increase in the minimum widths may be required.
4. Roadway shall follow the contour of the natural terrain to the extent possible.
5. See plans for construction road location, D and W dimensions.

REFERENCE: Project _____ Date _____
Designed _____ Date _____
Checked _____ Date _____
Approved _____ Date _____

STANDARD DWG. NO. IL-506
SHEET 1 OF 1
DATE 1-29-99

NRCS
Natural Resource Conservation Service

CONSTRUCTION ROAD STABILIZATION DETAIL

CONCRETE WASHOUT DETAIL

Scale: NOT TO SCALE

REVISIONS

05/08/2024
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20 ORLAND SQUARE DR.
ORLAND PARK, IL 60462

PROJ NO: 230210
ENG: SJS
DATE: 02/23/2024

SHEET TITLE
SOIL EROSION & SEDIMENT CONTROL DETAILS

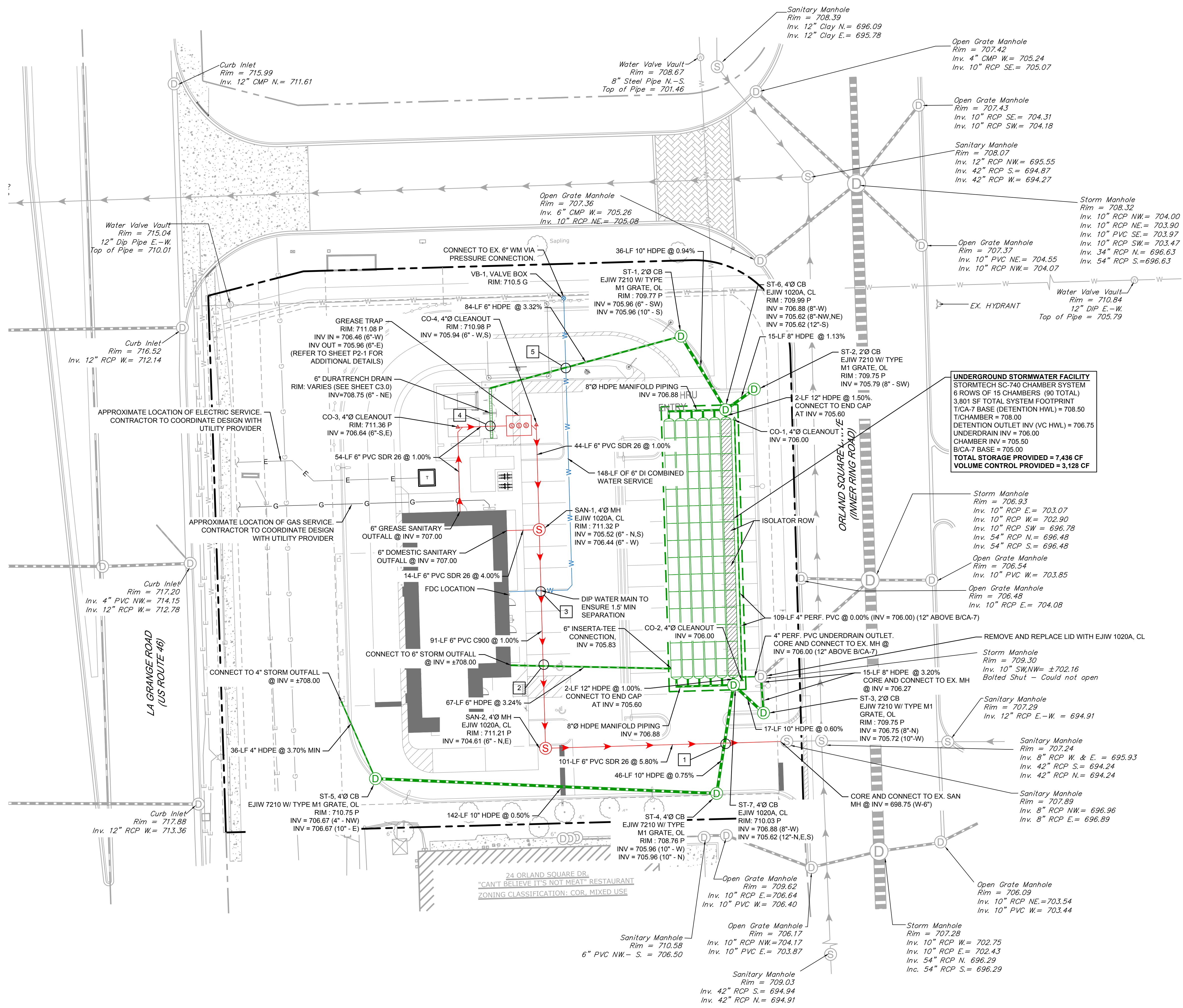
SHEET NUMBER
C4.1

9 OF 15

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AARON J. BRIDGES
062-071413
LICENSED PROFESSIONAL ENGINEER
OF ILLINOIS
No. 121102
Signed: 05/08/24
Expires: 11/30/25



UTILITY LEGEND

- PROPOSED SANITARY SEWER
- ⊙ PROPOSED SANITARY MANHOLE
- ▲ PROPOSED SANITARY CLEANOUT
- PROPOSED WATER LINE
- ⊙ PROPOSED WATER VALVE BOX
- PROPOSED STORM PIPE
- ⊙ PROPOSED STORM STRUCTURE
- ▲ PROPOSED STORM CLEANOUT
- EXISTING SANITARY SEWER LINE
- EXISTING WATER LINE
- EXISTING STORM SEWER LINE
- EXISTING ELECTRIC
- ⊙ EXISTING SANITARY MANHOLE
- ⊙ EXISTING FIRE HYDRANT
- ⊙ EXISTING WATER VALVE
- ⊙ EXISTING STORM STRUCTURE

UTILITY CROSSINGS

1	ST B/P = 705.7± SAN T/P = 700.8±
2	ST B/P = 707.5± SAN T/P = 705.6±
3	SAN B/P = 705.2± WM T/P = 703.7±
4	ST B/P = 708.7± SAN T/P = 707.1±
5	ST B/P = 707.7± WM T/P = 705.7±

UNDERGROUND STORMWATER FACILITY
 STORMTECH SC-140 CHAMBER SYSTEM
 8 ROWS OF 15 CHAMBERS (90 TOTAL)
 3,801 SF TOTAL SYSTEM FOOTPRINT
 T/CA-7 BASE (DETENTION HWL) = 708.50
 T/CHAMBER = 708.00
 DETENTION OUTLET INV (VC HWL) = 706.75
 UNDERDRAIN INV = 706.00
 CHAMBER INV = 705.50
 B/CA-7 BASE = 705.00
TOTAL STORAGE PROVIDED = 7,436 CF
VOLUME CONTROL PROVIDED = 3,128 CF

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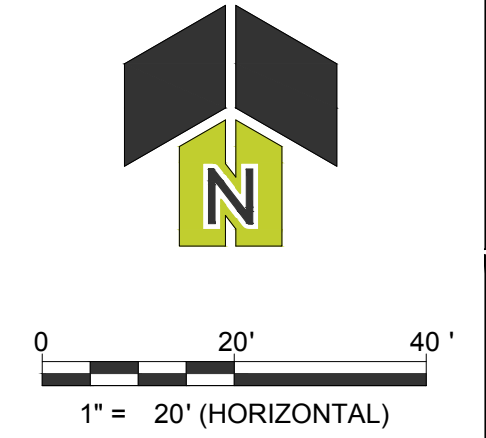


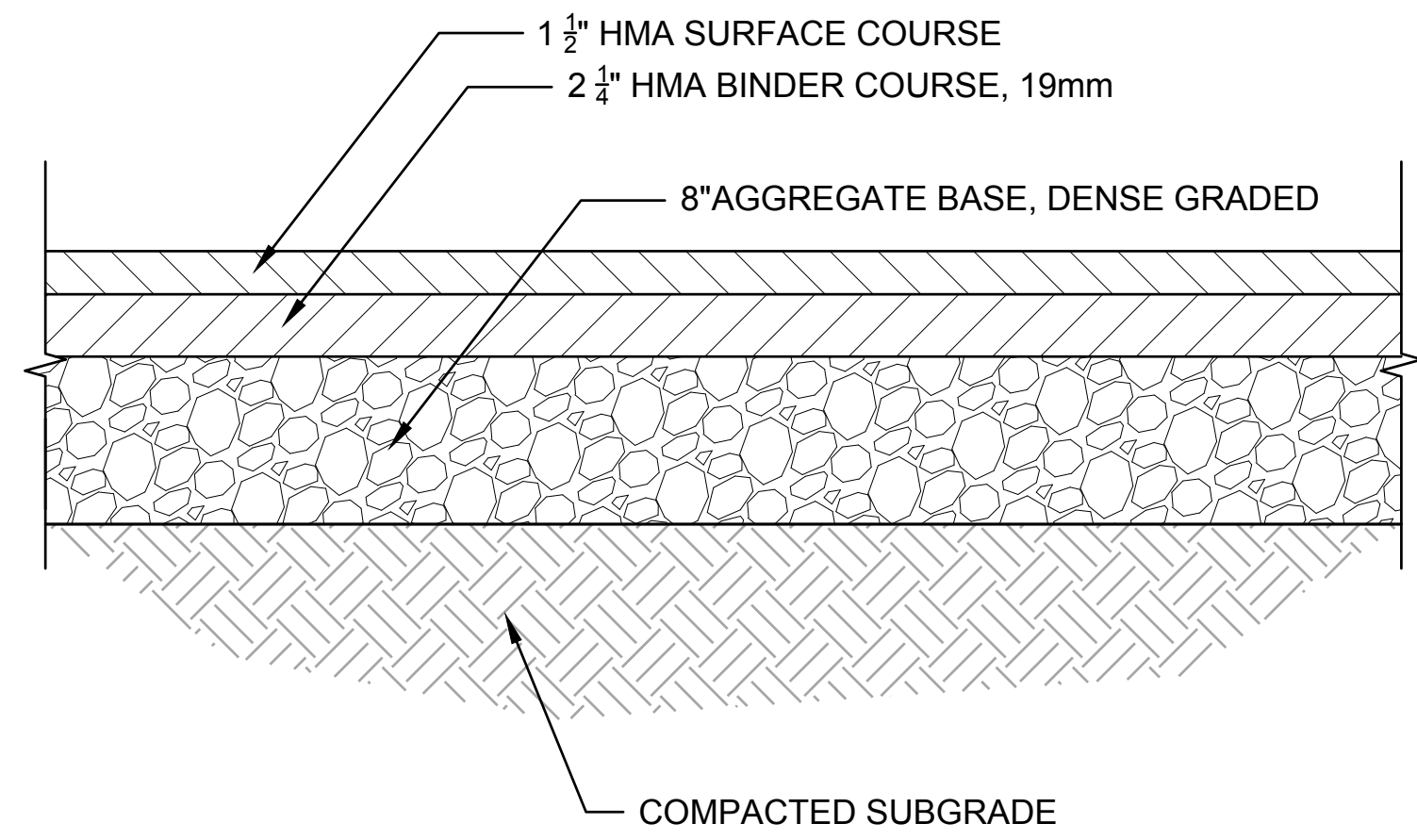
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 State of Illinois
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 20 ORLAND SQUARE DR.
 ORLAND PARK, IL 60462

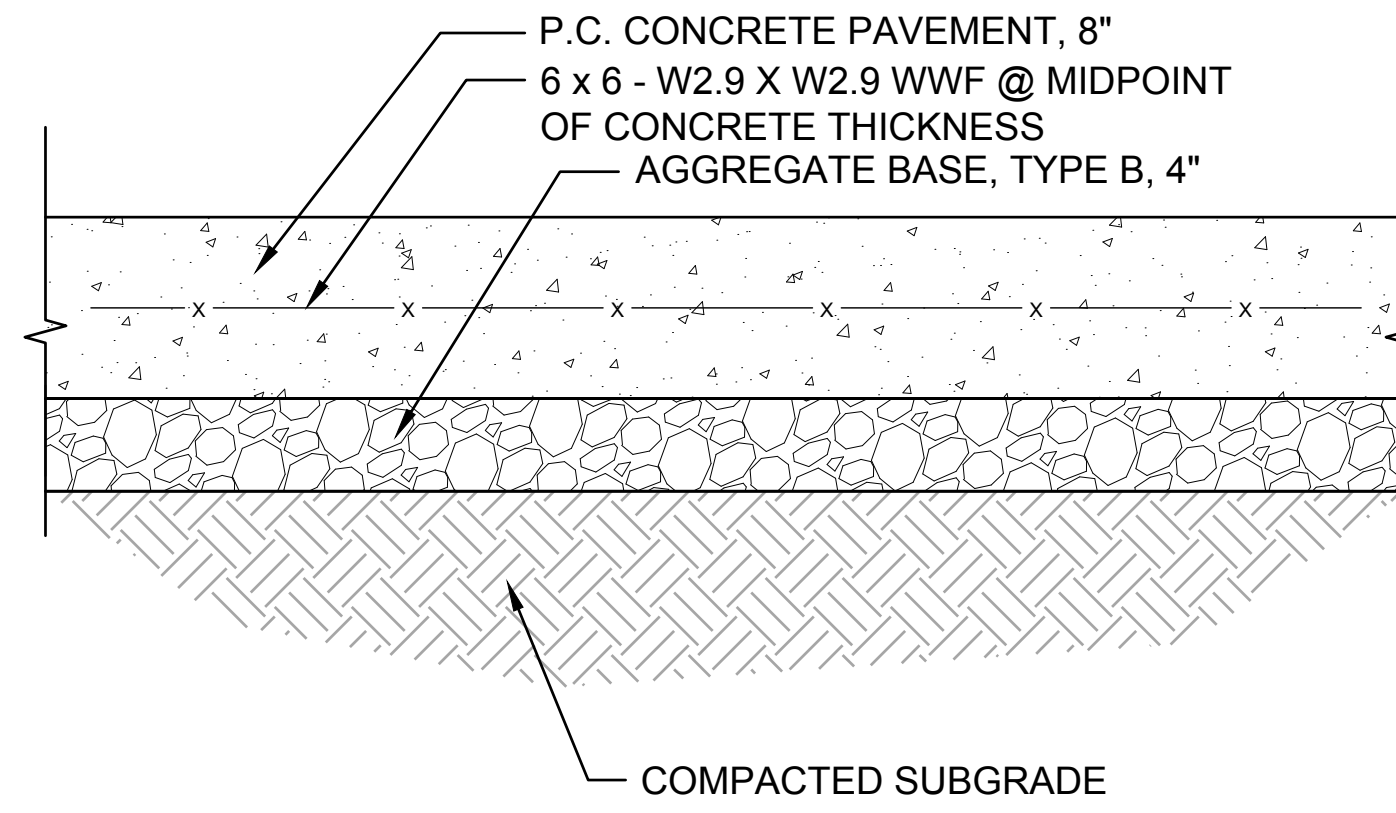
PROJ NO: 230210
 ENG: SJS
 DATE: 02/23/2024
 SHEET TITLE
SITE UTILITY PLAN
 SHEET NUMBER
C5.0
 10 OF 15





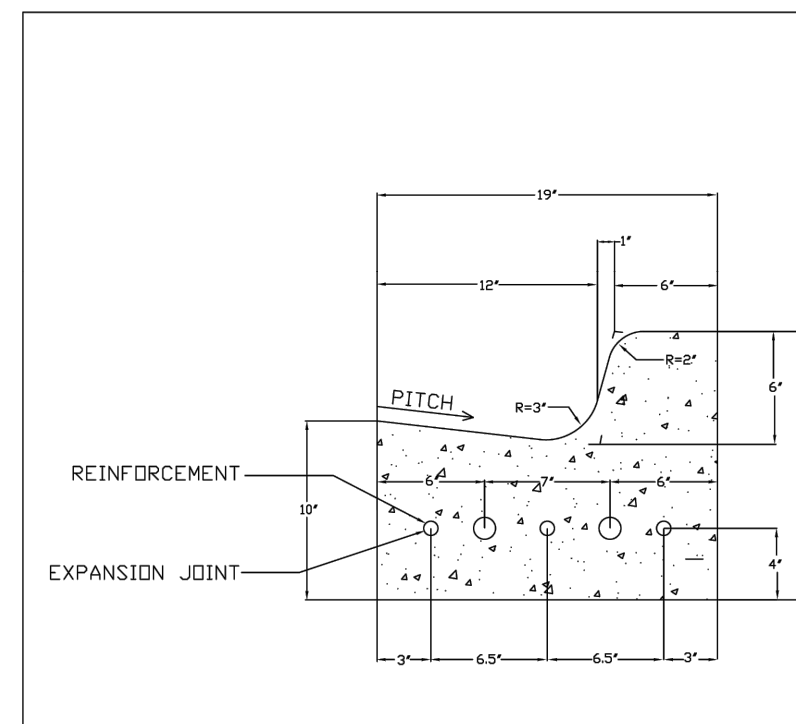
STANDARD DUTY BITUMINOUS PAVEMENT DETAIL

Scale: NOT TO SCALE



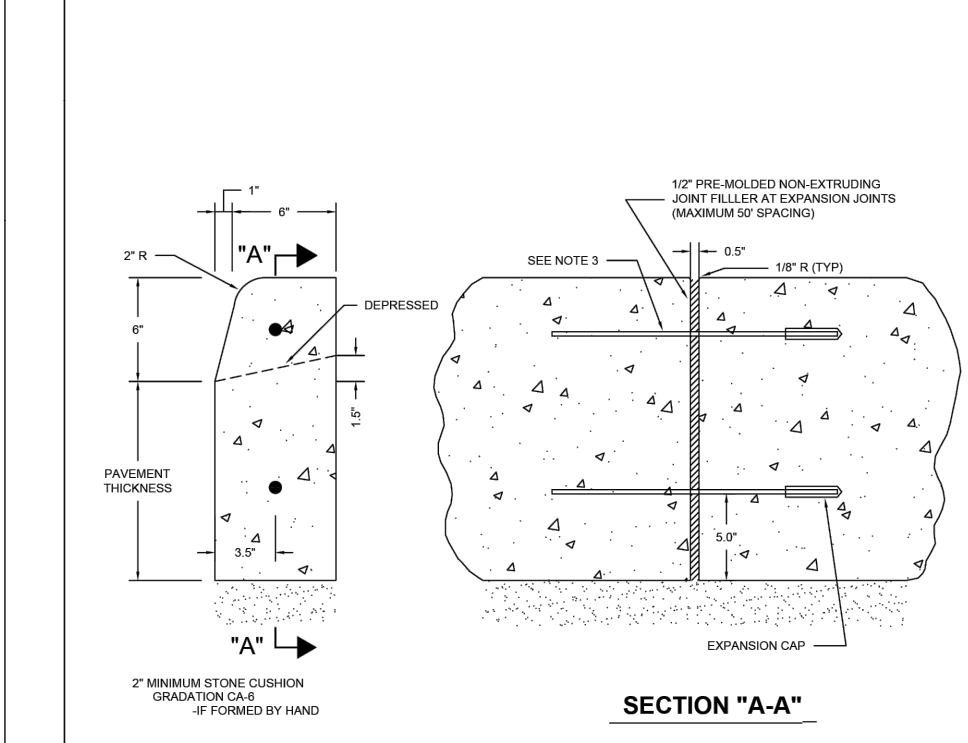
HEAVY DUTY CONCRETE PAVEMENT DETAIL

Scale: NOT TO SCALE

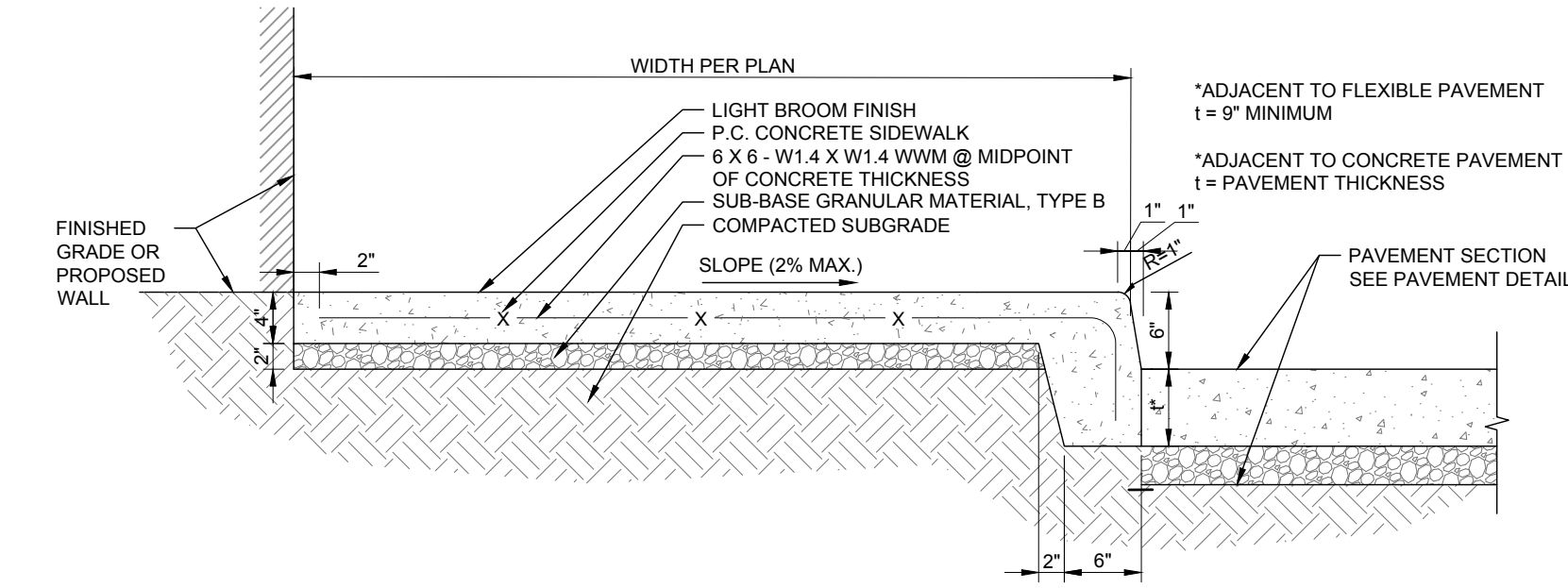


- NOTES:
- REINFORCEMENT SHALL BE THREE (3) #5 REINFORCING BARS CONTINUOUS BETWEEN EXPANSION JOINTS, WITH LOCATION SPACING AS INDICATED ABOVE.
 - EXPANSION JOINT: 3/4" THICK BITUMINOUS FILLER MATERIAL - PROVIDE TWO (2) #6 x 24" SMOOTH BARS WITH EXPANSION CAPS AT EACH EXPANSION JOINT. INSTALL AT ENDS OF ALL RADII AND NO FURTHER THAN SIXTY (60) FEET APART. SAW THREE (3) EQUALLY SPACED CONTRACTION JOINTS AT TWENTY (20) FEET INTERVALS BETWEEN EXPANSION JOINTS. CONTRACTION JOINTS SHALL BE SAW-CUT IN THE UPPER ONE-THIRD OF CURB AND GUTTER WITHIN 3 DAYS OF PLACEMENT.
 - CONTRACT JOINTS SHALL BE PLACED AT EQUAL SPACINGS BETWEEN NORMAL EXPANSION JOINTS. CONTRACTION JOINTS SHALL BE SAW-CUT IN THE UPPER 1/3 OF CURB WITHIN 3 DAYS OF PLACEMENT.
 - CDST OF BARS SHALL BE INCLUDED IN THE UNIT PRICE (PER LINEAL FOOT) FOR CURB AND GUTTER.

B - 6.12 CURB AND GUTTER	
STREET & PAVEMENT	DATE
Village of ORLAND PARK	ISSUED: 01-18-24
Engineering Department	STR-04

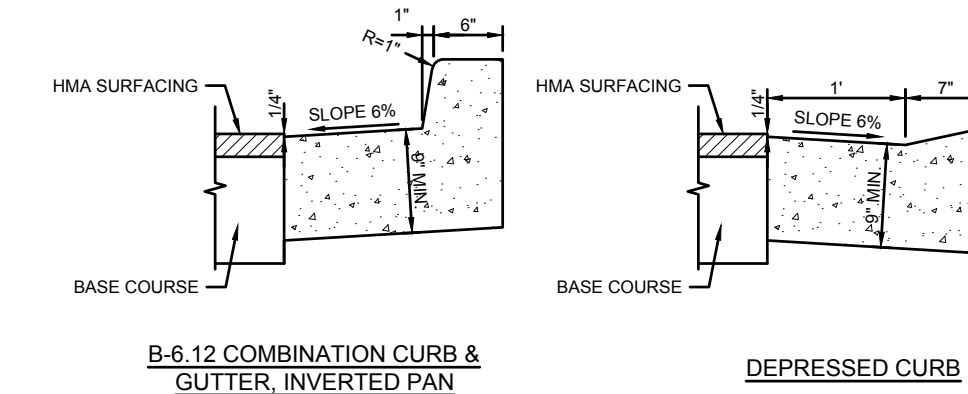


VERTICAL CURB (TYPE B)	
STREET & PAVEMENT	DATE
Village of ORLAND PARK	ISSUED: 01-18-24
Engineering Department	STR-05



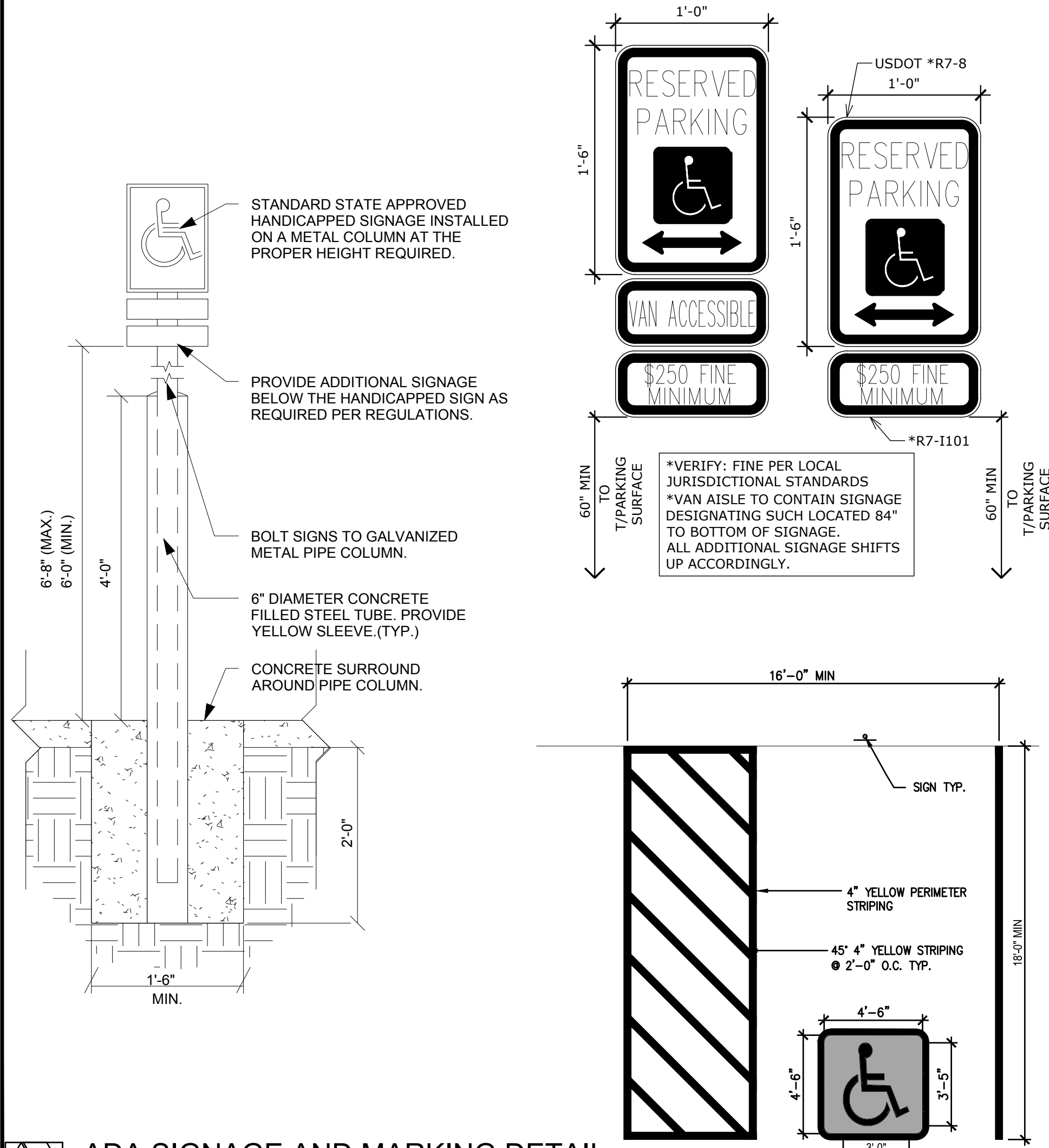
THICKENED EDGE SIDEWALK

Scale: N.T.S.



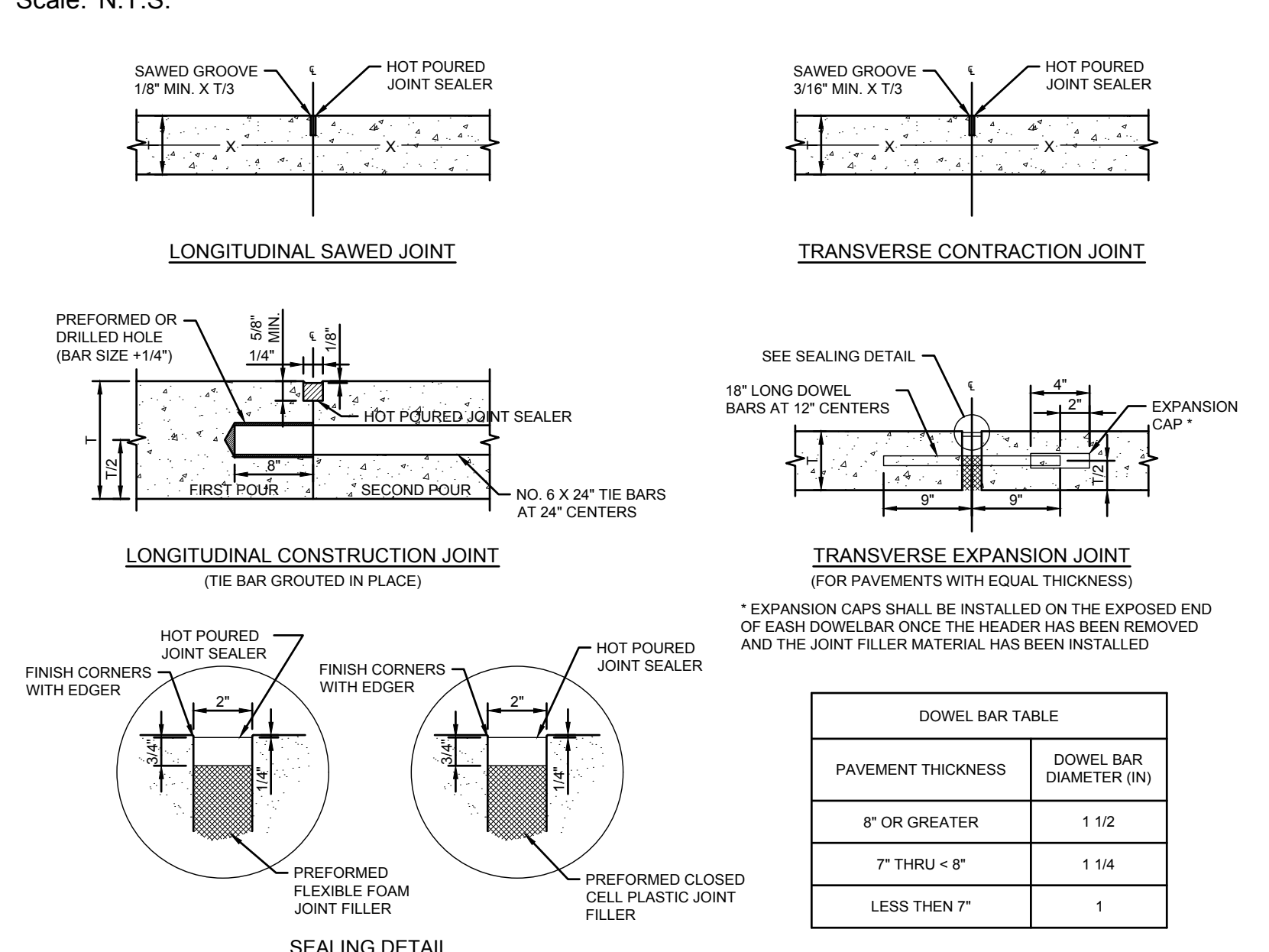
CURB DETAIL

Scale: NOT TO SCALE



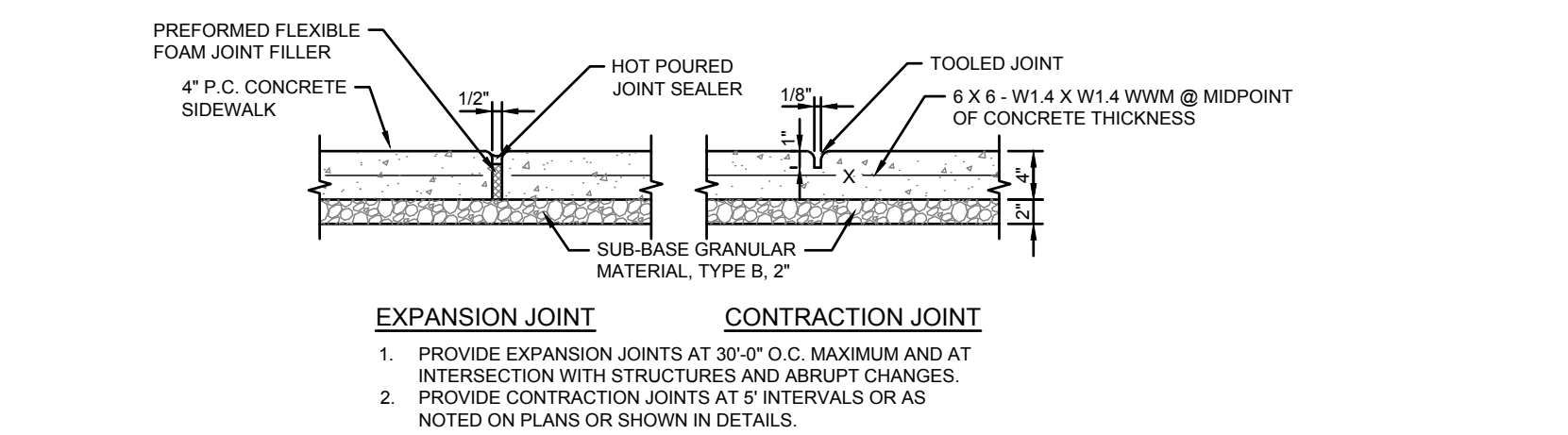
ADA SIGNAGE AND MARKING DETAIL

Scale: NOT TO SCALE



PAVEMENT JOINT DETAIL

Scale: NOT TO SCALE



SIDEWALK JOINT DETAIL

Scale: NOT TO SCALE

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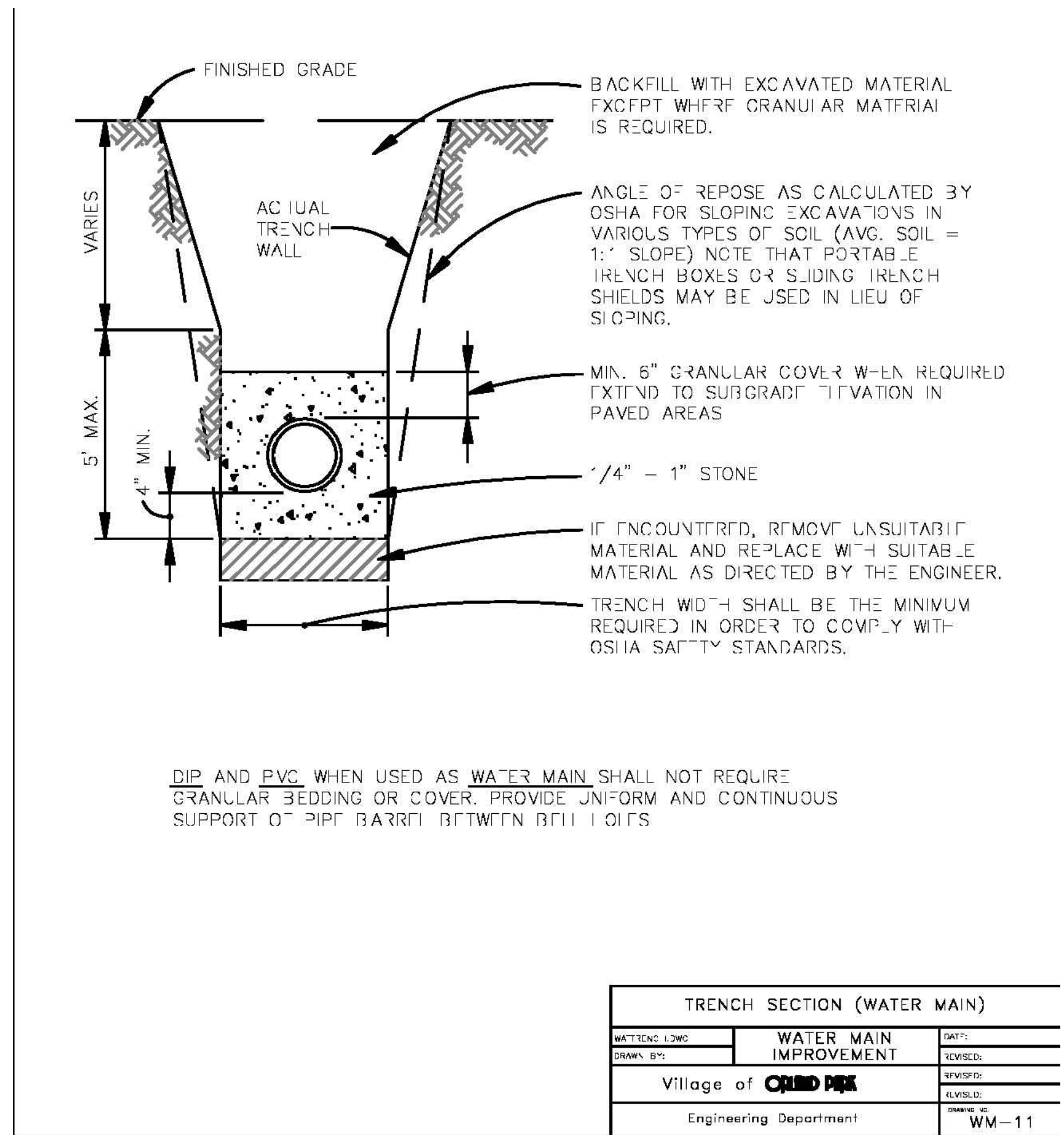
AARON J. BRIDEX
062-071413
LICENSED PROFESSIONAL ENGINEER
OF ILLINOIS
Signed: 05/08/24
Expires: 11/30/25

REVISIONS

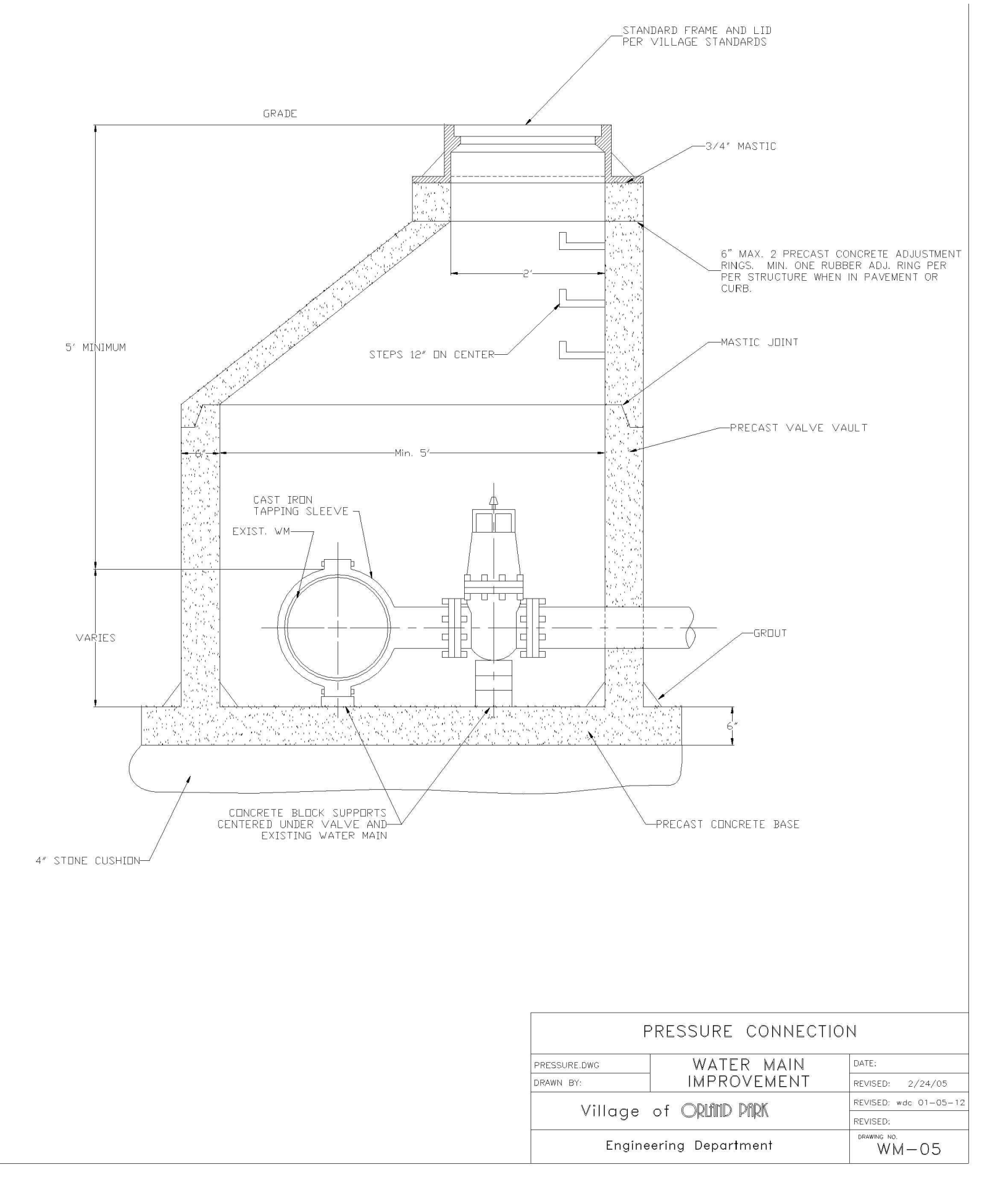
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20 ORLAND SQUARE DR.
ORLAND PARK, IL 60462

PROJ NO: 230210
ENG: SJS
DATE: 02/23/2024
SHEET TITLE
CONSTRUCTION DETAILS
SHEET NUMBER
C6.0
11 OF 15



TRENCH SECTION (WATER MAIN)		
DATE: 02/24/05	PROJECT: WATER MAIN IMPROVEMENT	DATE: 02/24/05
DRAWN BY: [blank]	DESIGNED: [blank]	REVISED: 07-05-12
Village of ORLAND PARK		DRAWING NO: WM-05
Engineering Department	WM-1.1	



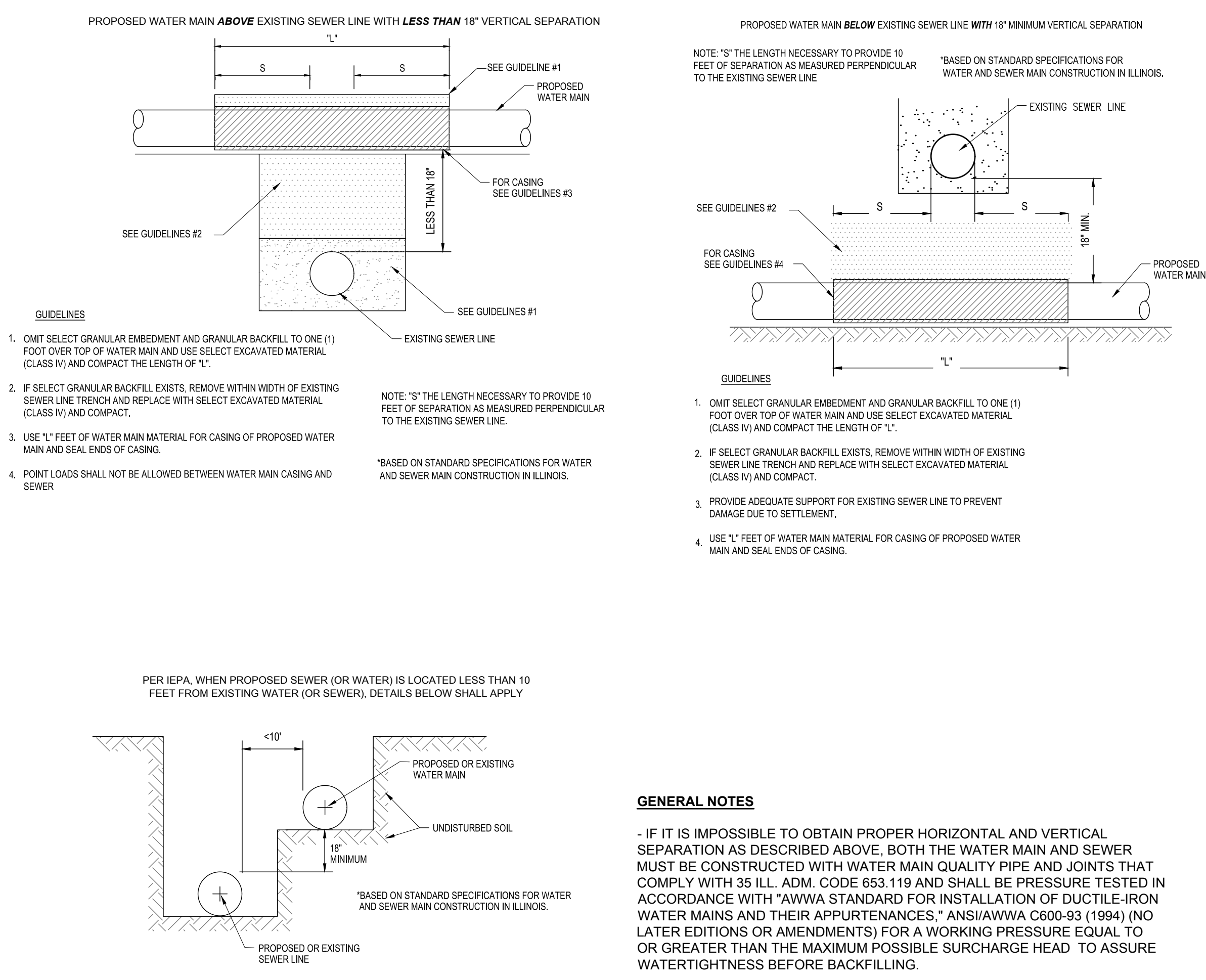
PRESSURE CONNECTION		
DATE: 02/24/05	PROJECT: WATER MAIN IMPROVEMENT	DATE: 02/24/05
DRAWN BY: [blank]	DESIGNED: [blank]	REVISED: 07-05-12
Village of ORLAND PARK		DRAWING NO: WM-05
Engineering Department	WM-1.1	

WATER MAIN TRENCH SECTION

Scale: NOT TO SCALE

WATER MAIN PRESSURE CONNECTION

Scale: NOT TO SCALE



GENERAL NOTES

- IF IT IS IMPOSSIBLE TO OBTAIN PROPER HORIZONTAL AND VERTICAL SEPERATION AS DESCRIBED ABOVE, BOTH THE WATER MAIN AND SEWER MUST BE CONSTRUCTED WITH WATER MAIN QUALITY PIPE AND JOINTS THAT COMPLY WITH 35 ILL. ADM. CODE 653.119 AND SHALL BE PRESSURE TESTED IN ACCORDANCE WITH "AWWA STANDARD FOR INSTALLATION OF DUCTILE-IRON WATER MAINS AND THEIR APPURTENANCES," ANSI/AWWA C600-93 (1994) (NO LATER EDITIONS OR AMENDMENTS) FOR A WORKING PRESSURE EQUAL TO OR GREATER THAN THE MAXIMUM POSSIBLE SURCHARGE HEAD TO ASSURE WATERTIGHTNESS BEFORE BACKFILLING.

WATER SEWER SEPERATION DETAILS

Scale: NOT TO SCALE

2200 CABOT DRIVE
SUITE 325
LISLE, IL 60532
P. 630.598.0007
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CAGE
CIVIL ENGINEERING

ARON J. BRIDEX
LICENSED PROFESSIONAL ENGINEER
OF ILLINOIS
Signed: 05/08/24
Expires: 11/30/25

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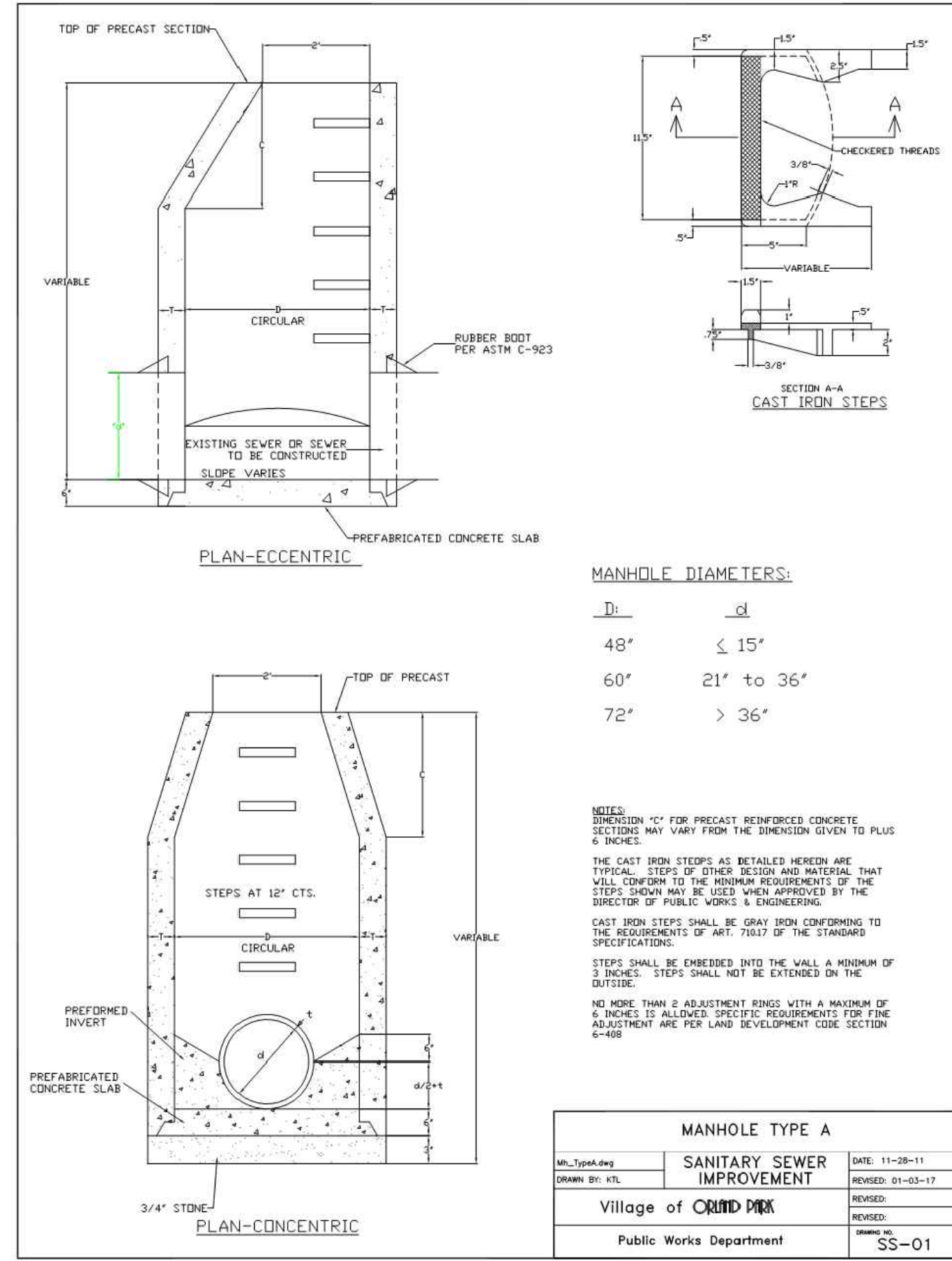
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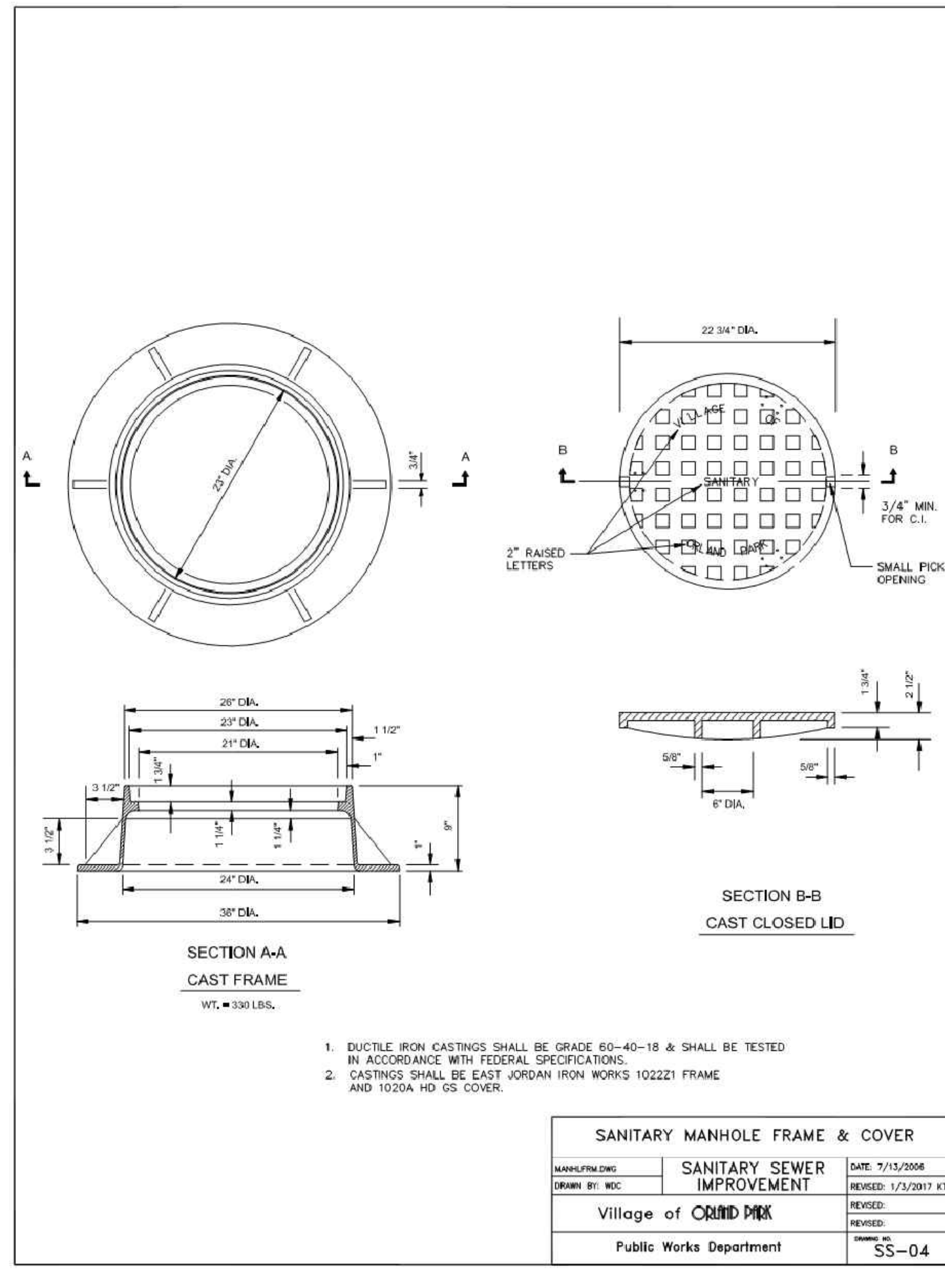
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SHEET TITLE
CONSTRUCTION DETAILS

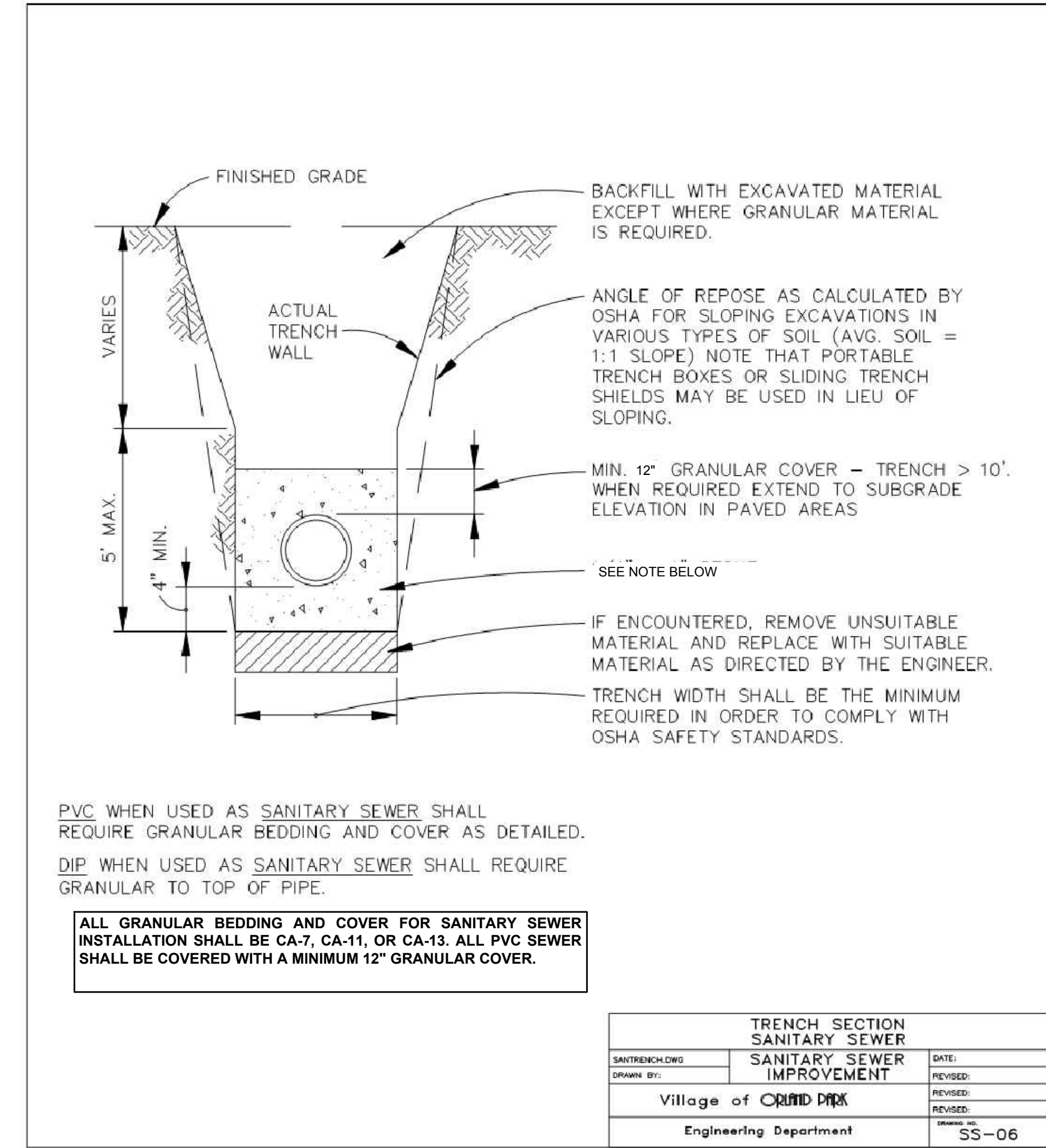
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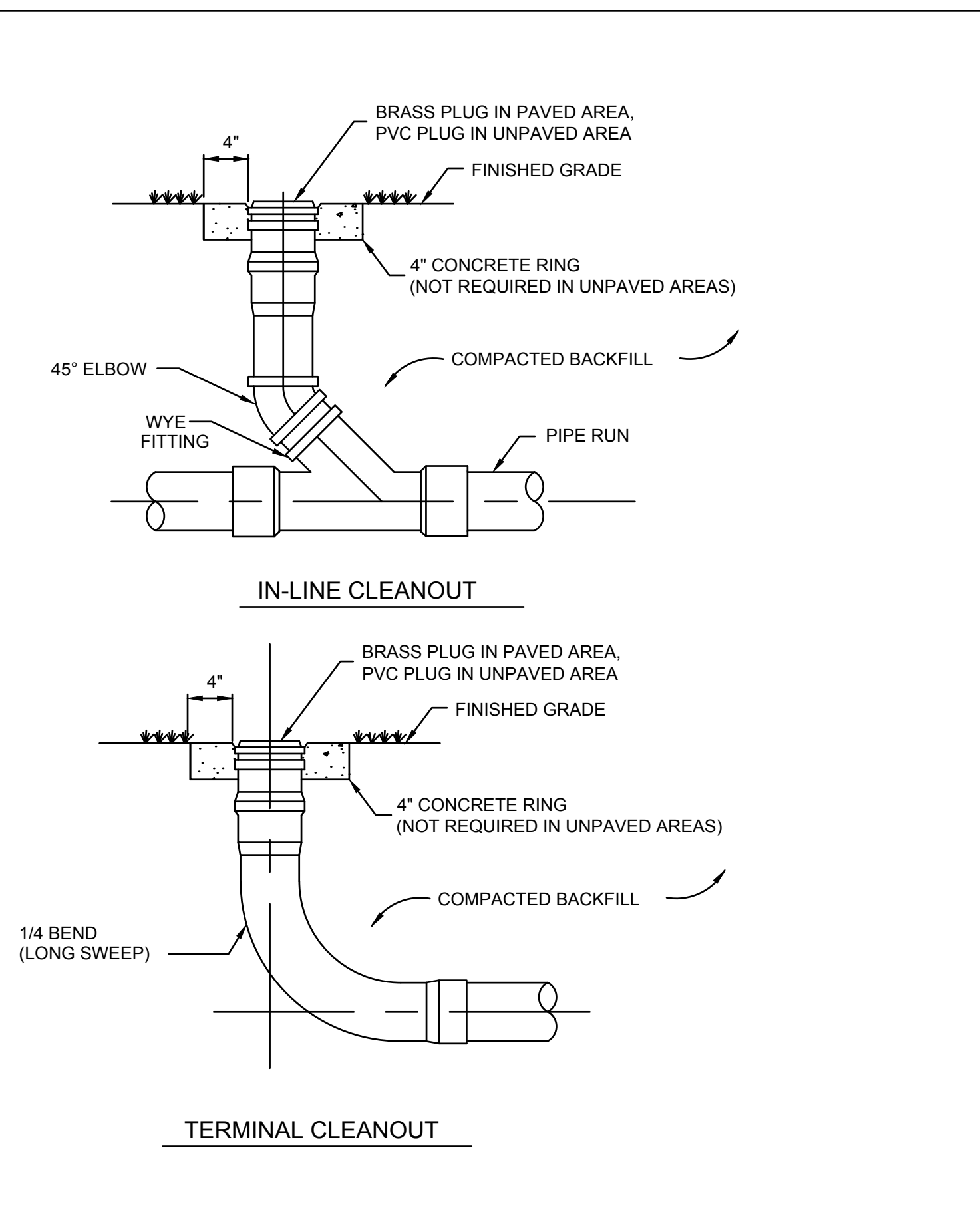
SANITARY MANHOLE TYPE A
Scale: NOT TO SCALE



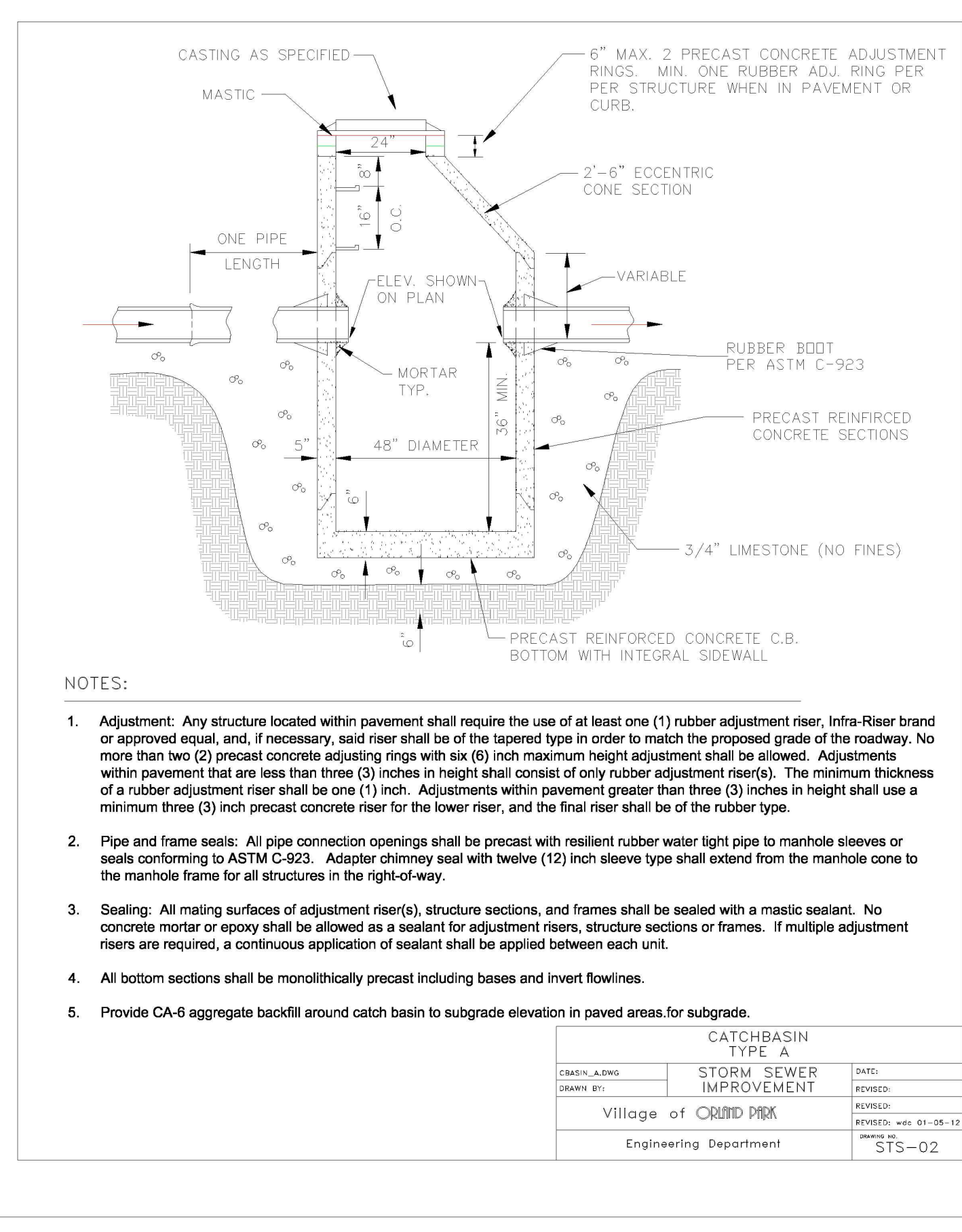
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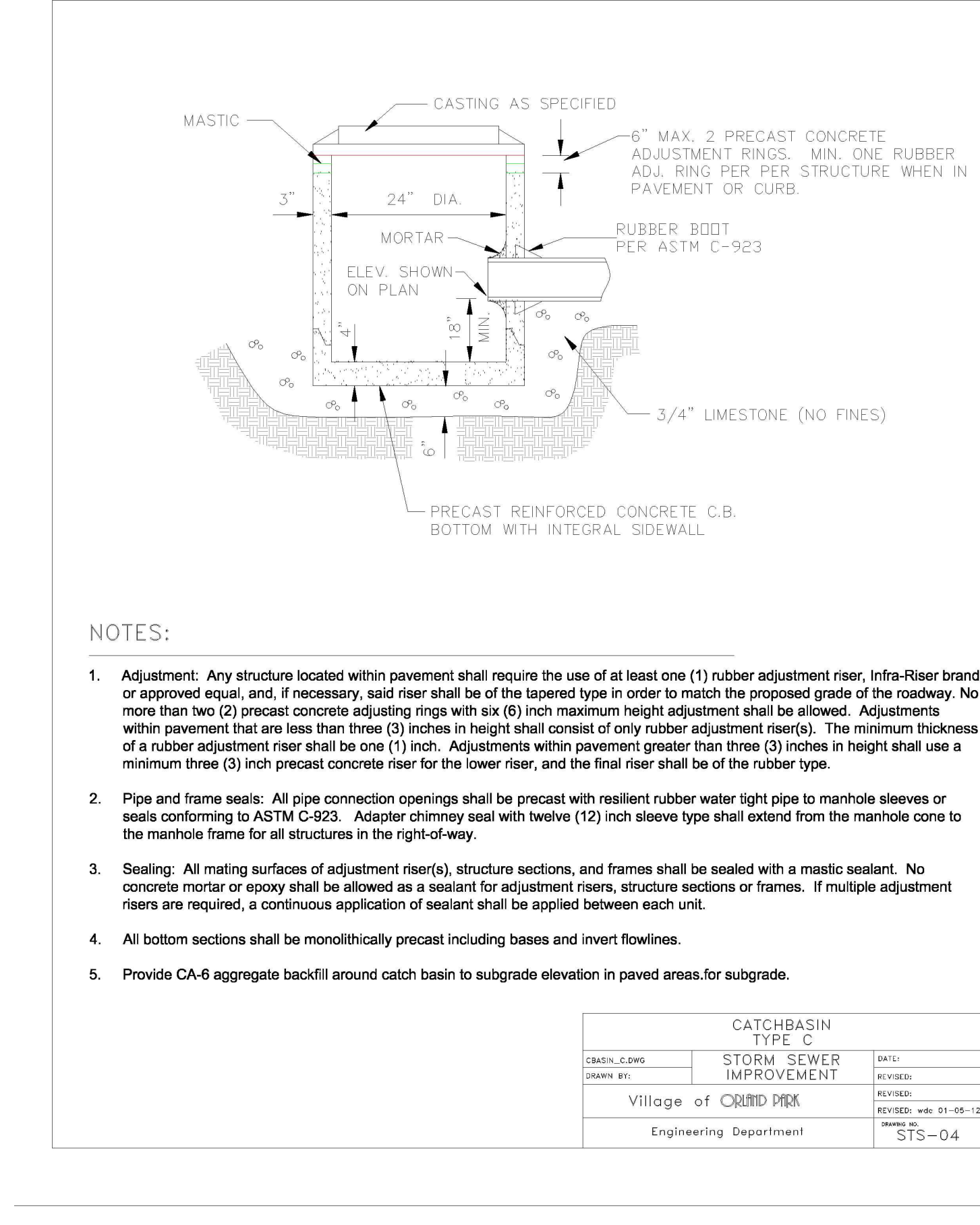
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CLEANOUT DETAIL
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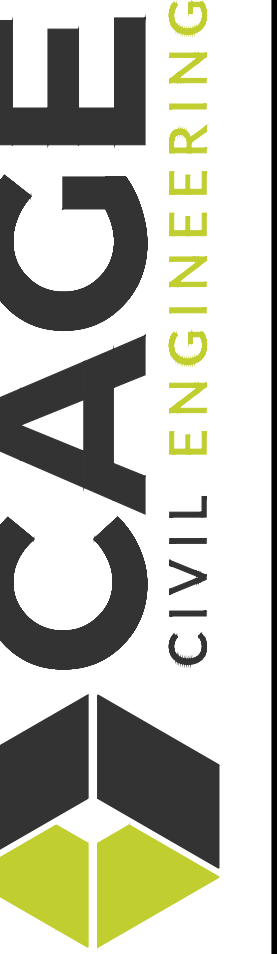


4'Ø CATCHBASIN DETAIL
Scale: NOT TO SCALE



2'Ø CATCHBASIN DETAIL
Scale: NOT TO SCALE

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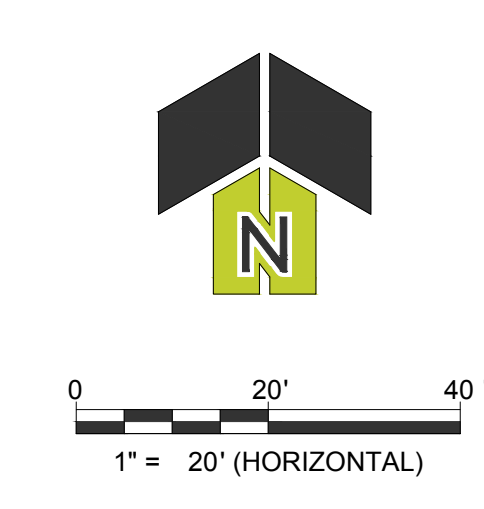
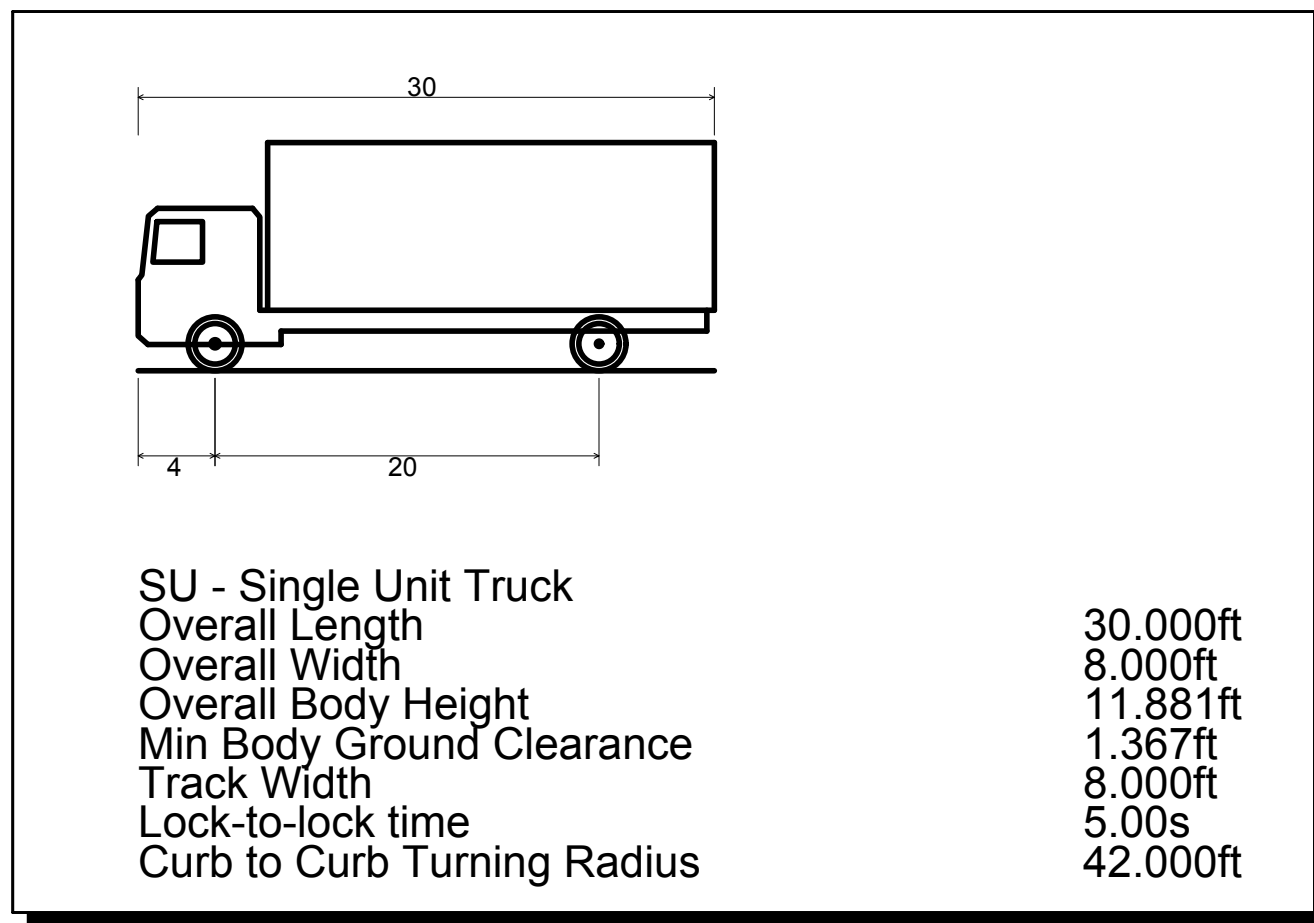
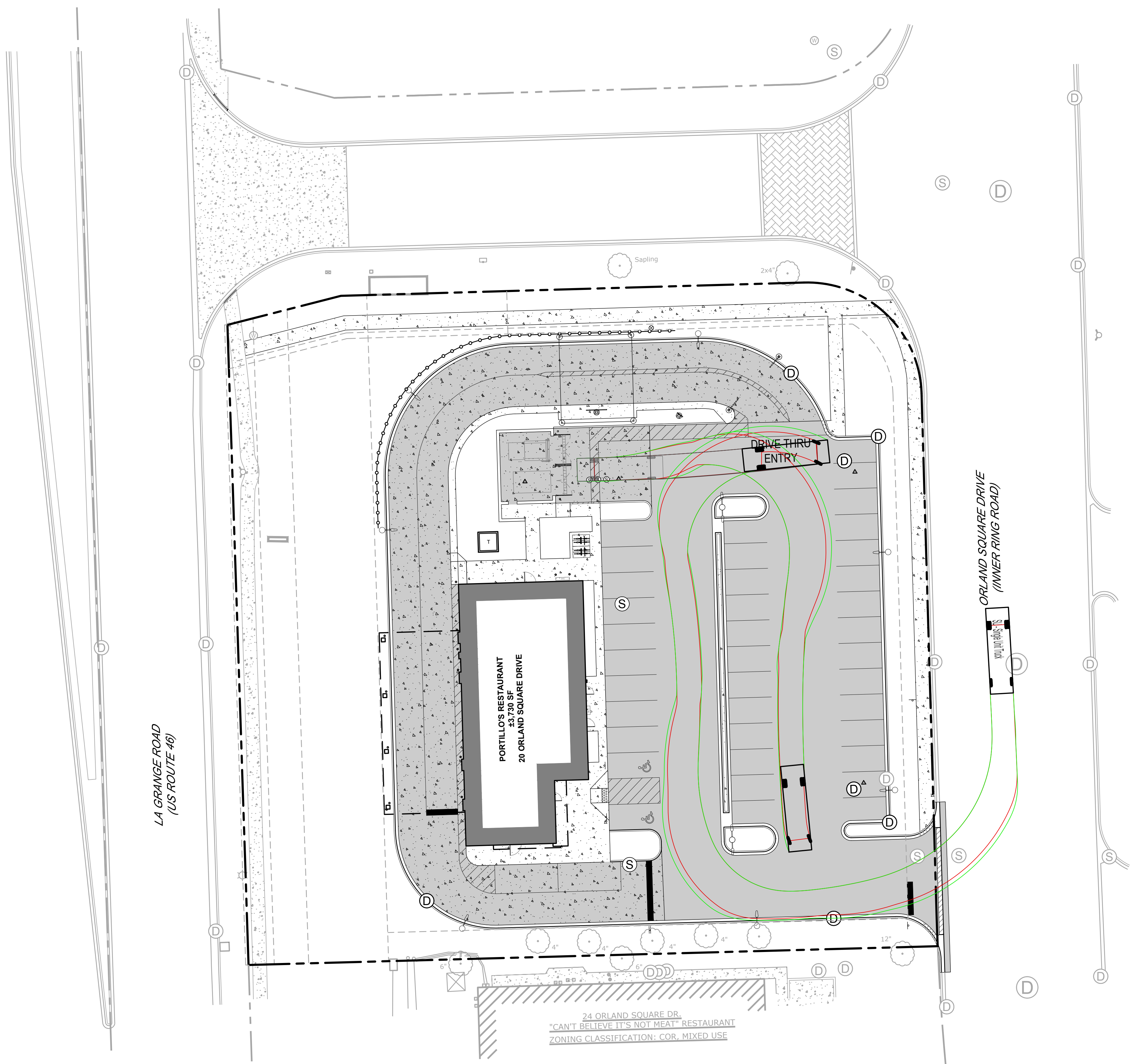
SHEET TITLE

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AARON J. BRIDEX
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SHEET TITLE
TRUCK TURN EXHIBIT

SHEET NUMBER
EX-T
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