

CITY OF SPARKS CDBG PHASE 2

E STREET, F STREET, & 12TH STREET

FEDERALLY FUNDED

PWP # WA-2024-242

BID # 23/24-017



950 SANDHILL ROAD, SUITE 100
RENO, NV 89521
TEL: 775.827.6111
WWW.LUMOSINC.COM
INFO@LUMOSINC.COM

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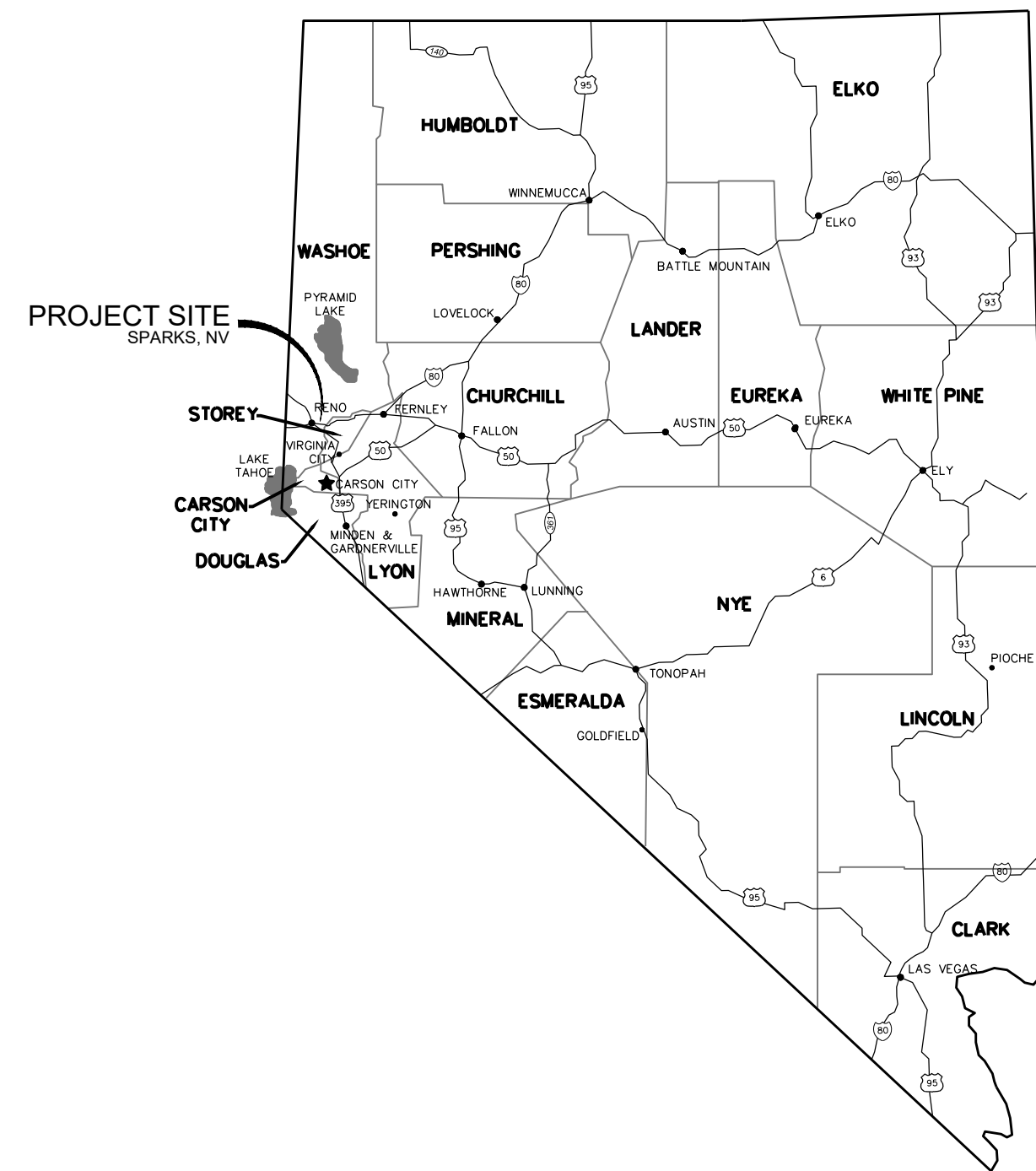


SPARKS CITY COUNCIL

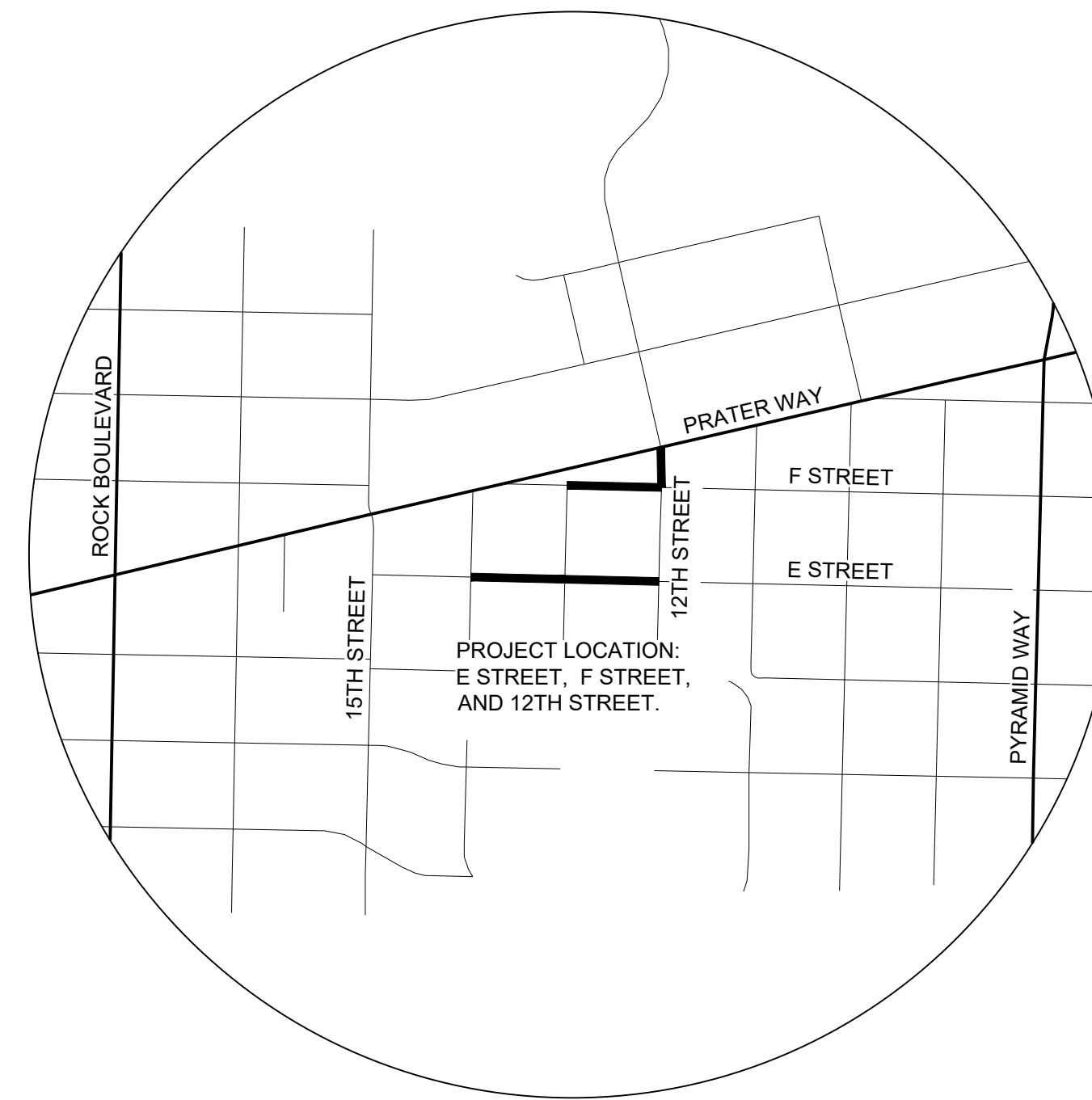
MAYOR _____ ED LAWSON
WARD 1 _____ DONALD ABBOTT
WARD 2 _____ DIAN VANDERWELL
WARD 3 _____ PAUL ANDERSON
WARD 4 _____ CHARLENE BYBEE
WARD 5 _____ KRISTOPHER DAHIR
CITY MANAGER _____ CHRIS CRAWFORTH

APPROVED BY:

JON R. ERICSON, P.E., P.T.O.E. DATE



LOCATION MAP



VICINITY MAP

SHEET INDEX:

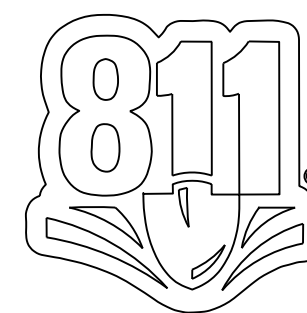
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OWNER
ATTN: BOB SCHRICKER
431 PRATER WAY
SPARKS, NEVADA 89431
TEL: 775.353.2305



ENGINEER
950 SANDHILL ROAD, SUITE 100
RENO, NEVADA 89521
TEL: 775.827.6111
INFO@LUMOSINC.COM



Know what's below.
Call before you dig.

CITY OF SPARKS
 CDBG PHASE 2
 E STREET, F STREET, & 12TH STREET
 TITLE SHEET
 SPARKS
 WASHOE COUNTY
 NEVADA

REV	DATE	DESCRIPTION

ISSUED FOR BIDDING

MARCH 1, 2024

BAR IS 1 INCH ON ORIGINAL DRAWING

0 1"

IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

C1.0

DRAWN BY: IPN
DESIGNED BY: IPN
CHECKED BY: AJG
JOB NO.: 10415.002

LEGEND

Table with columns for EXISTING and PROPOSED symbols and their corresponding descriptions. Includes contour lines, ground elevations, trees, rocks, paving, curbs, concrete, utility poles, lights, guy wires, transformers, vaults, panels, cabinets, boxes, meters, generators, manholes, air conditioners, outlets, bollards, storm drain manholes, catch basins, water valves, irrigation control valves, meters, water spigots, manholes, water vaults, fire hydrants, gas valves, gas meters, telephone manholes, telephone boxes, sewer manholes, sewer cleanouts, survey monuments, control points, barricades, signs, retaining walls, fences, grade breaks, flow lines, soil test pits, detail callouts, comm lines, gas lines, electric lines, sewer lines, water lines, air lines, storm drains, and reclaimed water lines.

ABBREVIATIONS

Table listing abbreviations and their full names. Includes AC (Asphalt Concrete), ACP (Asbestos Cement Pipe), AGG (Aggregate), BC (Begin Curve), BOW (Bottom of Wall), BF, BOF (Bottom of Footing), BV (Butterfly Valve), BVC (Begin Vertical Curve), BW (Back of Walk), CB (Catch Basin), cfs (Cubic Feet Per Second), CF (Cubic Feet), C&G (Curb and Gutter), CL (Center Line), CL (Class / Center Line), CMP (Corrugated Metal Pipe), COMP (Compaction), CONC (Concrete), CONTR (Contractor), CP (Concrete Pad), CTV (Cable Television), DI (Drop Inlet), DIA, Ø (Diameter), DWY (Driveway), E (East), EA (Each), EC (End Curve), ELL (Elevation), ELEV (End Vertical Curve), EVC (Existing), EX, (E) (Exterior), FCA (Flange Coupling Adapter), FE (Finish Elevation), FES (Finish End Section), FF (Finish Floor), FFC (Front Face of Curb), FG (Finish Grade), FH (Fire Hydrant), FL (Flow Line), FLG (Flange), fps (Feet Per Second), FTG (Footing), G (Gas), GALV (Galvanized), GB (Grade Break), GDW (Gravel Driveway), GD (Ground), GV (Gate Valve), H (Handicapped), HGL (Hydraulic Grade Line), HORIZ (Horizontal), HP (High Point), ID (Inside Diameter), IE (Invert Elevation), INT (Intersection), IRR (Irrigation), LAT (Lateral), LF (Linear Feet), LP (Low Point), LT (Left), MAX (Maximum), MDD (Maximum Dry Density), MH (Manhole), MIN (Minimum), MJ (Mechanical Joint), MMD (Maximum Marshall Density), MUTCD (Manual for Traffic Control Devices), N (North), NAP (Not a Part), NIP (Not in Project), NTS (Not to Scale), OC (On Center), OD (Outside Diameter), OH (Overhead), (P) (Proposed), PCC (Portland Cement Concrete), PG (Point of Intersection), PI (Compound Curvature), PIVC (Point of Intersection Vertical Curve), PL (Property Line), PP (Power Pole), PRC (Point of Reverse Curve), PIVC (Point of Reverse Vertical Curve), PVC (Polyvinyl Chloride), PAVMT (Pavement), Q 5 (5 Year Peak Flow), Q 100 (100 Year Peak Flow), R (Radius), RCP (Reinforced Concrete Pipe), REF (Reference), RET (Curb Return), RP (Radius Point), RT (Right), R/W, ROW (Right-of-Way), S (Slope), S (South), SD (Storm Drain), SDMH (Storm Drain Manhole), SL (Street Light), SS (Sanitary Sewer), SSCO (Sanitary Sewer Clean Out), SSMH (Sanitary Sewer Manhole), SSPWC (Standard Spec. for Public Works Construction Station), STA (Station), SW (Sidewalk), TELE (Telephone), TBO (Temporary Blow Off Valve), TC (Top of Curb), TCSB (Traffic Control Signal Box), TG (Top of Grade), TOB (Top of Berm), TF, TOF (Top of Footing), TOW (Top of Wall), TS (Traffic Signal), TR (Top of Rail), TRANS (Transition), TYP (Typical), UG/P (Under Ground Power), UNO (Unless Noted Otherwise), V 5 (Velocity at 5 Year Peak), VC (Vertical Curve), VEL (Velocity), VERT (Vertical), VG (Valley Gutter), W (West), W/G (Water and Gas), WL (Water Line), WM (Water Meter), WS (Water Surface), WV (Water Valve), WWF (Welded Wire Fabric), YR (Year).



Know what's below. Call before you dig.

NOTES:

GENERAL

- 1. ALL WORK SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2012 EDITION, INCLUDING ALL APPROVED REVISIONS. THE CONTRACTOR SHALL REFER TO THE STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION, AS ADOPTED BY THE CITY OF SPARKS, FOR ALL DETAILING NOT SHOWN ON THESE PLANS.
- 2. THE CONTRACTOR SHALL COMPLY WITH THESE PLANS AND CURRENT SPARKS (STANDARD SPECIFICATIONS) AND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 3. THE CITY OF SPARKS SHALL BE RESPONSIBLE FOR ARRANGING A PRE-CONSTRUCTION JOB SITE CONFERENCE WITH GOVERNING AGENCIES, ALL UTILITY COMPANIES, OWNERS REPRESENTATIVES, AND THE PROJECT ENGINEER PRIOR TO COMMENCING WORK. THIS MEETING SHALL BE HELD AT LEAST FORTY-EIGHT (48) HOURS, OR TWO (2) BUSINESS DAYS, PRIOR TO THE START OF CONSTRUCTION AND SHALL COMMUNICATE SCHEDULES, CONTRACTORS MEAN AND METHODS, MATERIALS TO BE USED, AND OTHER RELEVANT MATTERS ASSOCIATED WITH THE CONSTRUCTION OF THE PROJECT.
- 4. ALL WORK EITHER DIRECTLY OR INDIRECTLY RELATED TO THE PROJECT SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY SYSTEM MANAGER.
- 5. THE CONTRACTOR SHALL MAINTAIN AN ONSITE RECORD COPY OF ALL DRAWINGS, SPECIFICATIONS, ADDENDA, CHANGE ORDERS, WORK CHANGE DIRECTIVES, FIELD ORDERS, FIELD CHANGES, AND WRITTEN INTERPRETATIONS AND CLARIFICATIONS. RECORDS SHALL BE IN GOOD ORDER AND ANNOTATED TO SHOW CHANGES MADE DURING CONSTRUCTION.
- 6. CONTRACTOR SHALL PROVIDE MATERIALS AND EQUIPMENT SUBMITTALS AND/OR SHOP DRAWINGS TO THE PROJECT ENGINEER FOR REVIEW PRIOR TO ORDERING OR INSTALLATION. A SIGNED SET OF REVIEWED SUBMITTALS MUST ALWAYS BE AVAILABLE ONSITE DURING CONSTRUCTION.
- 7. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT AT 811 TO PROVIDE FIELD LOCATIONS OF UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION.
- 8. THE LOCATION OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE ENGINEER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY PROPOSED POINTS OF CONNECTION AND IN AREAS OF POSSIBLE CONFLICT WITH NEW UTILITY INSTALLATION PRIOR TO BEGINNING CONSTRUCTION. SHOULD THE CONTRACTOR FIND ANY DISCREPANCIES BETWEEN THE CONDITIONS EXISTING IN THE FIELD AND THE INFORMATION SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND MAINTAIN ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THE PLAN.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROCURE ALL NECESSARY PERMITS, LICENSES, INSURANCE POLICIES, ETC. AS MAY BE NECESSARY TO COMPLY WITH LOCAL, COUNTY, STATE, AND FEDERAL LAWS ASSOCIATED WITH THE PERFORMANCE OF THE WORK, UNLESS OTHERWISE OBTAINED BY THE OWNER.
- 10. THE CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN AND PROVIDE, PLACE, AND MAINTAIN ALL LIGHTS, SIGNS, BARRICADES, FLAG PERSONS, PILOT CAR, OR OTHER DEVICES NECESSARY TO CONTROL TRAFFIC THROUGH THE CONSTRUCTION AREA AND FOR PUBLIC SAFETY. ALL TRAFFIC CONTROL OPERATIONS SHALL COMPLY WITH THE LATEST MUTCD. AT NO TIME WILL OBSTRUCTIONS BE LEFT IN THE ROADWAY DURING NIGHT HOURS. ALL TRAFFIC CONTROL PLANS SHALL BE PREPARED BY A REGISTERED CIVIL ENGINEER OR AT TSA CERTIFIED PERSONNEL.
- 11. THE CONTRACTOR AGREES TO ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, AND FURTHER AGREES THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS IN ACCORDANCE WITH THE PROVISIONS OUTLINED BY THE PROJECT CONTROL AND THE STANDARD SPECIFICATIONS.
- 12. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF OSHA AND NRS CHAPTER 618.
- 13. THE CONTRACTOR SHALL PURSUE THE WORK IN A CONTINUOUS AND DILIGENT MANNER, CONFORMING TO ALL THE PERTINENT SAFETY REGULATIONS TO ENSURE A TIMELY COMPLETION OF THE PROJECT.
- 14. THE CONTRACTOR SHALL MAINTAIN A CLEAN PROJECT SITE, REMOVING CONSTRUCTION DEBRIS AT THE END OF EACH ACTIVITY DAY. THE CONTRACTOR SHALL MAINTAIN DEBRIS FREE CONSTRUCTION ROUTES, ADJACENT STREETS AND STORM DRAIN SYSTEMS.
- 15. TEMPORARY CONSTRUCTION FENCING SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR THROUGHOUT THE DURATION OF THE PROJECT IN AREAS AS DELINEATED ON THE PLANS OR AS DIRECTED BY THE PROJECT ENGINEER. THE TEMPORARY FENCING SHALL PREVENT CHILDREN AND PETS FROM ENTERING THE CONSTRUCTION AREA, CREATE A VISUAL BARRIER OF THE CONSTRUCTION ACTIVITIES FROM THE ADJACENT RESIDENCE AND YARDS, AND PROTECT VEGETATION FROM CONSTRUCTION EQUIPMENT.
- 16. THE CONTRACTOR SHALL USE ONLY AUTHORIZED SITES FOR STORAGE OF EQUIPMENT AND MATERIALS AND OBTAIN PROPER APPROVALS FROM THE LAND OWNER AND LOCAL GOVERNING AUTHORITY TO DO SO. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY OF ALL EQUIPMENT AND MATERIALS. CONTRACTOR SHALL APPLY FOR A TEMPORARY USE PERMIT WITH THE CITY AND COMPLY WITH ALL CONDITIONS AND REQUIREMENTS ISSUED BY THE CITY.
- 17. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS AND OTHER SURVEY MARKERS DURING CONSTRUCTION. IN THE EVENT A MONUMENT IS DISTURBED, THE CONTRACTOR SHALL HAVE THE MONUMENT REPLACED, AT HIS OWN EXPENSE, BY A LICENSED SURVEYOR IN THE STATE OF NEVADA.
- 18. ALL FIELD CHANGES MUST BE PRE-APPROVED BY THE PROJECT ENGINEER. SHOULD IT APPEAR THAT THE WORK TO BE DONE, OR ANY MATTER RELATIVE THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.
- 19. ALL SALVAGED MATERIALS ARE THE PROPERTY OF THE OWNER AND SHALL BE PALLETIZED ONSITE UNLESS OTHERWISE ARRANGED WITH THE OWNER AND/OR PROJECT ENGINEER.

UNDERGROUND UTILITIES

- 22. THE CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS NEAR OR WITHIN THE CONSTRUCTION LIMITS WITH THE RESPECTIVE UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ARRANGE FOR THE NECESSARY RELOCATION OF ANY UTILITY. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES INVOLVED AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO BEGINNING WORK.
- 23. NO OTHER UTILITIES MAY BE PLACED IN A WATER OR SEWER TRENCH.
- 24. ALL VALVE BOXES, MANHOLE STRUCTURES, AND CLEAN OUTS SHALL BE MARKED AND ACCESSIBLE AT ALL TIMES.

GRADING, EXCAVATION & SURFACE IMPROVEMENTS

- 25. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING THEIR OWN QUANTITY TAKE-OFF AND SHALL BUDGET THE PROJECT ACCORDINGLY. ALL EXCESS GRADING MATERIALS SHALL BE DISPOSED OF OFFSITE.
- 26. THE SOILS ENGINEER SHALL APPROVE ALL EARTHWORK AND GRADING TO CONFIRM COMPACTION REQUIREMENTS ARE MET.
- 27. CONTRACTOR SHALL PROTECT EXISTING PAVING, CONCRETE, LANDSCAPING, FENCING, MAILBOXES, SIGNS AND ANY OTHER IMPROVEMENTS NOT SPECIFICALLY CALLED OUT FOR REPLACEMENT. CONTRACTOR SHALL REPAIR/REPLACE ANYTHING DAMAGED BY FORCES UNDER THEIR EMPLOY OR CONTRACT.
- 28. ALL ASPHALT CONCRETE SURFACES SHALL BE SAWCUT TO A NEAT, STRAIGHT LINE AND REMOVED. THE EXPOSED PAVEMENT TIE-IN EDGES SHALL BE METICULOUSLY CLEANED OF ALL LOOSE MATERIAL AND THEN TREATED WITH BITUMINOUS EMULSION PRIOR TO PAVING. THE EXPOSED BASE MATERIALS SHALL BE GRADED AND RECOMPACTED PRIOR TO PAVING.

ENVIRONMENTAL

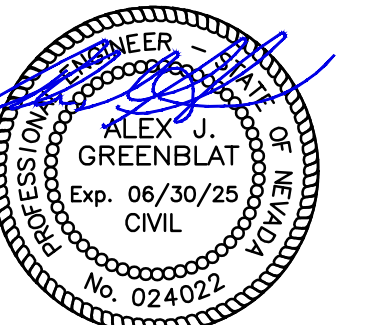
- 29. ALL CONSTRUCTION SHALL BE PERFORMED IN COMPLIANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES). CONTRACTOR IS RESPONSIBLE FOR ACQUIRING AND MAINTAINING A SWPPP.
- 30. INSTALLATION AND MAINTENANCE OF EROSION CONTROL MEASURES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREVENTION OF EROSION AND SILTATION FROM ENTERING THE STORM DRAIN SYSTEM, NATURAL DRAINAGE COURSES, AND/OR INTRUDING UPON ADJACENT ROADWAYS AND PROPERTIES. EROSION CONTROL MEASURES SHOWN ON THESE PLANS ARE INTENDED AS A GUIDE. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS DETERMINED IN THE FIELD. THIS RESPONSIBILITY SHALL APPLY THROUGHOUT THE COURSE OF CONSTRUCTION AND UNTIL ALL DISTURBED AREAS HAVE BECOME STABILIZED AND SHALL NOT BE LIMITED TO WET WEATHER PERIODS. THE CONTRACTOR IS RESPONSIBLE FOR SWPPP UPDATES.
- 31. THE CONTRACTOR SHALL MAINTAIN AN ON-GOING DUST CONTROL PROGRAM INCLUDING WATERING OF OPEN AREAS, TO CONFORM WITH THE LATEST FEDERAL, STATE, AND COUNTY AIR POLLUTION REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND UPDATING DUST CONTROL PERMITS FOR THE PROJECT.
- 32. PROTECTIVE MEASURES AND TEMPORARY DRAINAGE PROVISIONS SHALL BE USED TO PROTECT ADJOINING PROPERTIES DURING CONSTRUCTION OF IMPROVEMENTS.
- 33. AFTER A RAINSTORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM CHECK BERMS AND DESILTING FACILITIES. GRADED SLOPE SURFACE PROTECTION MEASURES DAMAGED DURING THE RAINSTORM SHALL ALSO BE REPAIRED.
- 34. FILL SLOPES AT THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE TOP OF THE SLOPE AT THE END OF EACH WORKING DAY.
- 35. ALL DISTURBED AREAS ARE REQUIRED TO HAVE A PALLIATIVE APPLIED FOR DUST CONTROL. ALL GRADING SHALL COMPLY WITH STATE AND COUNTY REGULATIONS. IF GROUNDWATER IS ENCOUNTERED, THE CONTRACTOR SHALL STOP WORK IMMEDIATELY, PREPARE A DEWATERING PLAN, AND OBTAIN APPROVAL FROM THE PROJECT ENGINEER BEFORE PROCEEDING WITH WORK. DEWATERING ACTIVITIES MAY REQUIRE THE CONTRACTOR TO OBTAIN A DISCHARGE/PUMPING PERMIT FROM THE STATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN SUCH PERMITS.
- 37. ALL STREETS SHALL BE MAINTAINED FREE OF DUST AND MUD CAUSED BY GRADING OPERATIONS.



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3/1/2024

CITY OF SPARKS
CDBG PHASE 2
E STREET, F STREET, & 12TH STREET
NOTES, ABBREVIATIONS, AND LEGEND
NEVADA
WASHOE COUNTY
SPARKS

Table with columns: REV, DATE, DESCRIPTION. Includes a large 'ISSUED FOR BIDDING' stamp and the date 'MARCH 1, 2024'.

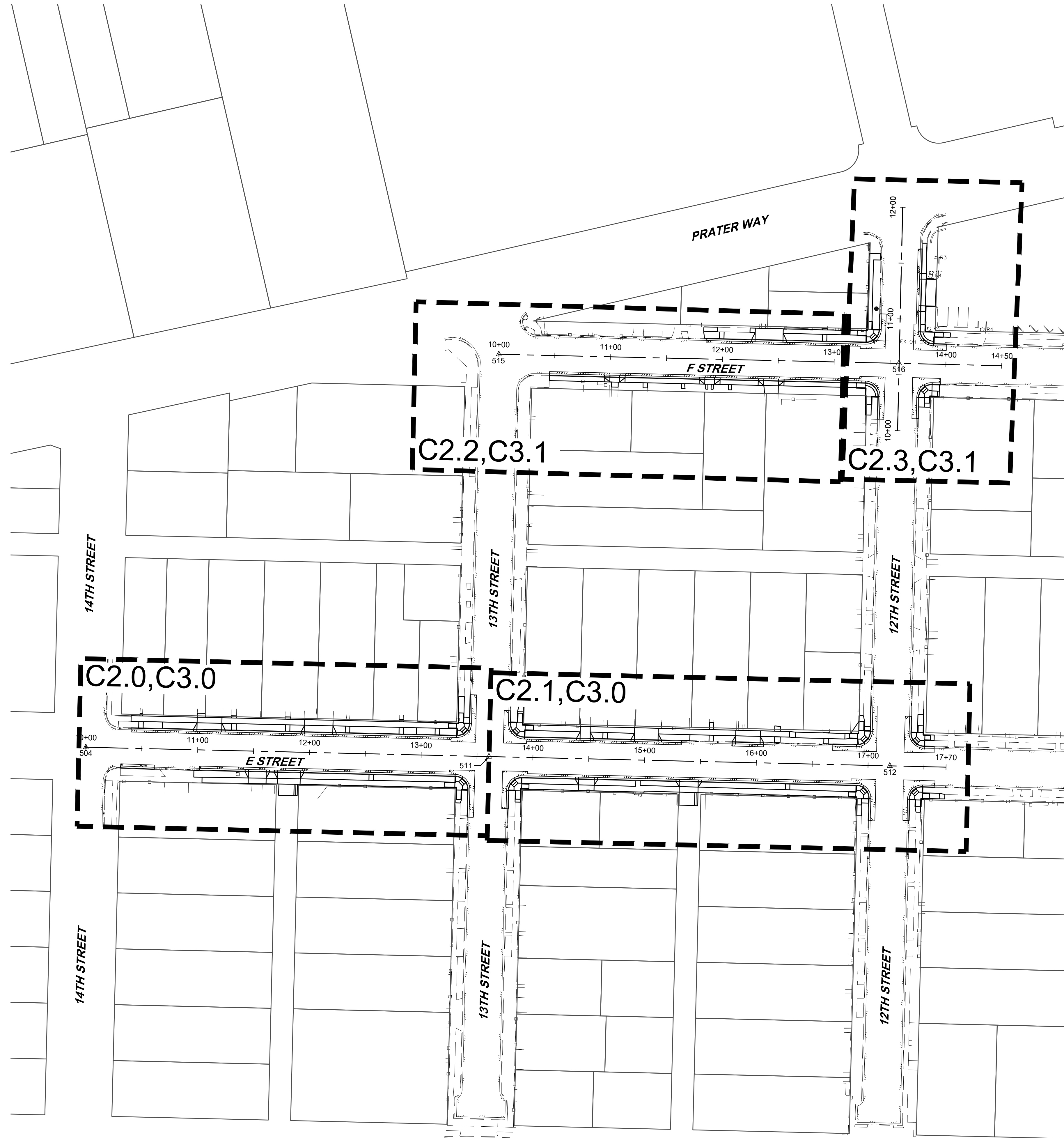
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DESIGNED BY: IPN
CHECKED BY: AJG
JOB NO.: 10415.002

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BASIS OF BEARING

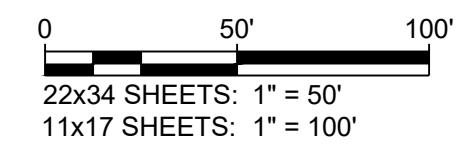
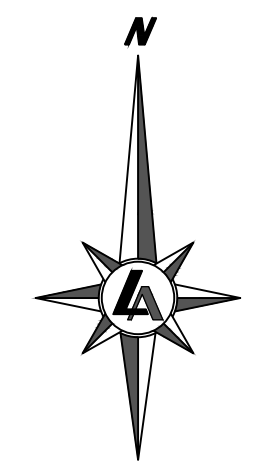
THE BASIS OF BEARING FOR THIS PROJECT IS NEVADA STATE PLANE COORDINATE SYSTEM, WEST ZONE NAD83(94) BASED UPON REAL TIME KINEMATIC GPS OBSERVATIONS, OBSERVED 06-09-2021 USING A SURVEY GRADE DUAL FREQUENCY GPS RECEIVER FROM THE WASHOE COUNTY CONTROL NETWORK MODIFIED BY A COMBINED FACTOR OF 1.000197939, SCALED FROM 0.00N, 0.00E AND CONVERTED TO U.S. SURVEY FEET. ALL DIMENSIONS ON THIS MAP ARE GROUND DISTANCES.

BASIS OF ELEVATION

DATUM: NAVD 88
PROJECT BENCHMARK = USC&G BM #G374
HAVING AN ELEVATION OF 4426.65'

PROJECT CONTROL

POINT	NORTH	EAST	ELEVATION	DESCRIPTION
504	14871593.75	2293109.42	4422.25	2.5" BRASS CAP
511	14871585.41	2293470.12	4419.47	2.5" BRASS CAP
512	14871577.10	2293828.84	4416.42	2.5" BRASS CAP
515	14871945.25	2293478.97	4421.45	2.5" BRASS CAP
516	14871937.12	2293837.04	4418.10	2" BRASS CAP



950 SANDHILL ROAD, SUITE 100
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WWW.LUMOSINC.COM
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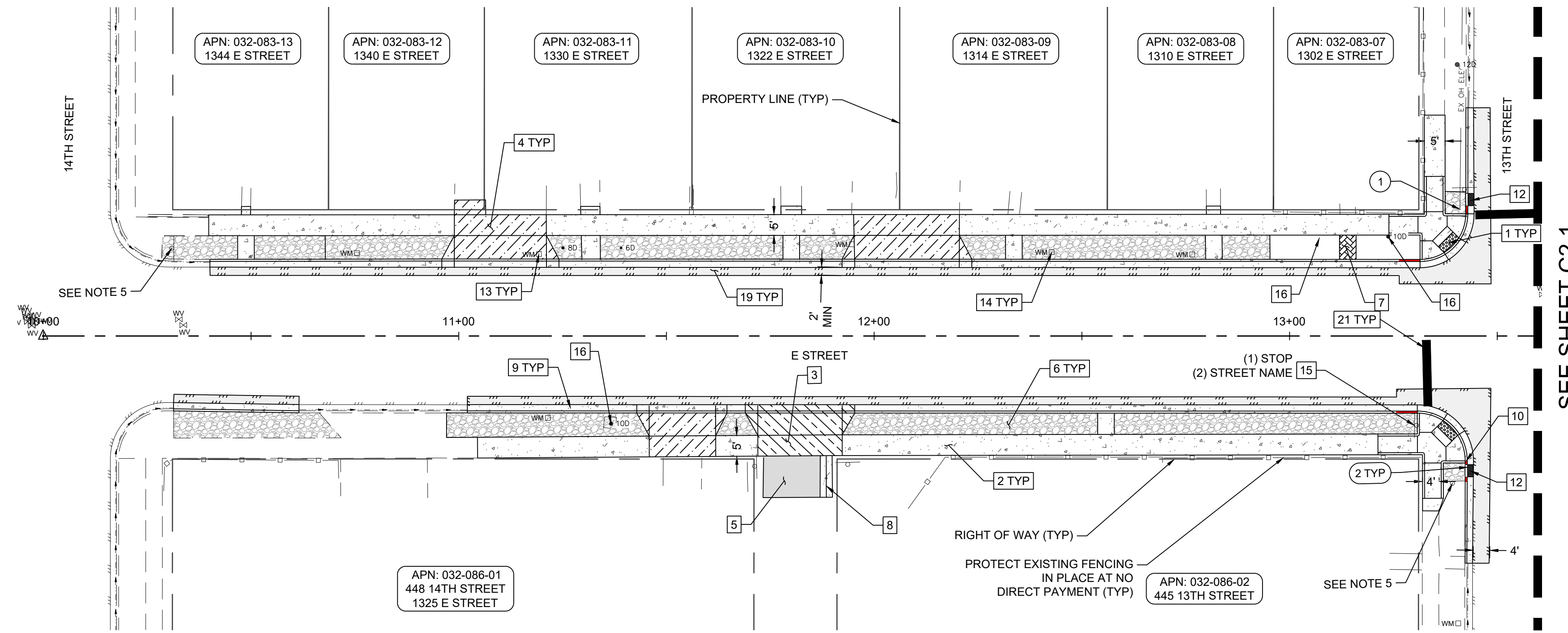


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 PROJECT CONTROL AND SHEET INDEX
 SPARKS WASHOE COUNTY NEVADA

REV	DATE	DESCRIPTION

ISSUED FOR BIDDING
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DESIGNED BY: IPN
CHECKED BY: AJG
JOB NO.: 10415.002



SEE SHEET C2.1

SHEET C2.0 QUANTITIES					
NO.	IMPROVEMENT TYPE	UNIT	QTY.	DETAIL	SHEET
1	INSTALL PCC PEDESTRIAN RAMP	EA	2	S-106	C4.0
2	REMOVE AND REPLACE PCC SIDEWALK	SF	2,342	S-103	C4.0
3	REMOVE AND REPLACE COMMERCIAL DRIVEWAY APRON	SF	279	S-111	C4.1
4	REMOVE AND REPLACE RESIDENTIAL DRIVEWAY APRON	SF	757	S-111	C4.1
5	INSTALL AC DRIVEWAY TRANSITION	SF	138	C102	C4.1
6	REMOVE EXISTING IMPROVEMENTS AND REPLACE WITH DECOMPOSED GRANITE	SF	2,376	C103	C4.1
7	REMOVE, PROTECT, AND RESET LANDSCAPE PAVERS	SF	24		
8	REMOVE AND REPLACE PCC VALLEY GUTTER	SF	30	S-108	C4.0
9	REMOVE AND REPLACE PCC TYPE 1 CURB AND GUTTER	LF	566	S-109	C4.0
10	INSTALL RED CURB PAINT	LF	20		
11	TREE STUMP REMOVAL	EA	-		
12	REMOVE AND REPLACE EXISTING CATCH BASIN OR DROP INLET WITH TYPE 4R CATCH BASIN	EA	2	S-204	C4.2
13	REMOVE EXISTING AND INSTALL + ADJUST NEW STANDARD OR TRAFFIC RATED SINGLE WATER METER BOX TO NEW FINISH GRADE	EA	2	10K-2	C4.2
14	PROTECT AND ADJUST EXISTING STANDARD OR TRAFFIC RATED SINGLE WATER METER BOX TO NEW FINISH GRADE	EA	4	10K-2	C4.2
15	REMOVE AND REPLACE EXISTING SIGN POST, BASE, AND SIGN ASSEMBLY	EA	1	S-401A	C4.0
16	TREE ROOT MITIGATION	EA	2		
17	PROTECT AND ADJUST EXISTING ELECTRICAL BOX TO NEW FINISH GRADE	EA	-	S-407G	C4.2
18	PROTECT AND ADJUST EXISTING MANHOLE TO FINISH GRADE	EA	-	S-210A	C4.2
19	INSTALL PERMANENT BITUMINOUS PAVEMENT PATCH	SF	1,608	S-115	C4.1
20	INSTALL PCC POST CURB	LF	-	C100	C4.0
21	INSTALL 24" WHITE THERMOPLASTIC STOP BARS OR CROSSWALK KEYS	LF	16		

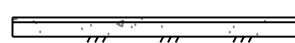
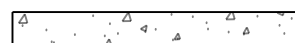
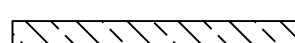
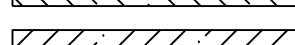
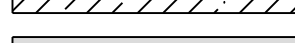

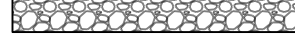

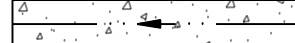
SHEET C2.0 NOTES:

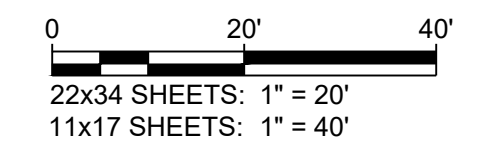
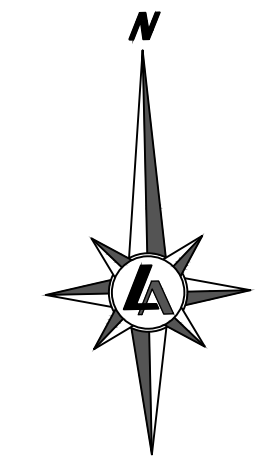
- CONTRACTOR TO PROTECT EXISTING POWER POLE IN PLACE AT NO DIRECT PAYMENT.
- CONTRACTOR TO INSTALL 6" POST CURB BEHIND NEW TYPE 4R CATCH BASIN PER NOTE 6 ON DETAIL S-204B / C4.2 AT NO ADDITIONAL PAYMENT.

GENERAL SURFACE IMPROVEMENT NOTES:

- THE LOCATION OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE ENGINEER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY PROPOSED POINTS OF CONNECTION AND IN AREAS OF POSSIBLE CONFLICT WITH THE NEW UTILITY INSTALLATION PRIOR TO BEGINNING CONSTRUCTION. SHOULD THE CONTRACTOR FIND ANY DISCREPANCIES BETWEEN THE CONDITIONS EXISTING IN THE FIELD AND THE INFORMATION SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND MAINTAIN ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THE PLAN.
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- BUSHES AND TREES SHALL BE TRIMMED OR REMOVED AS NECESSARY FOR CONSTRUCTION BY AN IS A CERTIFIED ARBORIST. NO DIRECT PAYMENT FOR THIS WORK.
- COORDINATE WITH TMWA FOR WATER METER BOX REPLACEMENTS AND METER SETTER ADJUSTMENTS. CONTRACTOR TO REMOVE, SALVAGE AND REINSTALL EXISTING METER BOX UNLESS DESIGNATED FOR REPLACEMENT. TMWA WILL FURNISH THE WATER METER BOX (STANDARD OR TRAFFIC RATED) IF IT NEEDS REPLACED.
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- TREES WITHIN PROPOSED DECOMPOSED GRANITE SECTION SHALL BE PROTECTED IN PLACE AND A TREE WELL CONSTRUCTED WITH 2'X4' REDWOOD O.A.E. SHALL BE INSTALLED AT NO DIRECT PAYMENT.

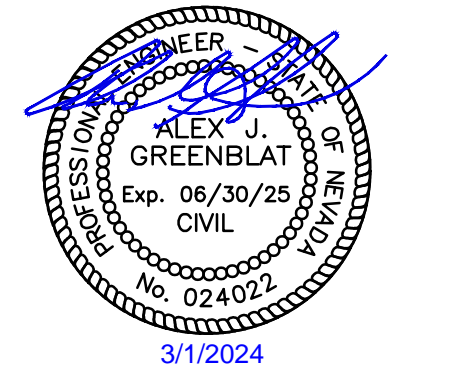
IMPROVEMENT LEGEND

-  PCC TYPE 1 CURB AND GUTTER
-  PCC SIDEWALK
-  PCC COMMERCIAL DRIVEWAY APRON
-  PCC RESIDENTIAL DRIVEWAY APRON
-  AC DRIVEWAY TRANSITION
-  DECOMPOSED GRANITE
-  CONCRETE PAVERS
-  VALLEY GUTTER
-  PERMANENT BITUMINOUS PAVEMENT PATCH



950 SANDHILL ROAD, SUITE 100
RENO, NV 89521
TEL: 775.827.6111
WWW.LUMOSINC.COM
INFO@LUMOSINC.COM

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CITY OF SPARKS
 CDBG PHASE 2
 E STREET, F STREET, & 12TH STREET
 E STREET SURFACE IMPROVEMENT PLAN
 SPARKS
 WASHOE COUNTY
 NEVADA

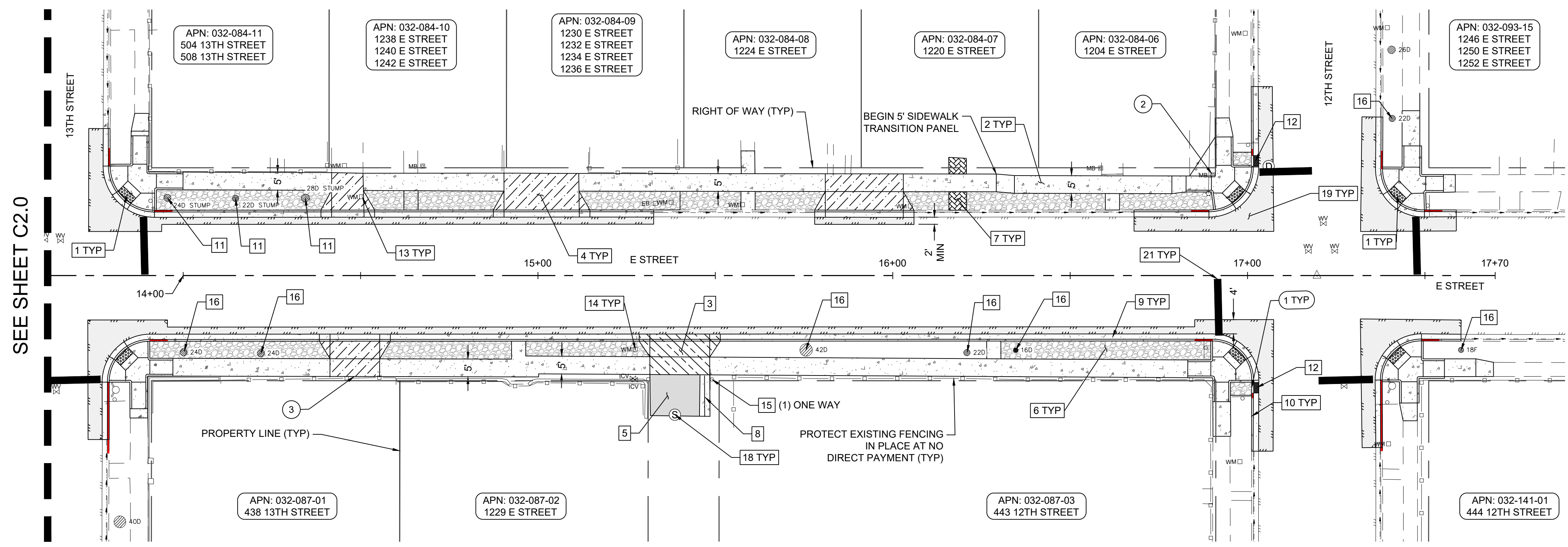
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DESIGNED BY: IPN
CHECKED BY: AJG
JOB NO.: 10415.002

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CITY OF SPARKS
**CDBG PHASE 2
E STREET, F STREET, & 12TH STREET
E STREET SURFACE IMPROVEMENT PLAN**
SPARKS
WASHOE COUNTY
NEVADA



SEE SHEET C2.0

SHEET C2.1 QUANTITIES					
NO.	IMPROVEMENT TYPE	UNIT	QTY.	DETAIL	SHEET
1	INSTALL PCC PEDESTRIAN RAMP	EA	6	S-106	C4.0
2	REMOVE AND REPLACE PCC SIDEWALK	SF	2,812	S-103	C4.0
3	REMOVE AND REPLACE COMMERCIAL DRIVEWAY APRON	SF	220	S-111	C4.1
4	REMOVE AND REPLACE RESIDENTIAL DRIVEWAY APRON	SF	741	S-111	C4.1
5	INSTALL AC DRIVEWAY TRANSITION	SF	163	C102	C4.1
6	REMOVE EXISTING IMPROVEMENTS AND REPLACE WITH DECOMPOSED GRANITE	SF	2,081		
7	REMOVE, PROTECT, AND RESET LANDSCAPE PAVERS	SF	49		
8	REMOVE AND REPLACE PCC VALLEY GUTTER	SF	36	S-108	C4.0
9	REMOVE AND REPLACE PCC TYPE 1 CURB AND GUTTER	LF	585	S-109	C4.0
10	INSTALL RED CURB PAINT	LF	90		
11	TREE STUMP REMOVAL	EA	3		
12	REMOVE AND REPLACE EXISTING CATCH BASIN OR DROP INLET WITH TYPE 4R CATCH BASIN	EA	2	S-204	C4.2
13	REMOVE EXISTING AND INSTALL + ADJUST NEW STANDARD OR TRAFFIC RATED SINGLE WATER METER BOX TO NEW FINISH GRADE	EA	2	10K-2	C4.2
14	PROTECT AND ADJUST EXISTING STANDARD OR TRAFFIC RATED SINGLE WATER METER BOX TO NEW FINISH GRADE	EA	3	10K-2	C4.2
15	REMOVE AND REPLACE EXISTING SIGN POST, BASE, AND SIGN ASSEMBLY	EA	1	S-401A	C4.0
16	TREE ROOT MITIGATION	EA	7		
17	PROTECT AND ADJUST EXISTING ELECTRICAL BOX TO NEW FINISH GRADE	EA	1		
18	PROTECT AND ADJUST EXISTING MANHOLE TO FINISH GRADE	EA	2	S-210A	C4.2
19	INSTALL PERMANENT BITUMINOUS PAVEMENT PATCH	SF	2,540	S-115	C4.1
20	INSTALL PCC POST CURB	LF	-	C100	C4.0
21	INSTALL 24" WHITE THERMOPLASTIC STOP BARS OR CROSSWALK KEYS	LF	96		

SHEET C2.1 NOTES:

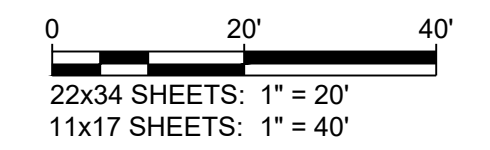
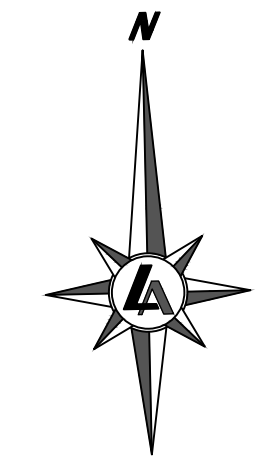
- CONTRACTOR TO INSTALL 6" POST CURB BEHIND NEW TYPE 4R CATCH BASIN PER NOTE 6 ON DETAIL S-204B / C4.2 AT NO ADDITIONAL PAYMENT.
- CONTRACTOR TO SALVAGE AND REINSTALL MAILBOX AND EXISTING WOODEN POST AT NO DIRECT PAYMENT.
- PROTECT EXISTING ROLL GATE IN PLACE DURING CONSTRUCTION OF ADJACENT SIDEWALK.

GENERAL SURFACE IMPROVEMENT NOTES:

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- TREES WITHIN PROPOSED DECOMPOSED GRANITE SECTION SHALL BE PROTECTED IN PLACE AND A TREE WELL CONSTRUCTED WITH 2'X4' REDWOOD O.A.E. SHALL BE INSTALLED AT NO DIRECT PAYMENT.

IMPROVEMENT LEGEND

- PCC TYPE 1 CURB AND GUTTER
- PCC SIDEWALK
- PCC COMMERCIAL DRIVEWAY APRON
- PCC RESIDENTIAL DRIVEWAY APRON
- AC DRIVEWAY TRANSITION
- DECOMPOSED GRANITE
- CONCRETE PAVERS
- VALLEY GUTTER
- PERMANENT BITUMINOUS PAVEMENT PATCH



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DESIGNED BY: IPN
CHECKED BY: AJG
JOB NO.: 10415.002

ISSUED FOR BIDDING

MARCH 1, 2024



CITY OF SPARKS
**CDBG PHASE 2
E STREET, F STREET, & 12TH STREET
F STREET SURFACE IMPROVEMENT PLAN**
SPARKS NEVADA
WASHOE COUNTY

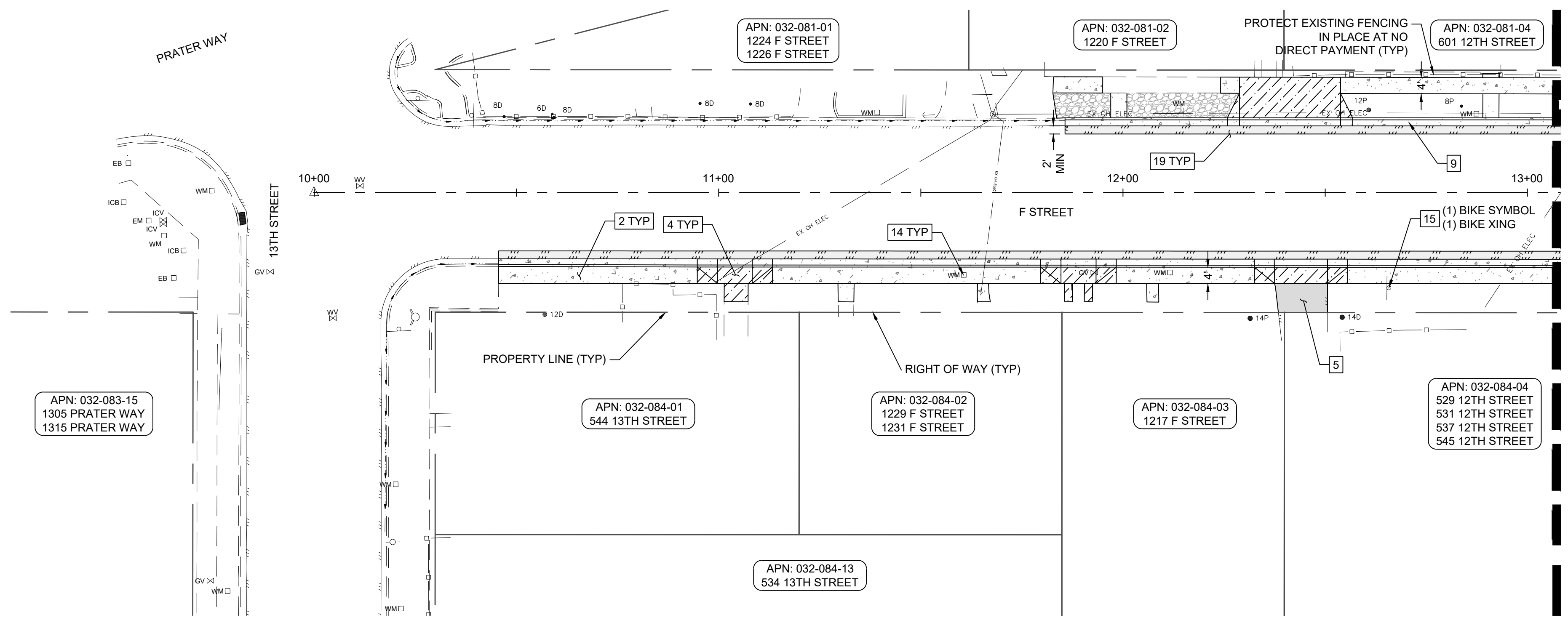
ISSUED FOR BIDDING
MARCH 1, 2024

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DRAWN BY: IPN
DESIGNED BY: IPN
CHECKED BY: AJG
JOB NO.: 10415.002



SEE SHEET C2.3

SHEET C2.2 QUANTITIES

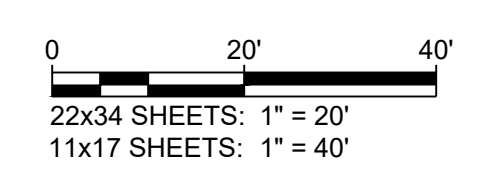
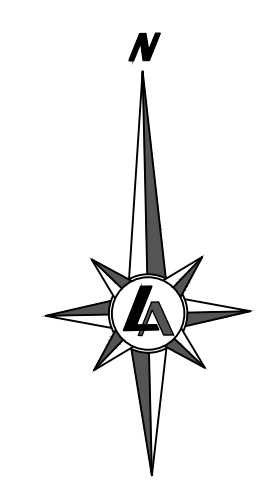
NO.	IMPROVEMENT TYPE	UNIT	QTY.	DETAIL	SHEET
1	INSTALL PCC PEDESTRIAN RAMP	EA	-	S-106	C4.0
2	REMOVE AND REPLACE PCC SIDEWALK	SF	1,219	S-103	C4.0
3	REMOVE AND REPLACE COMMERCIAL DRIVEWAY APRON	SF	-	S-111	C4.1
4	REMOVE AND REPLACE RESIDENTIAL DRIVEWAY APRON	SF	529	S-111	C4.1
5	INSTALL AC DRIVEWAY TRANSITION	SF	91	C102	C4.1
6	REMOVE EXISTING IMPROVEMENTS AND REPLACE WITH DECOMPOSED GRANITE	SF	246		
7	REMOVE, PROTECT, AND RESET LANDSCAPE PAVERS	SF	-		
8	REMOVE AND REPLACE PCC VALLEY GUTTER	SF	-	S-108	C4.0
9	REMOVE AND REPLACE PCC TYPE 1 CURB AND GUTTER	LF	386	S-109	C4.0
10	INSTALL RED CURB PAINT	LF	-		
11	TREE STUMP REMOVAL	EA	-		
12	REMOVE AND REPLACE EXISTING CATCH BASIN OR DROP INLET WITH TYPE 4R CATCH BASIN	EA	-	S-204	C4.2
13	REMOVE EXISTING AND INSTALL + ADJUST NEW STANDARD OR TRAFFIC RATED SINGLE WATER METER BOX TO NEW FINISH GRADE	EA	-	10K-2	C4.2
14	PROTECT AND ADJUST EXISTING STANDARD OR TRAFFIC RATED SINGLE WATER METER BOX TO NEW FINISH GRADE	EA	2	10K-2	C4.2
15	REMOVE AND REPLACE EXISTING SIGN POST, BASE, AND SIGN ASSEMBLY	EA	1	S-401A	C4.0
16	TREE ROOT MITIGATION	EA	-		
17	PROTECT AND ADJUST EXISTING ELECTRICAL BOX TO NEW FINISH GRADE	EA	-		
18	PROTECT AND ADJUST EXISTING MANHOLE TO FINISH GRADE	EA	-	S-210A	C4.2
19	INSTALL PERMANENT BITUMINOUS PAVEMENT PATCH	SF	764	S-115	C4.1
20	INSTALL PCC POST CURB	LF	-	C100	C4.0
21	INSTALL 24" WHITE THERMOPLASTIC STOP BARS OR CROSSWALK KEYS	LF	-		

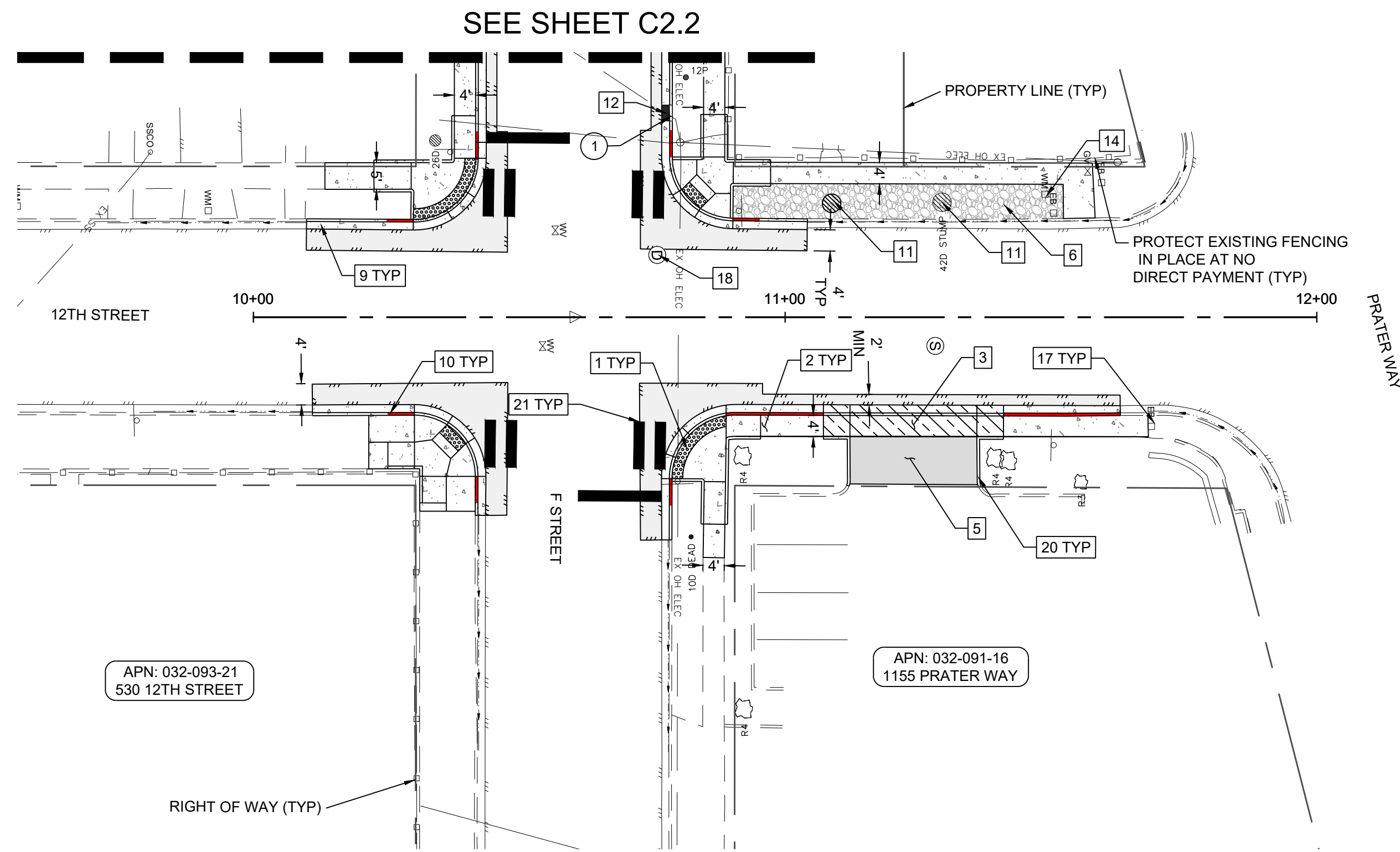
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IMPROVEMENT LEGEND

- PCC TYPE 1 CURB AND GUTTER
- PCC SIDEWALK
- PCC COMMERCIAL DRIVEWAY APRON
- PCC RESIDENTIAL DRIVEWAY APRON
- AC DRIVEWAY TRANSITION
- DECOMPOSED GRANITE
- CONCRETE PAVERS
- VALLEY GUTTER
- PERMANENT BITUMINOUS PAVEMENT PATCH





APN: 032-093-21
530 12TH STREET

APN: 032-091-16
1155 PRATER WAY

SHEET C2.3 NOTES:

- ① CONTRACTOR TO INSTALL 6" POST CURB BEHIND NEW TYPE 4R CATCH BASIN PER NOTE 6 ON DETAIL S-204B / C4.2 AT NO ADDITIONAL PAYMENT.

SHEET C2.3 QUANTITIES

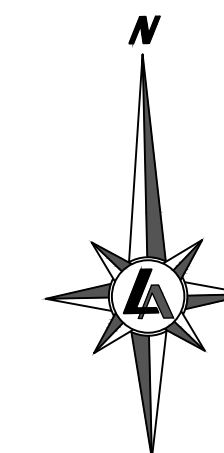
NO.	IMPROVEMENT TYPE	UNIT	QTY.	DETAIL	SHEET
1	INSTALL PCC PEDESTRIAN RAMP	EA	4	S-106	C4.0
2	REMOVE AND REPLACE PCC SIDEWALK	SF	761	S-103	C4.0
3	REMOVE AND REPLACE COMMERCIAL DRIVEWAY APRON	SF	201	S-111	C4.1
4	REMOVE AND REPLACE RESIDENTIAL DRIVEWAY APRON	SF	-	S-111	C4.1
5	INSTALL AC DRIVEWAY TRANSITION	SF	191	C102	C4.1
6	REMOVE EXISTING IMPROVEMENTS AND REPLACE WITH DECOMPOSED GRANITE	SF	404		
7	REMOVE, PROTECT, AND RESET LANDSCAPE PAVERS	SF	-		
8	REMOVE AND REPLACE PCC VALLEY GUTTER	SF	-	S-108	C4.0
9	REMOVE AND REPLACE PCC TYPE 1 CURB AND GUTTER	LF	150	S-109	C4.0
10	INSTALL RED CURB PAINT	LF	77		
11	TREE STUMP REMOVAL	EA	2		
12	REMOVE AND REPLACE EXISTING CATCH BASIN OR DROP INLET WITH TYPE 4R CATCH BASIN	EA	1	S-204	C4.2
13	REMOVE EXISTING AND INSTALL + ADJUST NEW STANDARD OR TRAFFIC RATED SINGLE WATER METER BOX TO NEW FINISH GRADE	EA	-	10K-2	C4.2
14	PROTECT AND ADJUST EXISTING STANDARD OR TRAFFIC RATED SINGLE WATER METER BOX TO NEW FINISH GRADE	EA	-	10K-2	C4.2
15	REMOVE AND REPLACE EXISTING SIGN POST, BASE, AND SIGN ASSEMBLY	EA	-	S-401A	C4.0
16	TREE ROOT MITIGATION	EA	-		
17	PROTECT AND ADJUST EXISTING ELECTRICAL BOX TO NEW FINISH GRADE	EA	3		
18	PROTECT AND ADJUST EXISTING MANHOLE TO FINISH GRADE	EA	1	S-210A	C4.2
19	INSTALL PERMANENT BITUMINOUS PAVEMENT PATCH	SF	1,203	S-115	C4.1
20	INSTALL PCC POST CURB	LF	70	C100	C4.0
21	INSTALL 24" WHITE THERMOPLASTIC STOP BARS OR CROSSWALK KEYS	LF	112		

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IMPROVEMENT LEGEND

	PCC TYPE 1 CURB AND GUTTER
	PCC SIDEWALK
	PCC COMMERCIAL DRIVEWAY APRON
	PCC RESIDENTIAL DRIVEWAY APRON
	AC DRIVEWAY TRANSITION
	DECOMPOSED GRANITE
	CONCRETE PAVERS
	VALLEY GUTTER
	PERMANENT BITUMINOUS PAVEMENT PATCH



0 20' 40'
22x34 SHEETS: 1" = 20'
11x17 SHEETS: 1" = 40'

CITY OF SPARKS
 CDBG PHASE 2
 E STREET, F STREET, & 12TH STREET
 12TH STREET SURFACE IMPROVEMENT PLAN
 SPARKS
 WASHOE COUNTY
 NEVADA

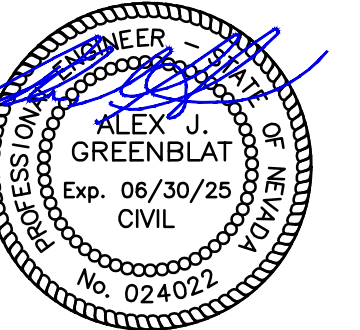
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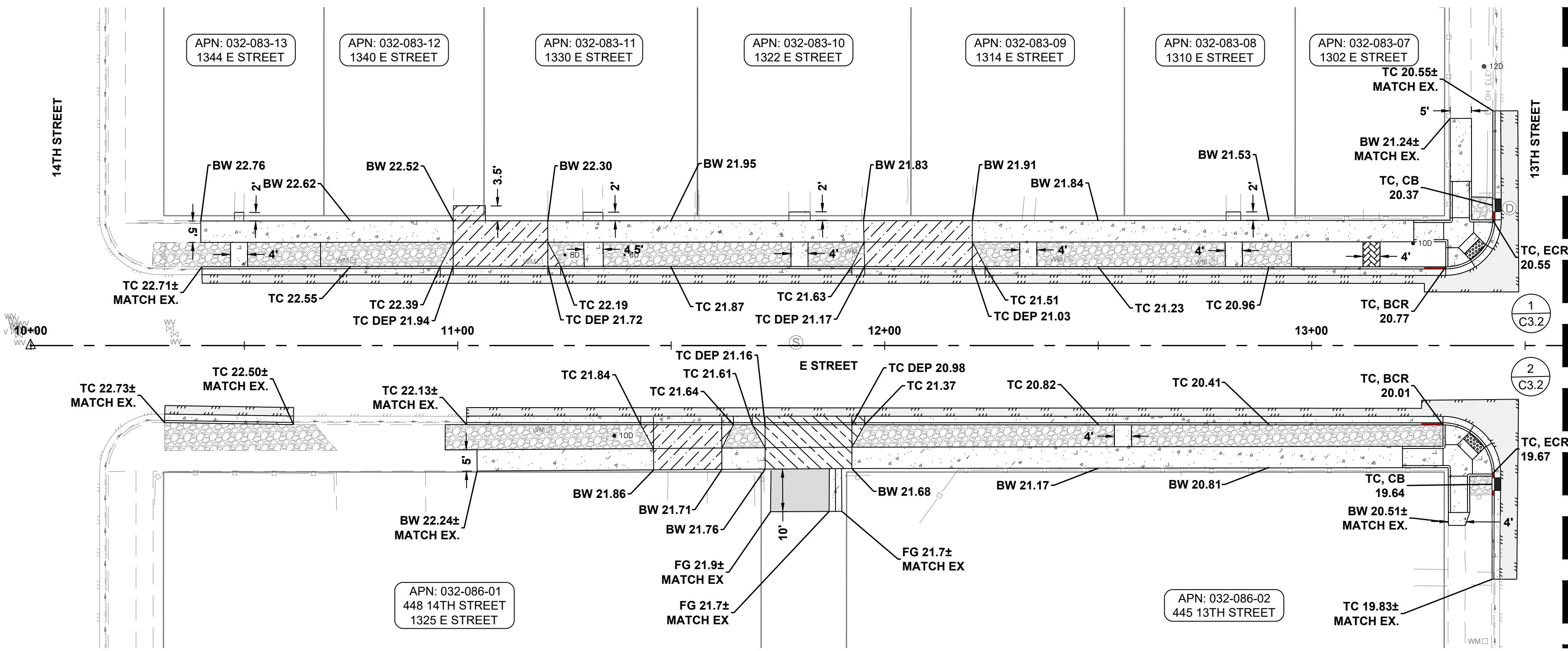
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DESIGNED BY: IPN
CHECKED BY: AJG
JOB NO.: 10415.002



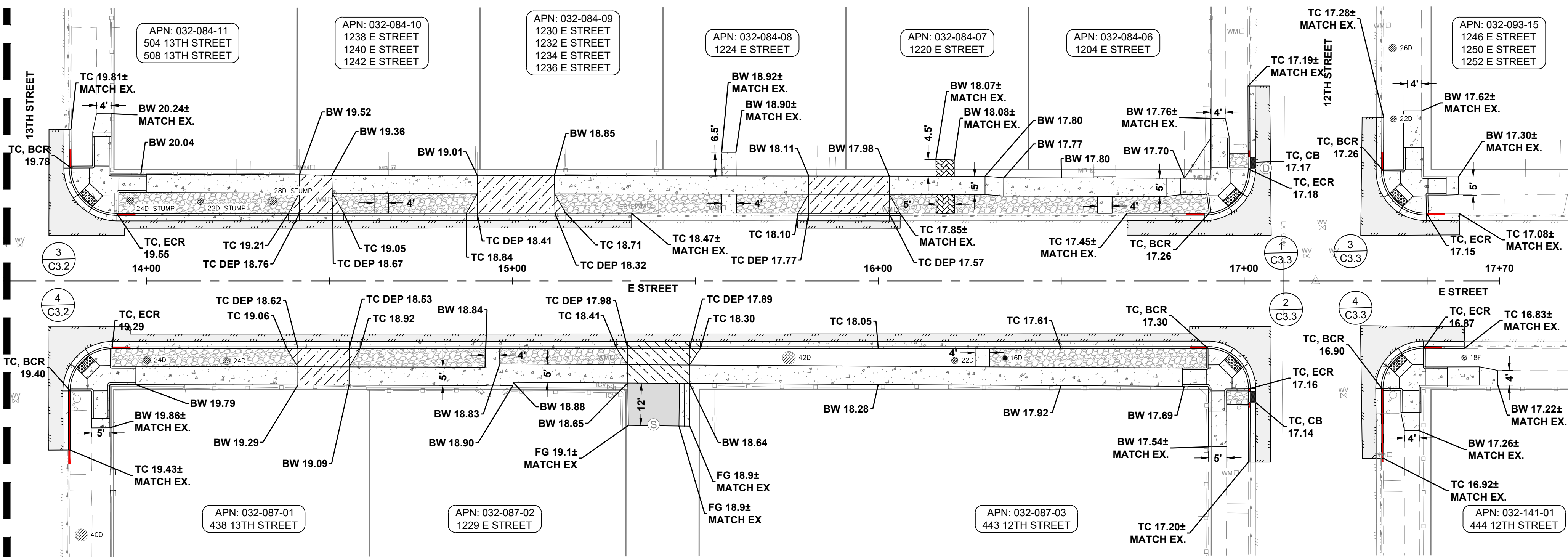
3/1/2024

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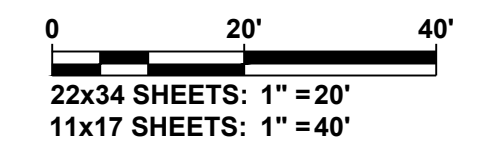
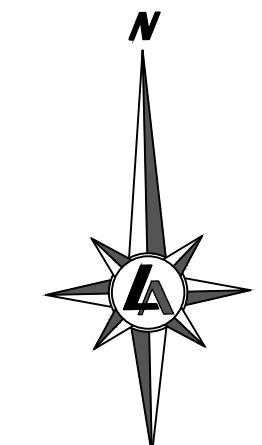
- 4400' TO BE ADDED TO ALL PLAN VIEW ELEVATION TAGS.
- THE GRADING INTENT FOR THIS PROJECT IS TO MATCH EXISTING GRADES AT BACK OF WALK AND EDGE OF PAVEMENT, OR WHERE INDICATED ON THE PLAN SHEETS.
- REFER TO THE SURFACE IMPROVEMENT PLANS FOR ITEMS TO PROTECT IN PLACE WHILE PERFORMING GRADING OPERATIONS.
- CITY TO PROVIDE CONSTRUCTION STAKING.
- PROTECT ALL EXISTING UTILITIES IN PLACE UNLESS DESIGNATED FOR REPLACEMENT.
- REFERENCE PED RAMP DETAILS FOR GRADING INFORMATION
- AT CURB AND GUTTER MATCH POINTS, CONTRACTOR TO INSTALL 3' TRANSITION SEGMENT TO WARP SECTION INTO EXISTING CONFIGURATION



SEE BELOW



SEE ABOVE



CITY OF SPARKS
CDBG PHASE 2
E STREET, F STREET, & 12TH STREET
E STREET GRADING PLAN
SPARKS
WASHOE COUNTY
NEVADA

REV	DATE	DESCRIPTION

BAR IS 1 INCH ON ORIGINAL DRAWING

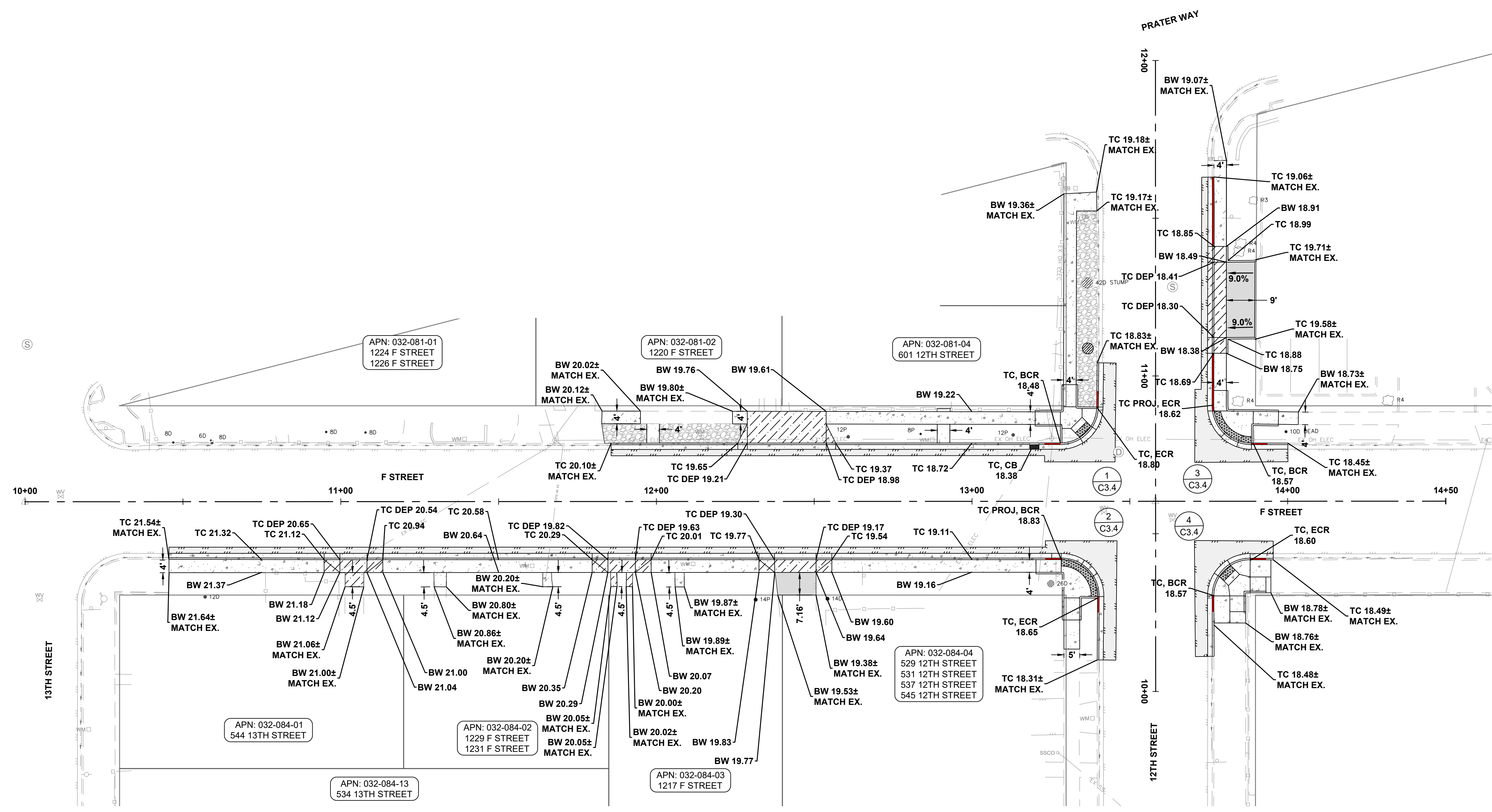
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C3.0

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DESIGNED BY: IPN
CHECKED BY: AJG
JOB NO.: 10415.002

ISSUED FOR BIDDING
MARCH 1, 2024

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GENERAL GRADING NOTES:

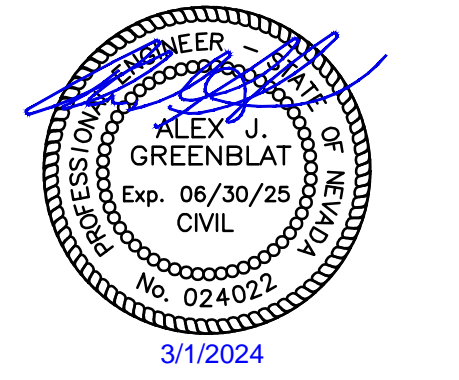
1. 4400' TO BE ADDED TO ALL PLAN VIEW ELEVATION TAGS.
2. THE GRADING INTENT FOR THIS PROJECT IS TO MATCH EXISTING GRADES AT BACK OF WALK AND EDGE OF PAVEMENT, OR WHERE INDICATED ON THE PLAN SHEETS.
3. REFER TO THE SURFACE IMPROVEMENT PLANS FOR ITEMS TO PROTECT IN PLACE WHILE PERFORMING GRADING OPERATIONS.
4. CITY TO PROVIDE CONSTRUCTION STAKING.
5. PROTECT ALL EXISTING UTILITIES IN PLACE UNLESS DESIGNATED FOR REPLACEMENT.
6. REFERENCE PED RAMP DETAILS FOR GRADING INFORMATION
7. AT CURB AND GUTTER MATCH POINTS, CONTRACTOR TO INSTALL 3' TRANSITION SEGMENT TO WARP SECTION INTO EXISTING CONFIGURATION



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CITY OF SPARKS
**CDBG PHASE 2
E STREET, F STREET, & 12TH STREET
F STREET AND 12TH STREET GRADING PLAN**
SPARKS WASHOE COUNTY NEVADA

REV	DATE	DESCRIPTION

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DESIGNED BY: IPN
CHECKED BY: AJG
JOB NO.: 10415.002

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MARCH 1, 2024



CITY OF SPARKS
CDBG PHASE 2
E STREET, F STREET, & 12TH STREET
PEDESTRIAN RAMP ENLARGED VIEWS
 SPARKS WASHOE COUNTY NEVADA

REV	DATE	DESCRIPTION	BY

ISSUED FOR BIDDING
 MARCH 1, 2024

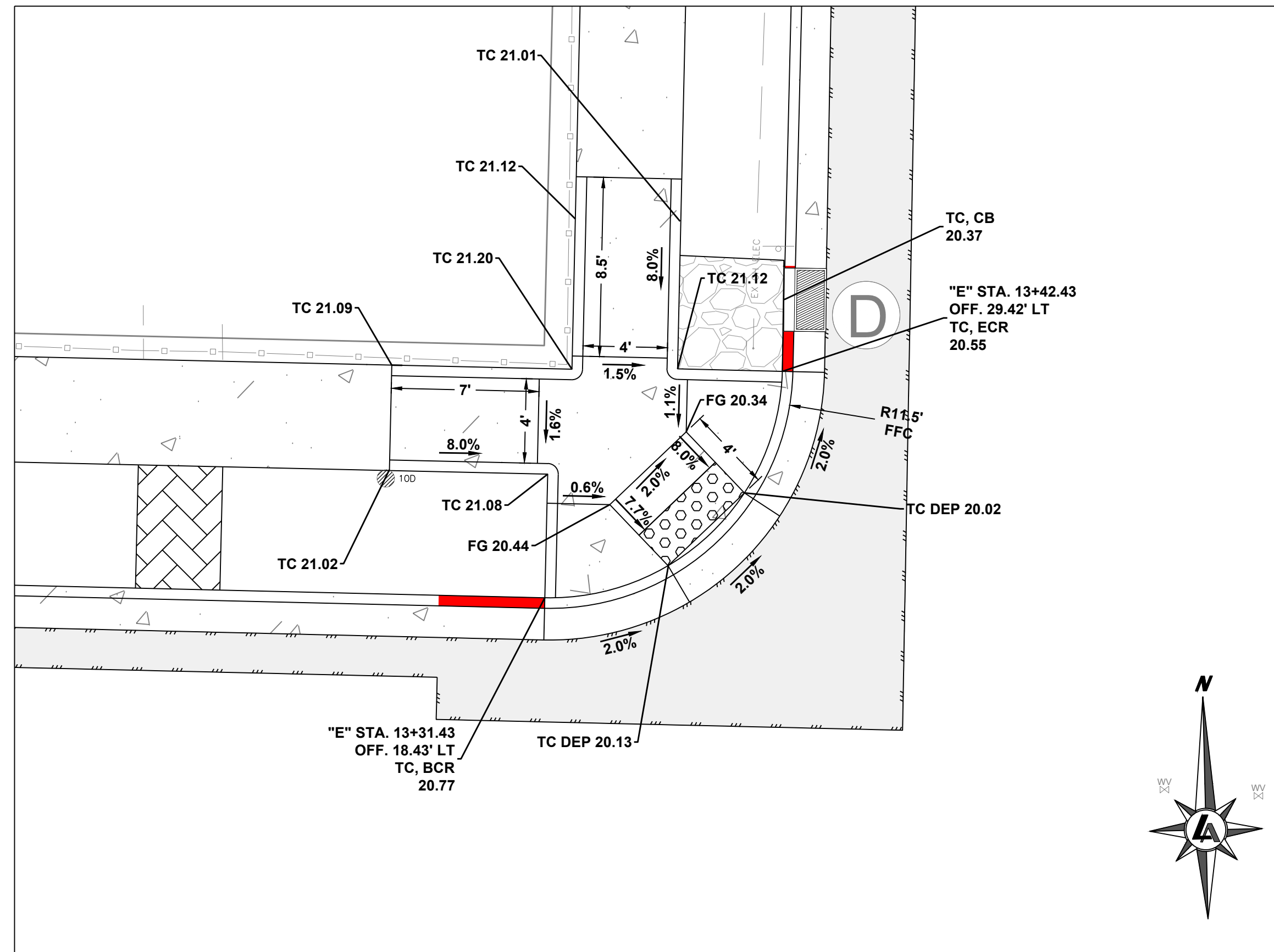
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0 1" 10'

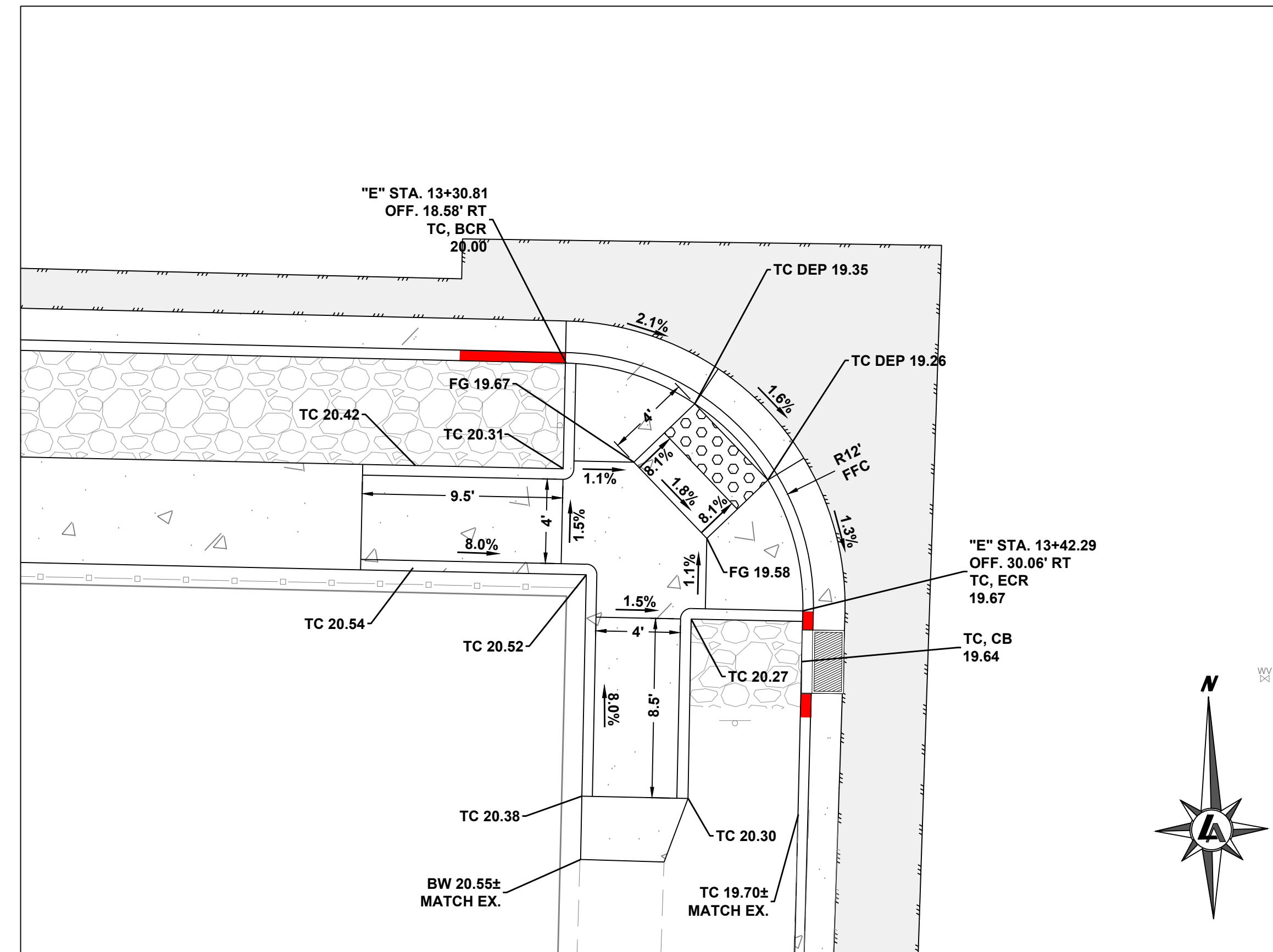
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 CHECKED BY: AJG
 JOB NO.: 10415.002

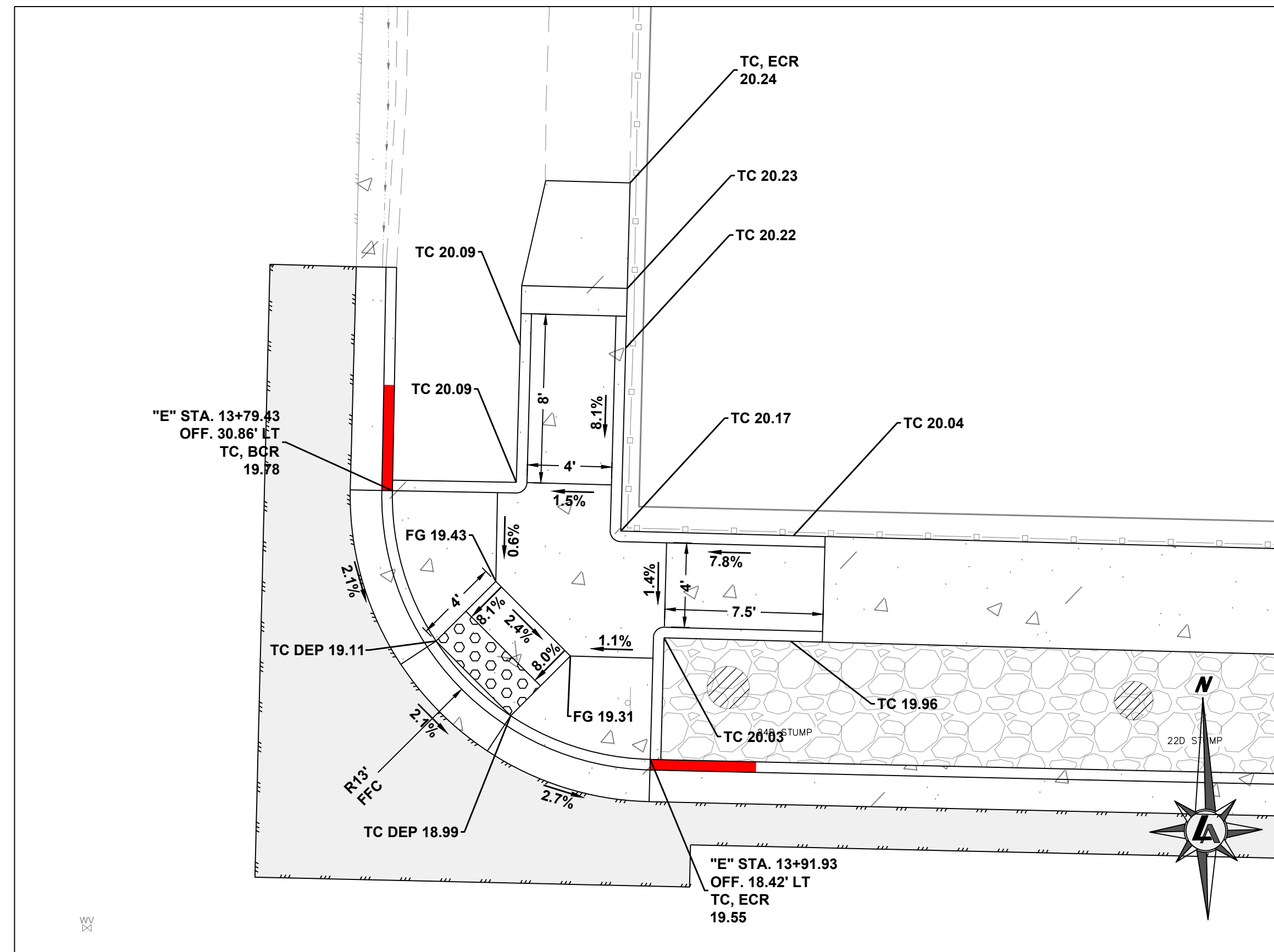


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 C3.2 13TH AND E STREET - NORTH WEST PEDESTRIAN RAMP DETAIL

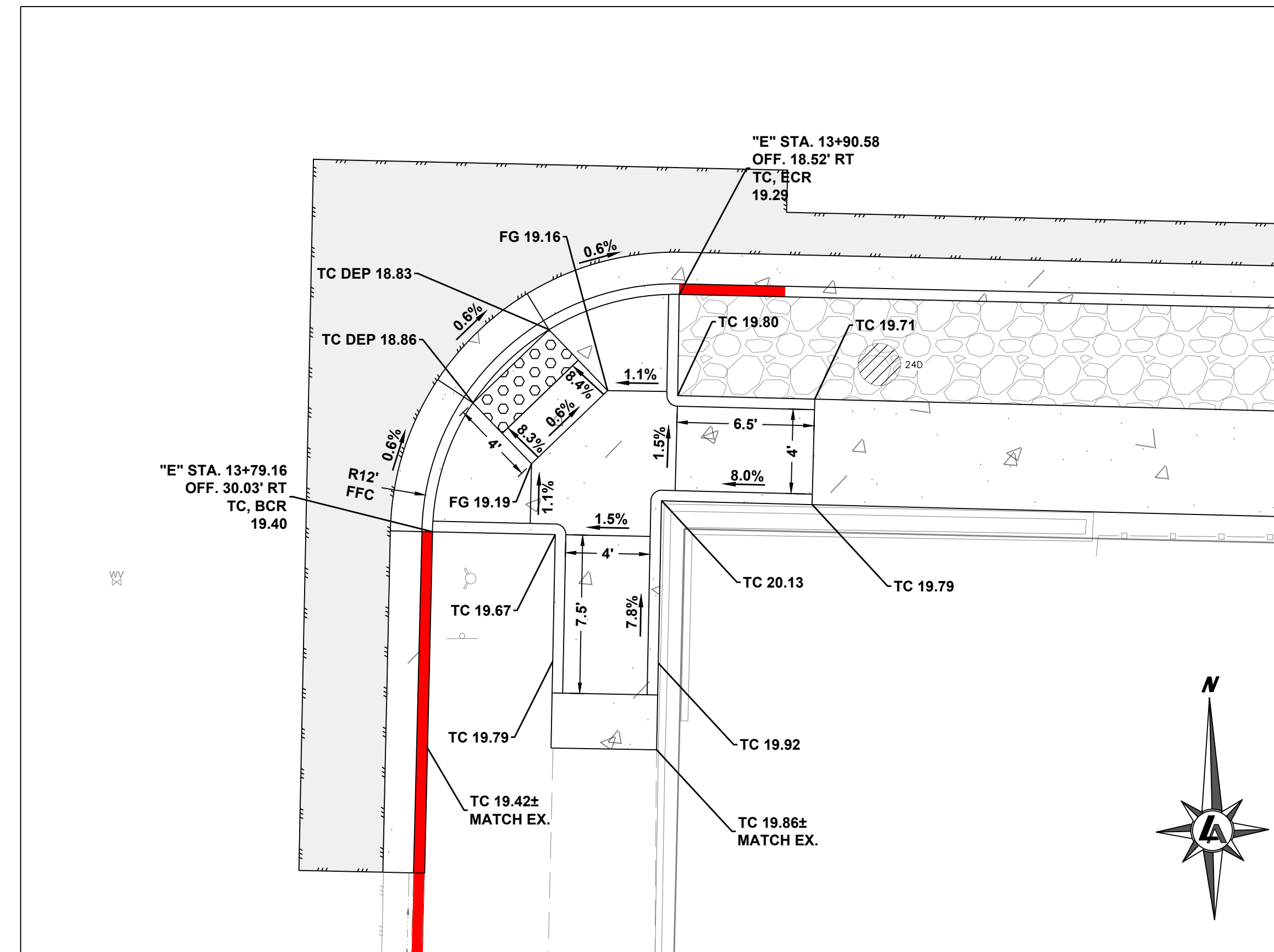


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 C3.2 13TH AND E STREET - SOUTH WEST PEDESTRIAN RAMP DETAIL

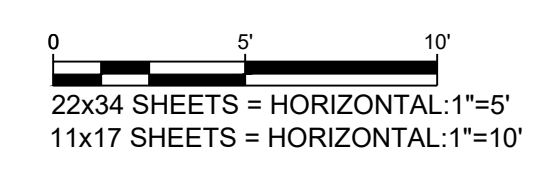
- PEDESTRIAN RAMP NOTES:**
1. ADD 4400' TO ALL ELEVATION TAGS
 2. PEDESTRIAN RAMP WING SHALL BE 6' MINIMUM LENGTH (UNLESS NOTED ON THIS PLAN) AND NOT EXCEED 8.3%
 3. PEDESTRIAN RAMP LANDING SHALL BE MIN. 5' WIDE AND 4' OFFSET FROM TOP OF RAMP.



3
 C3.2 13TH AND E STREET - NORTH EAST PEDESTRIAN RAMP DETAIL



4
 C3.2 13TH AND E STREET - SOUTH EAST PEDESTRIAN RAMP DETAIL



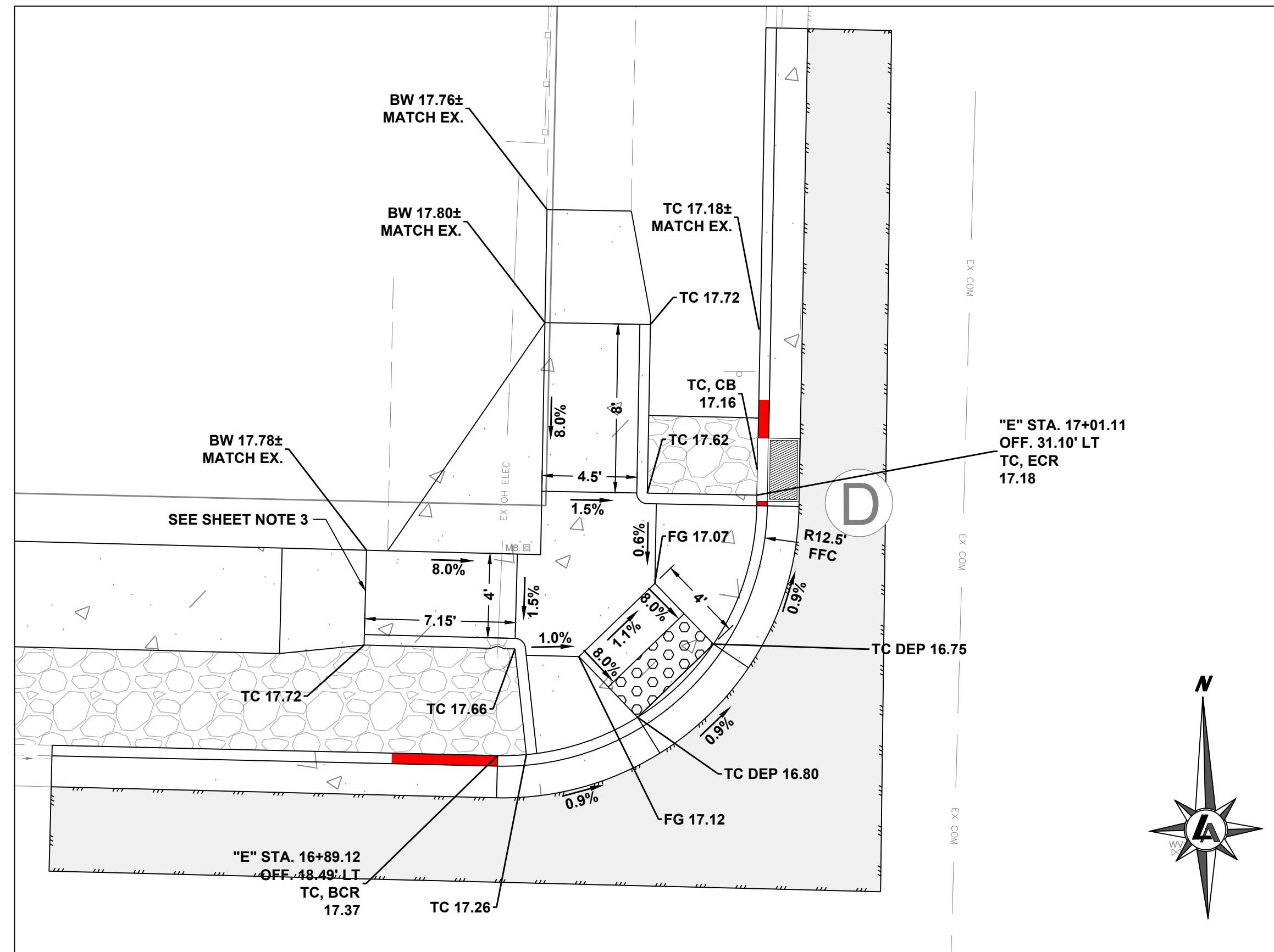
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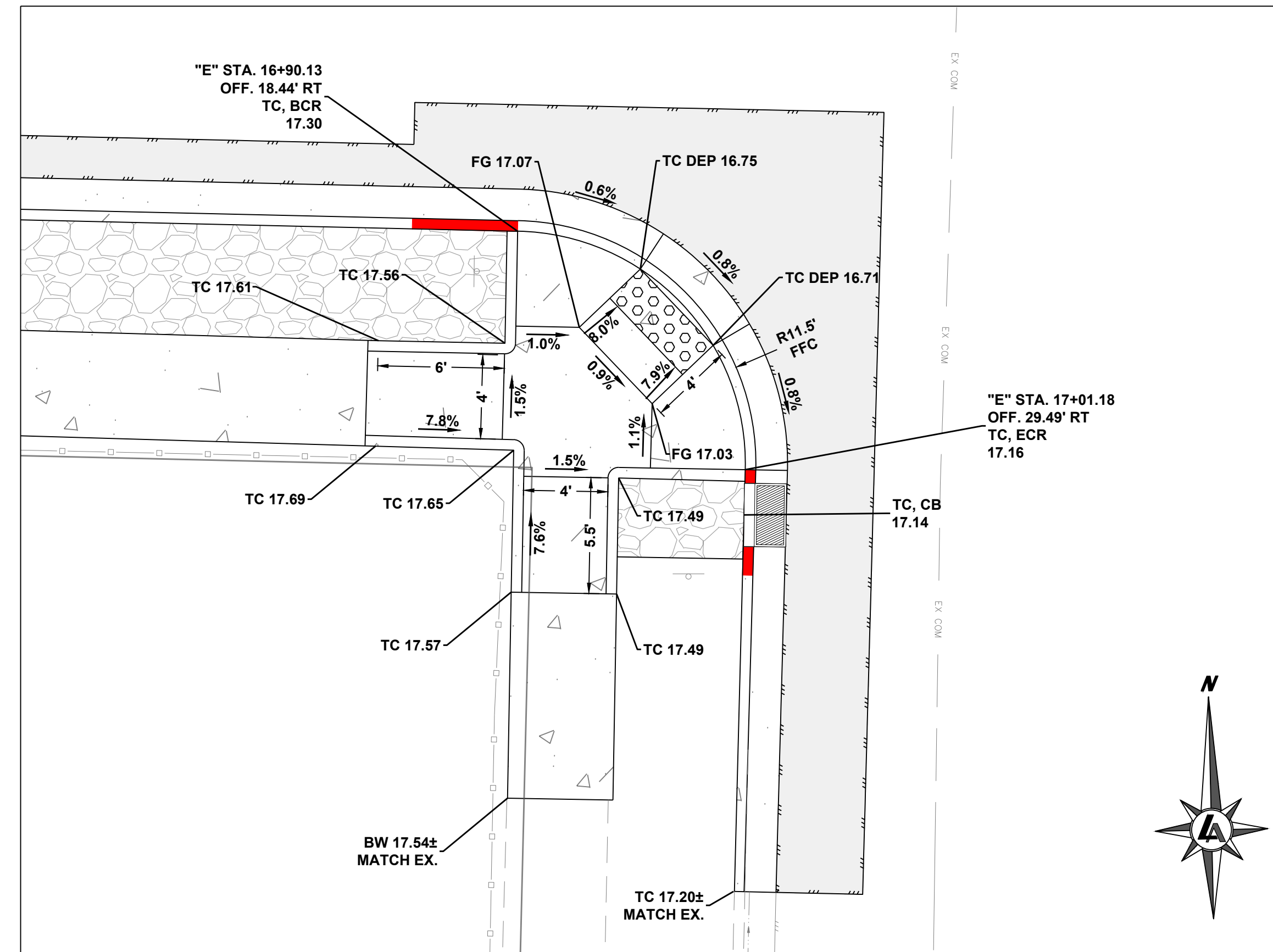
CITY OF SPARKS
CDBG PHASE 2
E STREET, F STREET, & 12TH STREET
PEDESTRIAN RAMP ENLARGED VIEWS
 SPARKS WASHOE COUNTY NEVADA

REV	DATE	DESCRIPTION	BY

ISSUED FOR BIDDING
 MARCH 1, 2024
 BAR IS 1 INCH ON ORIGINAL DRAWING
 1" = 5'
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
C3.3
 DRAWN BY: IPN
 DESIGNED BY: IPN
 CHECKED BY: AJG
 JOB NO.: 10415.002

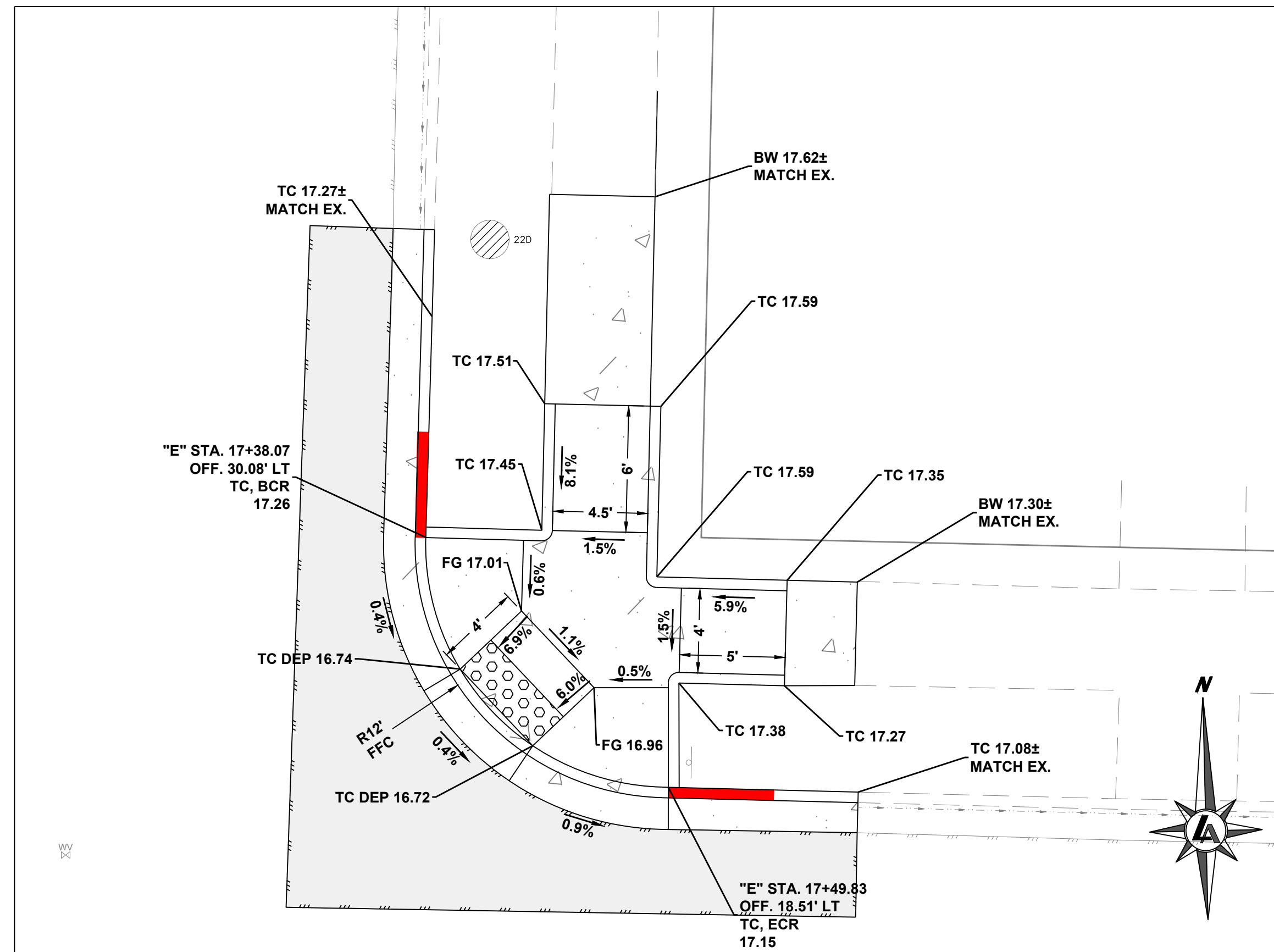


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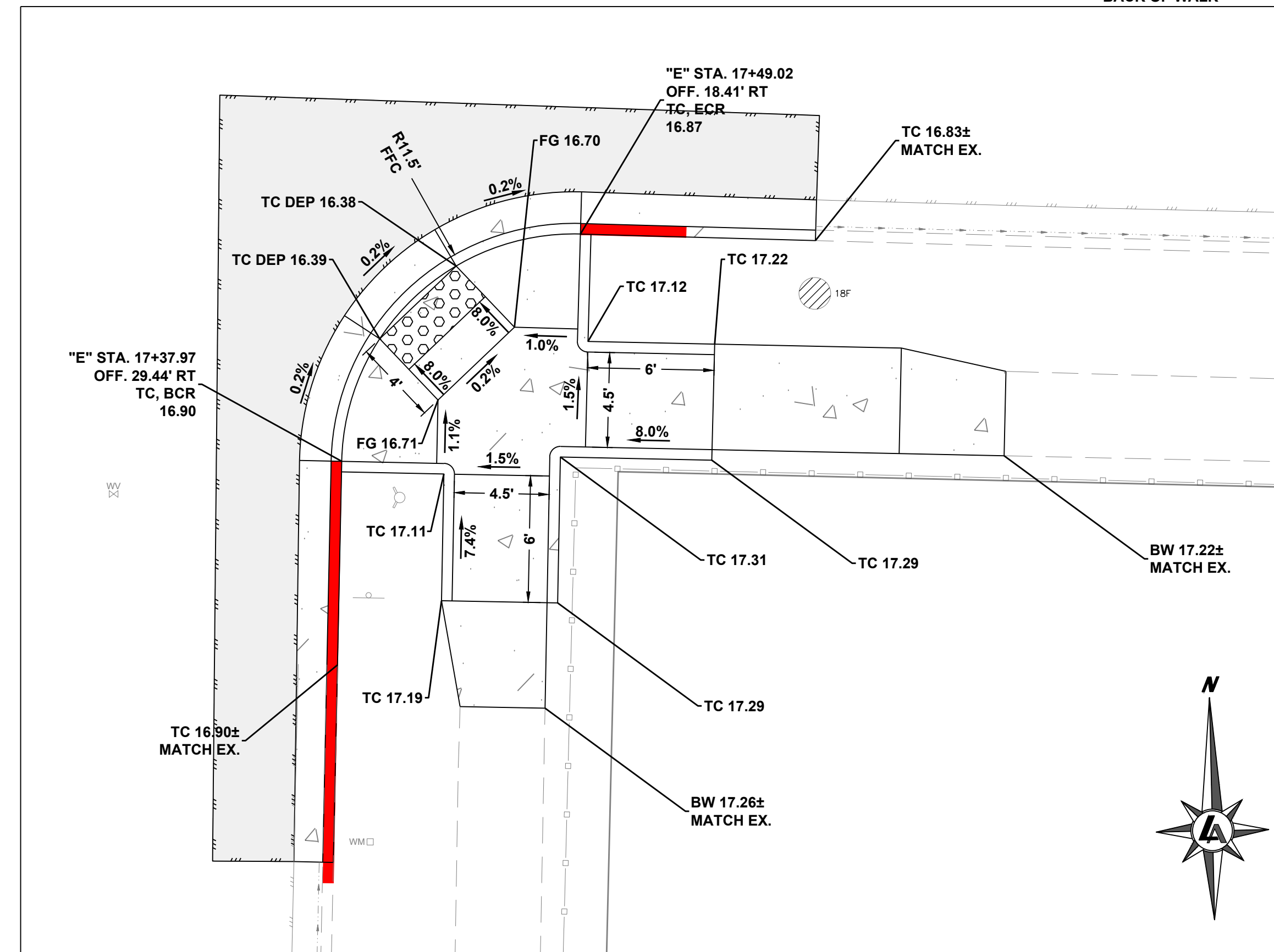


2
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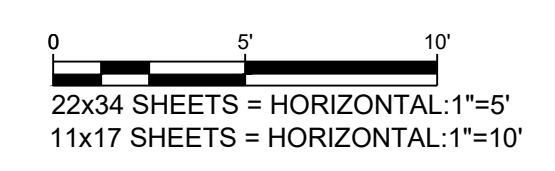
- PEDESTRIAN RAMP NOTES:
1. ADD 4400' TO ALL ELEVATION TAGS
 2. PEDESTRIAN RAMP WING GRADE SHALL NOT EXCEED 8.3%
 3. PEDESTRIAN RAMP LANDING SHALL BE MIN. 5' WIDE AND 4' OFFSET FROM TOP OF RAMP.
 4. LENGTH OF WING TO MATCH CONCRETE FLATWORK EXTENTS BEHIND BACK OF WALK



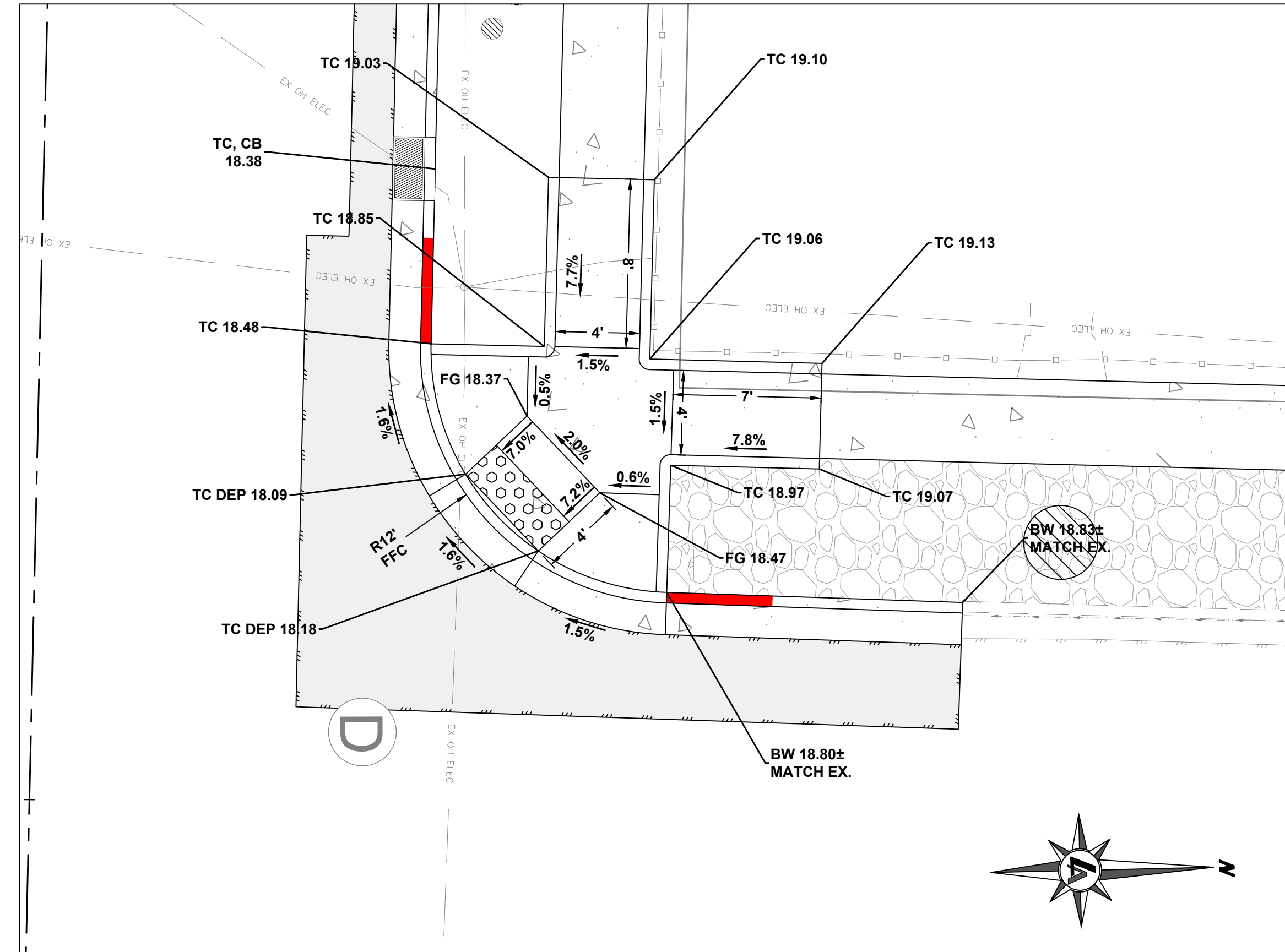
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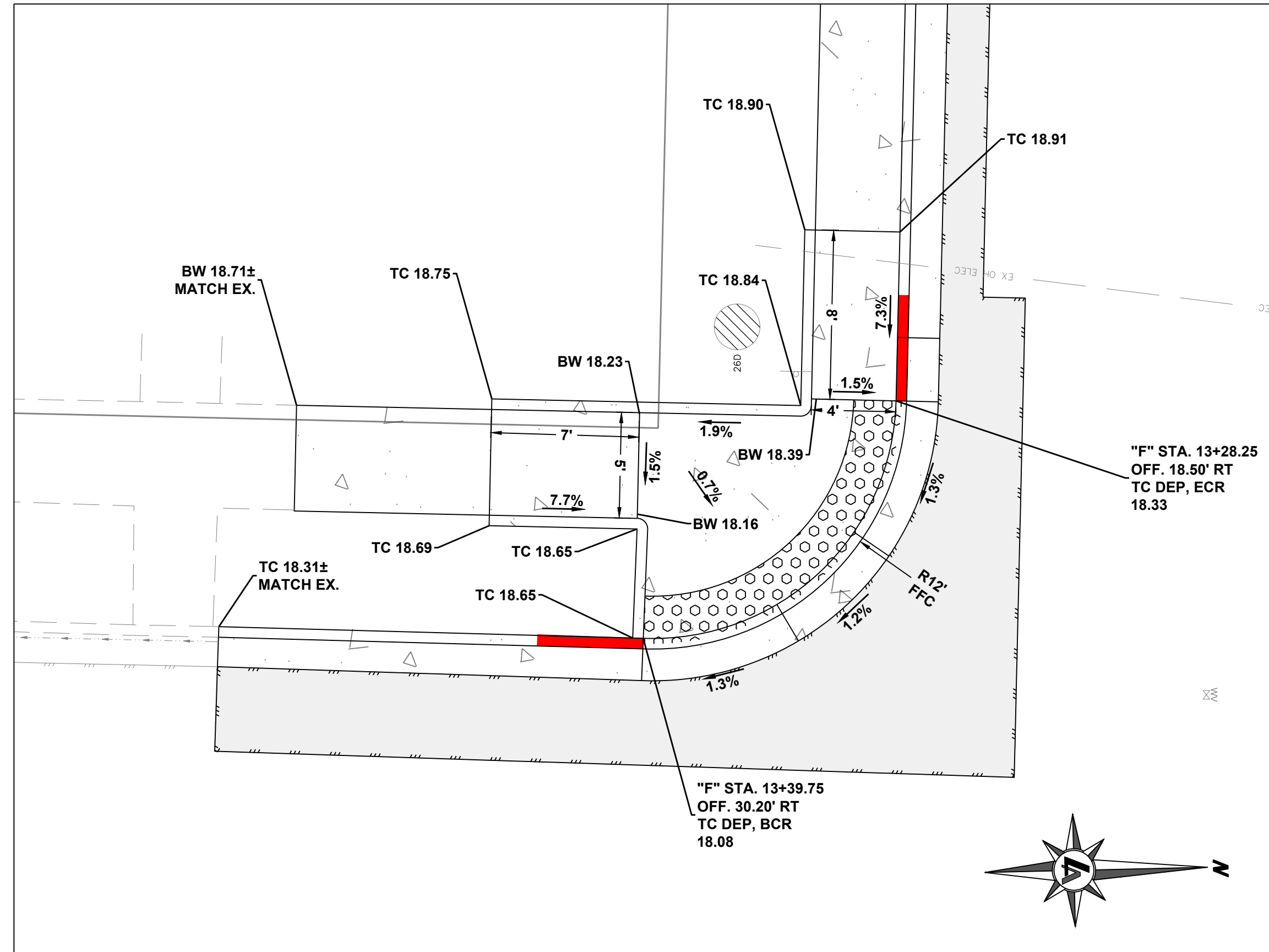
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 C3.3 12TH AND E STREET - SOUTH EAST PEDESTRIAN RAMP DETAIL



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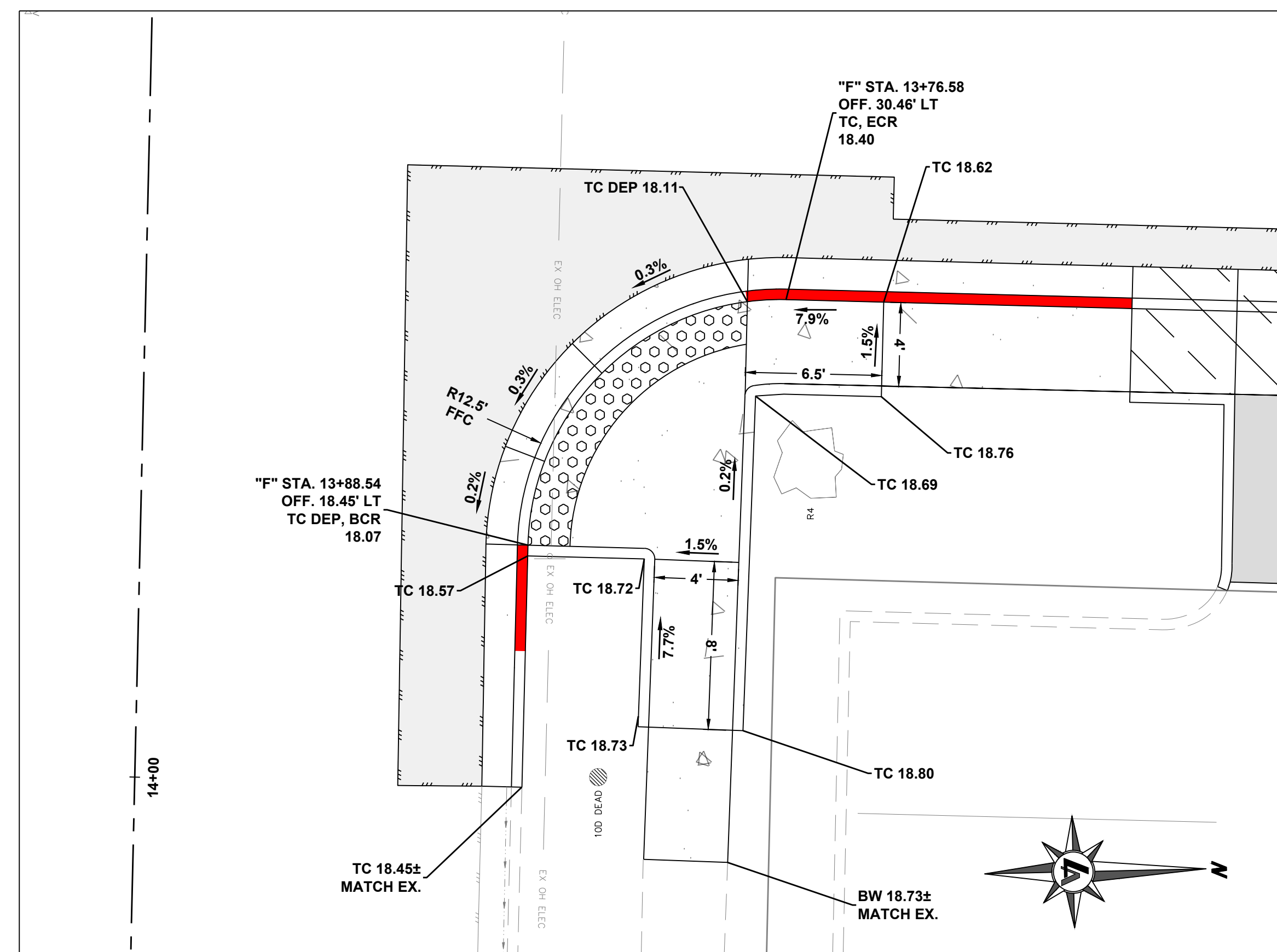


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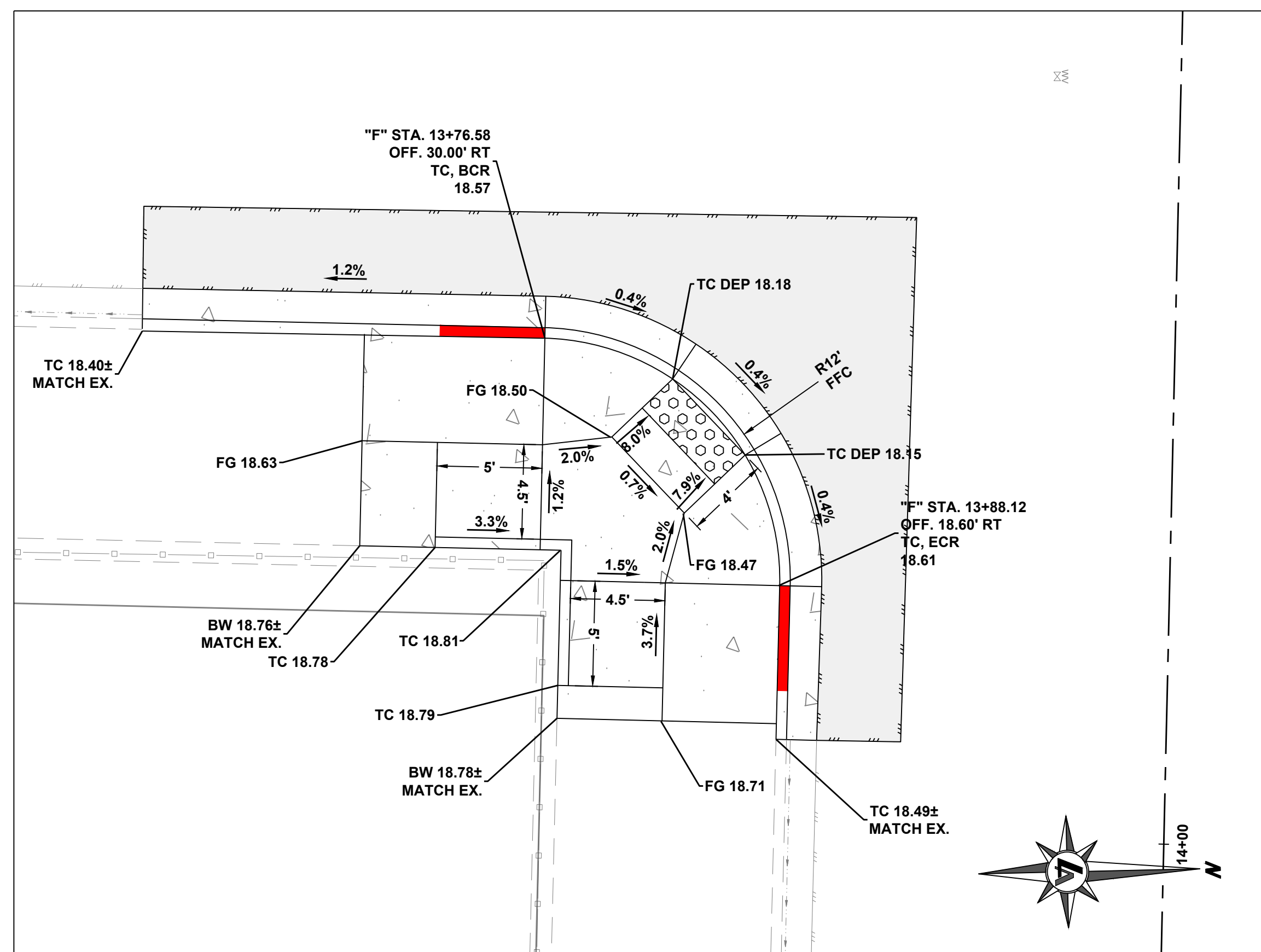


2
C3.4 12TH AND F STREET - SOUTH WEST PEDESTRIAN RAMP DETAIL

- PEDESTRIAN RAMP NOTES:
1. ADD 4400' TO ALL ELEVATION TAGS
 2. PEDESTRIAN RAMP WING GRADE SHALL NOT EXCEED 8.3%
 3. PEDESTRIAN RAMP LANDING SHALL BE MIN. 5' WIDE AND 4' OFFSET FROM TOP OF RAMP.



3
C3.4 12TH AND F STREET - NORTH EAST PEDESTRIAN RAMP DETAIL

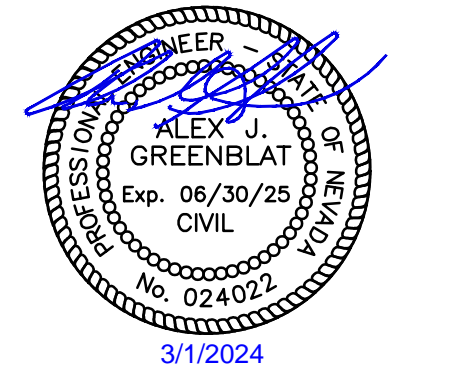


4
C3.4 12TH AND F STREET - SOUTH EAST PEDESTRIAN RAMP DETAIL



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CITY OF SPARKS
CDBG PHASE 2
E STREET, F STREET, & 12TH STREET
PEDESTRIAN RAMP ENLARGED VIEWS
SPARKS
WASHOE COUNTY
NEVADA

REV	DATE	DESCRIPTION

BAR IS 1 INCH ON ORIGINAL DRAWING

1" = 10'

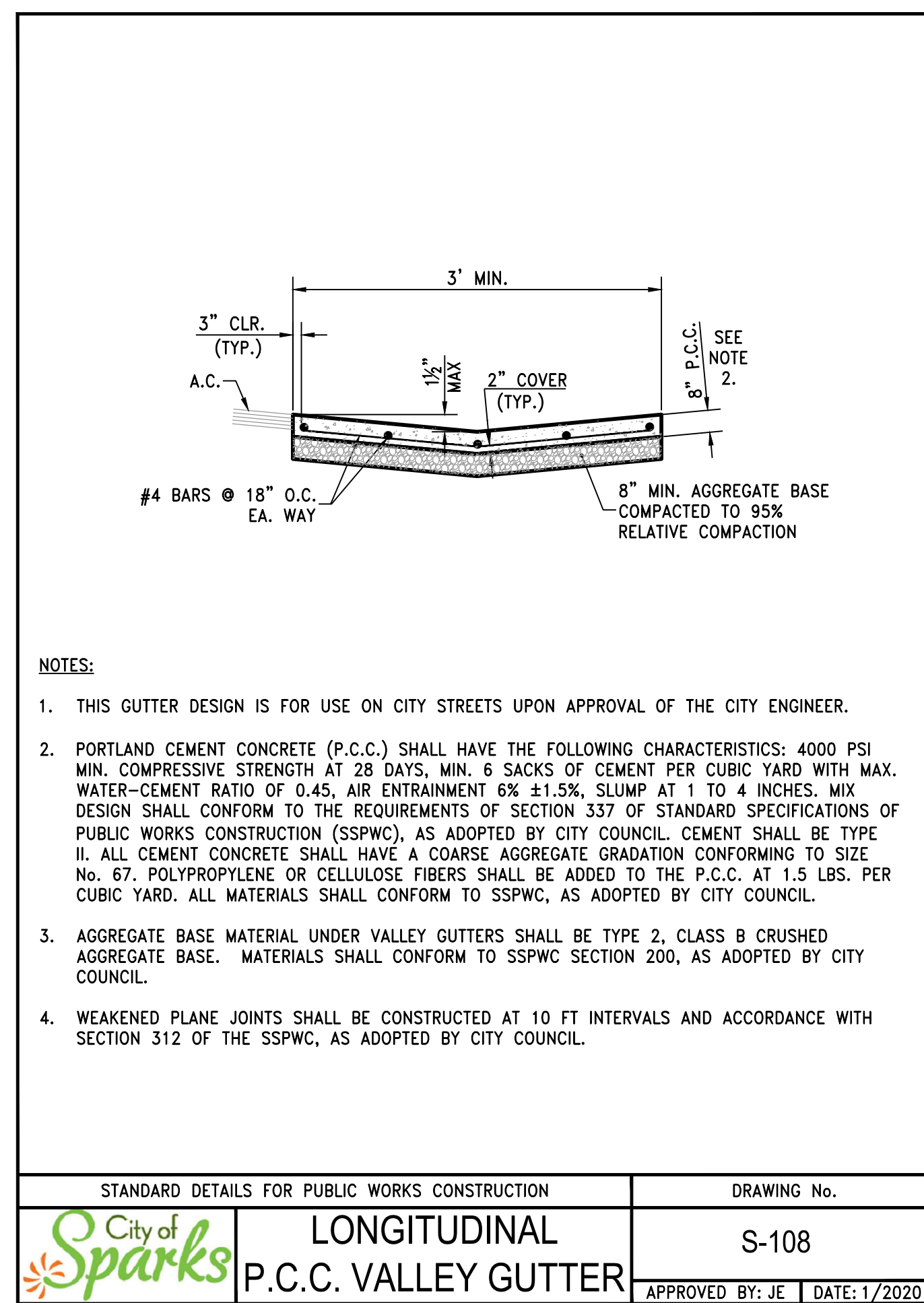
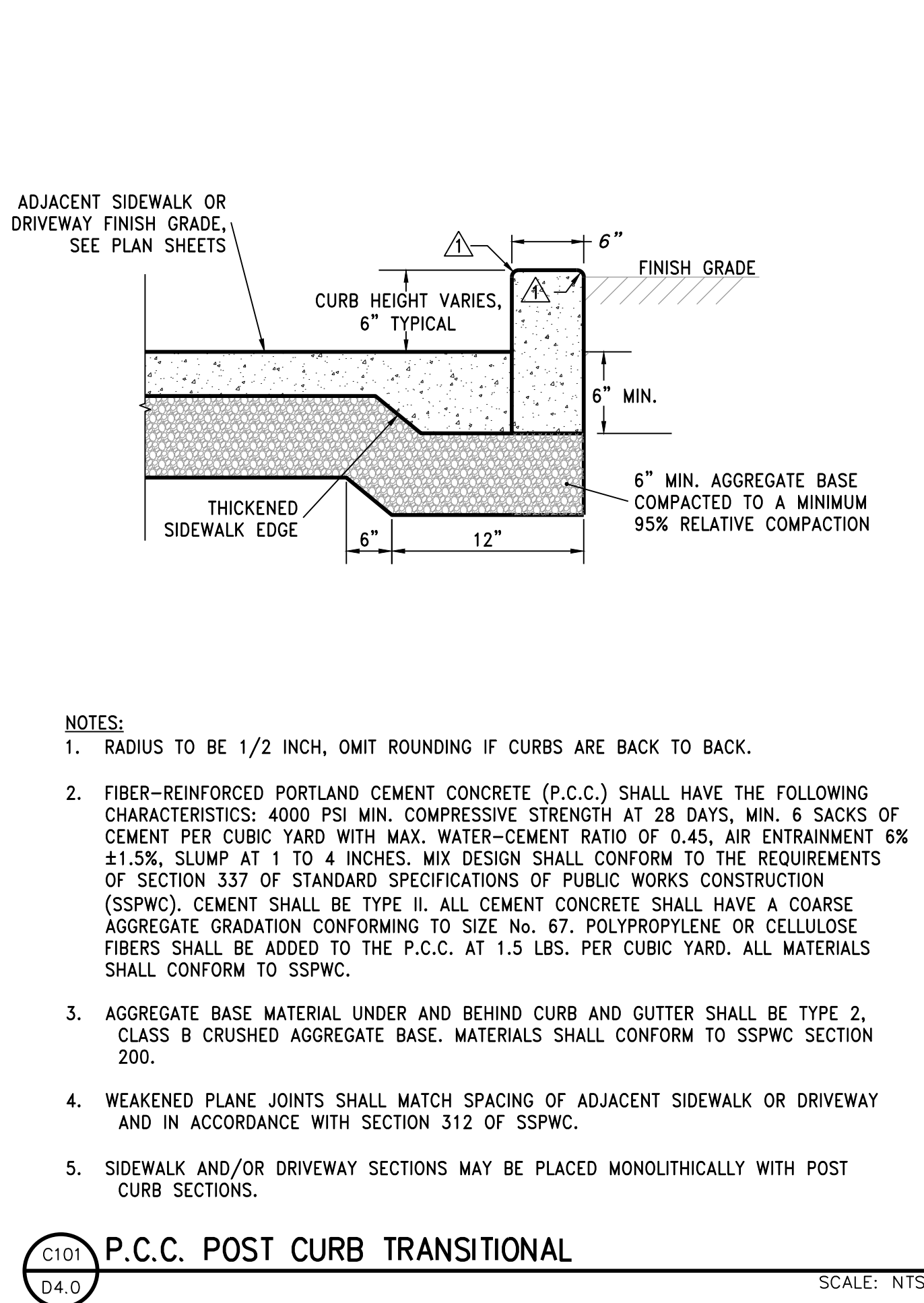
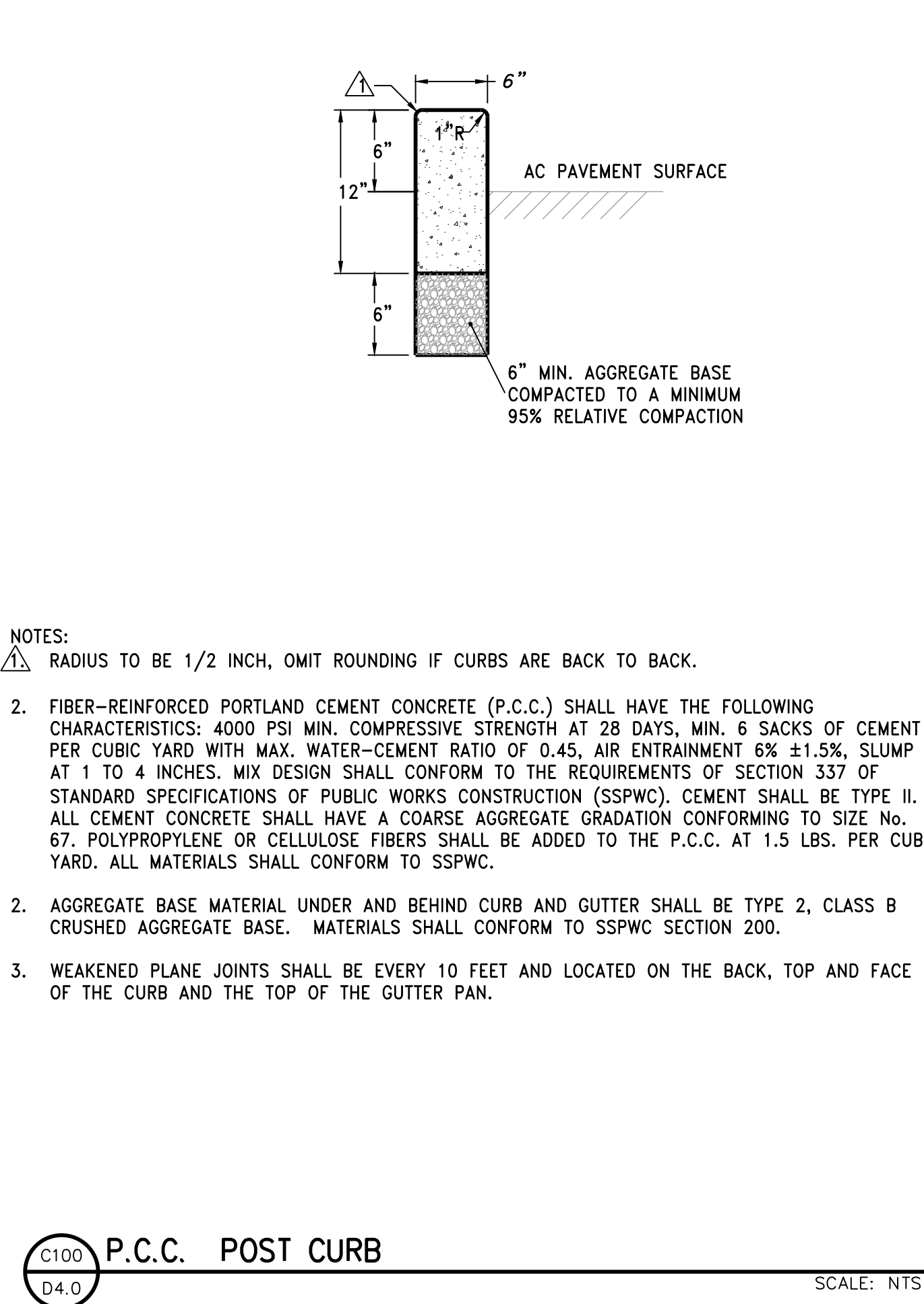
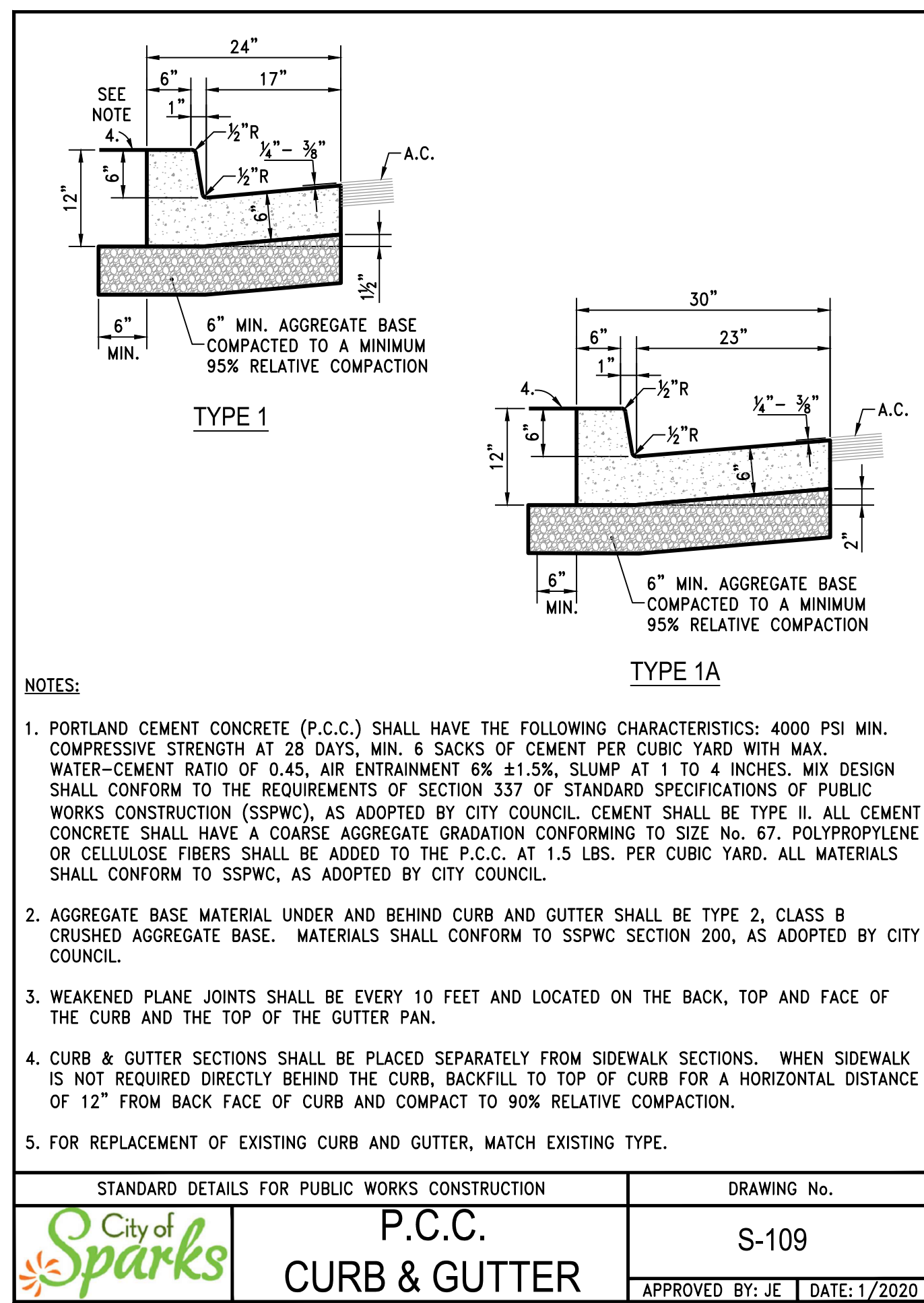
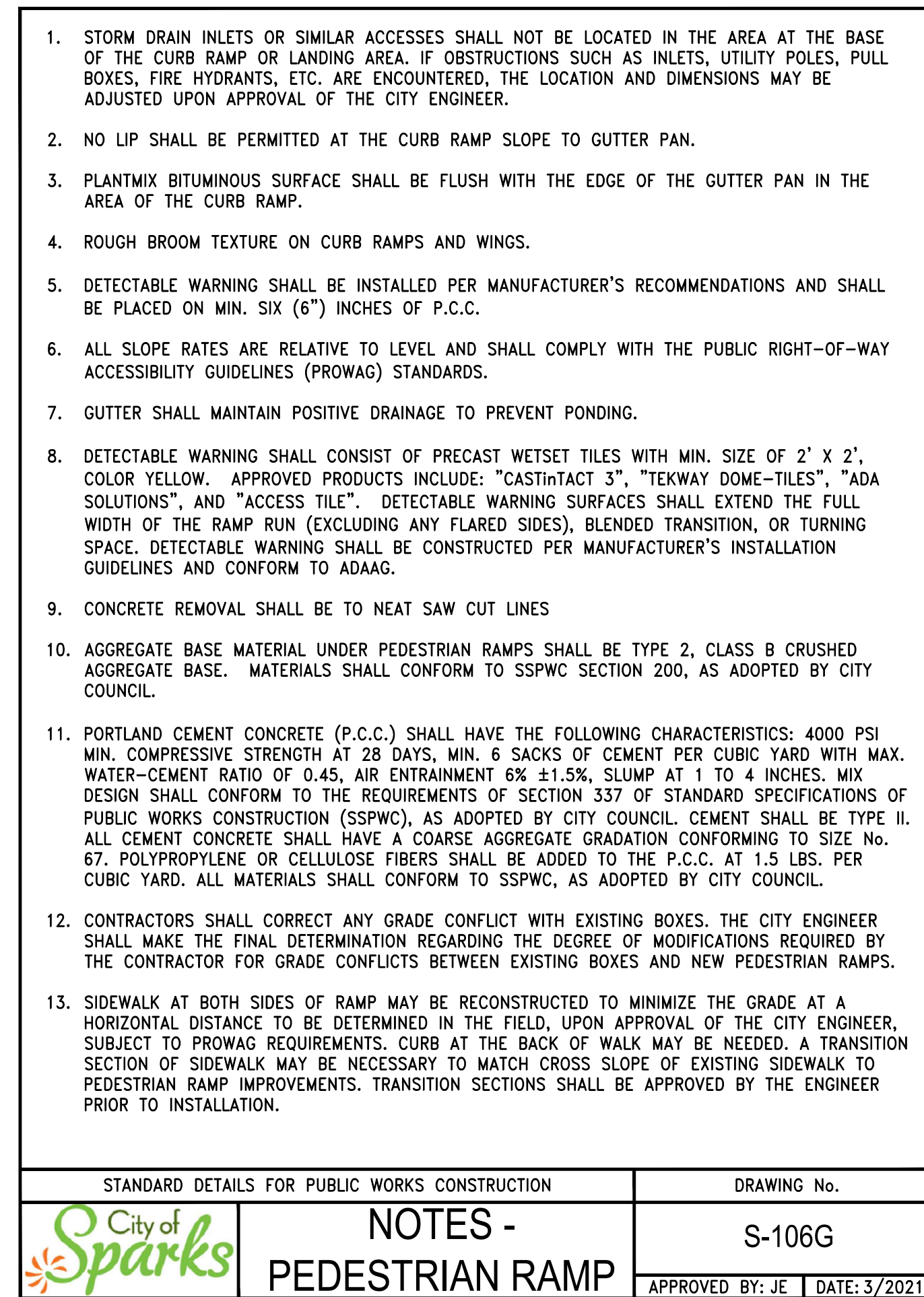
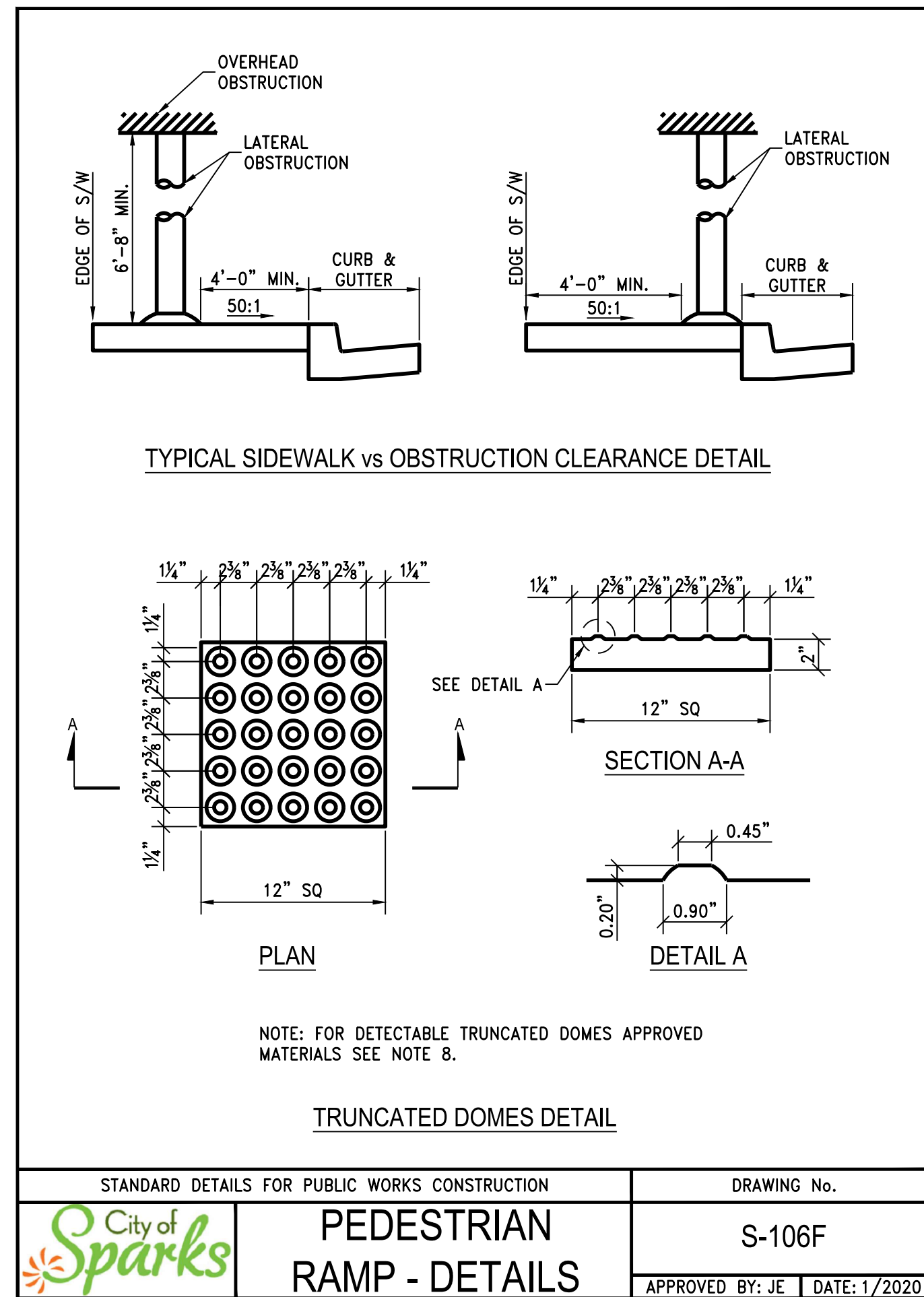
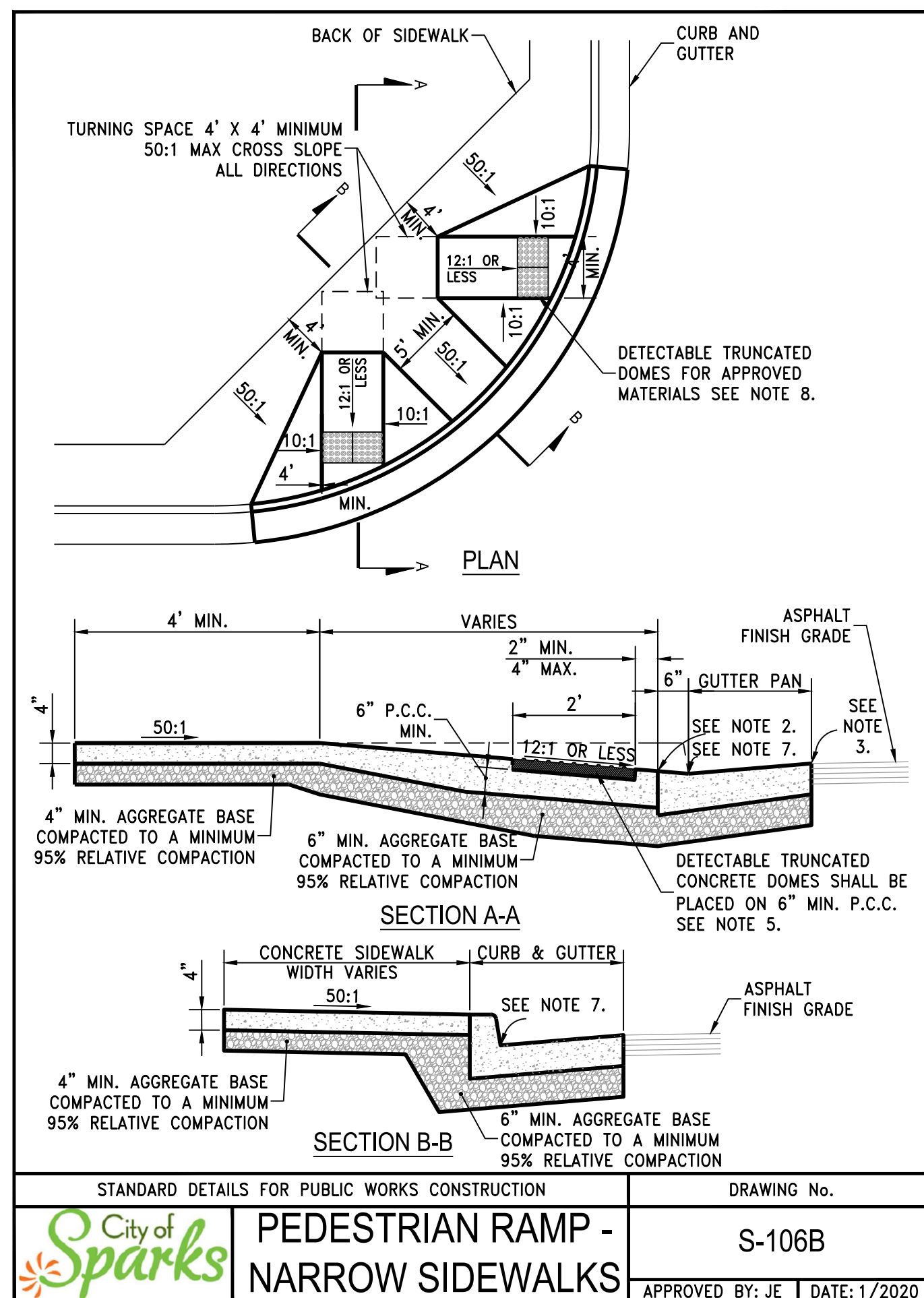
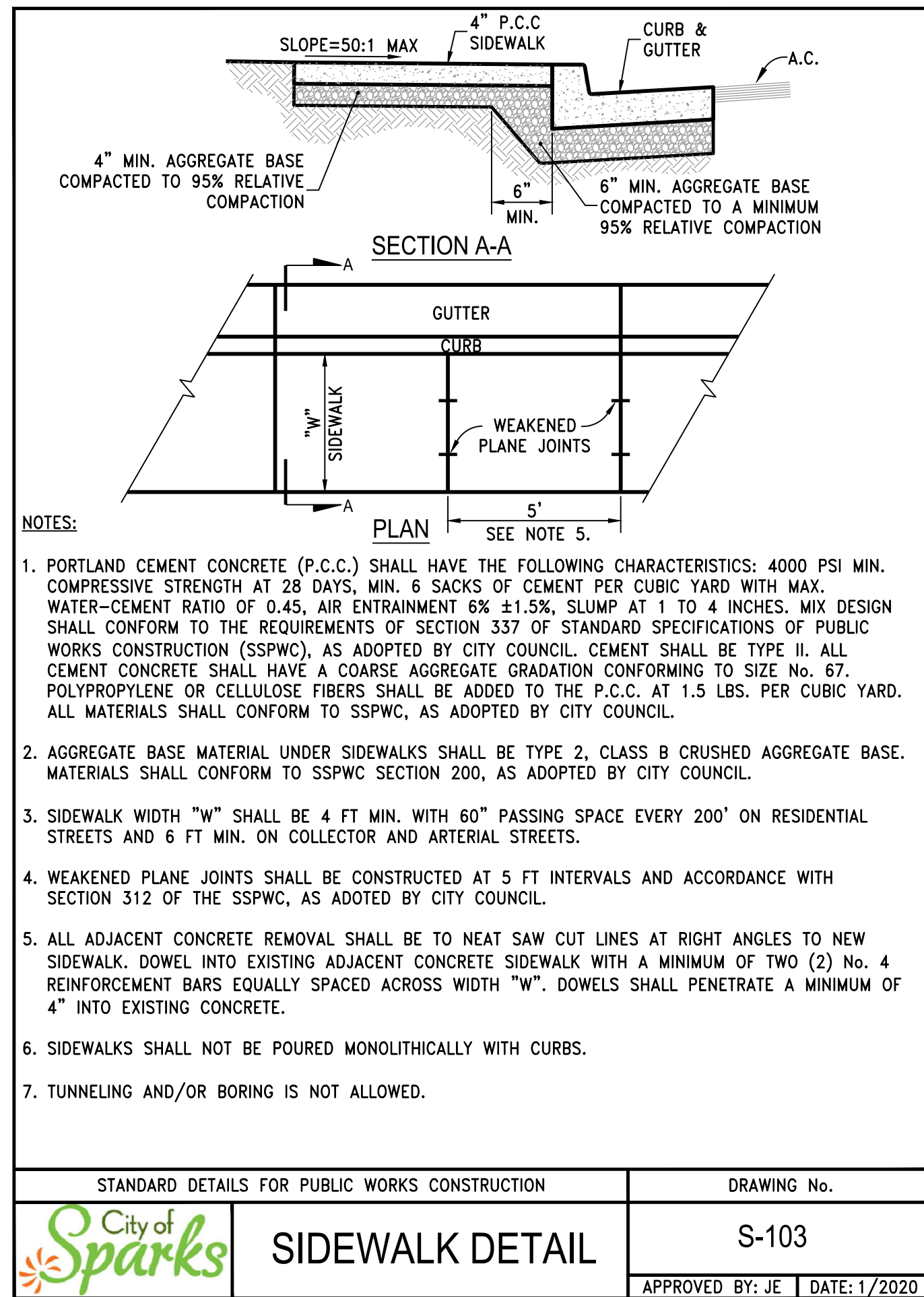
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JOB NO.: 10415.002

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LUMOS & ASSOCIATES

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ALEX J. GREENBLAT
Exp. 06/30/25
CIVIL
No. 024022

3/1/2024

CITY OF SPARKS

CDBG PHASE 2

E STREET, F STREET, & 12TH STREET

DETAILS

NEVADA

SPARKS

ISSUED FOR BIDDING

MARCH 1, 2024

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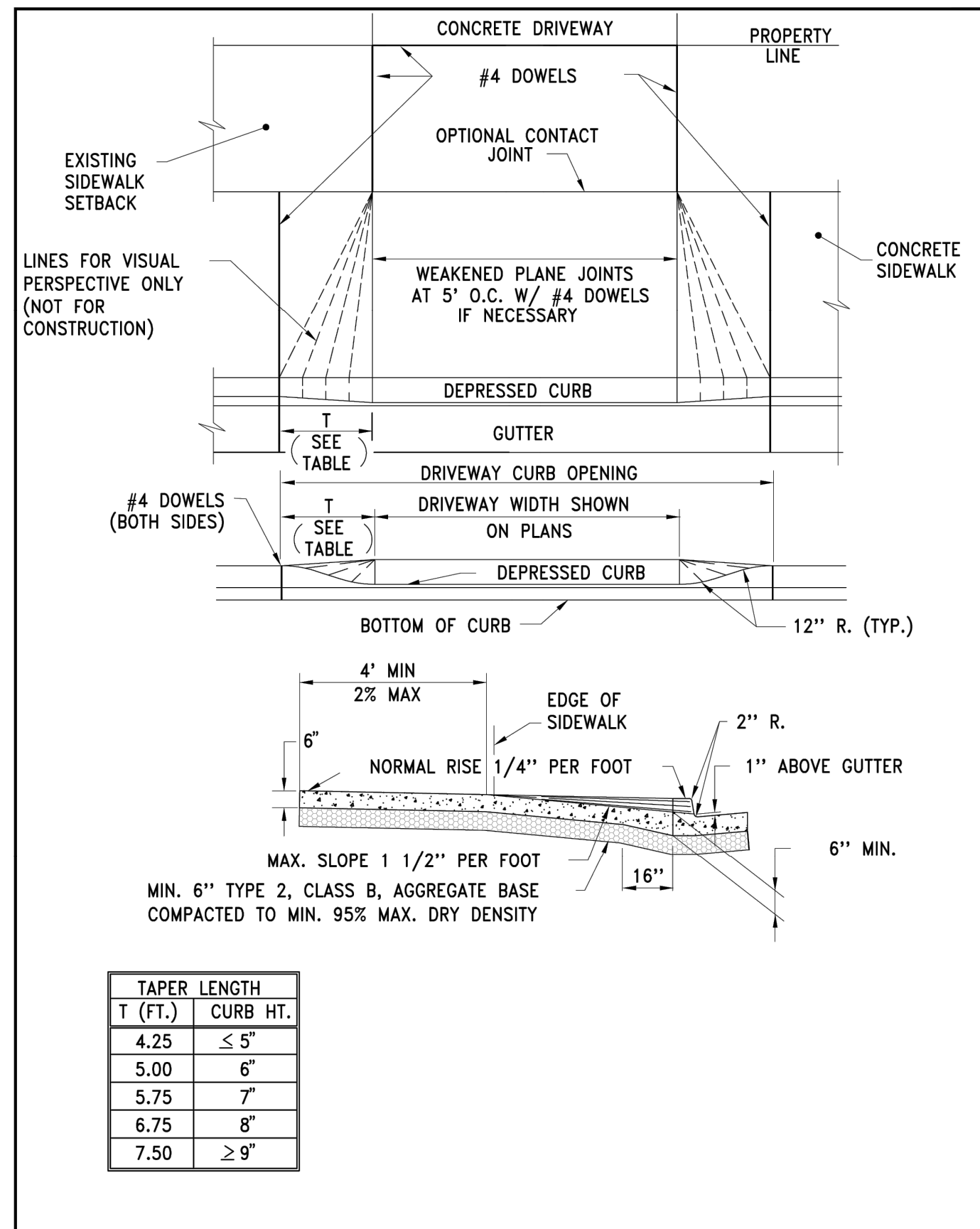
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DESIGNED BY: IPN
CHECKED BY: AJG
JOB NO.: 10415.002

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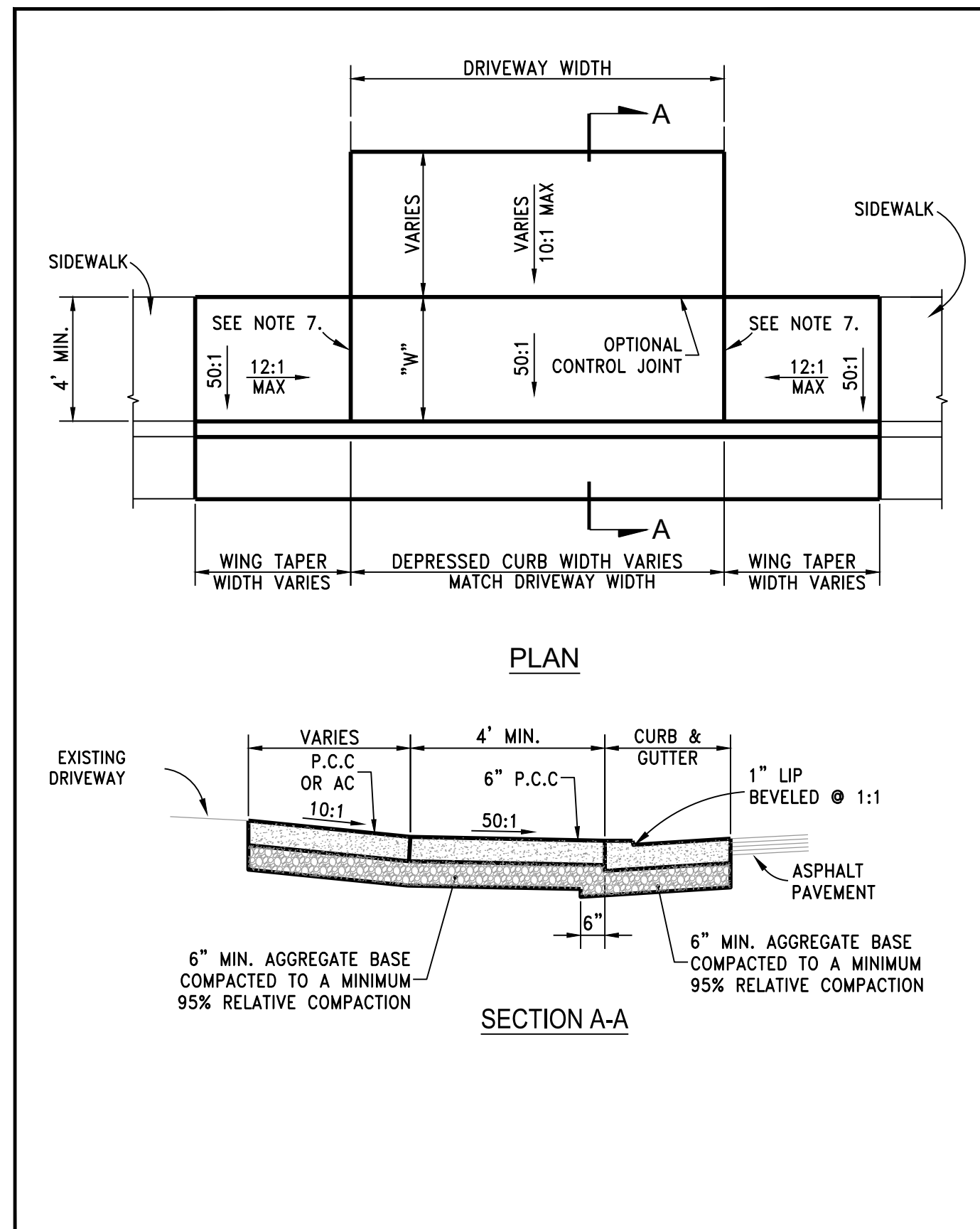


STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION

City of Sparks P.C.C. DRIVEWAY APRON-EXISTING

DRAWING No. S-111A

APPROVED BY: JE DATE: 1/2020



STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION

City of Sparks P.C.C. DRIVEWAY APRON

DRAWING No. S-111B

APPROVED BY: JE DATE: 1/2020

NOTES:

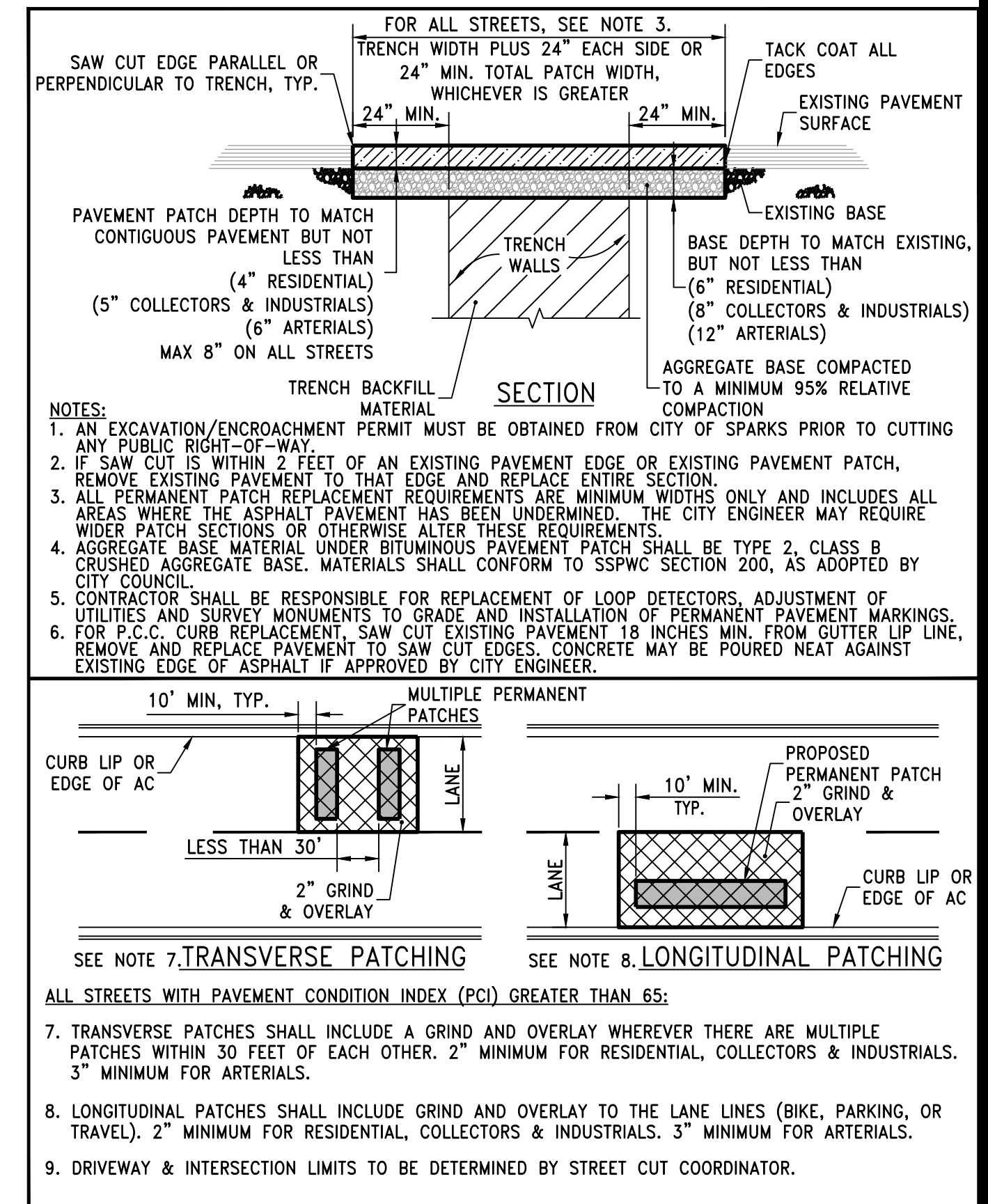
- PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH AT 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH MAX. WATER-CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES. MIX DESIGN SHALL CONFORM TO THE REQUIREMENTS OF SECTION 337 OF STANDARD SPECIFICATIONS OF PUBLIC WORKS CONSTRUCTION (SSPWC), AS ADOPTED BY CITY COUNCIL. CEMENT SHALL BE TYPE II. ALL CEMENT CONCRETE SHALL HAVE A COARSE AGGREGATE GRADATION CONFORMING TO SIZE No. 67. POLYPROPYLENE OR CELLULOSE FIBERS SHALL BE ADDED TO THE P.C.C. AT 1.5 LBS. PER CUBIC YARD. ALL MATERIALS SHALL CONFORM TO SSPWC, AS ADOPTED BY CITY COUNCIL.
- AGGREGATE BASE MATERIAL UNDER DRIVEWAYS AND SIDEWALKS SHALL BE TYPE 2, CLASS B CRUSHED AGGREGATE BASE. ALL MATERIALS SHALL CONFORM TO SSPWC SECTION 200, AS ADOPTED BY CITY COUNCIL.
- RESIDENTIAL DRIVEWAYS SHALL BE POURED SEPARATE FROM CURB AND GUTTER.
- COMMERCIAL DRIVEWAYS MAY BE POURED MONOLITHIC WITH CURB AND GUTTER. COMMERCIAL DRIVEWAYS TO HAVE #4 BARS AT 18" ON CENTER LONGITUDINAL & TRANSVERSE EXTENDING INTO GUTTER PAN AND DRIVEWAY WINGS. MINIMUM 2" CONCRETE COVER FOR ALL REINFORCING BARS. WHEN COMMERCIAL DRIVEWAY APPROACH AND CURB & GUTTER IS POURED SEPARATELY, IT SHALL BE REQUIRED FOR EACH REINFORCING BAR TO BE DOWELED INTO ADJACENT CURB & GUTTER. DOWELS SHALL #4 REBAR, PENETRATE INTO CURB & GUTTER MINIMUM OF 6", SPACED AT 18" ON CENTER AND BE SECURELY TIED TO THE DRIVEWAY APPROACH REINFORCING.
- IF JOINT EXISTS WITHIN 4 FEET OF DRIVEWAY, REMOVE SIDEWALK AND CURB AND GUTTER TO THAT JOINT.
- ALL ADJACENT CONCRETE REMOVAL SHALL BE TO NEAT SAW CUT LINES AT RIGHT ANGLES. DOWEL INTO EXISTING ADJACENT DRIVEWAY APPROACH OR SIDEWALK WITH (2) No. 4 REINFORCEMENT BARS EQUALLY SPACED ACROSS WIDTH "W". DOWELS SHALL PENETRATE A MINIMUM OF 4" INTO EXISTING CONCRETE.
- WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED AT 5 FT INTERVALS AND IN ACCORDANCE WITH SECTION 312 OF THE SSPWC, AS ADOPTED BY CITY COUNCIL.
- DETAIL S-111A SHALL NOT BE USED FOR NEW CONSTRUCTION UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION

City of Sparks NOTES - P.C.C. DRIVEWAY APRON

DRAWING No. S-111C

APPROVED BY: JE DATE: 1/2020

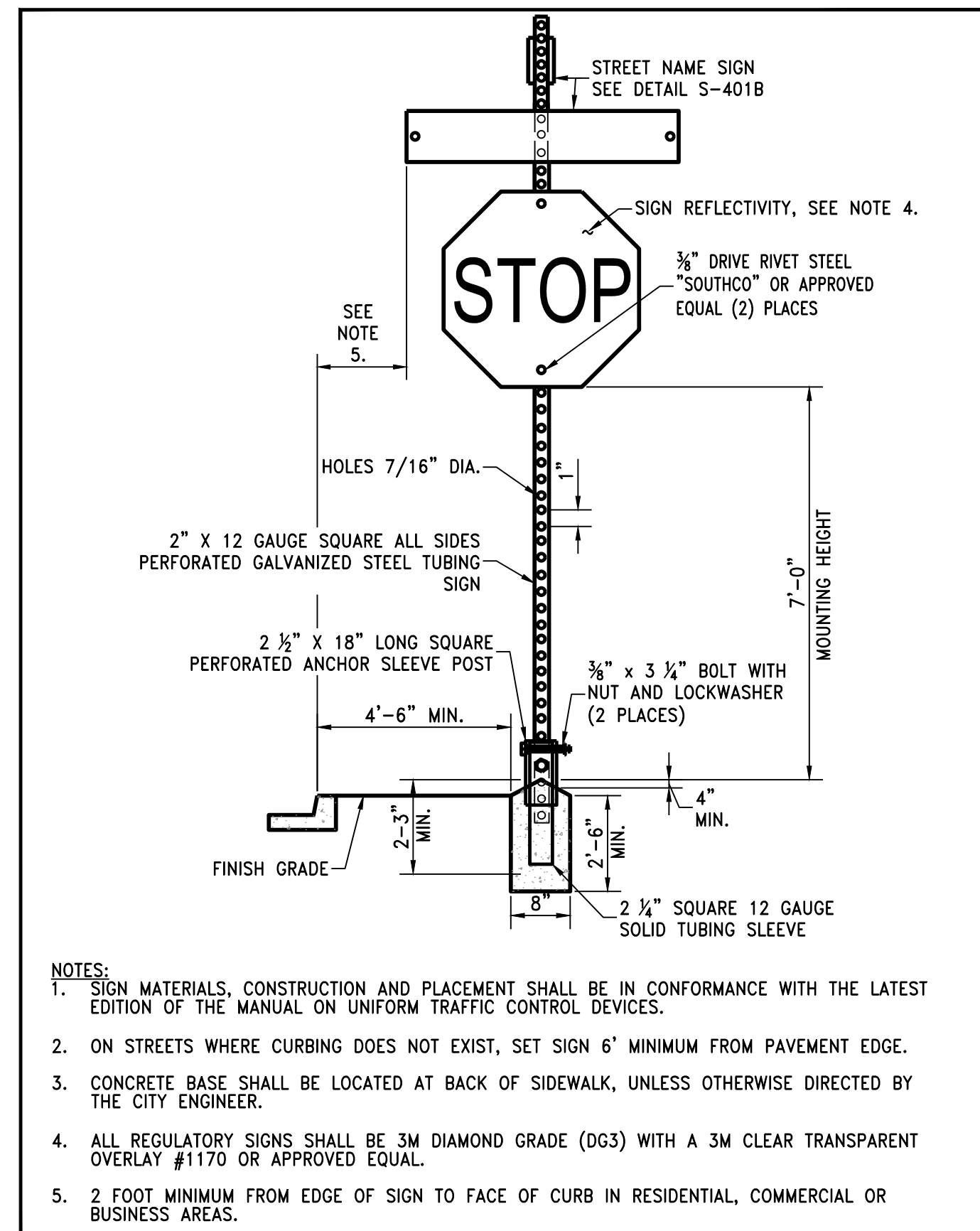


STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION

City of Sparks PERMANENT BITUMINOUS PAVEMENT PATCH

DRAWING No. S-115

APPROVED BY: JE DATE: 1/2020

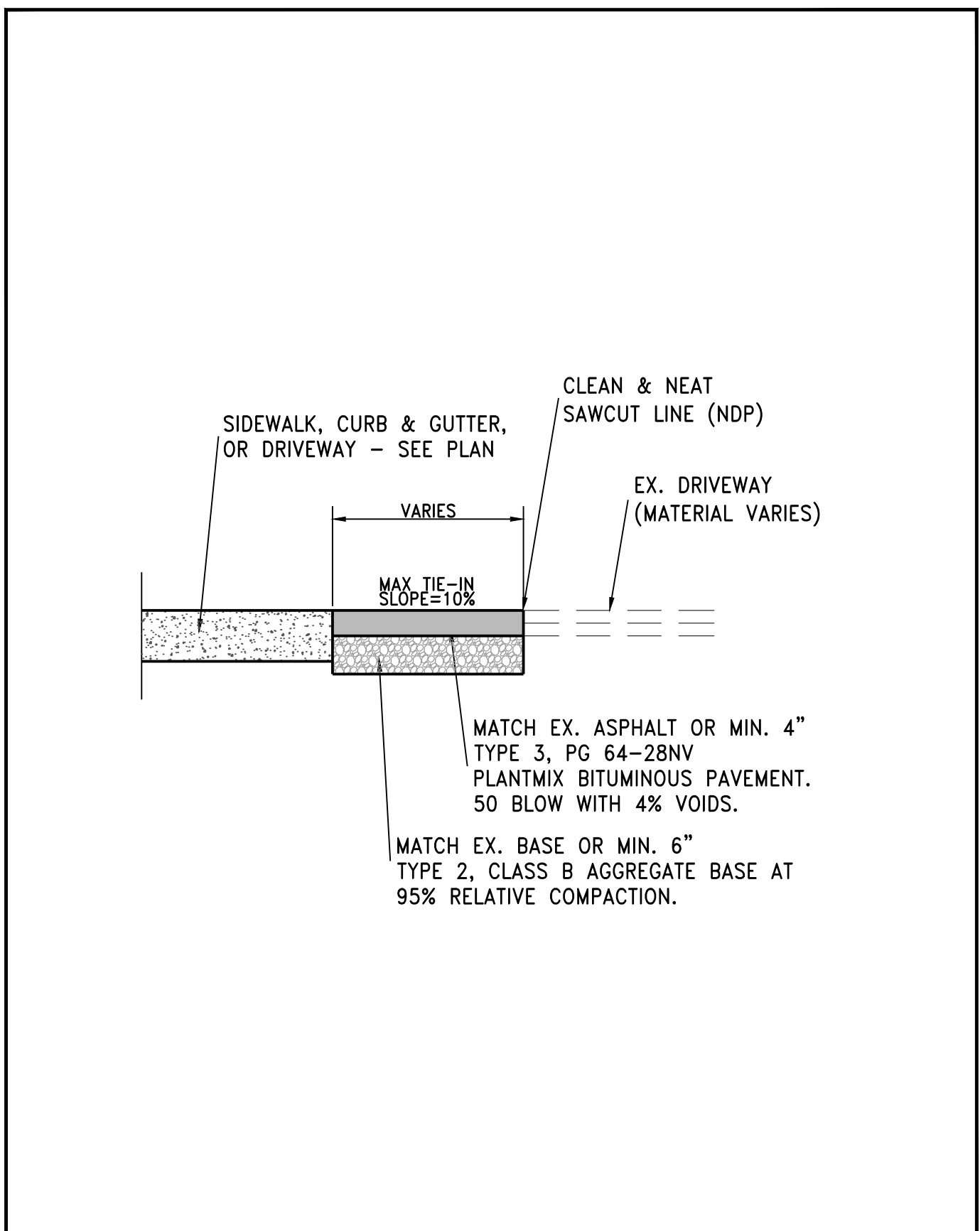


STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION

City of Sparks TRAFFIC SIGN INSTALLATION

DRAWING No. S-401A

APPROVED BY: JE DATE: 4/2021



CDBG PHASE 2

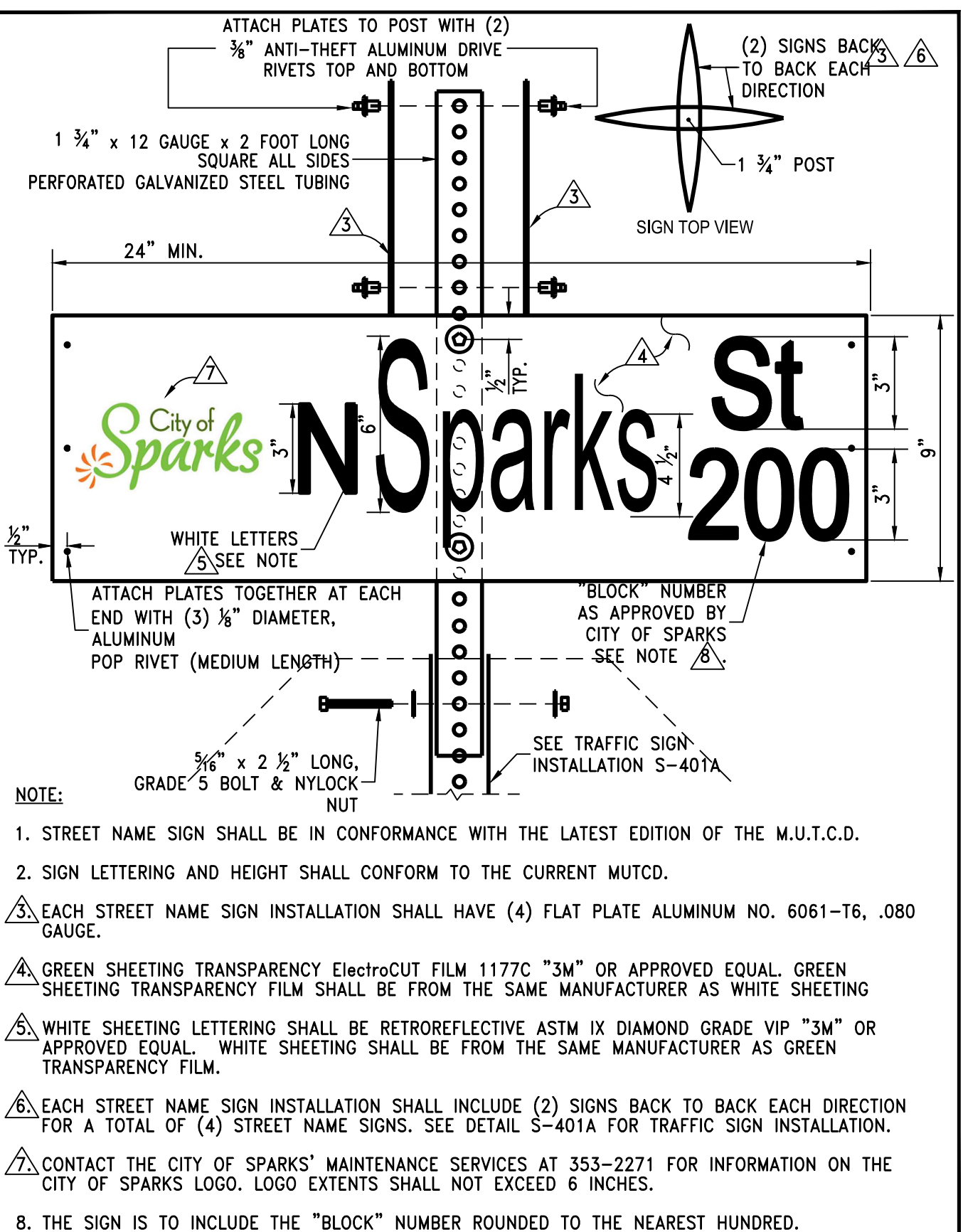
LUMOS & ASSOCIATES AC TRANSITION

DRAWING No. C-102

Date: JAN 2024

Scale: NTS

Job No: 10415.002

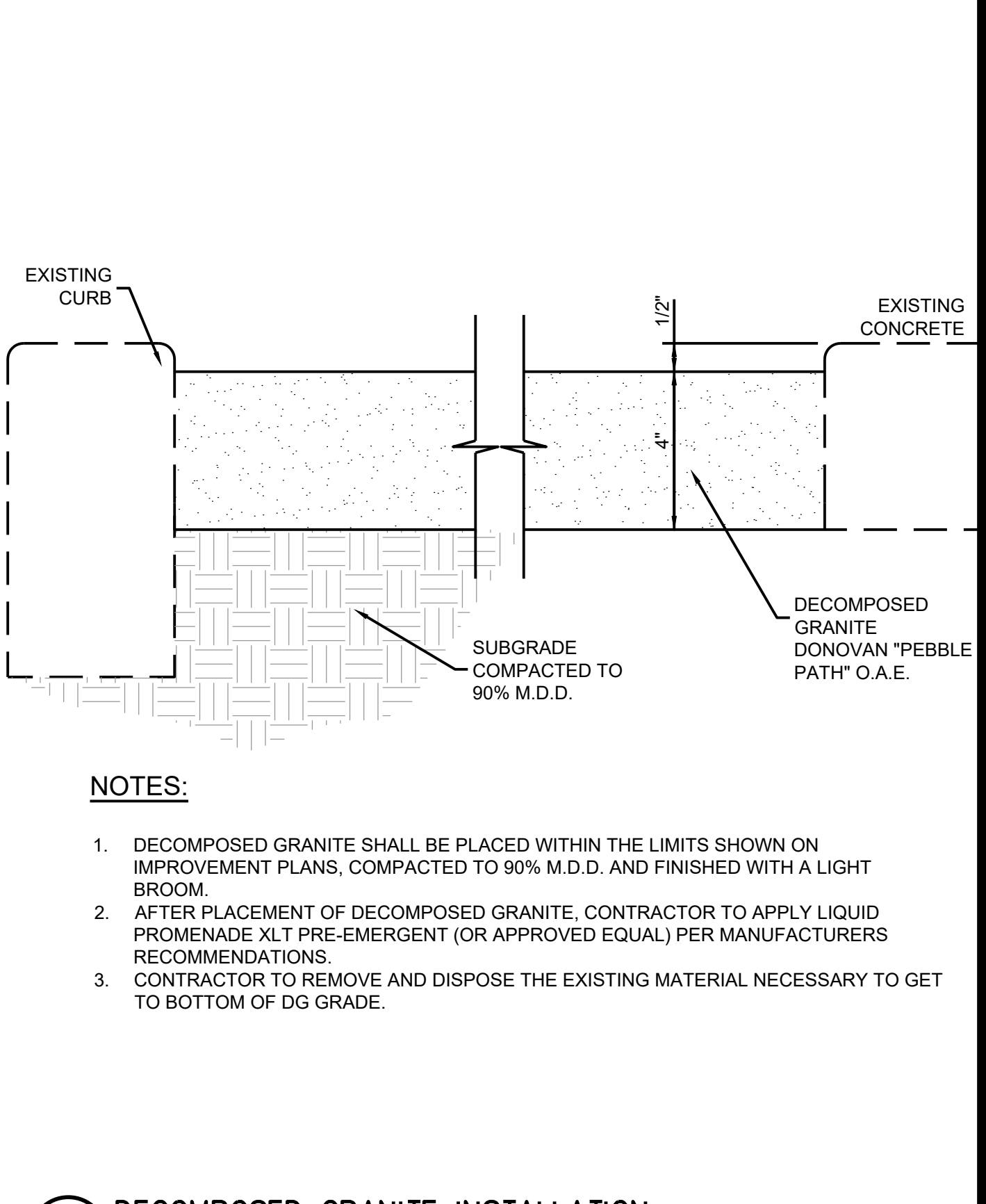


STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION

City of Sparks STREET NAME SIGN

DRAWING No. S-401B

APPROVED BY: JE DATE: 4/2021



STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION

City of Sparks DECOMPOSED GRANITE INSTALLATION

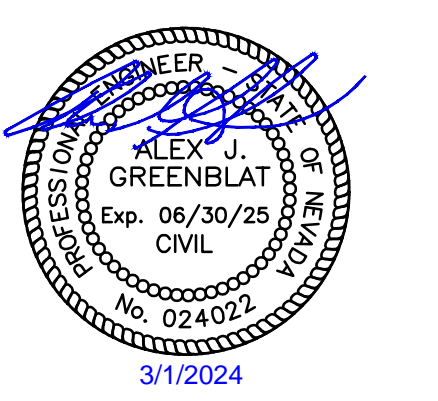
DRAWING No. S-401B

APPROVED BY: JE DATE: 4/2021



950 SANDHILL ROAD, SUITE 100
RENO, NV 89521
TEL: 775.827.6111

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CITY OF SPARKS
CDBG PHASE 2
E STREET, F STREET, & 12TH STREET
DETAILS
WASHOE
SPARKS
NEVADA

100% SUBMITTAL
NOT FOR CONSTRUCTION
MARCH 1, 2024

REV	DATE	DESCRIPTION

BAR IS 1 INCH ON ORIGINAL DRAWING

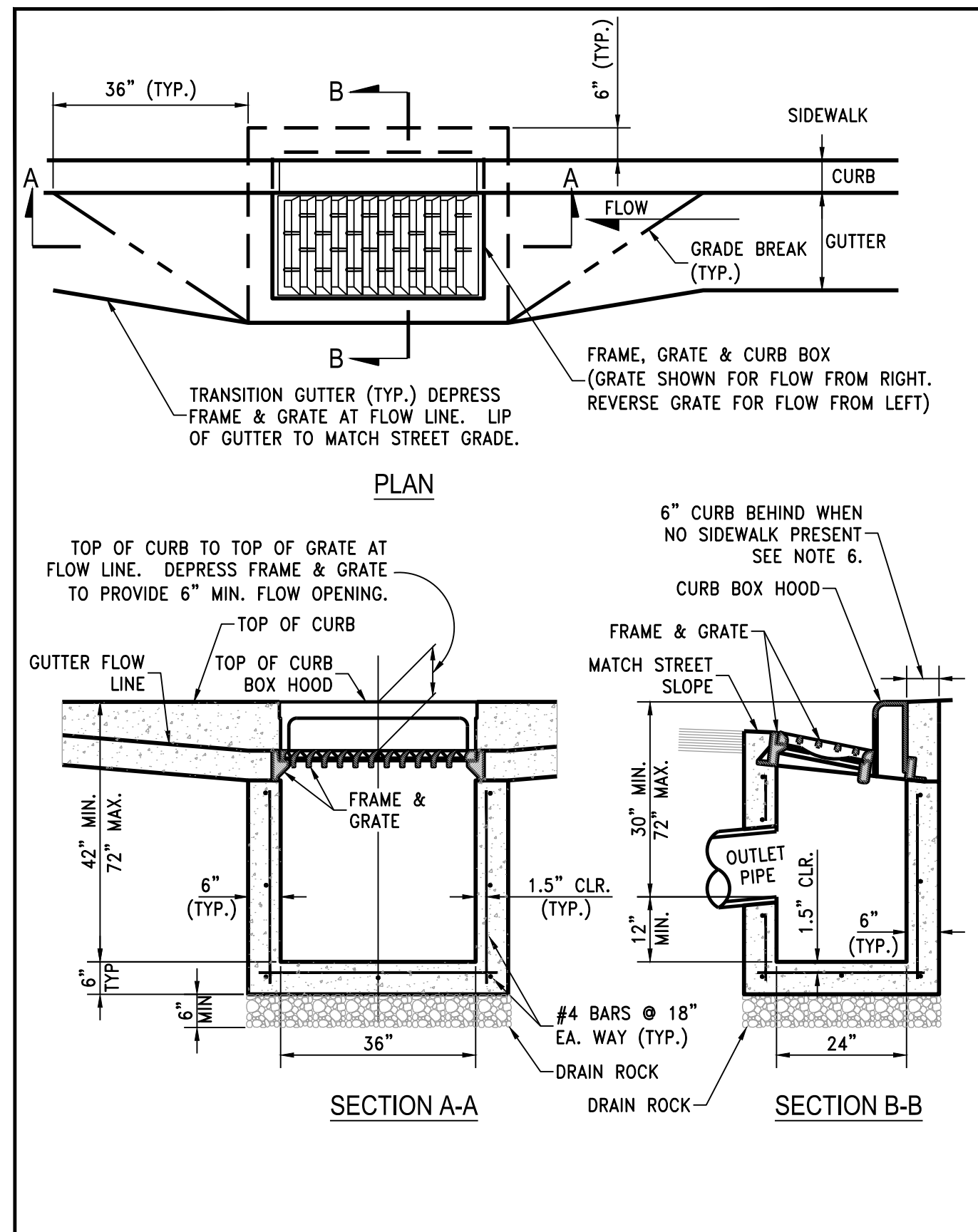
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C4.1

DRAWN BY: IPN
DESIGNED BY: IPN
CHECKED BY: AJG
JOB NO.: 10415.002

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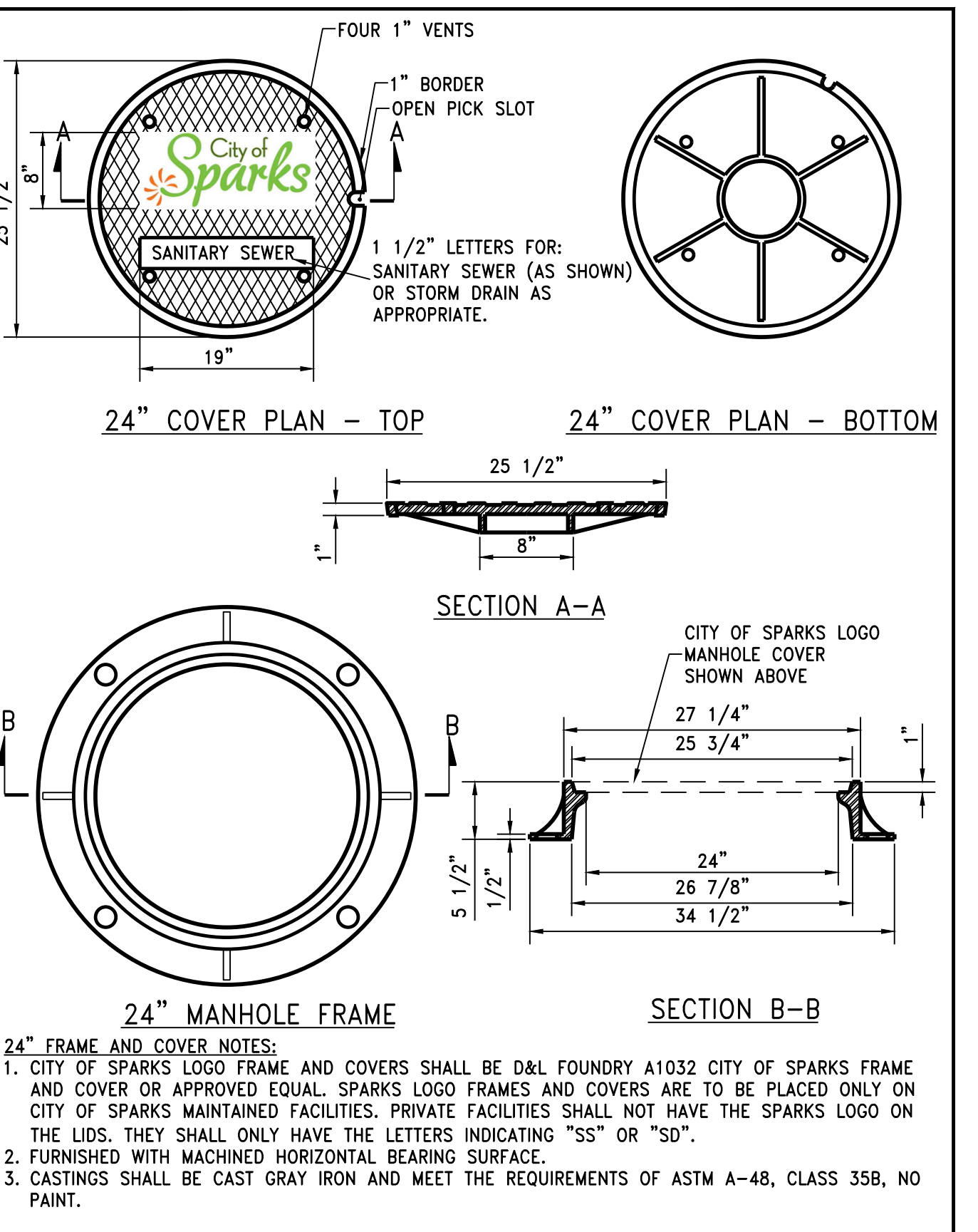


STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.
CATCH BASIN TYPE 4-R	S-204A
APPROVED BY: JE DATE: 1/2020	

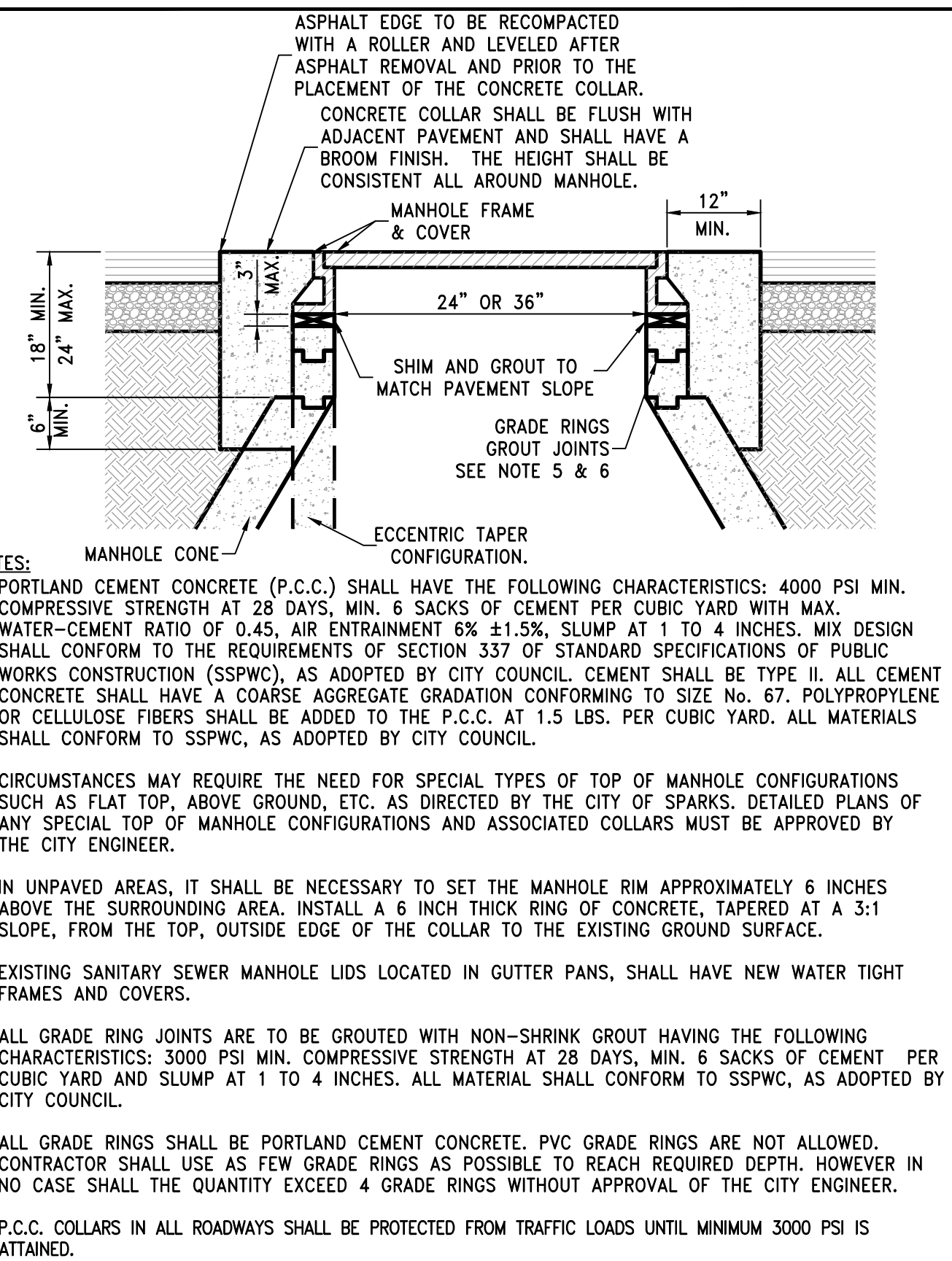
NOTES:

- P.C.C. CURB AND GUTTER TRANSITION SHALL BE PORTLAND CEMENT CONCRETE (P.C.C.) AND SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH AT 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH MAX. WATER-CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES. MIX DESIGN SHALL CONFORM TO THE REQUIREMENTS OF SECTION 337 OF STANDARD SPECIFICATIONS OF PUBLIC WORKS CONSTRUCTION (SSPWC), AS ADOPTED BY CITY COUNCIL. CEMENT SHALL BE TYPE II. ALL CEMENT CONCRETE SHALL HAVE A COARSE AGGREGATE GRADATION CONFORMING TO SIZE NO. 67. POLYPROPYLENE OR CELLULOSE FIBERS SHALL BE ADDED TO THE P.C.C. AT 1.5 LBS. PER CUBIC YARD. ALL MATERIALS SHALL CONFORM TO SSPWC, AS ADOPTED BY CITY COUNCIL.
- REINFORCING STEEL SHALL BE GRADE 40 AND HAVE 1.5" MINIMUM CLEAR COVER.
- CONCRETE STRUCTURE MAY BE A CAST-IN-PLACE CONCRETE UNIT UPON APPROVAL OF THE CITY ENGINEER. BASE OF CAST-IN-PLACE CONCRETE UNIT SHALL BE PLACED ON 6" COMPACTED DRAIN ROCK.
- FRAME, GRATE AND CURB BOX HOOD ASSEMBLY SHALL BE D&L I-3519 WITH TYPE L "VANE GRATE" OR APPROVED EQUAL. GRATE SHALL BE INSTALLED WITH PROPER FLOW DIRECTION. EACH CATCH BASIN SHALL BE CAST WITH A FISH IMAGE AND THE WORDS "NO DUMPING! DRAINS TO RIVERS" IN THE TOP OF EACH CURB HOOD.
- TILT FRAME & GRATE AS REQUIRED TO ATTAIN 6" MIN. FLOW OPENING & INSTALL DURABLE SHIMS BETWEEN THE CURB BOX & FRAME AS REQUIRED TO MATCH CURB BOX TO TOP OF CURB AND FACE OF CURB (SEE SECTION B-B).
- WHEN SIDEWALK IS PRESENT CONCRETE BEHIND CURB BOX SHALL BE THICKENED TO THE FULL DEPTH OF THE CURB BOX. IF NO SIDEWALK IS PRESENT, POUR 6" CONCRETE CURB STRUCTURE BEHIND GRATE AND TIE BEAM INTO BOX.
- ALL CATCH BASINS, PUBLIC OR PRIVATE, SHALL BE PROVIDED WITH A "SUR-TRAP" OIL/WATER SEPARATOR OR APPROVED EQUAL.
- FRAMES AND GRATES SHALL BE MATCHED TO ACHIEVE A CLOSE TOLERANCE FIT WITH MINIMAL GAPS.
- CATCH BASIN SHALL NOT BE PLACED WITHIN THE RADIUS OF THE CURB UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

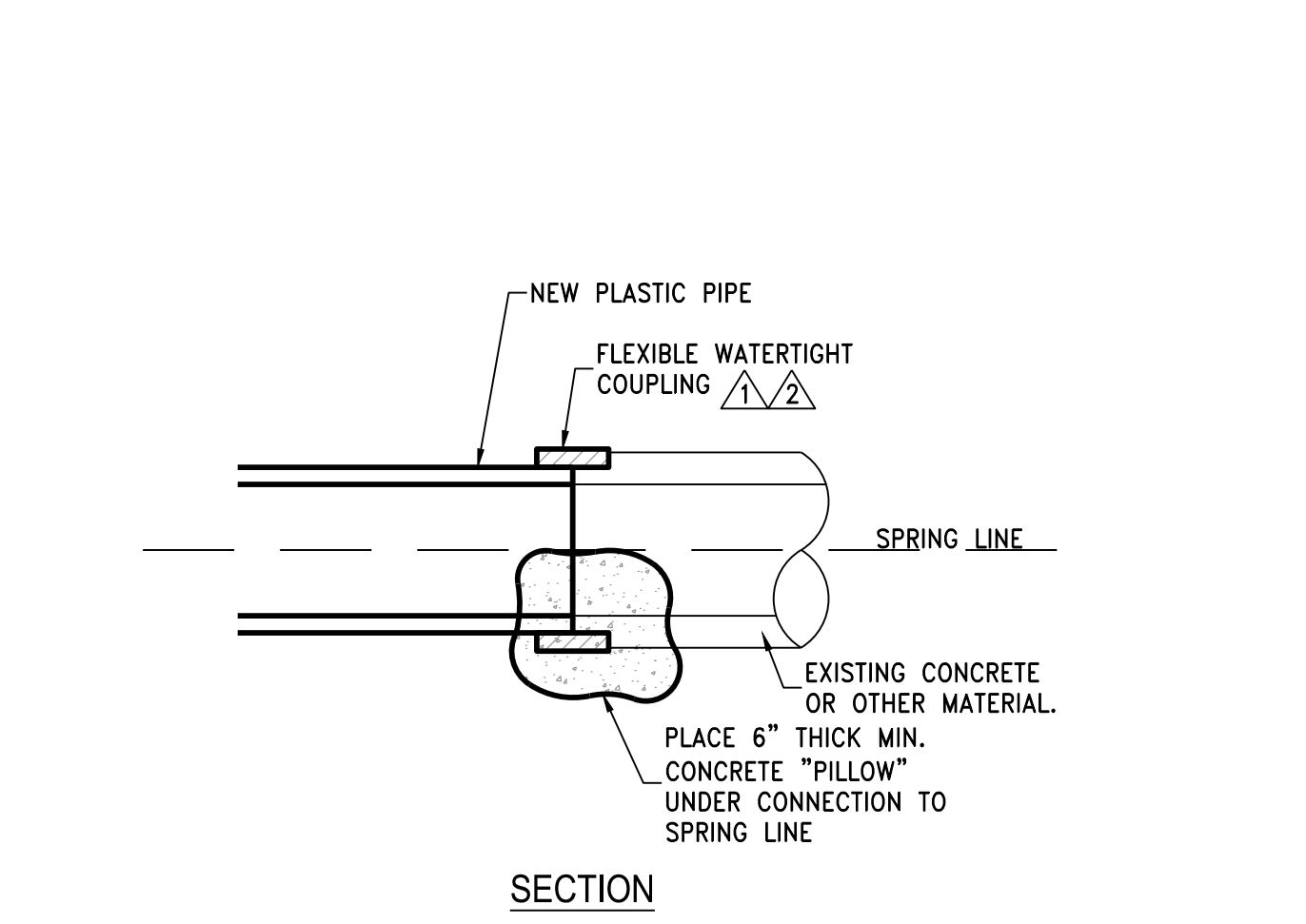
STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.
NOTES - CATCH BASIN TYPE 4-R	S-204B
APPROVED BY: JE DATE: 1/2020	



STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.
24" MANHOLE FRAME & COVER	S-209A
APPROVED BY: JE DATE: 2/2020	



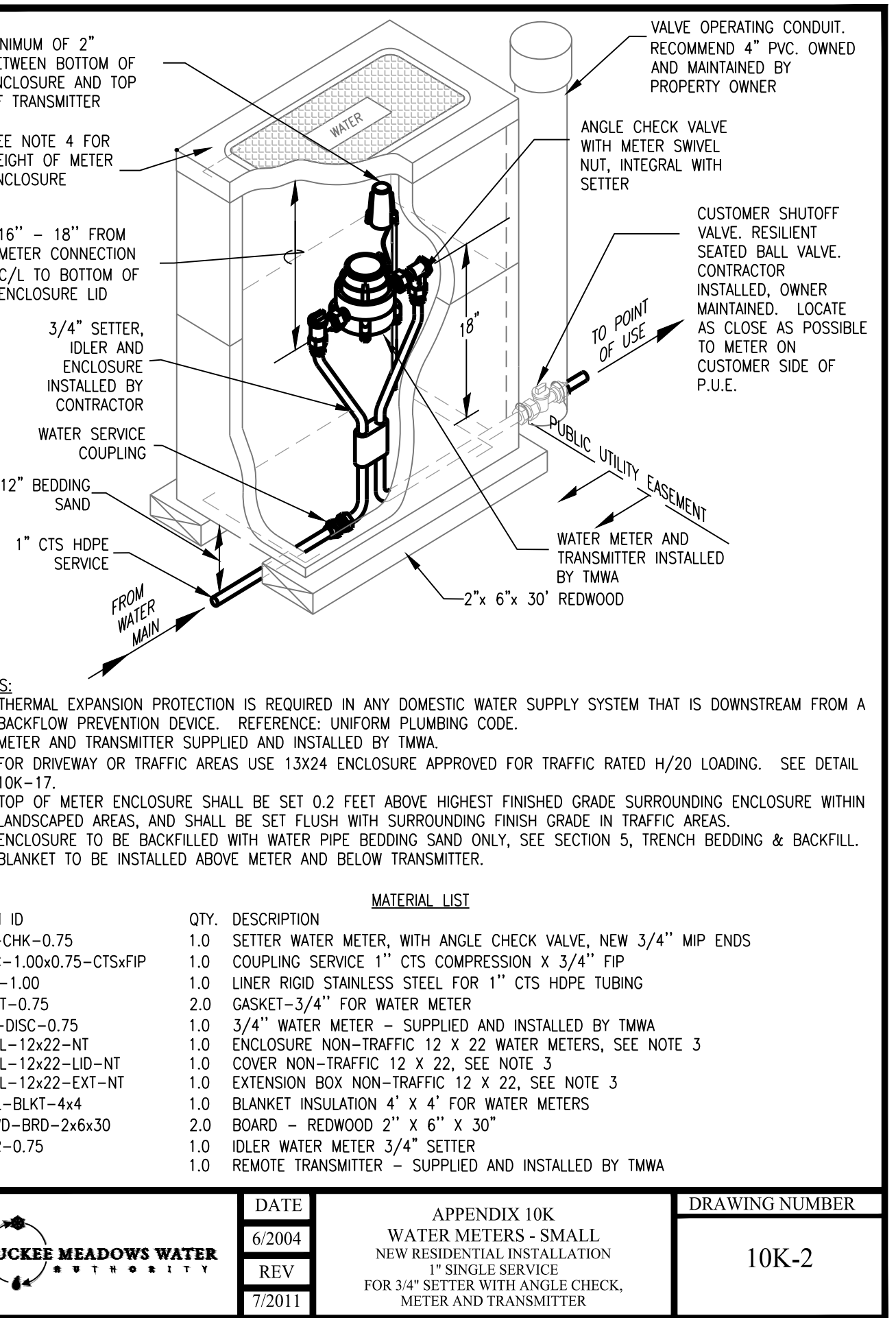
STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.
MANHOLE COLLAR	S-210A
APPROVED BY: JE DATE: 1/2020	



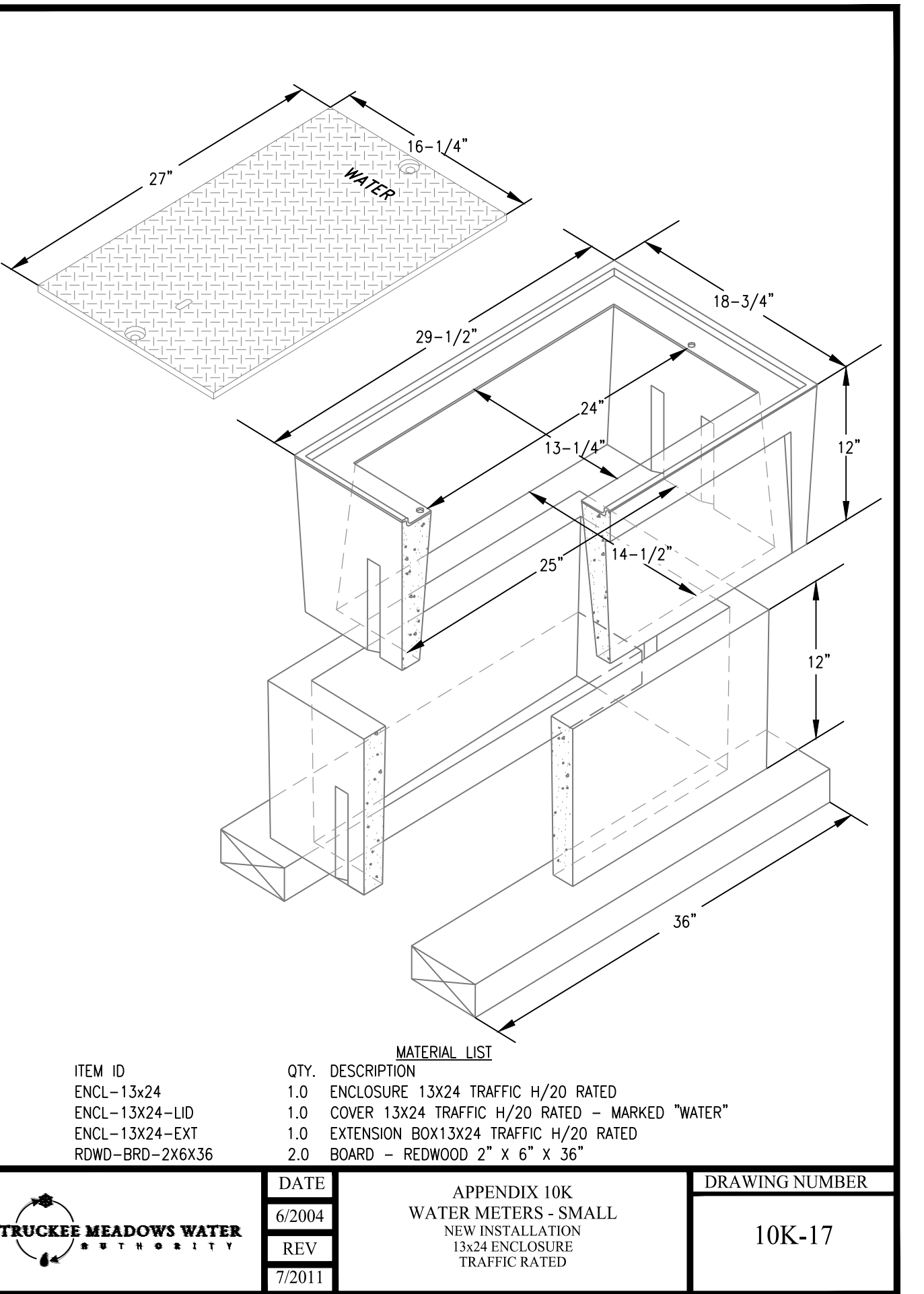
NOTES:

- RC5000 STRONG BACK COUPLING OR APPROVED EQUAL SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS.
- CONTRACTOR TO VERIFY OUTSIDE DIAMETER OF EXISTING PIPE AND PROVIDE PROPER FLEXIBLE WATERTIGHT COUPLINGS. IF CIPP IS ENCOUNTERED, EPOXY LINER AT END OF PIPE.

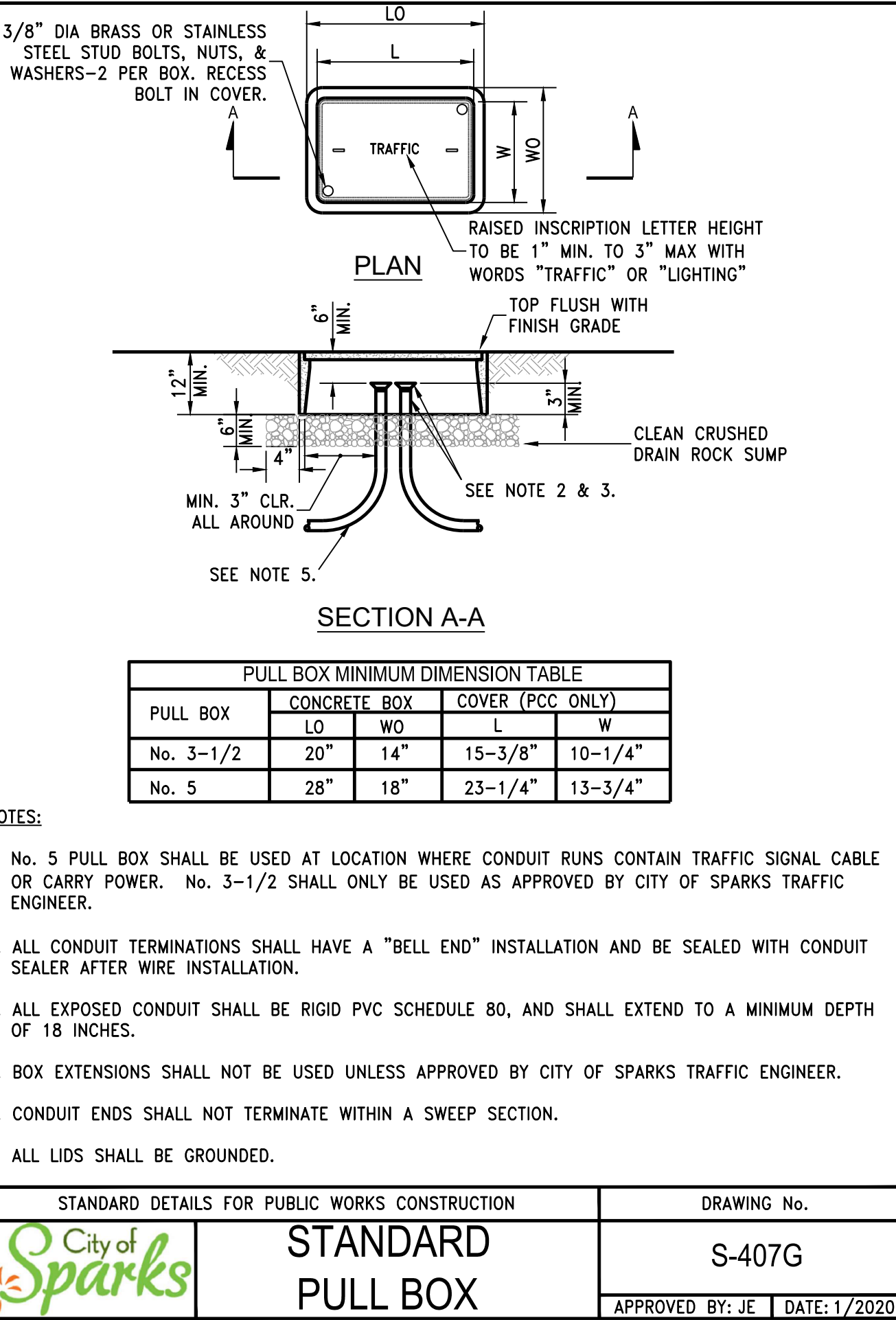
DATE	APPENDIX 10K WATER METERS - SMALL NEW RESIDENTIAL INSTALLATION 1" SINGLE SERVICE FOR 3/4" SETTER WITH ANGLE CHECK, METER AND TRANSMITTER	DRAWING NUMBER
6/2004		10K-2
REV		
7/2011		



DATE	APPENDIX 10K WATER METERS - SMALL NEW RESIDENTIAL INSTALLATION 1" SINGLE SERVICE FOR 3/4" SETTER WITH ANGLE CHECK, METER AND TRANSMITTER	DRAWING NUMBER
6/2004		10K-2
REV		
7/2011		



DATE	APPENDIX 10K WATER METERS - SMALL NEW INSTALLATION 1 1/2" ENCLOSURE TRAFFIC RATED	DRAWING NUMBER
6/2004		10K-17
REV		
7/2011		



STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.
STANDARD PULL BOX	S-407G
APPROVED BY: JE DATE: 1/2020	

LUMOS & ASSOCIATES

950 SANDHILL ROAD, SUITE 100
RENO, NV 89521
TEL: 775.827.6111

WWW.LUMOSINC.COM
INFO@LUMOSINC.COM

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ALEX J. GREENBLAT
Exp. 06/30/25
CIVIL
No. 024022
3/1/2024

CITY OF SPARKS
CDBG PHASE 2
E STREET, F STREET, & 12TH STREET
DETAILS
SPARKS
NEVADA
WASHOE

BY

DESCRIPTION

REV DATE

100% SUBMITTAL
NOT FOR CONSTRUCTION
MARCH 1, 2024

BAR IS 1 INCH ON ORIGINAL DRAWING

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

C4.2

DRAWN BY: IPN
DESIGNED BY: IPN
CHECKED BY: AJG
JOB NO.: 10415.002