

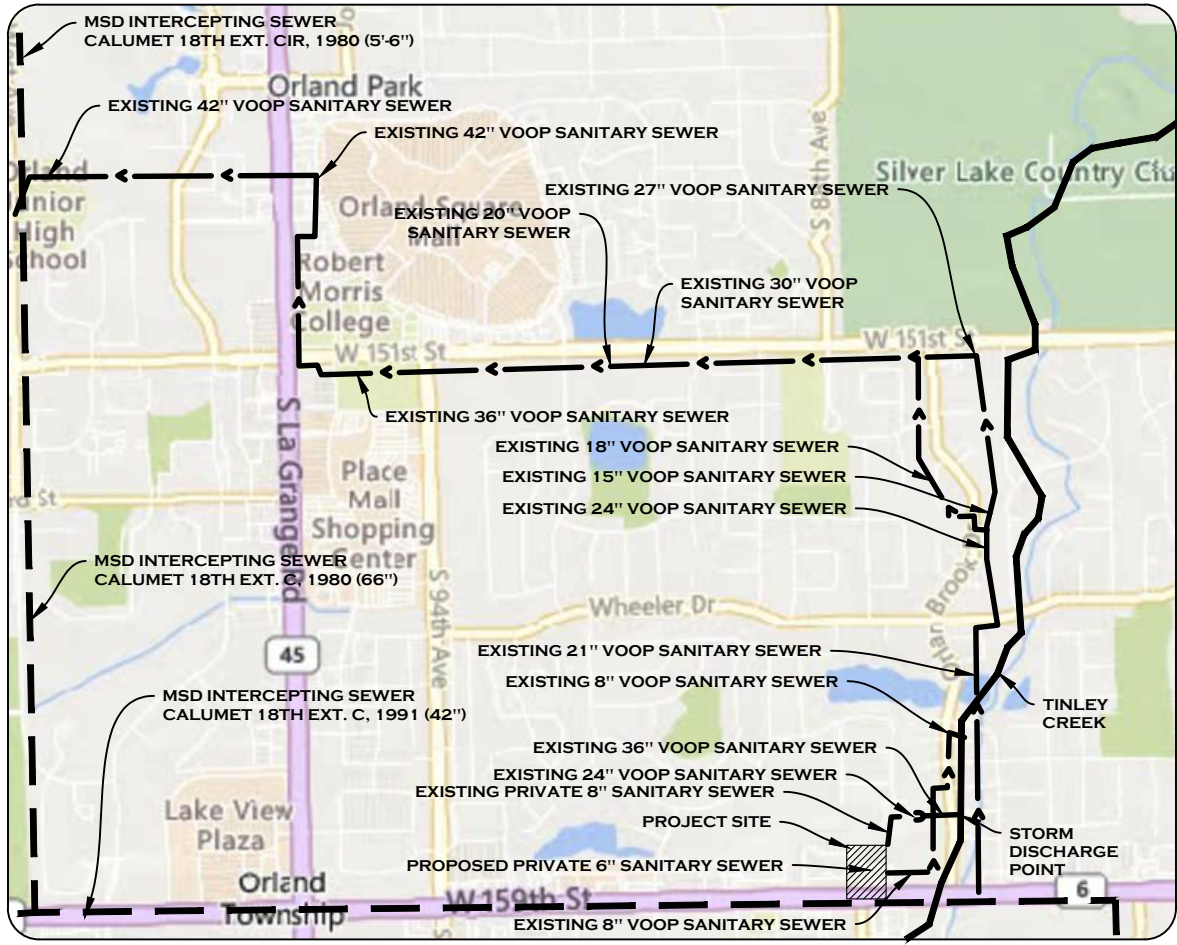
RIZZA ACURA
FINAL ENGINEERING PLANS
8754 W 159TH STREET
ORLAND PARK, COOK COUNTY, ILLINOIS
(ORLAND TWP PIN #'S 27-14-300-068, 27-14-300-070, 27-14-300-069)

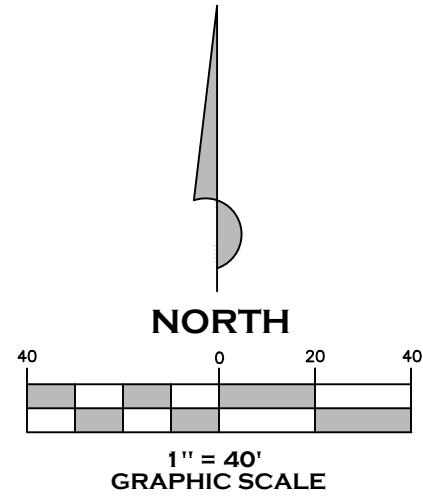
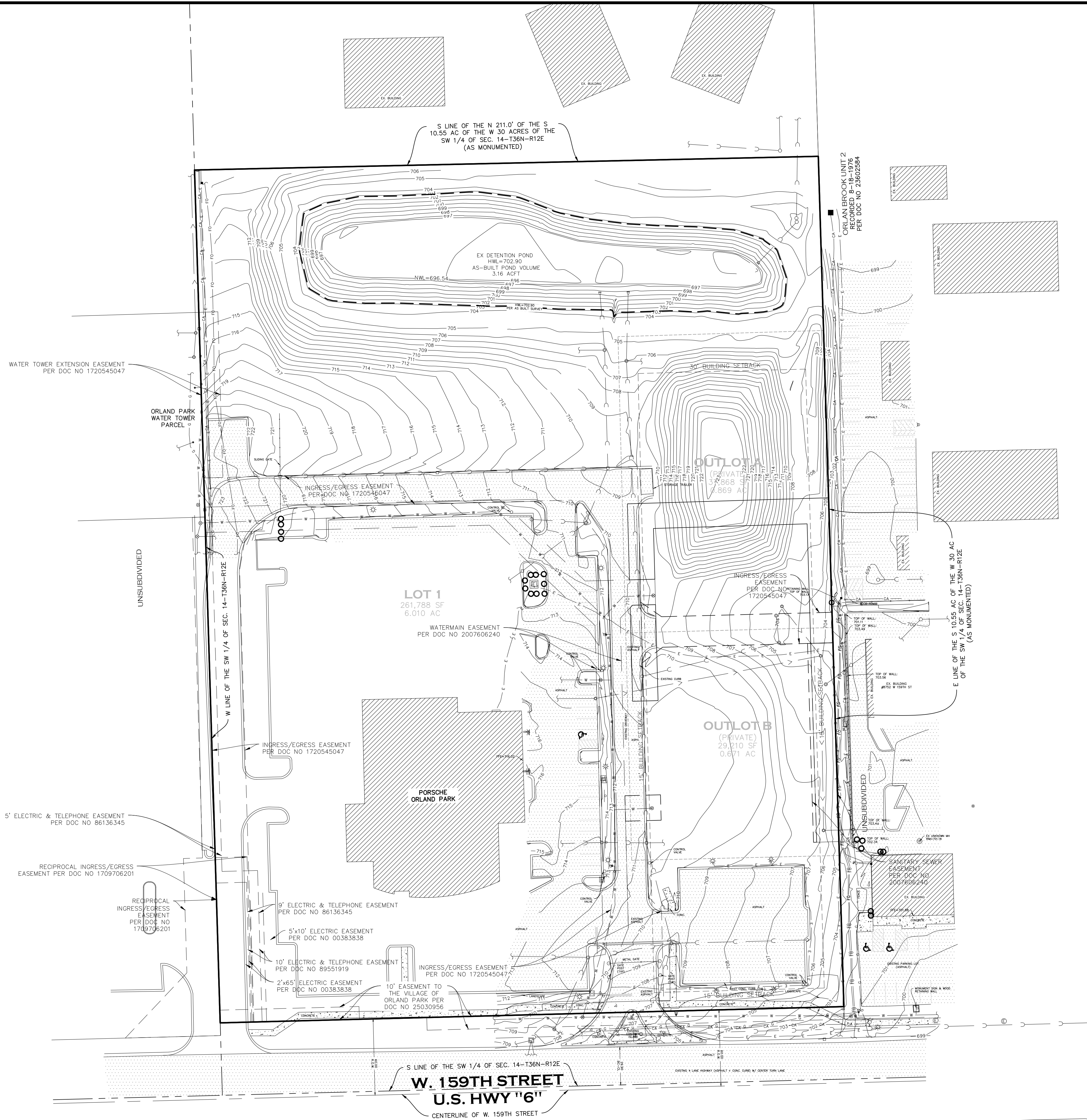
MASTER NOTES

1. ALL ITEMS OF THIS PROJECT SHALL BE GOVERNED BY SPECIFICATIONS INCLUDED IN THE DOCUMENTS LISTED BELOW:
- A. VILLAGE OF ORLAND PARK STANDARDS SPECIFICATIONS.
B. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" PREPARED BY THE DEPARTMENT OF TRANSPORTATION OF THE STATE OF ILLINOIS AND ADOPTED BY SAID DEPARTMENT (LATEST REVISION) AND HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS".
C. "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.
D. "ILLINOIS URBAN MANUAL" (LATEST REVISION) BY ASSOCIATION OF ILLINOIS SOIL & WATER CONSERVATION DISTRICTS.
E. "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", BY ILLINOIS ENVIRONMENTAL PROTECTION AGENCY.
F. "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS & HIGHWAYS" BY ILLINOIS DEPARTMENT OF TRANSPORTATION.
G. "ILLINOIS ACCESSIBILITY CODE", (LATEST EDITION").
- *LATEST REVISION IN EFFECT ON THE DATE OF THESE PLANS
2. PRIOR TO BID, THE CONTRACTOR SHALL VERIFY CONFORMANCE BETWEEN PLANS AND THE ABOVE REFERENCED CODES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO BID.
3. IN THE EVENT OF A CONFLICT BETWEEN THESE VARIOUS STANDARDS, MUNICIPAL STANDARDS SHALL APPLY.
4. ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH SECTION 701 OF THE STANDARD SPECIFICATIONS.
5. ALL WORK PERFORMED SHALL COMPLY WITH ALL APPLICABLE RULES AND REGULATIONS OF OSHA.
6. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING JULIE 1-630-554-3242 AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION OPERATIONS. ALL UTILITIES MUST BE STAKED/LOCATED BEFORE CONSTRUCTION.
7. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE MUNICIPALITY PUBLIC WORKS DEPARTMENT 708-403-6350 A MINIMUM OF 48 HOURS BEFORE CONSTRUCTION ACTIVITIES. A 48-HOUR NOTICE MUST BE PROVIDED FOR INSPECTIONS AND TESTS. CITY STAFF MUST OPERATE ALL WATERMAIN VALVES AND HYDRANTS ONLY.
8. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL SURVEYING MONUMENTS UNTIL THE OWNER, THEIR AGENT OR A LICENSED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.
9. THE CONTRACTOR SHALL BE AWARE OF POTENTIAL CONFLICTS WITH EXISTING UTILITIES AS MAY BE INDICATED ON THE PLANS. THESE AREAS SHALL BE EXCAVATED TO DETERMINE ELEVATIONS BEFORE BEGINNING CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES.
10. SAWING OF REMOVAL ITEMS AS NOTED IN THE PLANS OR AS REQUIRED BY THE ENGINEER SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT OF THE ITEM BEING REMOVED AND NO EXTRA COMPENSATION WILL BE ALLOWED.
11. ALL ROAD SIGNS, STREET SIGNS AND TRAFFIC SIGNS WHICH NEED TO BE RELOCATED OR MOVED DUE TO CONSTRUCTION SHALL BE TAKEN DOWN AND STORED BY THE CONTRACTOR AT HIS OWN EXPENSE EXCEPT THOSE WHICH THE PERMIT AGENCY SHALL REQUIRE TO BE TEMPORARILY RESET UNTIL COMPLETION OF CONSTRUCTION OPERATIONS. AFTER COMPLETION OF THE WORK, THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, RESET ALL SAID SIGNS AT THE LOCATIONS DESIGNATED BY THE PERMIT AGENCY ENGINEER.
12. THE CONTRACTOR SHALL PRESERVE ALL CONSTRUCTION STAKES UNTIL THEY ARE NO LONGER NEEDED. ANY STAKES DESTROYED BY THE CONTRACTOR PRIOR TO THEIR USE SHALL BE RESET BY THE OWNER'S ENGINEER AT A COST TO BE BORNE BY THE CONTRACTOR THAT DESTROYED THE STAKES.
13. CONTRACTOR SHALL USE CARE NEAR ANY AND ALL EXISTING ITEMS WHICH ARE NOT INDICATED TO BE REMOVED OR MODIFIED. ANY DAMAGE DONE TO THESE ITEMS BY CONTRACTORS OPERATIONS SHALL BE REPAIRED AND/OR RESTORED BY THE CONTRACTOR AT THE CONTRACTORS OWN EXPENSE.
14. THE CONTRACTOR SHALL INDEMNIFY AND SAVE HARMLESS THE OWNER, THE PERMIT AGENCY AND ITS OFFICERS, EMPLOYEES, AND AGENTS, AND THE OWNER'S ENGINEERS, FROM AND AGAINST ALL LOSSES, CLAIMS, DEMANDS, PAYMENTS, SUITS, ACTIONS, RECOVERIES AND JUDGMENT OF EVERY NATURE AND DESCRIPTION BROUGHT OR RECOVERED AGAINST THEM, BY REASON OF ANY ACT OR OMISSION OF SAID CONTRACTOR, HIS AGENTS OR EMPLOYEES, IN THE EXECUTION OF THE WORK OR IN THE GUARDING OF IT.
15. BURNING ON THE SITE IS NOT PERMITTED.
16. ALL IMPROVEMENTS SHOWN ON THE PLANS ARE THE RESPONSIBILITY OF THE CONTRACTOR.



VICINITY MAP
(NOT TO SCALE)





LEGEND

PROPERTY BOUNDARY	---
OFFSITE PROPERTY LINE	---
EASEMENT LINE	---
BUILDING SETBACK LINE	---
MEASURED OR CALCULATED DISTANCE	XXX.XX'
DEED OR RECORD DISTANCE	(XXX.XX')
FOUND IRON PIPE	o
FOUND IRON ROD	•
FOUND PK NAIL	⊙
FOUND CUT CROSS	+
STORM SEWER	—
SANITARY SEWER	—
WATERMAIN	—
UNDERGROUND GAS LINE	—
UNDERGROUND CABLE LINE	—
UNDERGROUND ELECTRIC LINE	—
UNDERGROUND TELEPHONE LINE	—
OVERHEAD UTILITY LINES	—
GRADING CONTOUR	—
FENCE LINE	—
DEPRESSED CURB	—
TREELINE	—
TREE	—
POWER POLE	—
TELEPHONE PEDESTAL	—
TRANSFORMER	—
DRAINAGE FLOW ARROW	—
OVERFLOW ROUTE	—
LIGHT POLE	—
WALL PACK	—
SANITARY MANHOLE	—
SANITARY CLEANOUT	—
FIRE HYDRANT	—
VALVE AND VAULT	—
GATE VALVE	—
STORM CURB FRAME & GRATE	—
STORM MANHOLE	—
STORM CATCH BASIN	—
STORM FLARED END SECTION	—
MANHOLE (UNKNOWN UTILITY)	—

SITE BENCHMARKS

ELEVATIONS SHOWN ARE RELATIVE TO NAVD'88.

SITE BM #1:
UPPER FLANGE BOLT ON FIRE HYDRANT, AS NOTED HEREON.
ELEV=713.80'

NOTES

- FIELD WORK COMPLETED ON OCTOBER 24, 2022.
- THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR TOPOGRAPHIC SURVEYS.
- SEE CURRENT PLAT OF SURVEY FOR ADDITIONAL INFORMATION.
- SURFACE INDICATIONS OF UTILITIES HAVE BEEN SHOWN (INCLUDING MARKS AND FLAGS FROM THE CITY OF ROCHELLE), INCLUDING OVERHEAD WIRES AND UTILITY POLES (IF ANY) - HOWEVER THEIR FUNCTION AND DIMENSIONS HAVE NOT BEEN SHOWN. PUBLIC AND/OR PRIVATE RECORDS HAVE NOT BEEN SEARCHED TO PROVIDED ADDITIONAL INFORMATION EXCEPT WHERE OTHERWISE NOTED HEREON.
- OTHER THAN VISIBLE OBSERVATIONS NOTED HEREON, THIS SURVEY MAKES NO STATEMENT REGARDING THE ACTUAL PRESENCE OR ABSENCE OF ANY SERVICE OR UTILITY LINE. CONTROLLED UNDERGROUND EXPLORATORY EFFORT TOGETHER WITH "JULIE" OR "DIGGER" MARKINGS IS RECOMMENDED TO DETERMINE THE FULL EXTENT OF UNDERGROUND SERVICE AND UTILITY LINES. "JULIE" WILL NOT MARK UTILITIES FOR LAND SURVEYORS FOR THE PURPOSE OF TOPOGRAPHIC SURVEYS IN ILLINOIS.
- SURVEY COMPLETED FOR:
JOE RIZZA ENTERPRISES, INC.
8150 W. 159TH STREET
ORLAND PARK, IL 60462
- ONLY TREES OVER 6" SHOWN HEREON.
- COMMUNICATION LINES WERE MARKED IN ORANGE PAINT OR FLAGS WITHOUT INDICATION OF TELEPHONE, CABLE, OR FIBER OPTIC. UNDERGROUND COMMUNICATION LINES ARE TO BE VERIFIED AND MAY DIFFER FROM HEREON.
- GRADES SHOWN AT CURBS ARE TOP BACK OF CURB UNLESS OTHERWISE NOTED HEREON.

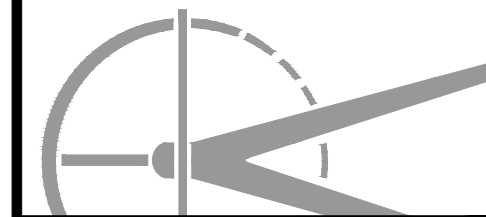
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DATE: 05-22-2023

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RIZZA ACURA
8754 W. 159TH STREET
ORLAND PARK, ILLINOIS 60462

FINAL ENGINEERING PLANS

EXISTING OVERALL CONDITION PLAN

PROJECT NO. M21149

DRAWN BY: ZDS & NFY

CHECKED BY: TDR

SHEET NO. 2 / 26

Other Office Locations:
Gurnee, IL

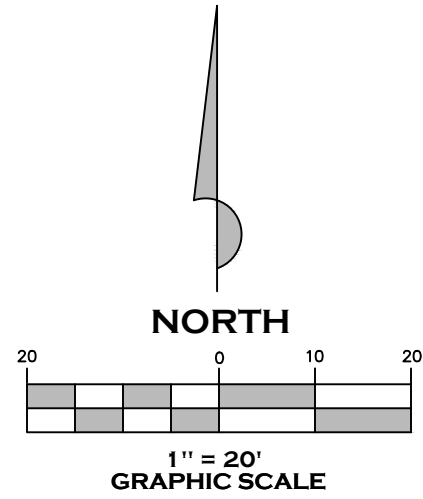
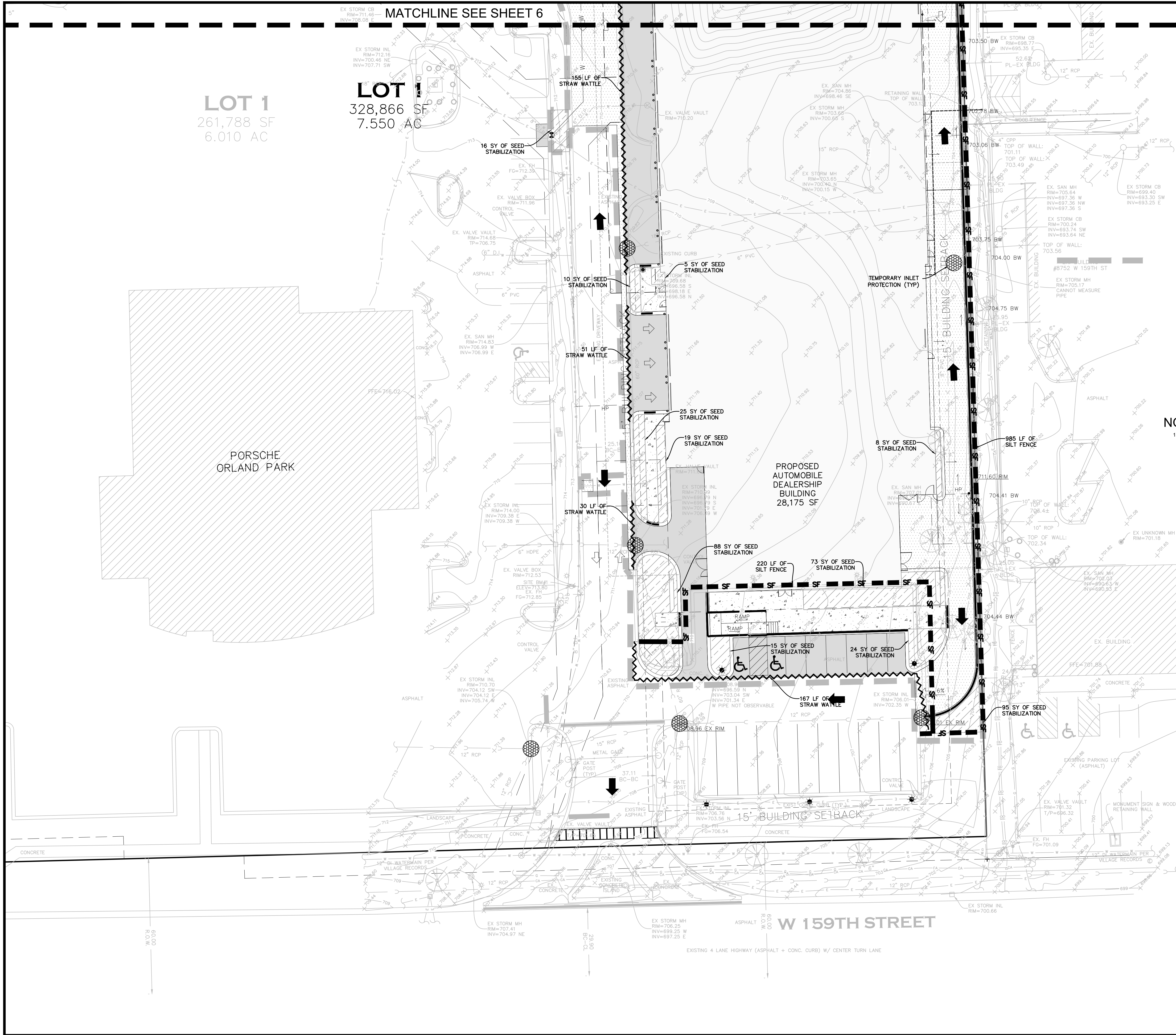
4222 Meridian Parkway, Suite 112

Aurora, IL 60504

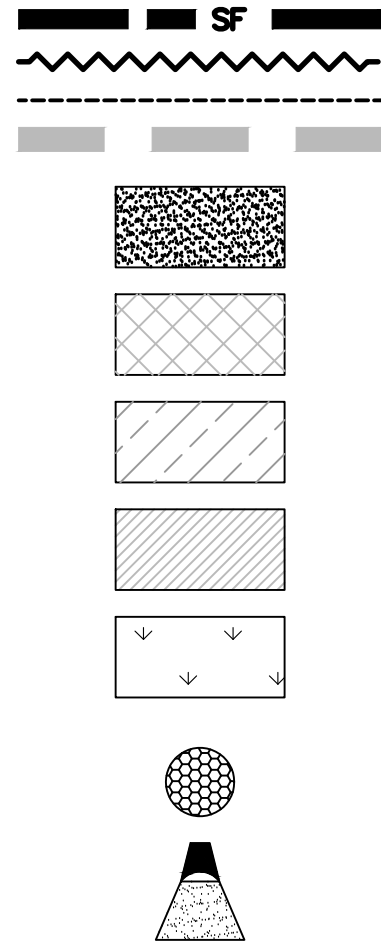
Office 630.554.8655

Lic. No. 184-005860

www.meritcorp.com



LEGEND



NOTES

1. ALL STABILIZATION IS THE MINIMUM STABILIZATION REQUIRED. CONTRACTOR SHALL REFER TO THE LANDSCAPE PLAN BY OTHERS FOR ALL PLANTING REQUIREMENTS

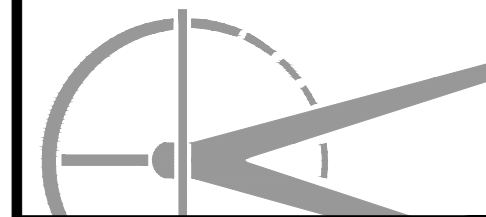
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RIZZA ACURA
8754 W. 159TH STREET
ORLAND PARK, ILLINOIS 60462

FINAL ENGINEERING PLANS

SOIL EROSION CONTROL PLAN SOUTH

PROJECT NO. M21149

DRAWN BY: ZDS & NFY

CHECKED BY: TDR

SHEET NO. 5 / 26

Other Office Locations:
Gurnee, IL

4222 Meridian Parkway, Suite 112

Aurora, IL 60504

Office 630.554.6655

Lic. No. 184-005860

www.meritcorp.com

CONSTRUCTION SEQUENCE

	2023											
	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
INSTALL TEMPORARY EROSION CONTROL PROTECTION												
DEMOLITION & ROUGH GRADE SITE												
UTILITY CONSTRUCTION AND BUILDING SERVICE LEADS												
INSTALL NEW PAVEMENT & CONCRETE CURB AND GUTTERS												
CONSTRUCTION OF BUILDINGS												
FINAL GRADING												
FINAL STABILIZATION & PERMANENT EROSION CONTROL PROTECTION												
REMOVE TEMPORARY EROSION CONTROL SEC MEASURES												

	2024											
	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
INSTALL TEMPORARY EROSION CONTROL PROTECTION												
DEMOLITION & ROUGH GRADE SITE												
UTILITY CONSTRUCTION AND BUILDING SERVICE LEADS												
INSTALL NEW PAVEMENT & CONCRETE CURB AND GUTTERS												
CONSTRUCTION OF BUILDINGS												
FINAL GRADING												
FINAL STABILIZATION & PERMANENT EROSION CONTROL PROTECTION												
REMOVE TEMPORARY EROSION CONTROL SEC MEASURES												

OPTIMAL SEEDING DATES

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
CEREAL RYE OR WHEAT												
OATS												
PERENNIAL RYEGRASS												
NON IRRIGATED												
IRRIGATED												
DORMANT SEEDING												

Species	Lbs./Acre	Lbs./1000 ft.2	Seeding Dates
Oats	90	2	Early spring – July 1
Cereal Rye	90	2	Early spring – Sept. 30
Wheat	90	2	Early spring – Sept. 30
Perennial Ryegrass	25	0.6	Early spring – Sept. 30

INSPECTION SCHEDULE

- DIVERSION AND STRUCTURAL MEASURES - WILL BE INSPECTED WEEKLY OR AFTER EVERY RAINSTORM PRODUCING RUNOFF.
- SEDIMENT BASINS AND PONDS - WILL BE CHECKED AFTER EACH MAJOR PHASE OF THE DEVELOPMENT FOR SEDIMENT ACCUMULATION.
- VEGETATIVE PLANTINGS - SPRING PLANTINGS WILL BE CHECKED DURING SUMMER OR EARLY FALL.
- REPAIRS - ANY EROSION CONTROL MEASURES, STRUCTURAL MEASURES OR OTHER RELATED ITEMS IN NEED OF REPAIR WILL BE MADE WITHIN 24 HOURS.
- MOWING - DRAINAGEWAYS, DITCHES, AND OTHER AREAS THAT SUPPORT A DESIGNATED FLOW OF WATER WILL BE MOWED REGULARLY TO MAINTAIN THAT FLOW.
- FERTILIZATION - SEEDED AREAS WHERE THE SEED HAS NOT PRODUCED A GOOD COVER WILL BE INSPECTED AND FERTILIZED IF NECESSARY.

EARTHWORK / EROSION & SEDIMENTATION CONTROL

- ALL CONSTRUCTION ACTIVITIES THAT INVOLVES EARTHWORK SHALL MEET THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM AND ILR10 GENERAL PERMIT REQUIREMENTS. CONTRACTOR SHALL BE REQUIRED TO SUBMIT ALL REQUIRED DOCUMENTATION TO THE IEPA ONLINE PORTAL AS NEEDED.
A) SUBMITTAL OF A NOTICE OF INTENT (NOI) TO IEPA, FEES, STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND A GRAPHIC EROSION AND SEDIMENT CONTROL (ESC) PLAN. A LETTER OF COVERAGE SHALL BE RECEIVED A MINIMUM 30 DAYS PRIOR TO THE START OF CONSTRUCTION.
B) POSSESSION OF A COMPLETED AND SIGNED SWPPP AND A GRAPHIC EROSION AND SEDIMENT CONTROL (ESC) PLAN.
C) IMPLEMENTATION OF THE SWPPP.
D) SUBMITTAL OF AN INCIDENT OF NONCOMPLIANCE (ION) IF AN EVENT OCCURS.
E) WEEKLY REPORTS AFTER 1/2" RAINFALL OR 5" SNOWFALL.
F) DOCUMENTATION OF CHANGES TO ESC PLAN.
G) SUBMITTAL OF A NOTICE OF TERMINATION (NOT) WHEN FINAL STABILIZATION IS ACHIEVED.
- ANY WETLAND MITIGATION SHALL BEGIN PRIOR TO ANY GRADING WORK AND SHALL BE IN ACCORDANCE WITH THE APPROVED MITIGATION PERMIT PLAN AND REQUIREMENTS.
- IN ORDER TO PROTECT AND ENSURE AGAINST FLOODING, ALL TOP OF FOUNDATIONS SHALL BE SET A MINIMUM OF ONE (1) FOOT ABOVE THE HIGH WATER LEVEL OF ADJACENT STORMWATER MANAGEMENT FACILITIES SUCH AS RETENTION/DETENTION PONDS.
- THE CONTRACTOR SHALL MAINTAIN EXISTING POSITIVE DRAINAGE FROM OFF-SITE AT ALL TIMES DURING CONSTRUCTION.
- WITHIN THE LIMITS OF PROPOSED GRADING THE SOIL SHALL BE COMPACTED TO NOT LESS THAN THE FOLLOWING PERCENTAGES OF MODIFIED PROCTOR DRY DENSITY IN ACCORDANCE WITH ASTM D 1557-78:
UNDER STRUCTURES, BUILDING SLABS, STEPS AND PAVEMENTS. COMPACT 6 INCH MAXIMUM LIFTS OF SUBGRADE, BACKFILL OR FILL MATERIAL AT 95% MODIFIED PROCTOR DRY DENSITY.
UNDER WALKWAYS. COMPACT 6 INCH MAXIMUM LIFTS OF DRY SUBGRADE, BACKFILL, OR FILL MATERIAL AT 95% MODIFIED PROCTOR DRY DENSITY.
UNDER LAWN OR UNPAVED AREAS. COMPACT 6 INCH MAXIMUM LIFTS OF SUBGRADE, BACKFILL, OR FILL MATERIAL AT 85% MODIFIED PROCTOR DRY DENSITY.
- STRIPPING OF VEGETATION, GRADING OR OTHER SOIL DISTURBANCE, ESPECIALLY IN DESIGNATED WETLAND AREAS, SHALL BE DONE IN A MANNER WHICH WILL MINIMIZE SOIL EROSION, AND SHALL BE IN ACCORDANCE WITH THE APPROVED DRAWINGS, MITIGATION AND PERMIT REQUIREMENTS.
- THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO MINIMIZE EARTHWORK IN AREAS WHERE TREES ARE TO BE SAVED AS SHOWN ON THE PLANS OR DETERMINED IN THE FIELD.
- THE EXTENT OF THE AREA WHICH IS EXPOSED AND FREE OF VEGETATION AND THE DURATION OF ITS EXPOSURE SHALL BE KEPT WITHIN PRACTICAL LIMITS AS DIRECTED BY THE CITY.
- SEDIMENTATION SHALL BE RETAINED ON SITE. SEDIMENT FENCE SHALL BE INSTALLED ALONG THE PERIMETER OF ALL REGRADED AREAS OR AS REQUIRED TO PREVENT SEDIMENT FROM ENTERING AND/OR LEAVING THE SITE.
- DUST PRODUCED FROM THE SITE SHALL BE KEPT TO A MINIMUM DURING DRY PERIODS BY SPRAYING WATER AS REQUIRED TO THE CITY'S SATISFACTION AND IS TO BE CONSIDERED INCIDENTAL.
- ALL MUD SHALL BE REMOVED FROM ALL TIRES BEFORE LEAVING THE SITE AND THE ROADS SHALL BE KEPT CLEAN AND CLEAR OF MUD AND DEBRIS AT ALL TIMES.
- CULVERTS AND DRAINAGE DITCHES SHALL BE KEPT CLEAN AND CLEAR OF OBSTRUCTIONS DURING THE CONSTRUCTION PERIOD.
- SILT FENCES SHALL BE INSPECTED FREQUENTLY AND MAINTAINED OR REPLACED AS REQUIRED TO MAINTAIN BOTH THEIR EFFECTIVENESS AND INTEGRITY.
- WATER COURSES AND DRAINAGE SWALES ADJACENT TO CONSTRUCTION ACTIVITIES SHALL BE MONITORED AS NECESSARY, FOR EVIDENCE OF SILT INTRUSION AND OTHER ADVERSE ENVIRONMENTAL IMPACTS. ANY PROBLEMS OR DEFICIENCIES SHALL BE CORRECTED IMMEDIATELY UPON THEIR DISCOVERY.
- THE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL ITEMS PRIOR TO COMMENCEMENT OF ANY WORK.
- THE CONTRACTOR SHALL INSTALL TEMPORARY ORANGE FENCE AROUND ALL TREES TO REMAIN AND WETLAND AREAS TO BE MITIGATED.
- ALL EROSION CONTROL MEASURES MUST BE INSPECTED EVERY 7 CALENDAR DAYS AND AFTER EACH 1/2" RAIN EVENT.
- ALL DROP INLETS ON AND ADJACENT TO THE SITE MUST HAVE A SEDIMENT TRAPPING OR CONTAINMENT DEVICE INSTALLED DURING CONSTRUCTION ACTIVITIES. FILTER FABRIC ON ITS OWN IS NOT AN APPROVED METHOD. A MANUFACTURER'S SPECIFICATION SHOULD BE USED FOR PREFABRICATED DROP INLET PROTECTION AND SHOULD BE AS RESTRICTIVE AS THE ILLINOIS URBAN MANUAL STANDARD 861 FOR INLET PROTECTION.
- STOCKPILES OF SOIL AND OTHER BUILDING MATERIALS TO REMAIN IN PLACE MORE THAN THREE (3) DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES (I.E. PERIMETER SILT FENCE), STOCKPILES, NOT BEING ACTIVELY WORKED AND TO REMAIN IN PLACE FOR 14 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING.
- THE SITE SHOULD BE PHASED IN A WAY THAT REDUCES THE AMOUNT OF STRIPPED, UNSTABILIZED AREAS WITHIN THE SITE AT ANY ONE TIME. MASS GRADING THE ENTIRE SITE SHOULD BE AVOIDED AS TO PREVENT EROSION ONSITE AND SEDIMENTATION ISSUES DOWNSTREAM.
- THE CONDITION OF THE CONSTRUCTION SITE FOR WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER BARE EARTH AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENT CONTROL. ALL OPEN AREAS THAT ARE TO REMAIN IDLE THROUGHOUT THE WINTER SHALL RECEIVE TEMPORARY EROSION CONTROL MEASURES INCLUDING TEMPORARY SEEDING, MULCHING AND/OR EROSION CONTROL BLANKET PRIOR TO THE END OF THE FALL GROWING SEASON. THE AREAS TO BE WORKED BEYOND THE END OF THE GROWING SEASON MUST INCORPORATE SOIL STABILIZATION MEASURES THAT DO NOT RELY ON VEGETATIVE COVER SUCH AS EROSION CONTROL BLANKET AND HEAVY MULCHING.

SILT FENCE PLAN

ELEVATION

FABRIC ANCHOR DETAIL

NDTES:

- 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.
- Filter Fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class I with equivalent opening size of at least 30 for nonwoven and 40 for woven.
- 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	STANDARD DWG. NO. IUM-620A
Designed	Date	SHEET 1 OF 2
Checked	Date	DATE 3-16-18
Approved	Date	

SILT FENCE - SPLICING TWO FENCES

ATTACHING TWO SILT FENCES

REFERENCE Project	Date	STANDARD DWG. NO. IUM-620B(W)
Designed	Date	SHEET 1 OF 1
Checked	Date	DATE 3-16-2012
Approved	Date	

TEMPORARY CONCRETE WASHOUT FACILITY - EARTHEN TYPE

PLAN VIEW

SIGN DETAIL

SUBGRADE ANCHOR SECTIONS

REFERENCE Project	Date	STANDARD DWG. NO. IUM-620C
Designed	Date	SHEET 2 OF 3
Checked	Date	DATE 3-16-2012
Approved	Date	

EROSION CONTROL BLANKET INSTALLATION DETAILS

DETAIL 1

DETAIL 2

DETAIL 3

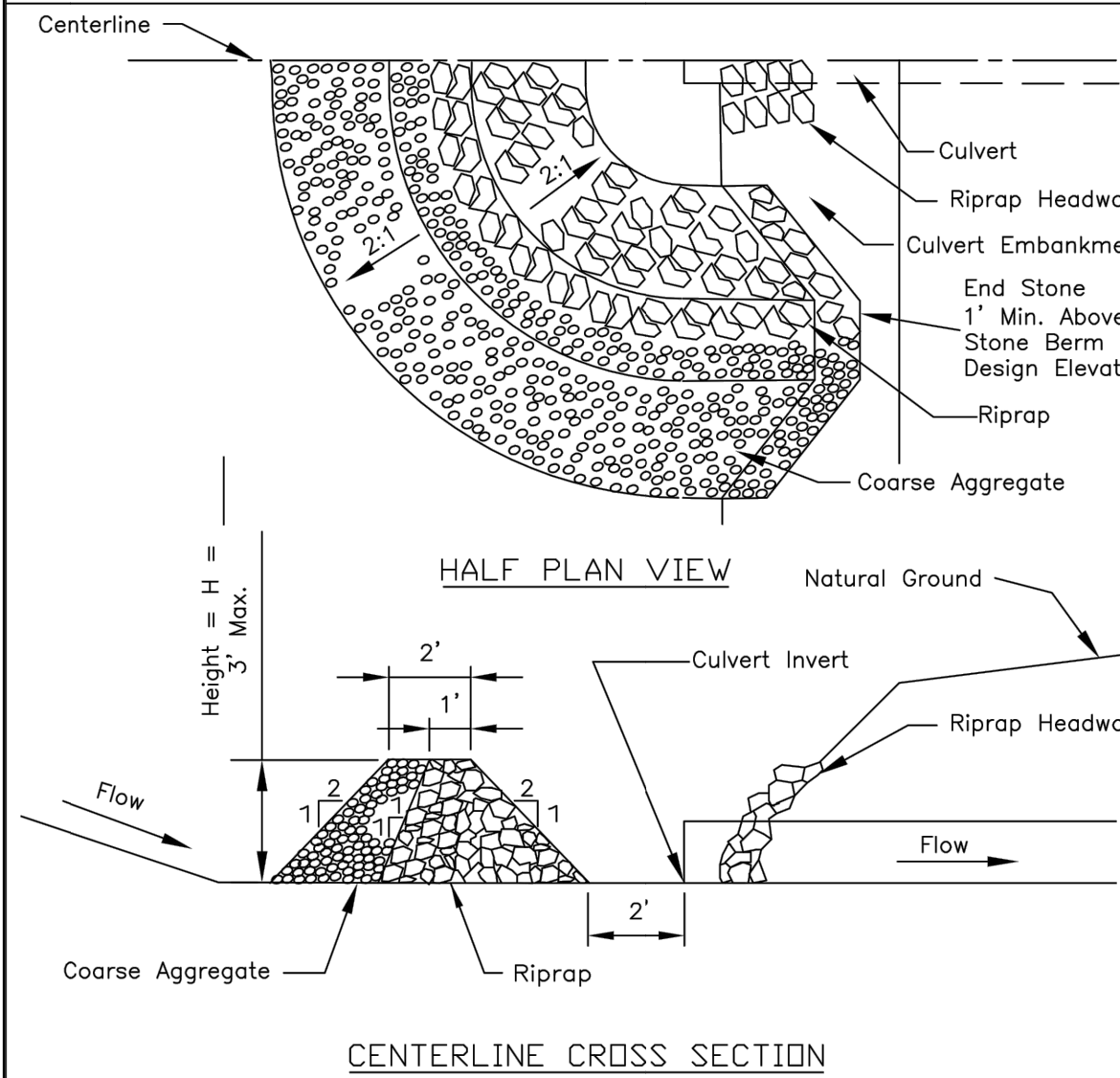
PUSH PIN DETAIL

NDTES:

- Staples shall be placed in a diamond pattern at 2 per s.y. for stitched blankets. Non-stitched shall use 4 staples per s.y. of material. This equates to 200 staples with stitched blanket and 400 staples with non-stitched blanket per 100 s.y. of material.
- Staple or push pin lengths shall be selected based on soil type and conditions. (minimum staple length is 6")
- Erosion control material shall be placed in contact with the soil over a prepared seedbed.
- All anchor slots shall be stapled at approximately 12" intervals.

REFERENCE Project	Date	STANDARD DWG. NO. IUM-620D
Designed	Date	SHEET 1 OF 1
Checked	Date	DATE 11-29-99
Approved	Date	

CULVERT INLET PROTECTION - STONE



- Notes:
- Sediment shall be removed when the sediment has accumulated to one-half the height of the stone berm.
 - Coarse aggregate shall meet one of the following IDOT coarse aggregate gradations, CA-1, CA-2, CA-3 or CA-4.
 - Riprap shall meet IDOT gradation RR-3 or RR-4. Any permanent riprap, such as for the culvert headwall, shall meet IDOT Quality Designation A.
 - Coarse aggregate and riprap shall be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
 - The maximum drainage area to the culvert being protected is 3 acres.
 - See plans for H dimension.
 - Tie the stone berm into the culvert embankment a minimum of 1 foot above the design elevation of the stone berm.

REFERENCE Project	Date	STANDARD DWG. NO. IL-508ST
Designed	Date	SHEET 1 OF 1
Checked	Date	DATE 1-29-99
Approved	Date	

STABILIZED CONSTRUCTION ENTRANCE PLAN

SECTION A-A

SECTION B-B

REFERENCE Project

Designed

Checked

Approved

DATE

STANDARD DWG. NO. IL-630

SHEET 2 OF 2

DATE 8-18-94

STABILIZED CONSTRUCTION ENTRANCE PLAN

PLAN VIEW

SIDE ELEVATION

NDTES:

- Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table I or 2, Class I, II or IV and shall be placed over the cleared area prior to the placing of rock.
- Rock or reclaimed concrete shall meet one of the following IDOT coarse aggregate gradation, 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.
- Any drainage facilities required because of washing shall be constructed according to manufacturers specifications.
- If wash racks are used they shall be installed according to the manufacturer's specifications.

REFERENCE Project	Date	STANDARD DWG. NO. IL-630
Designed	Date	SHEET 1 OF 2
Checked	Date	DATE 8-18-94
Approved	Date	

CONTRACTOR CERTIFICATION STATEMENT

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT (ILR 10) THAT AUTHORIZES THE STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

Dated this _____ day of _____, AD 20__

BY: _____

Title: _____

Company: _____

Address: _____

Phone: _____

OWNER CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION. THE INFORMATION IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

OWNER _____ DATE _____

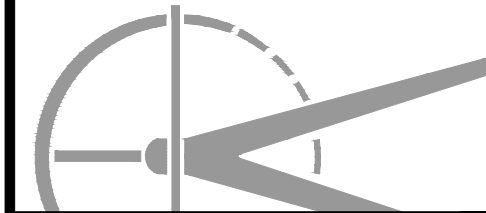
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DESCRIPTION: ISSUED FOR REVIEW

DATE: 05-22-2023

ENGINEERING - PLANNING - SURVEYING - ENVIRONMENTAL



RIZZA ACURA
8754 W. 159TH STREET
ORLAND PARK, ILLINOIS 60462

FINAL ENGINEERING PLANS

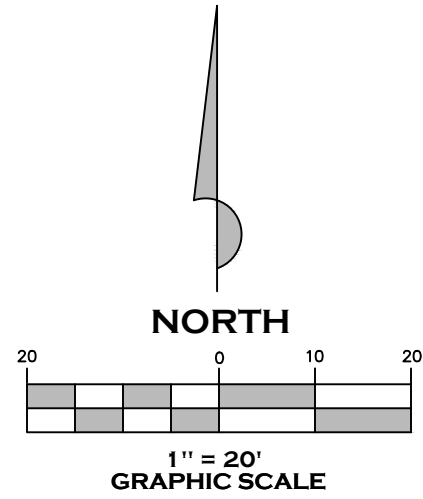
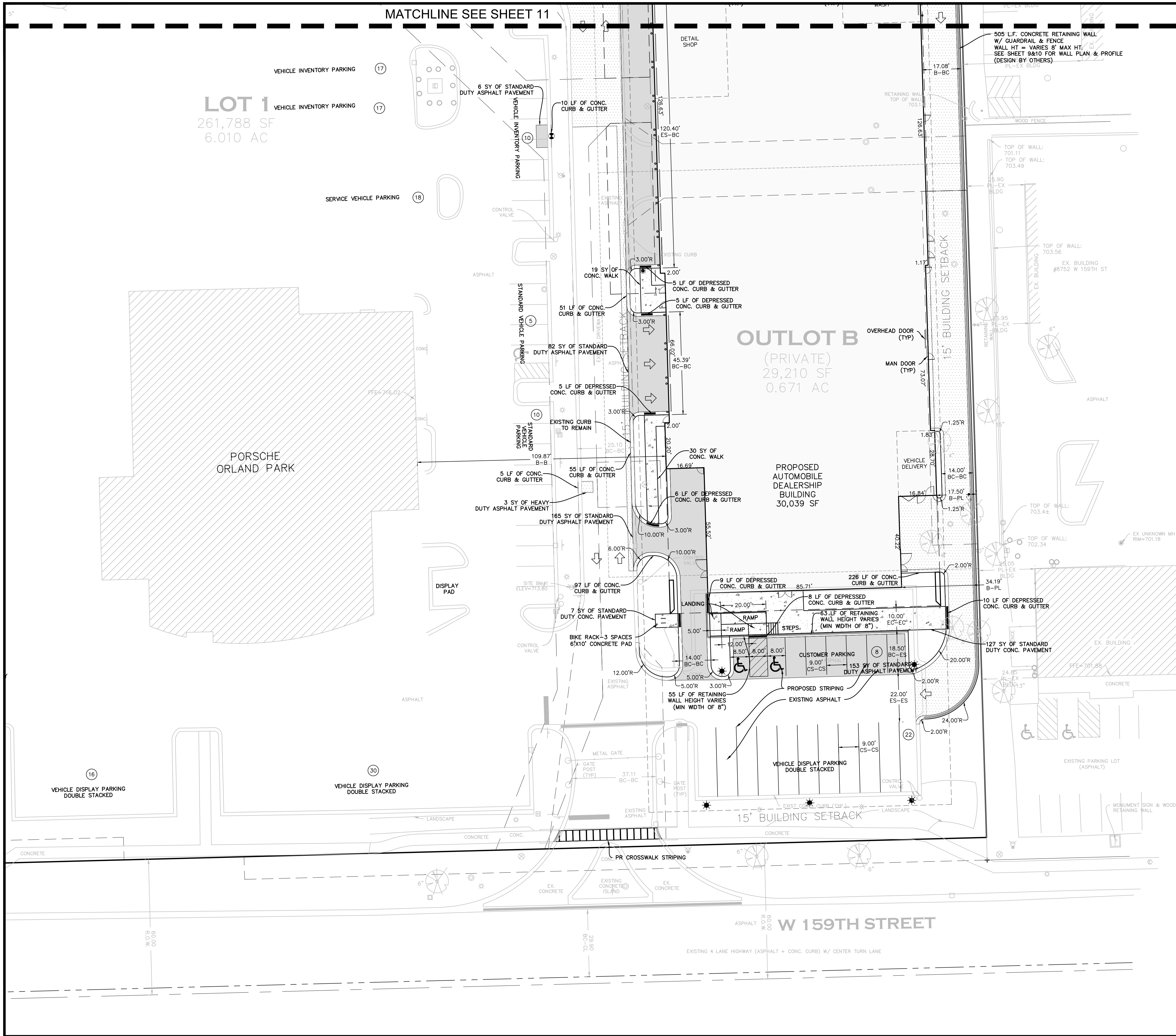
SOIL EROSION CONTROL NOTES & DETAILS

PROJECT NO. M21149

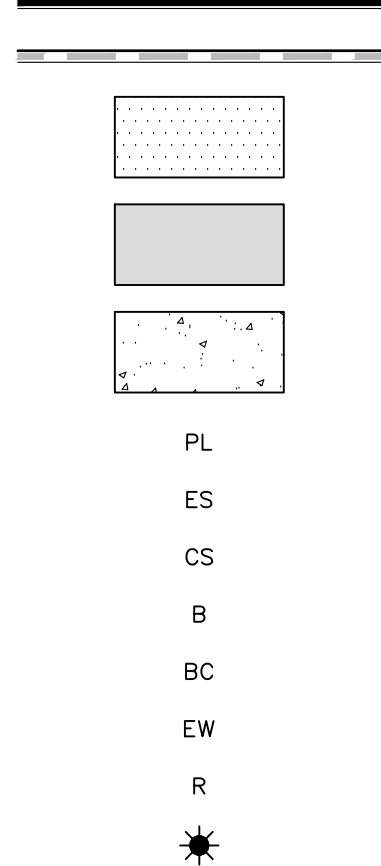
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SHEET NO. 7 / 26



LEGEND



- DEPRESSED CURB AND GUTTER (SEE DETAIL SHEET)
- REVERSE PITCH CURB AND GUTTER
- HEAVY DUTY ASPHALT PAVEMENT (SEE DETAIL SHEET)
- STANDARD DUTY ASPHALT PAVEMENT (SEE DETAIL SHEET)
- CONCRETE PAVEMENT (SEE DETAIL SHEET)
- PROPERTY LINE
- EDGE OF STRIPE
- CENTER OF STRIPE
- BUILDING
- BACK OF CURB
- EDGE OF WALK
- RADIUS
- LIGHT POLE & BASE

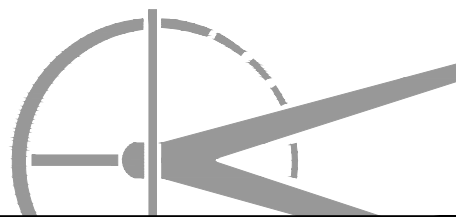
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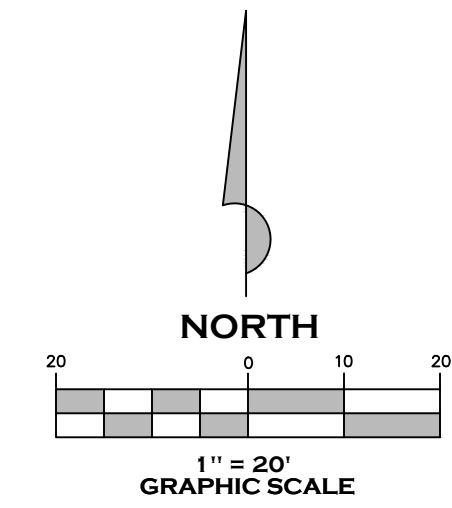
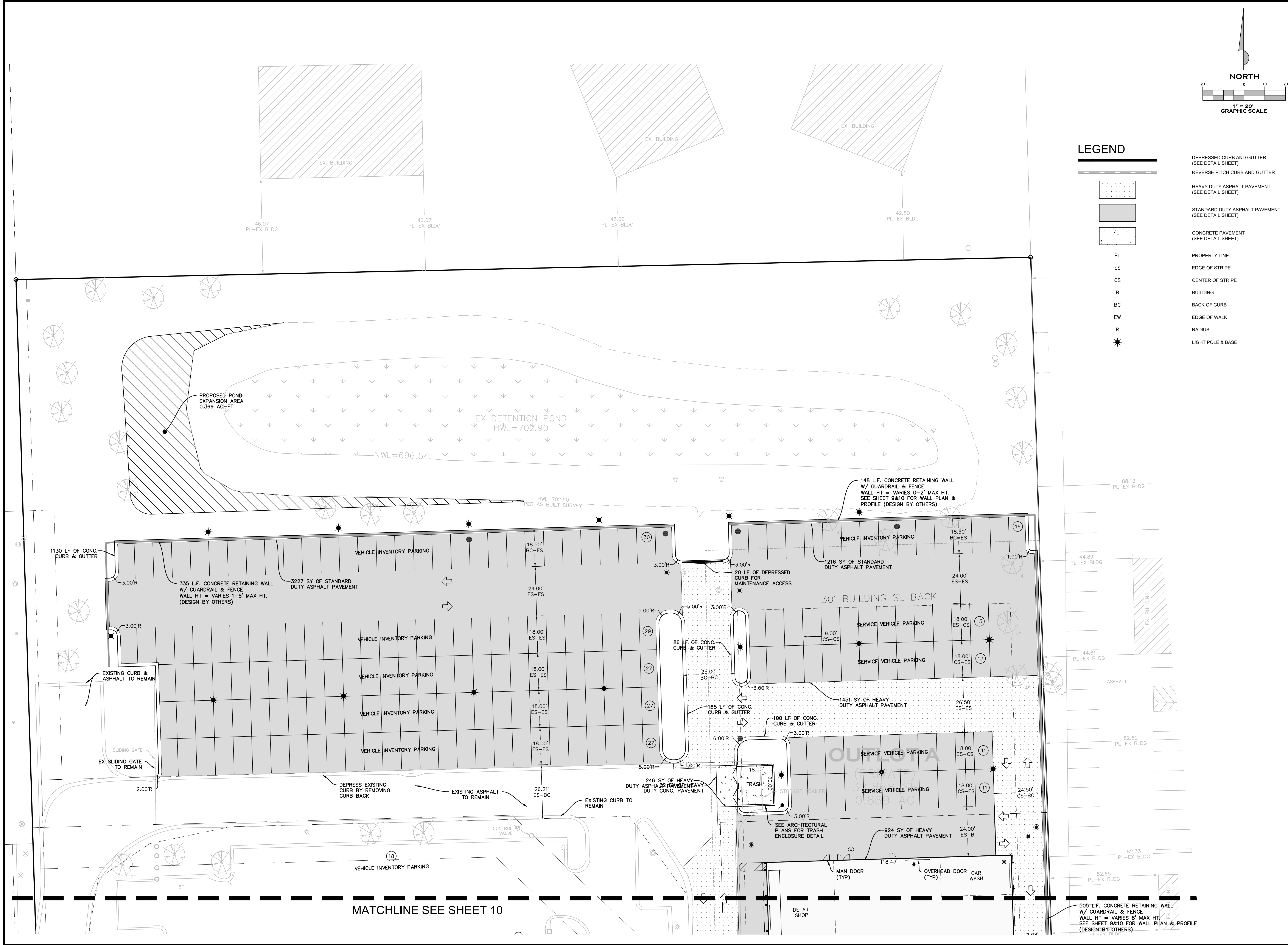
RIZZA ACURA
8754 W. 159TH STREET
ORLAND PARK, ILLINOIS 60462
FINAL ENGINEERING PLANS
GEOMETRIC PLAN SOUTH

PROJECT NO. M21149

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SHEET NO. 10/26



LEGEND

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| | DEPRESSED CURB AND GUTTER
(SEE DETAIL SHEET) |
| | REVERSE PITCH CURB AND GUTTER
(SEE DETAIL SHEET) |
| | HEAVY DUTY ASPHALT PAVEMENT
(SEE DETAIL SHEET) |
| | STANDARD DUTY ASPHALT PAVEMENT
(SEE DETAIL SHEET) |
| | CONCRETE PAVEMENT
(SEE DETAIL SHEET) |
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| | BACK OF CURB |
| | EDGE OF WALK |
| | RADIUS |
| | LIGHT POLE & BASE |

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Gurnee, IL

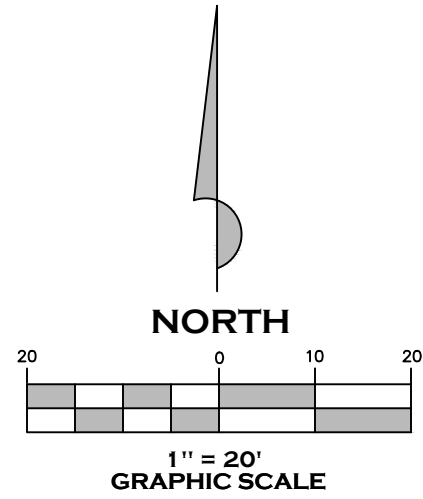
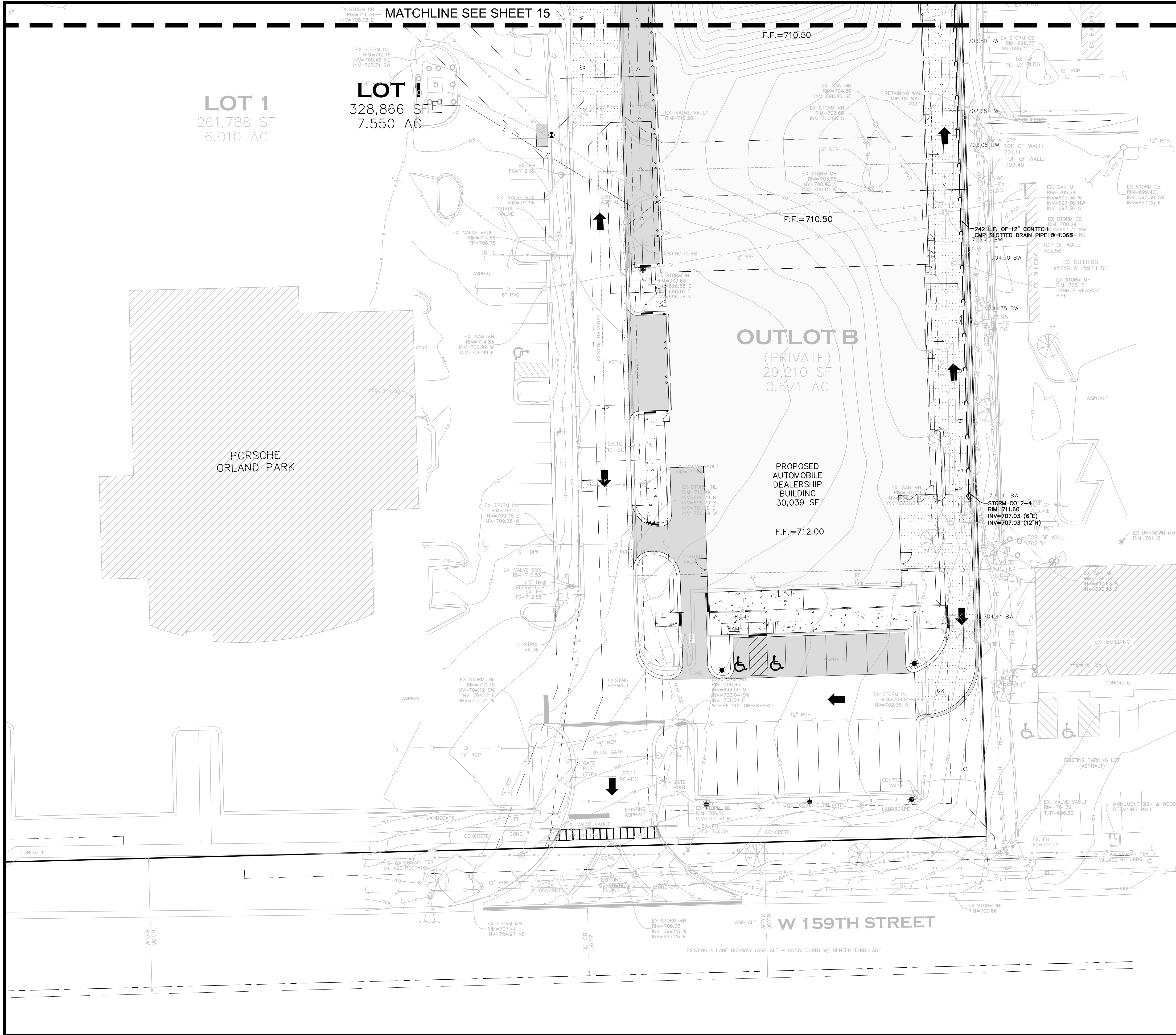
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FINAL ENGINEERING PLANS
GEOMETRIC PLAN NORTH

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SHEET NO. 11 / 26



LEGEND

- STORM SEWER
- STORM CURB FRAME & GRATE
- STORM MANHOLE
- STORM CATCH BASIN
- STORM FLARED END SECTION

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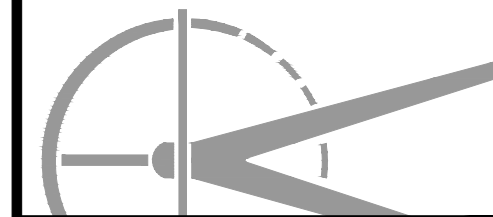
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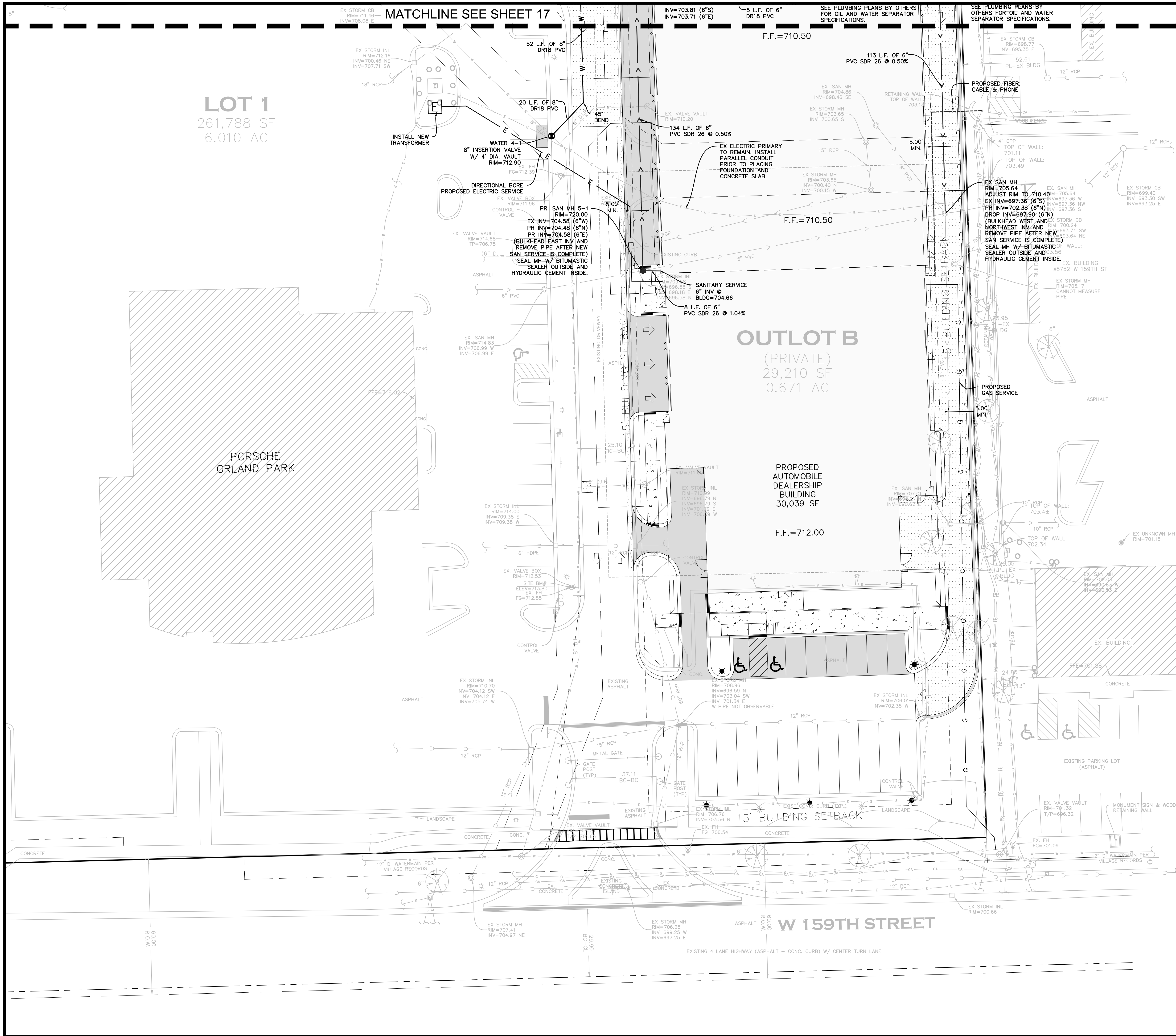
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FINAL ENGINEERING PLANS
STORM SEWER PLAN SOUTH

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RIZZA ACURA

8754 W. 159TH STREET

ORLAND PARK, ILLINOIS 60462

FINAL ENGINEERING PLANS

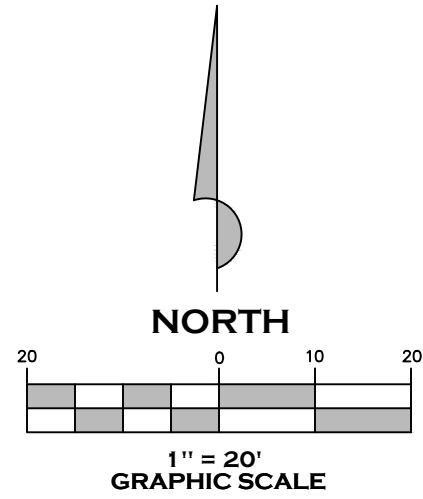
UTILITY PLAN SOUTH







PROJECT NO. M21149

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SHEET NO. 16 / 26



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TELEPHONE LINE
ELECTRIC LINE
GAS LINE
SANITARY LINE
WATER LINE
SANITARY MANHOLE
VALVE VAULT
FIRE HYDRANT
BUFFALO BOX
GAS VALVE
CLEAN OUT

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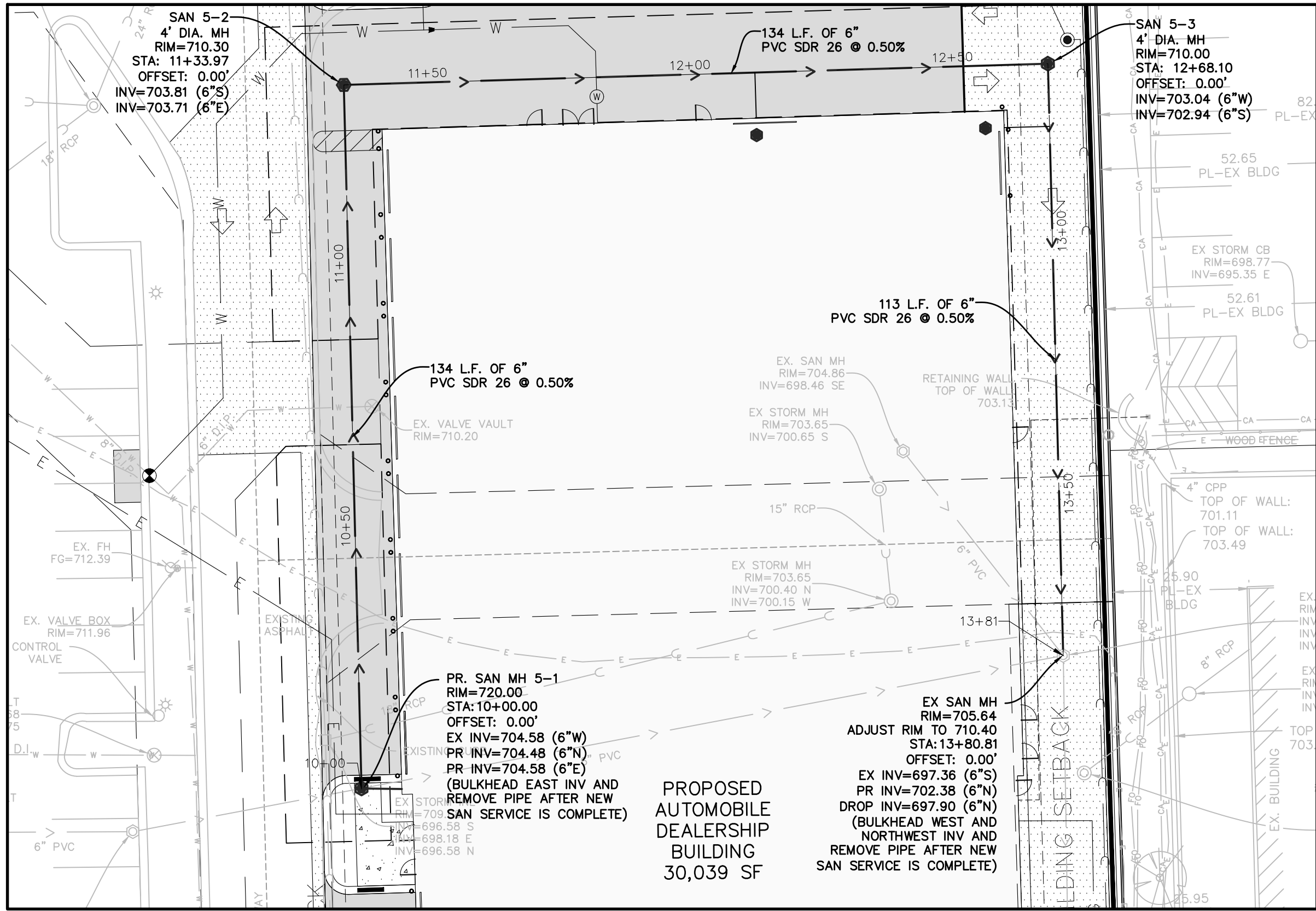
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8754 W. 159TH STREET
ORLAND PARK, ILLINOIS 60462
FINAL ENGINEERING PLANS
UTILITY PLAN NORTH**

PROJECT NO. M21149

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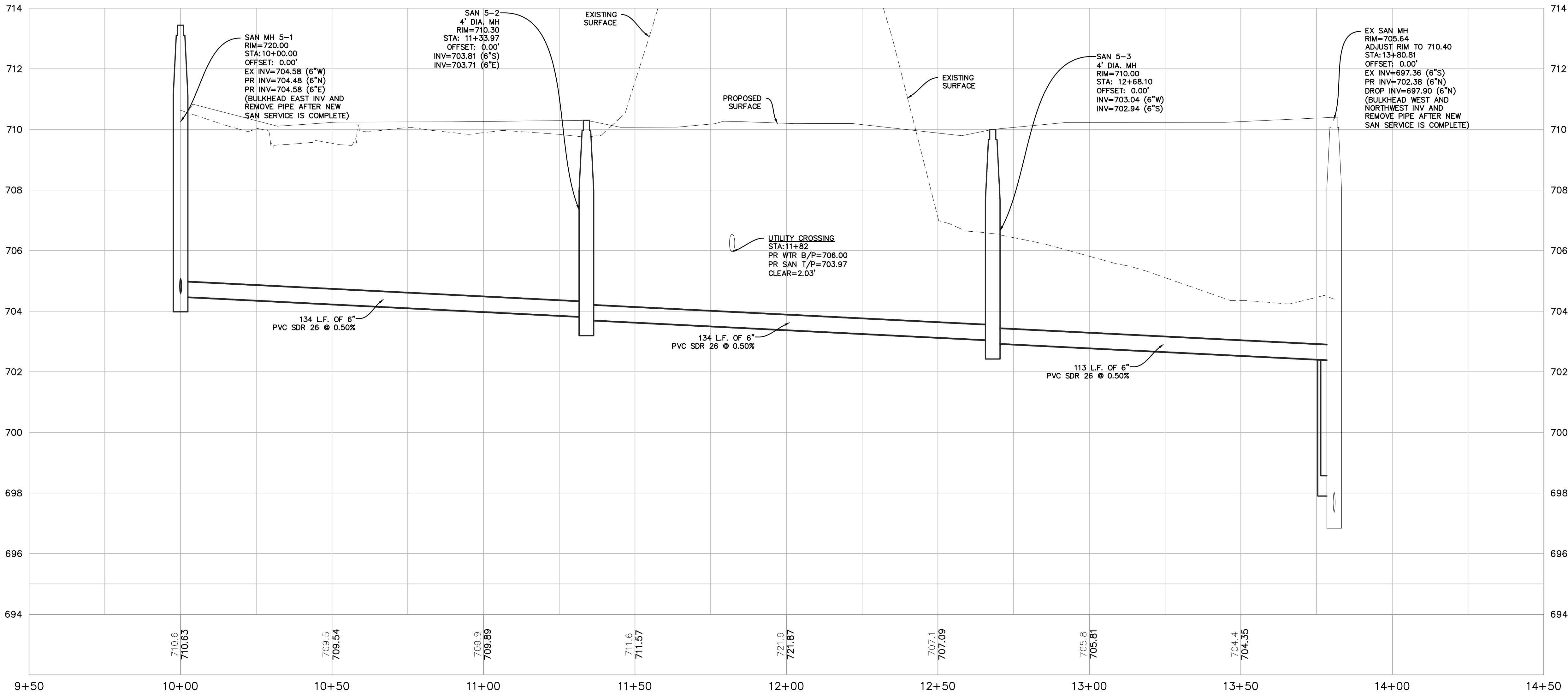
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SHEET NO. 17 / 26



LEGEND

- XXXXXXXXXX
- C
- <
- W
- 720
- MANHOLE
- STORM CURB FRAME & GRATE
- STORM MANHOLE
- STORM CATCH BASIN
- SANITARY MANHOLE
- VALVE VAULT
- FIRE HYDRANT
- BUFFALO BOX
- SINGLE POLE SIGN
- STREET LIGHT
- CONCRETE SIDEWALK
- NEW HEAVY DUTY ASPHALT PAVEMENT (SEE DETAIL SHEET)

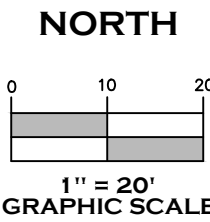


NOTES

- ALL EXISTING UTILITY STRUCTURE ADJUSTMENTS SHALL BE TO FINISHED GRADE AND PER MANUFACTURER AND MUNICIPAL SPECIFICATION. CONTRACTOR SHALL FIELD VERIFY AND NOTIFY ENGINEER OF DISCREPANCIES.

SANITARY PROFILE

SCALE: 1"=20'



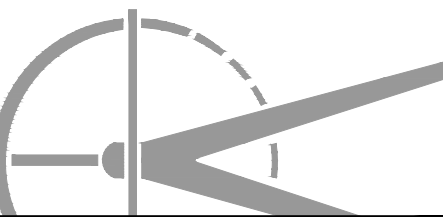
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FINAL ENGINEERING PLANS
SANITARY SEWER PLAN AND PROFILE
STA: 10+00 - 13+80

PROJECT NO. M21149

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SHEET NO. 18 / 26

GENERAL SITE IMPROVEMENTS

1. COPIES OF THE REFERENCED STANDARD SPECIFICATIONS, CONSTRUCTION PLANS AND DETAILS ARE ALL TO BE CONSIDERED AS PART OF THE CONTRACT. INCIDENTAL ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THIS WORK MAY NOT BE SPECIFICALLY NOTED BUT ARE CONSIDERED A PART OF THIS CONTRACT.
2. THE GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND GENERAL REQUIREMENTS (IF ANY) APPLY TO THE WORK SPECIFIED IN THE PLANS.
3. EASEMENTS FOR EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTILITIES WITHIN PUBLIC RIGHTS-OF-WAY ARE SHOWN ON THE PLANS ACCORDING TO INFORMATION AVAILABLE IN THE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF THESE UTILITY LINES IN THE FIELD AND FOR THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DEVELOPER'S REPRESENTATIVE SO THE CONFLICT MAY BE RESOLVED. THE CONTRACTOR SHALL CALL 811 OR J.U.L.I.E. (800-892-0123) PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL PRIVATE AND PUBLIC UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN IN THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE, TO THE SATISFACTION OF THE UTILITY OWNER.
5. RELOCATING UTILITIES SHALL BE THE RESPONSIBILITY OF THE OWNERS EXCEPT WHEN NOTED IN THE PLANS. THE CONTRACTOR SHALL COORDINATE WITH THESE OWNERS WHEN MOVING IS NECESSARY.
6. EXPENSE IN CONNECTING PROPOSED UTILITIES TO EXISTING UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT.
7. THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY OWNERS. THE CONTRACTOR SHALL NOTIFY ALL UTILITY OWNERS PRIOR TO CONSTRUCTION.
8. ALL UTILITY WORK WHERE THE INNER EDGE OF THE TRENCH IS WITHIN 2 FEET OF ANY EDGE OF PAVEMENT, CURB, GUTTER, CURB AND GUTTER, STABILIZED SHOULDER OR SIDEWALK SHALL RECEIVE TRENCH BACKFILL. TRENCH BACKFILL SHALL BE INSTALLED PER LOCAL MUNICIPAL REQUIREMENTS OR AT A MINIMUM FOLLOW IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 208 FOR TRENCH BACKFILL.
9. ALL FIELD TILE ENCOUNTERED DURING CONSTRUCTION OPERATIONS SHALL BE BROUGHT TO THE ATTENTION OF VILLAGE & CONNECTED TO THE PROPOSED STORM SEWER SYSTEM OR EXTENDED TO OUTLET INTO A PROPOSED DRAINAGE SWALE. IF THIS CANNOT BE ACCOMPLISHED, THEN IT SHALL BE REPAIRED WITH NEW PIPE OF SIMILAR SIZE AND MATERIAL TO THE ORIGINAL LINE AND PUT IN ACCEPTABLE OPERATING CONDITION. A RECORD OF THE LOCATION OF ALL FIELD TILE OR DRAIN PIPE ENCOUNTERED SHALL BE KEPT BY THE CONTRACTOR AND SUBMITTED TO THE MUNICIPALITY UPON COMPLETION OF THE PROJECT.
10. WHENEVER ANY LOOSE MATERIAL IS DISPOSED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES OR DITCHES SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
11. REMOVED DRIVEWAY PAVEMENT, SIDEWALK AND CURBS AND CURB AND GUTTER SHALL BE DISPOSED OF OFF-SITE AT LOCATIONS PROVIDED BY THE CONTRACTOR AT HIS OWN EXPENSE.
12. BEFORE APPROPRIATE ACCEPTANCE BY THE OWNER AND/OR THE MUNICIPALITIES AND FINAL PAYMENT, ALL WORK SHALL BE INSPECTED AND APPROVED BY THE MUNICIPALITIES AND THE OWNER OR HIS REPRESENTATIVES. FINAL PAYMENT WILL BE MADE AFTER ALL OF THE CONTRACTOR'S WORK HAS BEEN APPROVED AND ACCEPTED. THE CONTRACTOR SHALL GUARANTEE HIS WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE AND SHALL BE HELD RESPONSIBLE FOR ANY DEFECTS IN MATERIAL OR WORKSMANSHIP OF THIS WORK DURING THAT PERIOD.
13. TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH I.D.O.T. STANDARDS SHALL BE INSTALLED AND PROVIDED WHENEVER CONSTRUCTION WITHIN ANY AREA, ORDINANCES OF THE MUNICIPALITY MAY ALSO GOVERN TRAFFIC CONTROL. THE COST OF PROVIDING, INSTALLING AND MAINTAINING NECESSARY TRAFFIC CONTROL DEVICES SHALL BE INCIDENTAL TO THE CONTRACT.
14. ALL PROPOSED ELEVATIONS SHOWN ON PLANS ARE FINISHED SURFACE ELEVATIONS UNLESS OTHERWISE SPECIFIED.
15. UPON AWARDING OF THE CONTRACT AND WHEN REQUIRED BY THE MUNICIPALITY, THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL AND PERFORMANCE BOND IN THE AMOUNT REQUIRED BY THE MUNICIPALITY TO GUARANTEE COMPLETION OF THE WORK. THE UNDERWRITER SHALL BE ACCEPTABLE TO THE MUNICIPALITY. THE CONTRACTOR SHALL NOT COMMENCE WORK UNTIL ALL REQUIRED INSURANCE IS OBTAINED AND ACCEPTED.
16. ALL PERMITS, BONDS AND EVIDENCE OF INSURANCE AS REQUIRED BY UTILITY COMPANIES AND THE MUNICIPALITY SHALL BE OBTAINED BY THE CONTRACTOR AND THE COST OF THESE PERMITS AND BONDS SHALL BE BORNE BY THE CONTRACTOR AND SHALL BE INCIDENTAL TO THE CONTRACT.
17. THE CONTRACTOR SHALL COLLECT AND REMOVE ALL CONSTRUCTION DEBRIS, EXCESS MATERIALS, TRASH, OIL AND GREASE RESIDUE, MACHINERY, TOOLS AND OTHER MISCELLANEOUS ITEMS WHICH ARE PRESENT UPON COMPLETION OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ANY AND ALL PERMITS NECESSARY FOR THE HAULING AND DISPOSAL REQUIRED FOR CLEAN-UP AS DIRECTED BY THE MUNICIPALITY OR OWNER. BURNING ON THE SITE IS NOT PERMITTED.
18. NO CONSTRUCTION PLAN SHALL BE USED FOR CONSTRUCTION UNLESS SPECIFICALLY MARKED FOR CONSTRUCTION. PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THE WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IN ADDITION, THE CONTRACTOR MUST VERIFY ALL LINE AND GRADE STAKES PROVIDED BY THE OWNER. IF THERE ARE ANY DISCREPANCIES WITH WHAT IS SHOWN ON THE CONSTRUCTION PLANS, HE MUST IMMEDIATELY REPORT TO THE OWNER BEFORE DOING ANY WORK OR ASSUME FULL RESPONSIBILITY. IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE OWNER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR DISCREPANCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND SHALL PROCEED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTIONS ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE OWNER SHALL BE FINAL.
19. NOTIFICATION OF COMMENCING CONSTRUCTION: A. THE CONTRACTOR SHALL NOTIFY THE OWNER AND/OR HIS REPRESENTATIVE AND THE AFFECTED GOVERNMENTAL AGENCIES IN WRITING AT LEAST THREE FULL WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL NOTIFY, AS NECESSARY, ALL TESTING AGENCIES. B. FAILURE OF CONTRACTOR TO ALLOW PROPER NOTIFICATION TIME WHICH RESULTS IN TESTING COMPANIES BEING UNABLE TO VISIT SITE AND PERFORM TESTING WILL CAUSE CONTRACTOR TO SUSPEND OPERATION (PERTAINING TO TESTING) UNTIL TESTING AGENCY CAN SCHEDULE TESTING OPERATIONS. THE COST OF SUSPENSION OF WORK SHALL BE BORNE BY THE CONTRACTOR.
20. ALL CONTRACTORS SHALL KEEP ACCESS AVAILABLE AT ALL TIMES FOR EMPLOYEES AND EMERGENCY VEHICLES. AT NO TIME SHALL ACCESS BE DENIED TO EMPLOYEES OF THE SITE.
21. THE CONTRACTOR SHALL PROVIDE ELECTRONIC COPIES AND 2 SETS OF COPIES OF "RECORD" DRAWINGS TO THE ENGINEER AND OWNER FOR APPROVAL PRIOR TO SUBMITTING RECORD PLANS TO THE MUNICIPALITY FOR ANY REQUEST FOR FINAL INSPECTION. SAID PLANS SHALL INDICATE THE FINAL LOCATIONS AND LAYOUT OF ALL IMPROVEMENTS AND SHALL INCLUDE VERIFICATION AND SPOT GRADE ELEVATIONS AND INCORPORATE ALL DESIGN CHANGES APPROVED BY THE MUNICIPALITY. MYLAR DRAWINGS SHALL BE PROVIDED WHEN THE COPIES ARE APPROVED BY THE MUNICIPALITY.
22. THE CONTRACTOR SHALL VIDEO RECORD THE WORK AREA PRIOR TO CONSTRUCTION FOR THE PURPOSE OF DOCUMENTING EXISTING CONDITIONS.
23. ALL IMPROVEMENTS SHOWN ON THE PLANS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

WATER DISTRIBUTION SYSTEM

1. ALL WATER MAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" (STANDARD SPECIFICATIONS), LATEST EDITION, AND THE REQUIREMENTS OF THE I.E.P.A., O.S.H.A. AND THE MUNICIPALITY.
2. ALL WATER MAIN SHALL BE DUCTILE IRON CLASS 52, WITH MECHANICAL JOINTS AS SHOWN ON THE PLANS. ALL WATER SERVICES LEADS SHALL BE TYPE "K" COPPER UNLESS OTHERWISE SPECIFIED ON THE PLANS.
3. ALL TEES, BENDS, VALVES, AND FIRE HYDRANTS SHALL BE ADEQUATELY SUPPORTED WITH A CONCRETE BASE, AND SUPPORTED LATERALLY WITH POURED IN PLACE THRUST BLOCKING AGAINST UNDISTURBED EARTH.
4. DISINFECTION OF THE WATER MAINS - UPON COMPLETION OF THE NEWLY LAID WATER MAINS, THE WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATION PROCEDURE DESIGNATION AWWA C-651-99, LATEST EDITION. THE CONTRACTOR IS RESPONSIBLE FOR COLLECTING SAMPLES AND HAVING BACTERIOLOGICAL TESTING PERFORMED AS REQUIRED BY THE I.E.P.A. THE CONTRACTOR SHALL FURNISH TO THE MUNICIPALITY THE REQUIRED DOCUMENTATION, TEST RESULTS, ETC., REQUIRED BY THE I.E.P.A. FOR PLACING THE WATER MAINS OR SERVICE LINES IN SERVICE AND/OR SECURING AN OPERATING PERMIT. WATERMAINS AND WATER SERVICE LEADS SHALL BE PRESSURE TESTED AND LEAK TESTED IN CONFORMANCE WITH AWWA C600 AND C605.
5. UPON COMPLETION OF NEWLY LAID WATERMAIN, THE WATERMAIN SHALL BE PRESSURE TESTED AND LEAK TESTED IN CONFORMANCE WITH MUNICIPALITY AND AWWA C600 AND C605 PROVISIONS.
6. WATER MAINS AND WATER SERVICE LINES SHALL BE PROTECTED FROM SANITARY SEWERS, STORM SEWERS, COMBINED SEWERS, HOUSE SEWERS AND DRAINAGE IN ACCORDANCE WITH TITLE 16, ENVIRONMENTAL PROTECTION AGENCY SUBTITLE F: PUBLIC WATER SUPPLIES, CHAPTER II: ENVIRONMENTAL PROTECTION AGENCY, PARTS 651-654 TECHNICAL POLICY STATEMENTS, SECTION 653.119."
7. WHENEVER POSSIBLE, A WATER MAIN MUST BE LAID AT LEAST TEN FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED DRAIN OR SEWER LINE. SHOULD LOCAL CONDITIONS EXIST WHICH WOULD PREVENT A LATERAL SEPARATION OF TEN FEET, A WATER MAIN MAY BE LAID CLOSER THAN TEN FEET TO A STORM OR SANITARY SEWER PROVIDED THAT THE WATER MAIN INVERT IS AT LEAST EIGHTEEN INCHES ABOVE THE CROWN OF THE SEWER, AND IS EITHER IN A SEPARATE TRENCH OR IN THE SAME TRENCH ON AN UNDISTURBED EARTH SHELFLOCATED TO ONE SIDE OF THE SEWER. IF IT IS IMPOSSIBLE TO OBTAIN PROPER HORIZONTAL OR VERTICAL SEPARATION AS DESCRIBED ABOVE, THEN THE SEWER MUST ALSO BE CONSTRUCTED OF WATER MAIN TYPE MATERIAL (DUCTILE IRON PIPE WITH SLIP-ON OR MECHANICAL JOINTS, ETC.) AND PRESSURE TESTED TO THE MAXIMUM EXPECTED SURCHARGE HEAD TO ASSURE WATER TIGHTNESS BEFORE BACKFILLING.
8. WATER VALVES AND FIRE HYDRANTS SHALL BE OPERATED BY MUNICIPAL PERSONNEL, ONLY.
9. ALL WATERMAIN PIPE, JOINTS AND FITTINGS SHALL BE INSTALLED AND BACKFILLED PER THE CORRESPONDING MANUFACTURER SPECIFICATIONS. SHOULD THERE BE ANY DISCREPANCIES BETWEEN MANUFACTURERS SPECIFICATIONS AND FEDERAL, STATE, OR LOCAL CODES, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO BIDDING AND ORDERING THE MATERIAL.
10. ALL NOTES AND CONDITIONS SHOWN ON THE PLANS SHALL APPLY.

EARTHWORK

1. ALL SITE WORK, GRADING AND EMBANKMENT CONSTRUCTION WITHIN THE LIMITS OF THIS PROJECT SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS" (STANDARD SPECIFICATIONS), THE MOST RECENT EDITION.
2. EARTH EXCAVATION SHALL INCLUDE CLEARING, STRIPPING AND STOCKPILING TOPSOIL, REMOVING UNSUITABLE MATERIALS, THE CONSTRUCTION OF EMBANKMENTS, NON-STRUCTURAL FILLS, FINAL SHAPING AND TRIMMING TO THE LINES, GRADES AND CROSS-SECTIONS SHOWN ON THE PLANS. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE PROVISIONS OF SECTION 200 OF THE STANDARD SPECIFICATIONS. ALL UNSUITABLE OR EXCESS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR.
3. TOPSOIL EXCAVATED SHALL BE STOCKPILED ON THE SITE OR IN AREAS DESIGNATED BY THE OWNER UNTIL SUCH TIME THAT THIS TOPSOIL CAN BE USED FOR FINAL GRADING.
4. THE CONTRACTOR IS REFERRED TO SOILS INVESTIGATION FOR THE SITE AND ALL ADDENDA THERETO, SHOWING THE RESULTS OF SUBSURFACE INVESTIGATION MADE ON THIS SITE. COPIES OF SAID SOILS REPORTS ARE ON FILE WITH THE OWNER AND ARE AVAILABLE FOR INSPECTION. THE RECOMMENDATIONS OF SOIL INVESTIGATIONS AS STATED IN SAID REPORT ARE HEREBY INCORPORATED INTO THESE CONSTRUCTION NOTES BY REFERENCE AND SHALL BE FOLLOWED BY THE CONTRACTORS. THE GRADING OPERATIONS ARE TO BE CLOSELY SUPERVISED AND INSPECTED, PARTICULARLY DURING THE REMOVAL OF UNSUITABLE MATERIAL AND THE CONSTRUCTION OF EMBANKMENTS, BY THE SOILS ENGINEER OR HIS REPRESENTATIVE.
5. THE GRADING AND CONSTRUCTION OF THE IMPROVEMENTS SHALL NOT CAUSE PONDING OF STORM WATER, ALL AREAS ADJACENT TO THESE IMPROVEMENTS SHALL BE GRADED TO ALLOW POSITIVE DRAINAGE.
6. ALL TESTING, INSPECTION AND SUPERVISION OF SOILS QUALITY, UNSUITABLE REMOVAL AND ITS REPLACEMENT AND OTHER SOILS RELATED OPERATIONS SHALL BE ENTIRELY THE RESPONSIBILITY OF THE SOILS ENGINEER AND THE OWNER.
7. THE PROPOSED GRADING ELEVATIONS SHOWN ON THE PLANS ARE FINISH GRADE. A MINIMUM OF SIX (6) INCHES OF TOPSOIL IS TO BE PLACED IN OPEN AREAS BEFORE FINISH GRADE ELEVATIONS ARE ACHIEVED.
8. THE CONTRACTOR WILL USE CARE WHEN GRADING NEAR TREES, SHRUBS AND BUSHES WHICH ARE NOT TO BE REMOVED SO AS NOT TO CAUSE INJURY TO ROOTS OR TRUNKS. SHOULD THE EXISTING BECOME DAMAGED OR DIE, CONTRACTOR SHALL REPLACE IN KIND AT THE CONTRACTOR'S OWN EXPENSE AND SHALL BE INCIDENTAL TO THE CONTRACT. SEE LANDSCAPE PLANS FOR TREES THAT ARE NOT TO BE REMOVED.
9. THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS WHICH ARE NOT INDICATED TO BE REMOVED. ANY DAMAGE DUE TO THESE EXISTING ITEMS BY CONTRACTOR'S OPERATIONS SHALL BE REPAIRED BY HIM AT HIS OWN EXPENSE.
10. UNSUITABLE MATERIAL ENCOUNTERED IN EXCAVATING FOR PAVEMENT SUBGRADES SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL TO THE LIMITS APPROVED BY THE OWNER. UNSUITABLE MATERIAL THAT IS EXCAVATED, AS DIRECTED BY THE SOILS ENGINEER AND OWNER, SHALL BE DISPOSED OF AT THE CONTRACTOR'S OWN EXPENSE AND SHALL BE INCIDENTAL TO THE CONTRACT.
11. THE EARTHWORK CONTRACTOR SHALL BE RESPONSIBLE FOR BACKFILLING OF ALL CURBS, AS SOON AS THE CONCRETE HAS SET SUFFICIENTLY, TO THE REQUIRED ELEVATION WITH SUITABLE MATERIAL WHICH SHALL BE COMPACTED UNTIL FIRM AND SOLID, AND NEATLY GRADED.
12. THE PAVEMENT SUBGRADE SHALL BE GRADED WITHIN +/- 0.10" (AVERAGING ZERO) OF PROPOSED SUBGRADE AS SHOWN ON THE PLANS AND SET BY THE ENGINEER IN THE FIELD. ALL FILL DEPOSITED IN THE AREAS SHALL BE CLEAN CLAY COMPACTED TO 95% OF THE MAXIMUM DENSITY SHOWN ON THE DRY WEIGHT CURVES DETERMINED BY THE MODIFIED PROCTOR ANALYSIS.
13. WASTE EXCAVATION SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS OWN EXPENSE AND AT A LOCATION PROVIDED BY THE CONTRACTOR WHICH LOCATION BE APPROVED BY OWNER.
14. SUITABLE EXCAVATION IS CLASSIFIED AS EXCAVATION CAPABLE OF 3,000 PSF BEARING WHEN COMPACTED TO 95% MODIFIED PROCTOR.
15. SUITABLE EMBANKMENT IS CLASSIFIED AS EMBANKMENT CAPABLE OF 3,000 PSF BEARING WHEN COMPACTED TO 95% MODIFIED PROCTOR. TO BE USED WITHIN PAVEMENT AREAS. SUITABLE EMBANKMENT CONTAINS 15% COMPACTION FACTOR.
16. UNCLASSIFIED EXCAVATION IS CLASSIFIED AS EXCAVATION NOT NECESSARILY CAPABLE OF A 3,000 PSF BEARING WHEN COMPACTED.
17. UNCLASSIFIED EMBANKMENT IS CLASSIFIED AS EMBANKMENT NOT REQUIRING 3,000 PSF BEARING WHEN COMPACTED. THIS FILL IS TO BE USED IN AREAS OUTSIDE ROADWAY LIMITS AND PAD AREAS.
18. UNCLASSIFIED EMBANKMENT SHALL BE COMPACTED TO NATURAL COMPACTION. SUITABLE EMBANKMENT SHALL BE COMPACTED TO 95% MODIFIED PROCTOR.
19. EARTHWORK QUANTITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO BIDDING. ANY DISCREPANCIES IN QUANTITIES SHALL BE REPORTED TO OWNER.
20. ALL UNDERCUTTING SHALL BE DONE AT THE DIRECTION OF THE OWNER OR HIS REPRESENTATIVE. THE UNDERCUT SHALL BE CROSS-SECTIONED BY THE OWNER'S REPRESENTATIVE AFTER THE UNDERCUTTING HAS BEEN DONE TO DETERMINE QUANTITY.
21. ALL UTILITY SPOIL PILES SHALL BE CLEANED UP BY THE UTILITY CONTRACTOR. MATERIAL SHALL NOT BE REMOVED FROM THE SITE WITHOUT THE APPROVAL OF THE OWNER AND LOCATION OF DISPOSAL ON THE SITE SHALL BE APPROVED BY OWNER.
22. EXCAVATION BELOW TOPSOIL FOR PAVEMENT SHALL BE TO 2' BEHIND CURB OR PAVEMENT EDGE IN CUT AREA. EXCAVATION BELOW TOPSOIL FOR PADS SHALL BE 3' BEYOND BUILDING LIMITS.
23. TOPSOIL PRESENT IN CUT AREAS SHALL BE STOCKPILED OR USED AS UNCLASSIFIED EMBANKMENT ON SITE OR DISPOSED OF AT THE DIRECTION OF THE OWNER. STOCKPILE LOCATIONS SHALL BE APPROVED BY OWNER OR AS SHOWN ON THE PLANS.
24. IF REQUIRED, BORROW EXCAVATION SHALL BE OBTAINED OFF-SITE. ON-SITE BORROW AREAS SHALL BE DETERMINED BY THE OWNER. PRIOR TO BORROW EXCAVATION, THE CONTRACTOR SHALL HAVE THE AREA CROSS-SECTIONED BY AN AUTHORIZED AGENT OF THE OWNER AND SHALL HAVE THE AREA CROSS-SECTIONED BY THE SAME AFTER THE BORROW AREA HAS BEEN EXCAVATED. IF BORROW MATERIAL IS REQUIRED, THE COST OF OBTAINING, TRANSPORTING, AND PLACEMENT OF THE BORROW MATERIAL ALONG WITH ANY FILLING OF BORROW PITS, IF REQUIRED, SHALL BE AGREED UPON BETWEEN OWNER AND CONTRACTOR PRIOR TO COMMENCEMENT OF BORROW WORK.
25. BERMING FOR LANDSCAPING SHALL BE ROUGH GRADED TO WITHIN 8" OF FINISHED GRADES AS SHOWN ON LANDSCAPE PLANS.

GENERAL PAVING AND SURFACING

1. ALL PAVING OPERATIONS SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS" (STANDARD SPECIFICATIONS), LATEST EDITION AND WITH THE REQUIREMENTS OF THE MUNICIPALITY.
2. FINE GRADING: A. PRIOR TO THE CONSTRUCTION OF THE CURB AND GUTTER AND THE PLACEMENT OF THE BASE MATERIAL, THE STREET SHALL BE FINE GRADED TO WITHIN 0.1 FOOT OF FINAL SUBGRADE ELEVATION, TO A LIMIT OF TWO (2) FEET BEYOND THE BACK OF CURB.
3. THE CONTRACTOR SHALL COORDINATE WITH THE VILLAGE BUILDING DEPARTMENT FOR PROOF ROLL OF THE SUBGRADE AND BASE BEFORE PAVEMENT CONSTRUCTION PROCEEDS. THE SUBGRADE AND BASE WILL NOT BE APPROVED AND ACCEPTED BY THE MUNICIPALITY OR APPROVED FOR PAYMENT WITHOUT PROOF ROLLING. PROOF ROLLING SHALL BE DONE WITH A RUBBER Tired VEHICLE HAVING A GROSS WEIGHT OF NOT LESS THAN 30,000 POUNDS (15 TONS). IF THE SUBGRADE OR BASE HAS FAILURES OR PUMPING AS INDICATED BY PROOF ROLLING, THE SUBGRADE OR BASE SHALL EITHER REMOVED AND REPLACED WITH GRANULAR MATERIAL, TO A DEPTH AS DIRECTED BY THE OWNER OR OTHER CORRECTIVE MEASURES AS DIRECTED BY THE OWNER.
4. THE FOLLOWING APPLICATION RATES ARE TO BE USED DURING PAVING: A. BITUMINOUS MATERIAL (TACK COAT) ON EXISTING BITUMINOUS CONCRETE SURFACES (PRIME TO BE RC-70) = 0.10 GAL./SQ.YD. B. BITUMINOUS MATERIAL (PRIME COAT) ON AGGREGATE BASE (PRIME TO BE MC-30) = 0.50 GAL./SQ.YD. C. BITUMINOUS CONCRETE SURFACE AND BINDER COURSES. (BINDER COURSE SHALL BE B Mixture). (SURFACE COURSE SHALL BE C Mixture) = 115 LBS./SQ.YD. ALL MATERIAL SHALL BE CLASS I BITUMINOUS AND SHALL BE VIRGIN MATERIAL. RECYCLED MATERIALS FOR BINDER MAY BE PERMITTED OUTSIDE PUBLIC RIGHT-OF-WAY UPON APPROVAL OF THE OWNER.
5. PAVEMENT: THE PAVEMENT MATERIALS SHALL BE DETAILED ON THE ENGINEERING PLANS. THICKNESSES SPECIFIED SHALL BE CONSIDERED TO BE THE MINIMUM COMPACTED THICKNESS.
6. GENERAL: THE PAVING CONTRACTOR SHALL: A. REPAIR ANY BASE COURSE AND BINDER COURSE FAILURES PRIOR TO THE INSTALLATION OF THE FINAL BITUMINOUS CONCRETE SURFACE COURSE. B. SWEET THE BINDER COURSE PRIOR TO THE INSTALLATION OF THE FINAL BITUMINOUS CONCRETE SURFACE COURSE.
7. ACCEPTANCE: A. PRIOR TO THE PLACEMENT OF THE BASE COURSE, THE SUBGRADE MUST BE APPROVED BY THE OWNER. B. PRIOR TO PLACEMENT OF THE SURFACE COURSE, THE CONTRACTOR, WHEN REQUIRED, SHALL OBTAIN SPECIMENS OF THE BINDER COURSE WITH A CORE DRILL WHERE DIRECTED, FOR THE PURPOSE OF THICKNESS VERIFICATION.
8. WHEN REQUESTED BY THE OWNER, DOCUMENTATION FOR THICKNESS AND AREAS OF PLACEMENT FOR THE BASE COURSE AND BITUMINOUS CONCRETE SHALL BE SUBMITTED FOR VERIFICATION.
9. ALL NOTES AND CONDITIONS SHOWN ON THE PLANS SHALL APPLY.

STORMWATER DISTRIBUTION SYSTEM

1. ALL STORM DRAIN CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS" (STANDARD SPECIFICATIONS), LATEST EDITION AND TO THE REQUIREMENTS OF I.E.P.A., O.S.H.A. AND THE MUNICIPALITY.
2. STORM SEWER WITH LESS THAN 3' OF COVER SHALL BE CLASS V RCP CONFORMING TO ASTM C-76. STORM SEWER WITH MORE THAN 3' OF COVER SHALL BE CLASS III RCP CONFORMING TO ASTM C-76. "O" RING JOINTS CONFORMING TO ASTM C443 SHALL BE USED FOR ALL RCP. STORM SEWER PIPE, STORM SEWER DENOTED AS DUCTILE IRON PIPE (DIP) SHALL CONFORM TO ANSI A21.1 WITH JOINTS CONFORMING TO ANSI Z1.11.
3. ALL STORM DRAINS WHICH FALL WITHIN PAVED AREAS SHALL BE BACKFILLED WITH GRANULAR TRENCH BACKFILL ACCORDING TO THE STANDARD SPECIFICATIONS AND THE DETAILS HEREIN.
4. ALL STORM PIPE, JOINTS AND FITTINGS SHALL BE INSTALLED AND BACKFILLED PER THE CORRESPONDING MANUFACTURER SPECIFICATIONS. SHOULD THERE BE ANY DISCREPANCIES BETWEEN MANUFACTURERS SPECIFICATIONS AND FEDERAL, STATE, OR LOCAL CODES, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO BIDDING AND ORDERING THE MATERIAL.
5. ALL NOTES AND CONDITIONS SHOWN ON THE PLANS SHALL APPLY.

SANITARY DISTRIBUTION SYSTEM NOTES

1. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE I.E.P.A., MWRO, O.S.H.A. AND THE MUNICIPALITY.
2. THE CONTRACTOR SHALL NOTIFY PUBLIC WORKS AND BUILDING DEPARTMENT A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO THE CONSTRUCTION OF THE SEWER.
3. ALL SANITARY SEWERS SHALL BE DEFLECTION TESTED AND LOW-PRESSURE AIR TESTED IN ACCORDANCE WITH SECTION 31-1.11 OF THE STANDARD SPECIFICATIONS. ALL MANHOLES SHALL BE VACUUM TESTED AS PER ASTM C-1244-02.
4. TELEVISION TESTING ALL SANITARY SEWERS SHALL BE TELEVIEWED WITH DVD EQUIPMENT AND A WRITTEN REPORT SUBMITTED BEFORE ACCEPTANCE. TESTING SHALL BE WITNESSED AND APPROVED BY THE MUNICIPALITY.
5. IF THE SANITARY SEWER INSTALLATION FAILS TO MEET THE TEST REQUIREMENTS SPECIFIED, THE CONTRACTOR SHALL DETERMINE THE CAUSE OR CAUSES OF THE DEFECT AND SHALL, AT HIS OWN EXPENSE, REPAIR OR REPLACE ALL MATERIALS AND WORKSMANSHIP AS MAY BE NECESSARY TO COMPLY WITH THE REQUIREMENTS.
6. SANITARY SEWER MANHOLES SHALL HAVE REINFORCED CONCRETE SECTIONS MEETING ASTM C-478 AND AN ECCENTRIC CONE INSTALLED TO LINE UP WITH THE MANHOLE STEPS. ALL MANHOLE STEPS SHALL BE IN CONFORMANCE WITH MUNICIPAL STANDARDS.
7. ALL MANHOLE JOINTS SHALL BE SEALED WITH BITUMINOUS MASTIC.
8. NOT MORE THAN 2 RINGS OF 2 INCH MINIMUM SIZE UP TO A MAXIMUM OF 12 INCHES OF PRECAST ADJUSTING RINGS SHALL BE USED TO ADJUST FRAME ELEVATIONS.
9. ALL MANHOLE LIDS MUST BE SET WITH PREFORMED BUTYL MASTIC.
10. ALL MANHOLES SHALL BE THOROUGHLY CLEANED OF DIRT AND DEBRIS AND ALL VISIBLE LEAKAGE ELIMINATED BEFORE FINAL INSPECTION AND ACCEPTANCE.
11. ANY UNSUITABLE MATERIAL ENCOUNTERED SHALL BE REMOVED AND REPLACED WITH COMPACTED CA-6 CRUSHED GRAVEL OR STONE.
12. WATERMAINS SHALL BE SEPARATED FROM SANITARY SEWERS AND STORM SEWERS IN ACCORDANCE WITH I.E.P.A. REQUIREMENTS AS SPECIFIED IN "WATER DISTRIBUTION SYSTEM" SECTION.
13. THE CONTRACTOR SHALL FURNISH "AS-BUILT" DRAWINGS OF SANITARY SEWERS AND SERVICES AT THE COMPLETION OF THE CONSTRUCTION.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEWATERING NECESSARY TO CONSTRUCT TRENCHES AND TO INSTALL THE SANITARY SEWER. ANY DEWATERING SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
15. WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING ANY CONSTRUCTION DEWATERING SHALL BE FILTERED AND DIRECTED TO THE STORM SEWER IF POSSIBLE.
16. CERTIFICATION: IT SHALL BE THE RESPONSIBILITY OF THE PIPE MANUFACTURERS TO CERTIFY THAT PIPE AND JOINT MATERIALS FURNISHED ARE CAPABLE OF MEETING THE LOWER PRESSURE AIR TEST, INFILTRATION TEST, AND EXFILTRATION TEST, ARE MANUFACTURED IN CONFORMANCE WITH THE A.S.T.M., A.N.S.I., A.W.W.A., OR A.A.S.H.O. TEST(S) SPECIFIED.
17. ALL SANITARY PIPE, JOINTS AND FITTINGS SHALL BE INSTALLED AND BACKFILLED PER THE CORRESPONDING MANUFACTURER SPECIFICATIONS. SHOULD THERE BE ANY DISCREPANCIES BETWEEN MANUFACTURERS SPECIFICATIONS AND FEDERAL, STATE, OR LOCAL CODES, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO BIDDING AND ORDERING THE MATERIAL.
18. ALL NOTES AND CONDITIONS SHOWN ON THE PLANS SHALL APPLY.

MWRD NOTES:

A. REFERENCED SPECIFICATIONS

1. 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 OLYMPIA FIELDS 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

1. 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 WMOJOBS@STARMWRD.ORG).
2. THE VILLAGE OF OLYMPIA FIELDS 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.
3. 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

1. ALL ELEVATIONS SHOWN ON PLANS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAV88).
2. MWRD, THE MUNICIPALITY AND THE OWNER OR OWNER'S REPRESENTATIVE SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION IMPROVEMENTS.
3. 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.
4. 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. PROOF CONSTRUCTION TECHNIQUES MUST BE FOLLOWED ON THE IMPROVEMENTS INDICATED ON THE PLANS.
5. 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.
6. 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.
7. MATERIAL AND COMPACTION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MUNICIPALITY, MWRD, AND OWNER.
8. THE UNDERGROUND CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS TO NOTIFY ALL INSPECTION AGENCIES.
9. ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS DISTURBED DURING CONSTRUCTION SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO FINAL INSPECTION.
10. 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

1. THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT ANY POLLUTED WATER, SUCH AS GROUND AND SURFACE WATER, FROM ENTERING THE EXISTING SANITARY SEWERS.
2. 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.
3. 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.
4. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (LATEST EDITION).
5. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.
6. ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.
7. 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
EAST-IRON SOIL-PIPE	ASTM A-74	ASTM C-564
DUCTILE IRON PIPE	ANSI A21.11	ANSI A21.11
POLYVINYL CHLORIDE (PVC) PIPE 6-INCH TO 15-INCH DIAMETER SDR 26 20-INCH TO 27-INCH DIAMETER SDR 46	ASTM D-2034 ASTM D-2779	ASTM D-3212 ASTM D-3212
HIGH DENSITY POLYETHYLENE (HDPE)	ASTM D-3350 ASTM D-3035	ASTM D-3261-F-520 (HEAT FUSION) ASTM D-3212-477 (GASKETED)
WATER MAIN QUALITY PVC 4-INCH TO 36-INCH 4-INCH TO 12-INCH 14-INCH TO 40-INCH	ASTM D-2241 AWWA C900 AWWA C905	ASTM D-3139 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 CONTRACT 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	ASTM F-2736	D-3212, F-477
30-INCH TO 60-INCH TRIPLE WALL	ASTM F-2764	D3212, F-477

8. 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 OF 7, CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 12" ABOVE THE TOP OF THE PIPE WHEN USING PVC.
9. NON-SHEAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR PIPE MATERIALS.
10. 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.
11. 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 HUBBYE 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.
12. 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 WATERMAINS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 5' SEPARATION FROM THE WATERMAIN; OR THE SAME TRENCH WITH THE WATERMAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OR UNDISTURBED WIDTH, KEEPING A MINIMUM 1' VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED CANNOT BE MAINTAINED, OR THE SEWER CROSSES UNDER THE WATER MAIN, THE SEWER SHALL BE CONSTRUCTED TO MEET WATER MAIN STANDARDS OR IT SHALL BE ENCASED WITH A WATER MAIN QUALITY CASING PIPE WITH THE ENDS SEALED.
13. ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.
14. 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.
15. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE PRECAST RUBBER TIE-INS INTO EXISTING SEWERS. PRECAST RUBBER TIE-INS SHOULD BE PRECAST SECTIONS SHALL CONSIST OF MODIFIED GROOVE TONGUE AND RUBBER GASKET TYPE JOINTS.
16. ALL ABANDONED SANITARY SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST 2 FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUG.
17. 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 GRASS TILES AND PERFORATED PIPES SHALL BE DISCONNECTED WITHIN THE SEWER AREAS. EXISTING SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS, SHALL NOT BE CONNECTED TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS.
18. A BACKFLOW PREVENTER IS REQUIRED FOR ALL DETENTION BASINS TRIBUTARY TO COMBINED SEWERS. BACKFLOW PREVENTERS SHALL BE INSTALLED AND EXTEND 360 DEGREES AROUND THE PERIMETER OF THE DETENTION BASIN. THE DETENTION BASIN SHALL BE MAINTAINED AND THE OWNER TO ENSURE PROPER OPERATION, AND ANY NECESSARY MAINTENANCES SHALL BE PERFORMED TO ENSURE FUNCTIONALITY OF A SEWER SUBJECT TO THE APPROVAL OF THE DISTRICT ENGINEER. PRIOR TO 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.

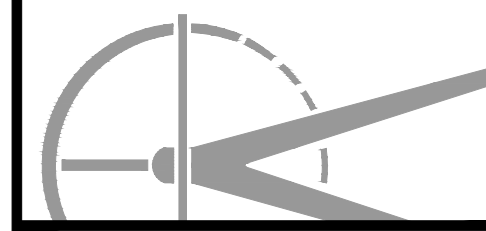
MWRD NOTES:

E. EROSION AND SEDIMENT CONTROL

1. THE CONTRACTOR SHALL INSTALL THE EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
2. EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL PRIOR TO HYDROLOGIC DISTURBANCE OF THE SITE.
3. ALL DESIGN CRITERIA, SPECIFICATIONS, AND INSTALLATION OF EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.
4. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
5. INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:
a) PROTECTED FROM EROSION AND SEDIMENT CONTROL DEVICES 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.
6. 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.
7. A STABILIZED MAT OF CRUSHED STONE MEETING THE STANDARDS OF THE ILLINOIS URBAN MANUAL, STREETS SHALL BE INSTALLED AT ANY LOCATION 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.
8. 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.
9. MORTAR WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ADDITION TO CONCRETE WASHOUT FACILITIES FOR ANY BRICK AND MORTAR BUILDING ENVELOPE CONSTRUCTION ACTIVITIES.
10. 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.
11. 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.
12. ALL FLOOD PROTECTION AREAS AND VOLUME CONTROL FACILITIES SHALL, AT A MINIMUM, BE PROTECTED WITH A DOUBLE-ROW OF SILT FENCE (OR EQUIVALENT).
13. VOLUME CONTROL FACILITIES SHALL NOT BE CONSTRUCTED UNTIL ALL OF THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED WITHIN THE DISTURBED AREA.
14. 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.
15. EARTHEN EMBANKMENT SIDE SLOPES SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL BLANKET.
16. STORM SE

DATE: 05-22-2023
DESCRIPTION: ISSUED FOR REVIEW

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RIZZA ACURA
8754 W. 159TH STREET
ORLAND PARK, ILLINOIS 60462
FINAL ENGINEERING PLANS
STANDARD CONSTRUCTION DETAILS

PROJECT NO. M21149
DRAWN BY: ZDS & NFY
CHECKED BY: TDR
SHEET NO. 22 / 26

RECOMMENDED LOCATION OF RAMPS

DETAILS OF RAMPS

RAMPS AT ALLEYS OR ENTRANCES

GENERAL NOTES

RAMP PROFILE

DETAIL A

DETAIL B

LEGEND

DATE	REVISIONS
1-1-08	Switched units to English (metric).
8-1-05	Revised placement of detectable warnings.

CURB RAMPS FOR SIDEWALKS
(Sheet 1 of 2)
STANDARD 424001-05

X-SECTION

SECTION "A-A"

REINFORCEMENT
EXPANSION JOINT

NOTES:

1. REINFORCEMENT: PROVIDE THREE (3) #5 REINFORCING BARS CONTINUOUS BETWEEN EXPANSION JOINTS.
2. 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.
3. COST OF BARS SHALL BE INCLUDED IN THE UNIT PRICE (PER LINEAL FOOT) FOR CURB AND GUTTER.

B - 6.12 CURB AND GUTTER		
B-6.12 CURB	STREET & PAVEMENT	DATE
DRAWN BY:	REVISIONS:	REVISIONS:
Village of ORLAND PARK	REVISIONS:	REVISIONS:
Engineering Department	REVISIONS:	REVISIONS:
STR-05	STR-04	

ROLL OFF DUMPSTER CONCRETE PAD

PCC SIDEWALK

PITCH IN GUTTER
REVERSE PITCH GUTTER

NOTES:

1. LONGITUDINAL JOINT TIE BARS SHALL BE NO. 6 AT 24" CENTERS IN ACCORDANCE WITH DETAILS FOR LONGITUDINAL CONSTRUCTION JOINT.
2. BOTTOM SLOPE OF COMBINATION CURB AND GUTTER CONSTRUCTED ADJACENT TO PCC PAVEMENT SHALL BE THE SAME SLOPE AS THE SUBBASE OR 6% WHEN SUBBASE IS OMITTED.
3. A MINIMUM CLEARANCE OF 2" BETWEEN THE END OF THE TIE BAR AND THE BACK OF THE CURB SHALL BE MAINTAINED.
4. INSTALL CONTRACTION JOINTS AND EXPANSION JOINTS PER IDOT STANDARD 60801-02.
5. ALL CONCRETE CURB CONSTRUCTION SHALL BE PER THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST REVISIONS.

B-6.12 CURB AND GUTTER DETAIL
NOT TO SCALE

MC - SITE6
REVISED: 4/2016

Illinois Department of Transportation
PASSED: January 1, 2008
ENGINEER OF PROJECT AND PROCEDURES
APPROVED: January 1, 2008
ENGINEER OF DESIGN AND ENVIRONMENT

DESCRIPTION: ISSUED FOR REVIEW

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FINAL ENGINEERING PLANS

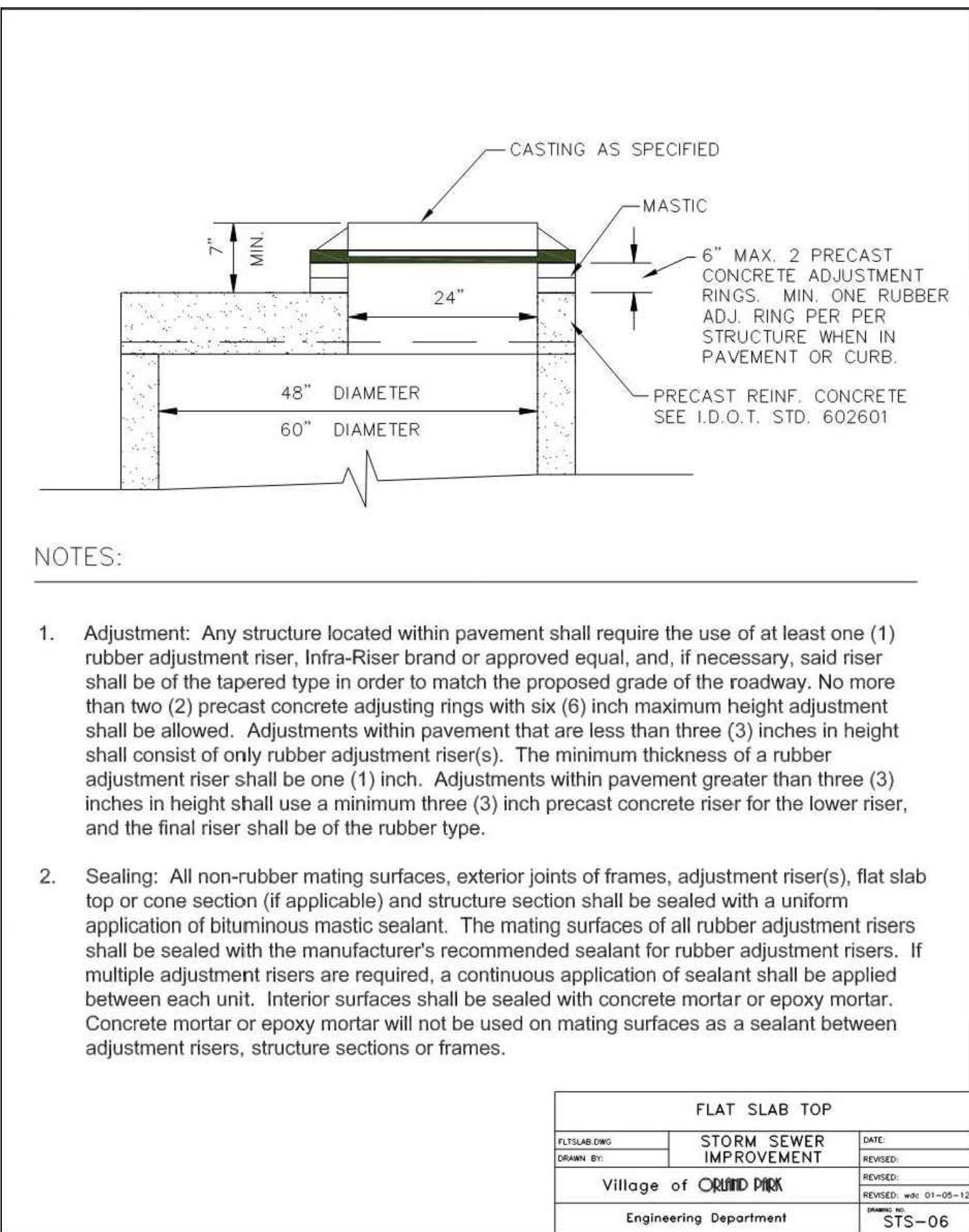
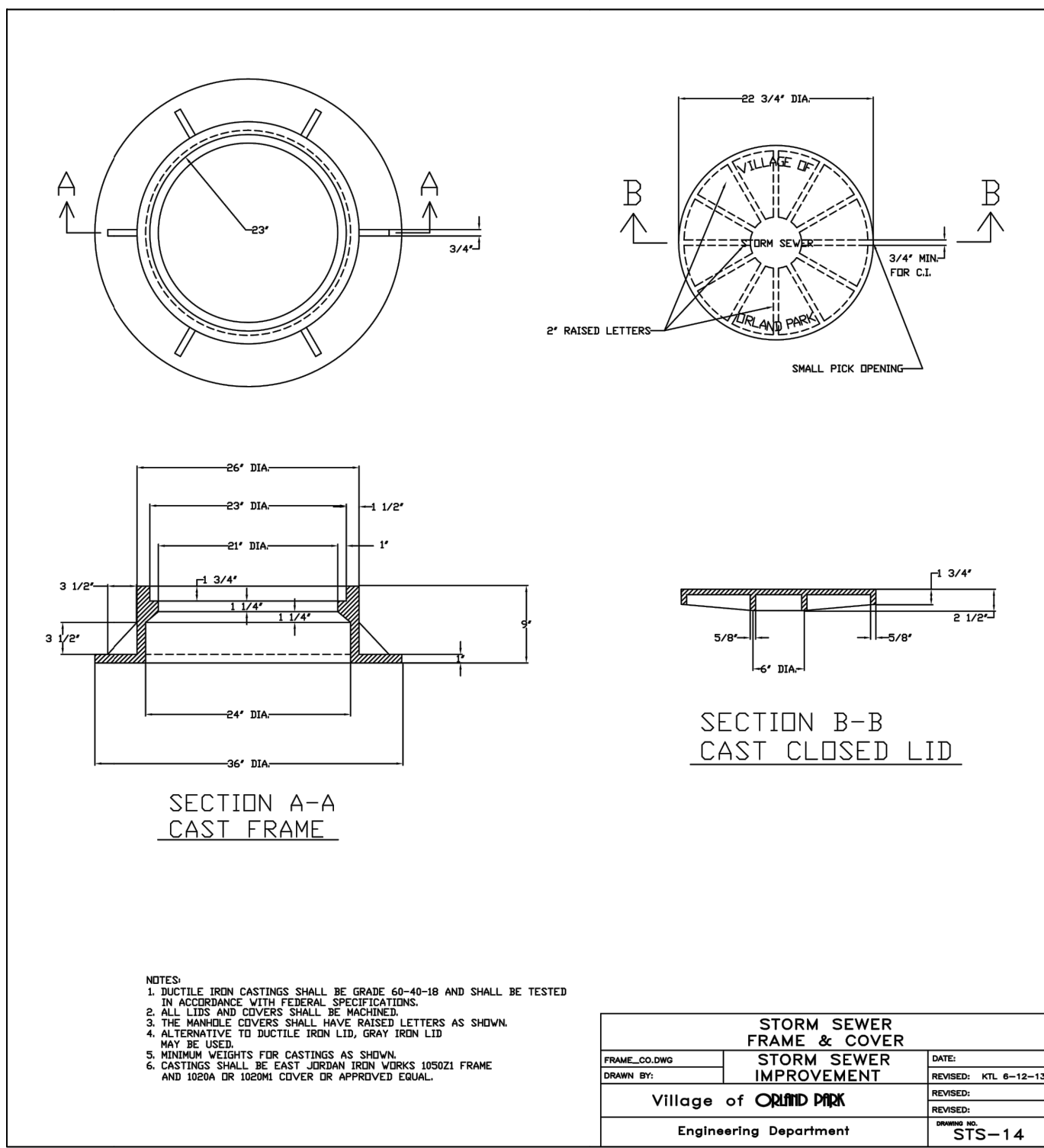
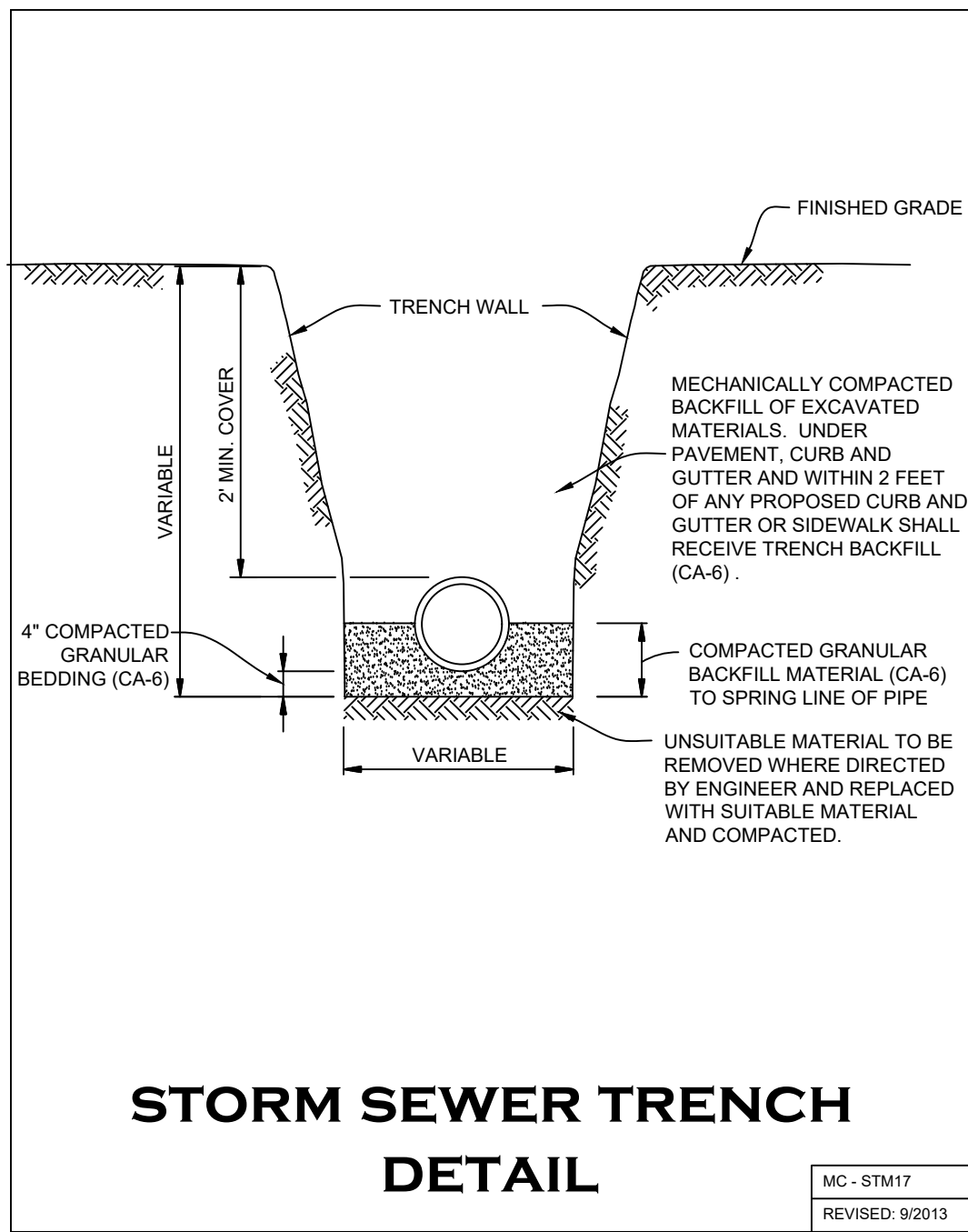
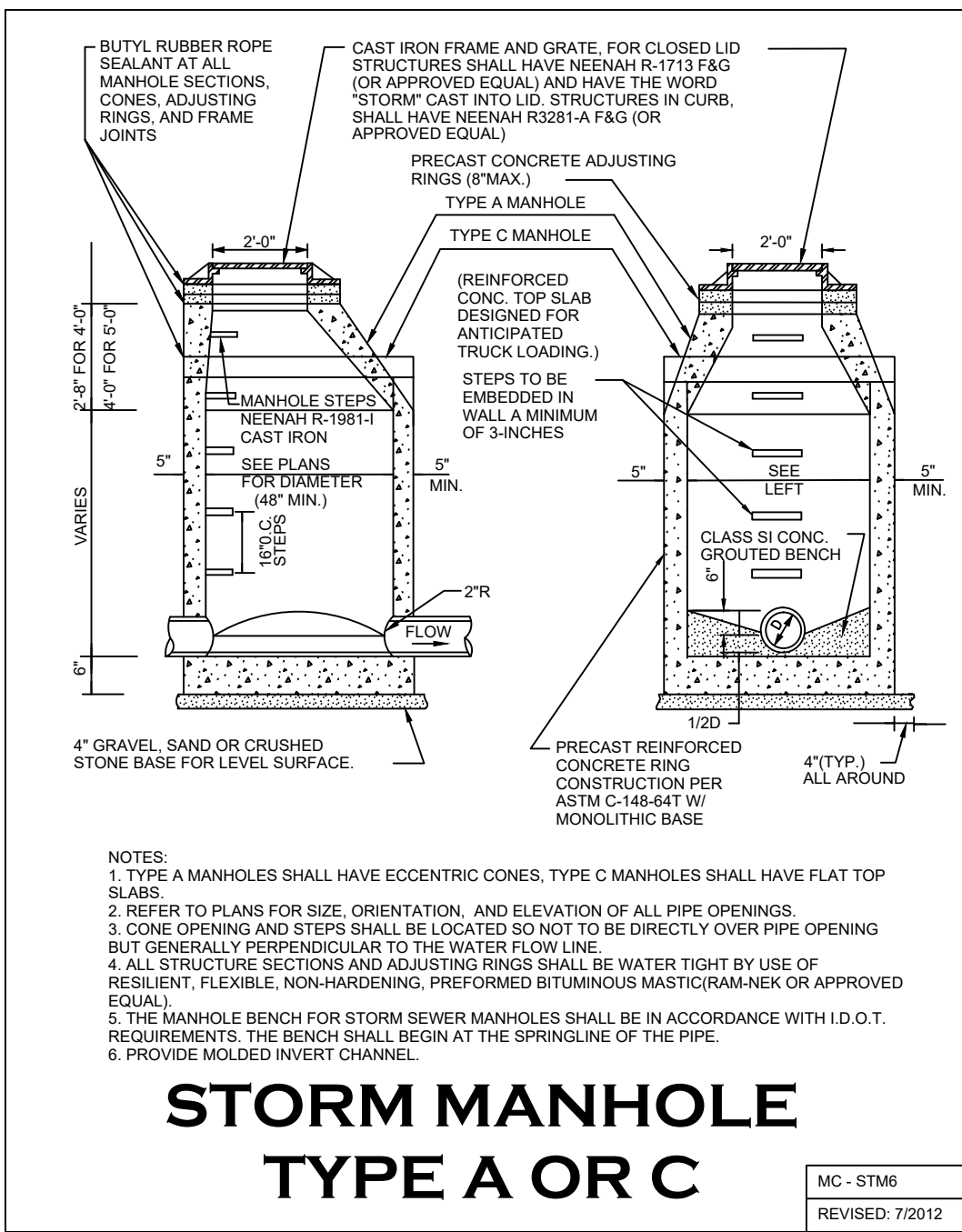
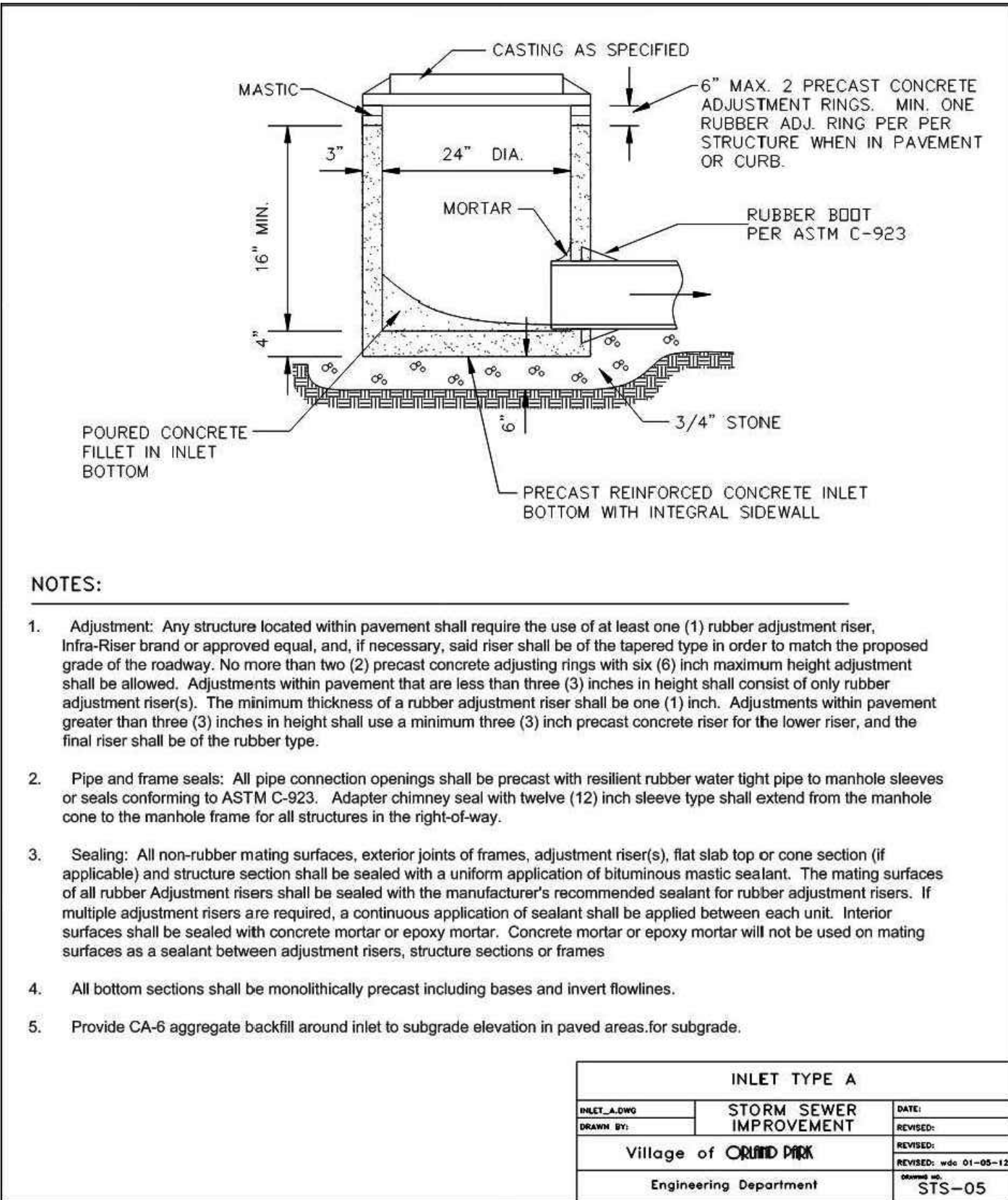
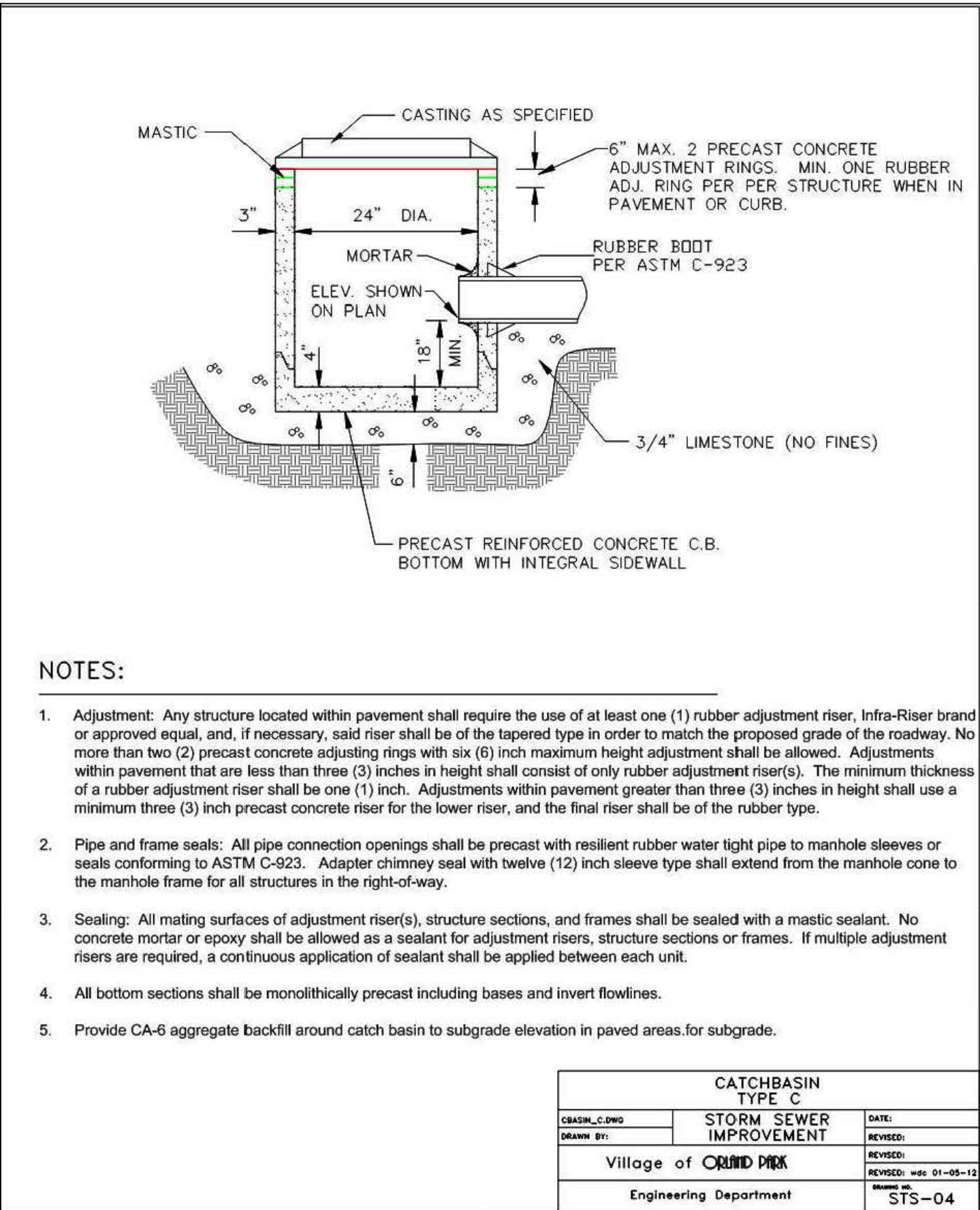
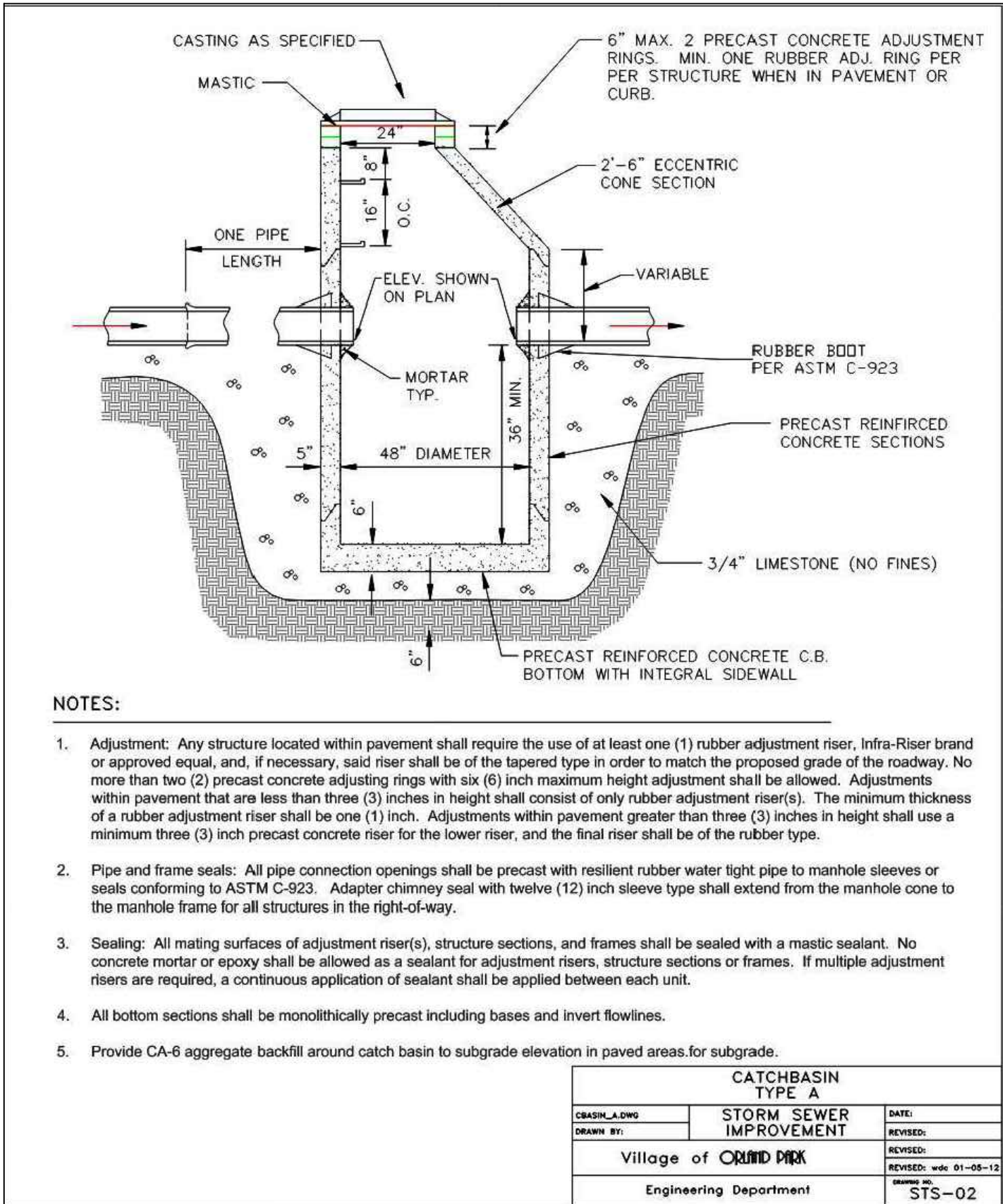
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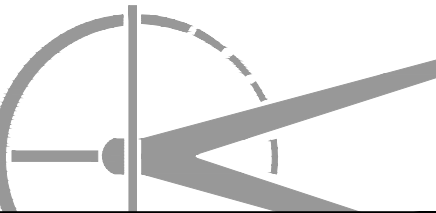


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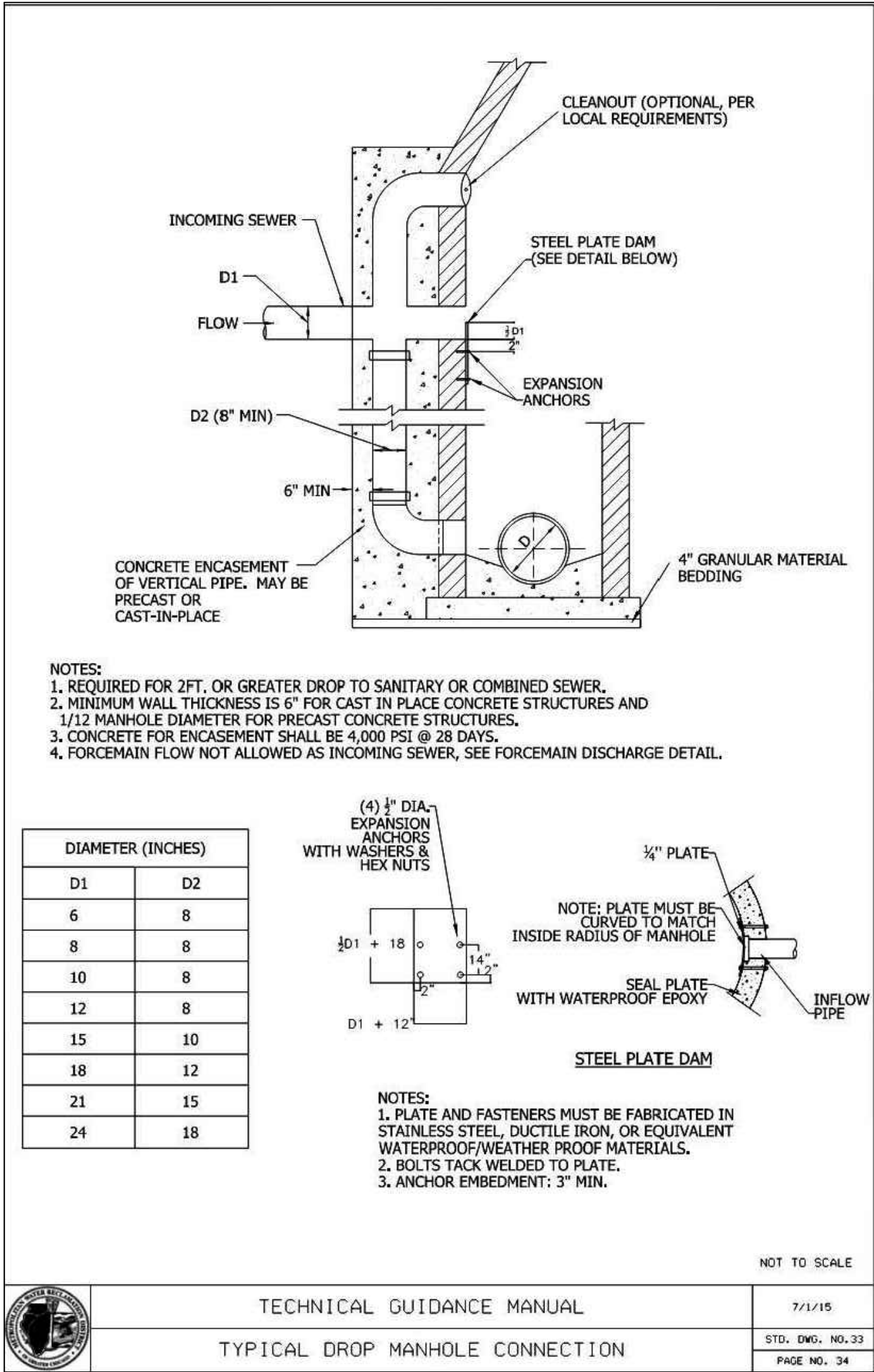
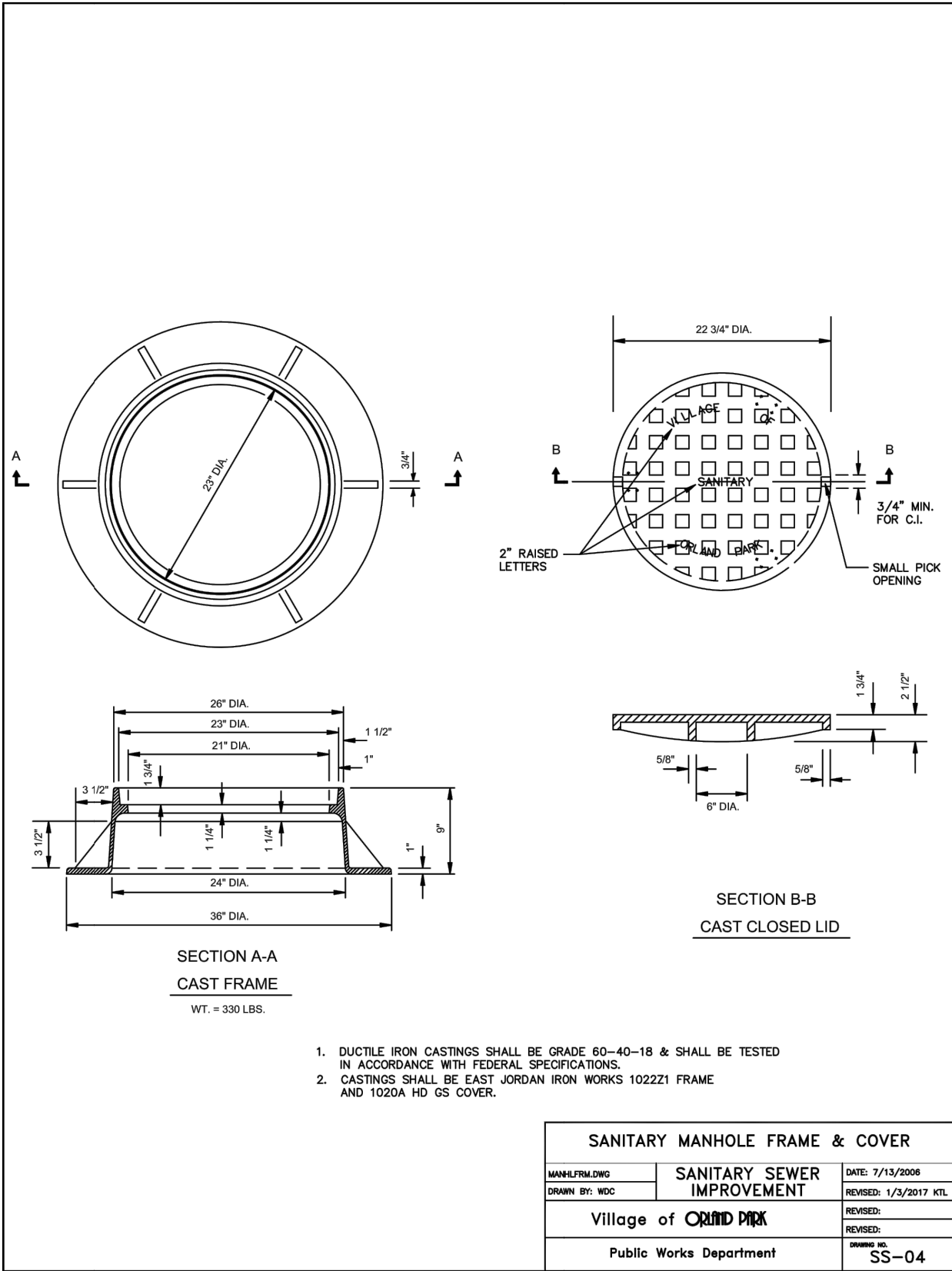
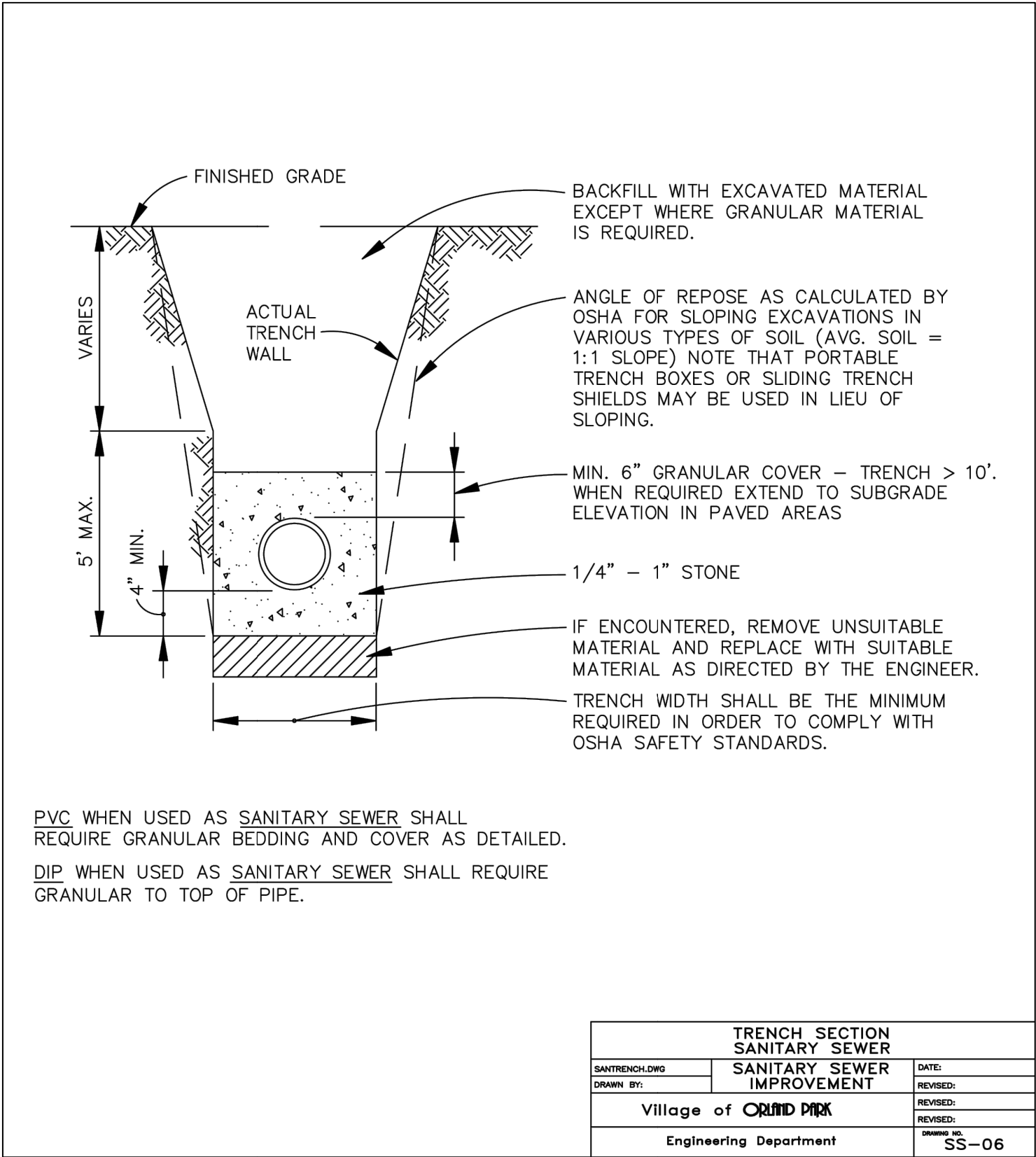
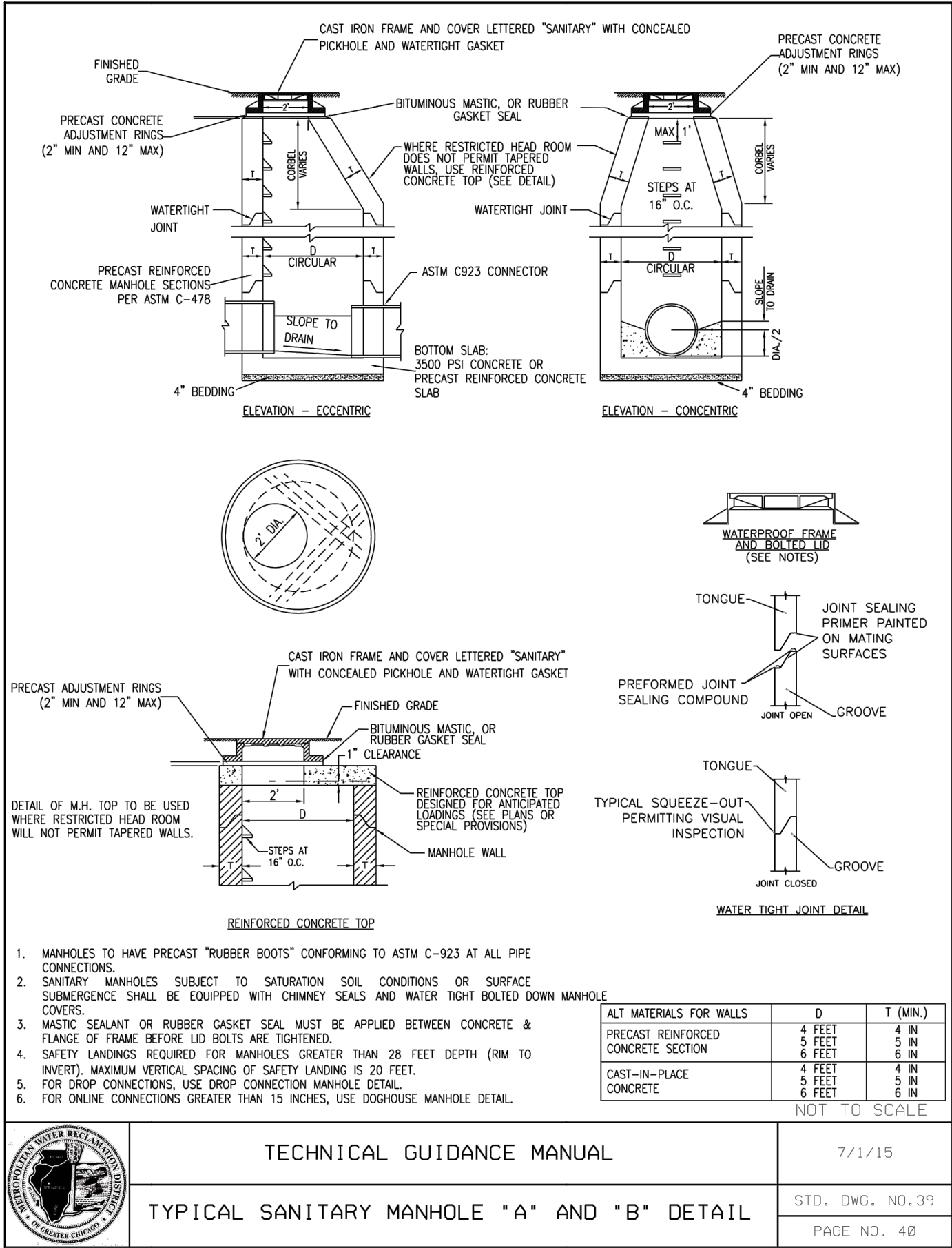
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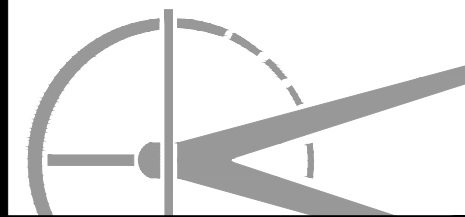
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FINAL ENGINEERING PLANS

STANDARD CONSTRUCTION DETAILS

PROJECT NO. M21 149

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