

SWPPP BEST MANAGEMENT PRACTICES GENERAL NOTES:

- FOLLOWING ARE GENERAL NOTES. THE CONTRACTOR SHALL REVIEW ALL APPLICABLE CODES AND REGULATIONS AND IMPLEMENT CONSTRUCTION SITE MONITORING PROGRAM AS NECESSARY TO MEET REGULATIONS.
- BEST MANAGEMENT PRACTICES (BMPs) CONTAINED HEREIN REFLECT MINIMUM REQUIREMENTS. ALTERNATE METHODS PROVIDING EQUAL OR GREATER PROTECTION MAY BE UTILIZED, FOR ADDITIONAL BMPs REFER TO CALIFORNIA STORMWATER BMP HANDBOOKS.
 - ALL CONSTRUCTION SHALL CONFORM TO THIS PLAN AND IMPLEMENTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT, THE STATE'S GENERAL PERMIT, AND LOCAL STORMWATER MANAGEMENT PROGRAMS. CONTRACTOR SHALL OBTAIN A COPY OF THESE PROGRAMS FOR HIS OWN USE.
 - THE CONTRACTOR MUST IMPLEMENT AN EFFECTIVE COMBINATION OF EROSION AND SEDIMENT CONTROL ON ALL DISTURBED AREAS PER THE BMP HANDBOOK.
 - NON-STORMWATER DISCHARGES SHALL BE PROHIBITED FROM ENTERING ANY STORM DRAIN SYSTEM AND THE EXISTING STREET.
 - NON-STORMWATER MANAGEMENT CONTROLS AND WASTE MANAGEMENT CONTROLS SHALL BE PROPERLY IMPLEMENTED AS NECESSARY TO COMPLY WITH ALL APPLICABLE CODES.
 - SEDIMENT CONTROL PRACTICES SHALL EFFECTIVELY PREVENT A NET INCREASE OF SEDIMENT LOAD IN STORMWATER DISCHARGE.
 - ALL CONTROL DEVICES SHALL BE INSPECTED FOR PROPER INSTALLATION PRIOR TO QUALIFYING RAIN EVENTS AS OUTLINED IN THE GENERAL ORDER.
 - A STANDBY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES. NECESSARY MATERIALS SHALL BE AVAILABLE ON-SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES OR DAMAGED EROSION CONTROL MEASURES OR SEDIMENT CONTROL MEASURES WHEN RAIN IS IMMINENT.
 - AFTER A RAINSTORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM CHECK BERMS, DAMAGED DURING A RAINSTORM SHALL BE IMMEDIATELY REPAIRED.
 - POLLUTANTS SHALL BE REMOVED FROM STORMWATER DISCHARGES TO THE MAXIMUM EXTENT PRACTICABLE (MEP) THROUGH DESIGN AND IMPLEMENTATION OF THIS PLAN.
 - PORTABLE SANITARY FACILITIES SHALL BE LOCATED ON RELATIVELY LEVEL GROUND AWAY FROM TRAFFIC AREAS, DRAINAGE COURSES AND STORM DRAIN INLETS.
 - EMPLOYEES, SUBCONTRACTORS AND SUPPLIERS SHALL BE EDUCATED BY THE DEVELOPER OR HIS GENERAL CONTRACTOR ON ALL BEST MANAGEMENT PRACTICES (BMPs) INCLUDING CONCRETE WASTE STORAGE AND DISPOSAL PROCEDURES.
 - THE CONTRACTOR SHALL PREVENT A DUST NUISANCE FROM ORIGINATING FROM THE SITE OF WORK AS A RESULT OF HIS OPERATIONS DURING THE EFFECTIVE PERIOD OF THIS PROJECT. DUST AND PM10 EMISSIONS SHALL BE TAKEN BY THE CONTRACTOR TO MITIGATE THE IMPACT OF CONTROL DISTRICT REGULATION VII (B). THE CONTRACTOR SHALL OBTAIN A COPY OF THE REGULATION FOR HIS USE.

DUST CONTROL BEST MANAGEMENT PRACTICES:

- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT (SJVAPCD) AND PROVIDE WRITTEN NOTIFICATION TO THE SVJAPCD VIA FAX OR EMAIL WITHIN 10 DAYS PRIOR TO THE COMMENCEMENT OF EARTHWORK ACTIVITIES (AFTER THE PLAN HAS BEEN APPROVED BY SVJAPCD).
- THE CONTRACTOR SHALL PREVENT A DUST NUISANCE FROM ORIGINATING FROM THE SITE OF WORK AS A RESULT OF HIS OPERATIONS DURING THE EFFECTIVE PERIOD OF THIS PROJECT. DUST AND PM10 EMISSIONS SHALL BE TAKEN BY THE CONTRACTOR TO MITIGATE THE IMPACT OF CONTROL DISTRICT REGULATION VII (B). THE CONTRACTOR SHALL OBTAIN A COPY OF THE REGULATION FOR HIS USE. THESE MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
 - PRE-WATER SITE SUFFICIENT TO LIMIT VISIBLE DUST EMISSIONS (VDE) TO 20% OPACITY.
 - PHASE WORK TO REDUCE THE AMOUNT OF DISTURBED SURFACE AREA AT ANY ONE TIME.
- DURING ACTIVE OPERATIONS:
 - APPLY WATER OR OTHER APPROVED SUBSTANCE SUFFICIENT TO LIMIT VDE TO 20% OPACITY.
 - LIMIT ACTIVITY TO PERIODS OF LOW OR NO WIND, OR CONSTRUCT AND MAINTAIN WIND BARRIERS SUFFICIENT TO LIMIT VDE TO 20% OPACITY.
 - APPLY WATER OR OTHER APPROVED SUBSTANCE TO UNPAVED HAUL/ACCESS ROADS AND UNPAVED VEHICLE/EQUIPMENT TRAFFIC AREAS SUFFICIENT TO LIMIT VDE TO 20% OPACITY AND MEET THE CONDITIONS OF A STABILIZED UNPAVED ROAD SURFACE.
- TEMPORARY STABILIZATION DURING PERIODS OF INACTIVITY:
 - RESTRICT VEHICULAR ACCESS TO THE AREA.
 - APPLY WATER OR OTHER APPROVED SUBSTANCE SUFFICIENT TO COMPLY WITH THE CONDITIONS OF A STABILIZED SURFACE. IF ANY AREA HAVING 0.5 ACRES OR MORE OF DISTURBED SURFACE AREA REMAINS UNUSED FOR SEVEN OR MORE DAYS, THE AREA MUST COMPLY WITH THE CONDITIONS FOR A STABILIZED SURFACE AREA AS DEFINED IN RULE 8011.
 - CARRYOUT AND TRACKOUT ON PUBLIC ROADS:
 - ALL VISIBLE CARRYOUT AND TRACKOUT WITHIN 50 FEET OF THE SITE SHALL BE REMOVED AT THE END OF EACH WORKDAY. TRACKOUT BEYOND 50 FEET OR THE SITE SHALL BE REMOVED IMMEDIATELY.
 - CLEANUP SHALL BE ACCOMPLISHED BY MANUAL SWEEPING OR APPROVED EQUIPMENT AND METHOD AS SPECIFIED BY THE SVJAPCD.
 - THE USE OF BLOWER DEVICES OR DRY ROTARY BRUSHES OR BROOMS, FOR REMOVAL OF CARRYOUT AND TRACKOUT ON PUBLIC ROADS IS EXPRESSLY PROHIBITED.
 - ANY PERMITS REQUIRED FOR MUD AND DIRT CLEANUP SHALL BE OBTAINED BY THE CONTRACTOR.

PROJECT STATISTICS

- PROPERTY LOCATION: SOUTHWEST CORNER OF CITADEL STREET AND MARDI GRAS COURT IN THE CITY OF BAKERSFIELD, COUNTY OF KERN, STATE OF CALIFORNIA SECTION 5 T.30S. R.28E.
- LEGALLY RESPONSIBLE PERSON: BAKERSFIELD CITY SCHOOL DISTRICT
1501 FELIZ DRIVE
BAKERSFIELD, CA 93307
PHONE (661) 631-5883 FAX (661) 631-4501
CONTACT PERSON: RANDY ROWLES
- QUALIFIED SWPPP PRACTITIONER: (RESPONSIBLE FOR SWPPP IMPLEMENTATION)
- QUALIFIED SWPPP DEVELOPER: FRED W. PORTER II
(RESPONSIBLE FOR SWPPP PREPARATION)
PORTER & ASSOCIATES, INC.
1200 21st STREET
BAKERSFIELD, CA 93301
(661) 327-0362
- PROJECT TYPE: PUBLIC STREET AND PROPOSED SCHOOL CONSTRUCTION EARTHWORK
- DISTURBED AREA: 25.75 GROSS ACRES
- AVERAGE DAILY EARTHWORK THROUGHPUT: 5,000 CY (APPROXIMATELY) BASED ON 20 DAYS OF ROUGH GRADING APPROX 1,000 CY THEREAFTER FOR FINE GRADING, UNDERGROUND CONSTRUCTION, ETC.

NOTE:
CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION FENCING AROUND PERIMETER OF SITE TO RESTRICT UNAUTHORIZED VEHICLE ACCESS.

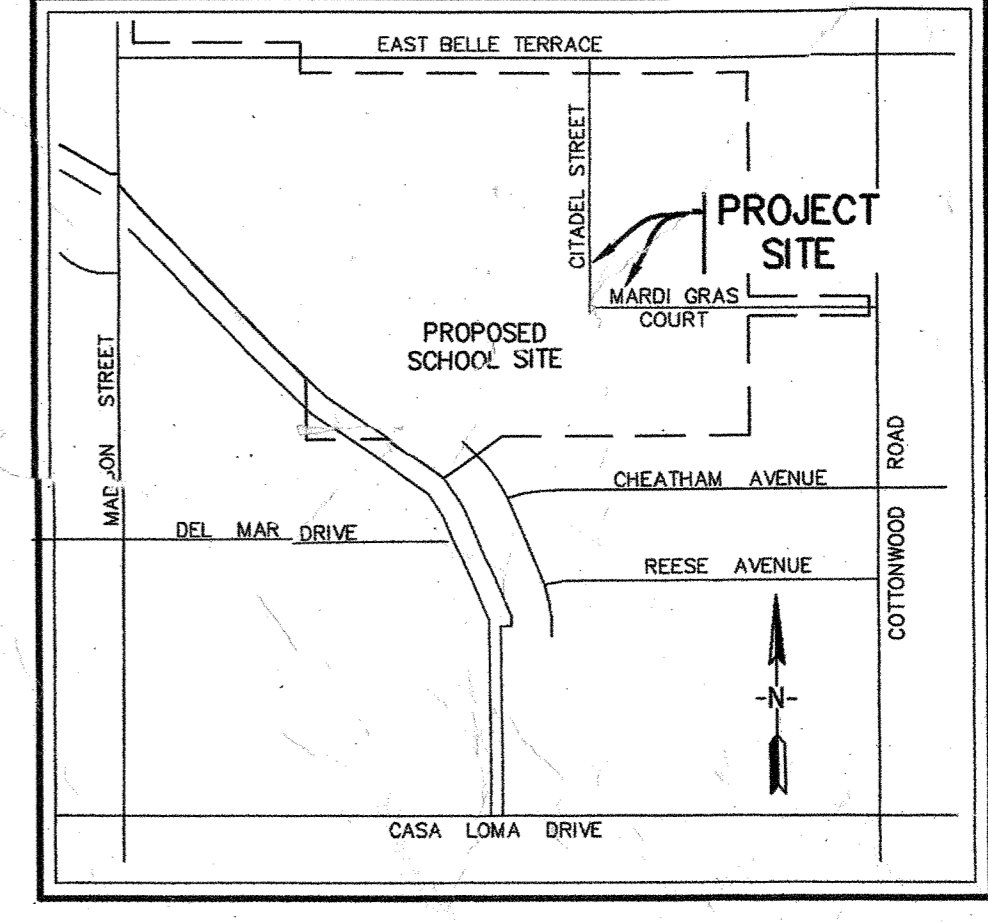
SWPPP NOTES

- INSTALL 20' x 40' GRAVEL ENTRY/EXIT PER BMP TC-1
- INSTALL 15 MPH SPEED LIMIT SIGN
- INSTALL STORM DRAIN INLET PROTECTION PER BMP SE-10
- INSTALL STOCKPILE MANAGEMENT PER BMP WM-3
- INSTALL FIBER ROLLS PER BMP SE-5 OR SILT FENCE PER BMP SE-1 ALONG BOUNDARIES AS SHOWN FOR PERIMETER CONTROL
- INSTALL CONCRETE WASHOUT PER BMP WM-8
- INSTALL GRAVEL BAGS IN CURB & GUTTER AT PROJECT AND PHASE LIMITS PER BMP SE-6
- INSTALL NON-STORMWATER BMP'S AS REQUIRED PER BMP NS-8, NS-9, & NS-10
- INSTALL MATERIAL MANAGEMENT BMP'S AS REQUIRED FOR PER BMP WM-1, WM-2, & WM-5
- INSTALL SANITARY SEPTIC WASTE MANAGEMENT PER BMP WM-9

CALIFORNIA STORMWATER BMP HANDBOOK

THE FOLLOWING CALIFORNIA STORMWATER CONSTRUCTION BMP'S SHALL BE CONSIDERED A PART OF THESE PLANS AND MAY APPLY DURING THE CONSTRUCTION OF THIS PROJECT. CONTRACTOR AND QSP SHALL IMPLEMENT ADDITIONAL BMP'S AS REQUIRED DURING CONSTRUCTION.

BMP NO.	DESCRIPTION	BMP NO.	DESCRIPTION
<input checked="" type="checkbox"/> EC-1	SCHEDULING	<input checked="" type="checkbox"/> TC-2	STABILIZED CONSTRUCTION ROADWAY
<input checked="" type="checkbox"/> EC-2	PRESERVATION OF EXISTING VEGETATION	<input checked="" type="checkbox"/> TC-3	ENTRANCE/OUTLET TIRE WASH
<input checked="" type="checkbox"/> EC-4	HYDROSEEDING	<input checked="" type="checkbox"/> NS-1	WATER CONSERVATION PRACTICES
<input checked="" type="checkbox"/> EC-5	SOIL BINDERS	<input checked="" type="checkbox"/> NS-8	VEHICLE AND EQUIPMENT CLEANING
<input checked="" type="checkbox"/> EC-9	EARTH DIKES AND DRAINAGE SWALES	<input checked="" type="checkbox"/> NS-9	VEHICLE AND EQUIPMENT FUELING
<input checked="" type="checkbox"/> EC-16	NON-VEGETATIVE STABILIZATION	<input checked="" type="checkbox"/> NS-10	VEHICLE AND EQUIPMENT MAINTENANCE
<input checked="" type="checkbox"/> SE-1	SILT FENCE	<input checked="" type="checkbox"/> NS-12	CONCRETE CURING
<input checked="" type="checkbox"/> SE-2	SEDIMENT BASIN	<input checked="" type="checkbox"/> NS-13	CONCRETE FINISHING
<input checked="" type="checkbox"/> SE-3	SEDIMENT TRAP	<input checked="" type="checkbox"/> NS-14	MATERIAL AND EQUIPMENT USE
<input checked="" type="checkbox"/> SE-5	FIBER ROLLS	<input checked="" type="checkbox"/> WM-1	MATERIAL DELIVERY AND STORAGE
<input checked="" type="checkbox"/> SE-6	GRAVEL BAG BERM	<input checked="" type="checkbox"/> WM-2	MATERIAL USE
<input checked="" type="checkbox"/> SE-7	STREET SWEEPING AND VACUUMING	<input checked="" type="checkbox"/> WM-3	STOCKPILE MANAGEMENT
<input checked="" type="checkbox"/> SE-8	SANDBAG BARRIER	<input checked="" type="checkbox"/> WM-4	SPILL PREVENTION AND CONTROL
<input checked="" type="checkbox"/> SE-10	STORM DRAIN INLET PROTECTION	<input checked="" type="checkbox"/> WM-5	SOLID WASTE MANAGEMENT
<input checked="" type="checkbox"/> WE-1	WIND EROSION CONTROL	<input checked="" type="checkbox"/> WM-6	HAZARDOUS WASTE MANAGEMENT
<input checked="" type="checkbox"/> TC-1	STABILIZED CONSTRUCTION ENTRANCE/EXIT	<input checked="" type="checkbox"/> WM-8	CONCRETE WASTE MANAGEMENT
		<input checked="" type="checkbox"/> WM-9	SANITARY/SEPTIC WASTE MANAGEMENT



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6001 N. Fresno, Suite 130 Fresno, California 93720
Phone (509) 435-0681 www.integrateddesigns.com

Sheet Title: **EROSION, SEDIMENT & DUST CONTROL PLAN INCREMENT 1 DEVELOPMENT INCREMENT 1 OFF-SITE IMPROVEMENTS NEW ELEMENTARY SCHOOL**
Bakersfield City School District @ Citadel Street & Mardi Gras Court

Issue Date: 9/29/2017
Date: 9/29/2017
Checked: [Signature]
L: [Signature] LGH
P: [Signature] PC

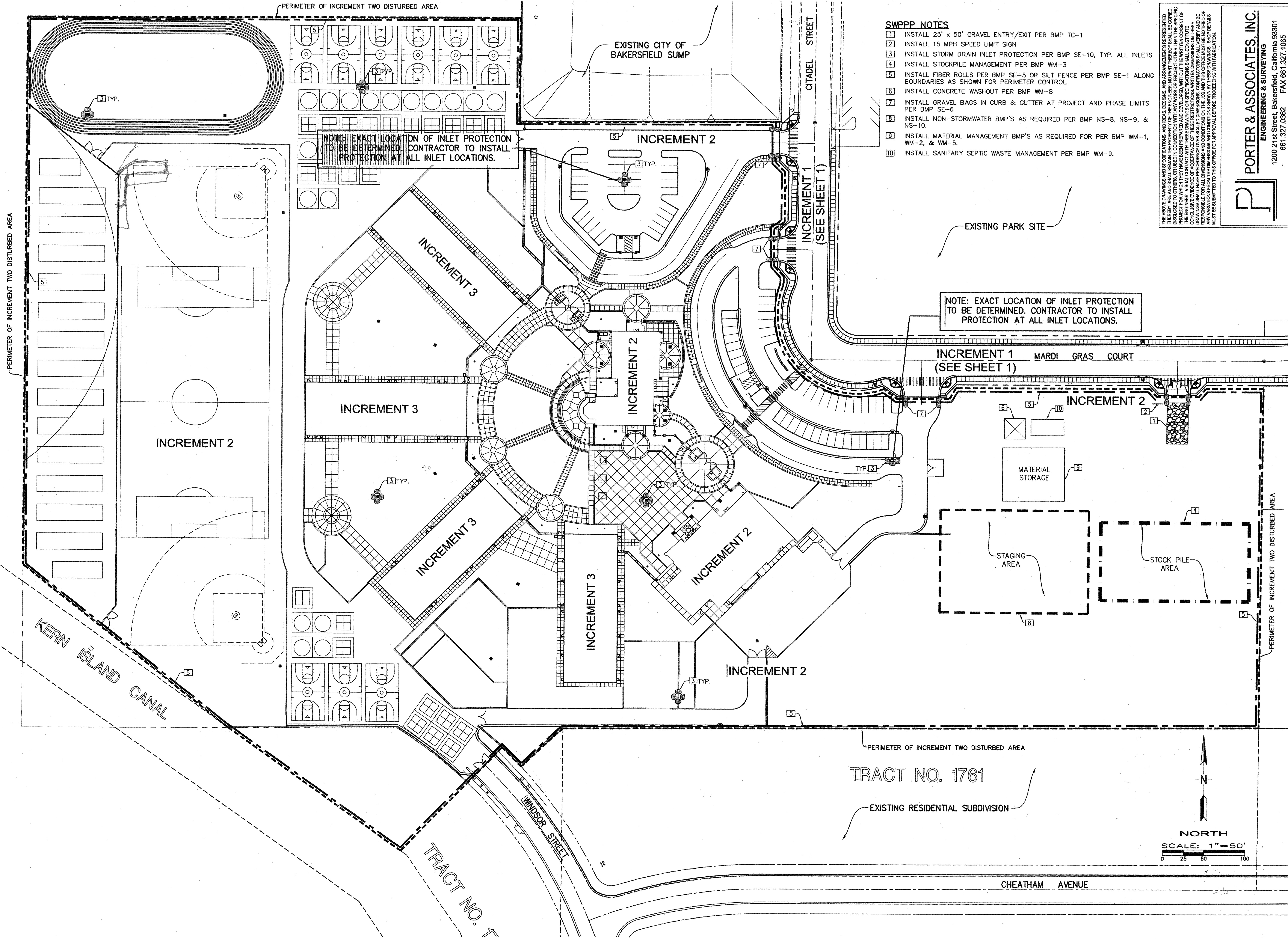
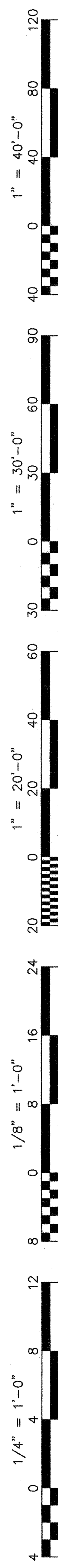
Agency Approval Stamp:
FILE # 15-6
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
03-118394
AC: [Signature] ELS SS [Signature]
DATE: 08-22-18
TRACKING #: 63321-300

Stamp(s): [Professional Engineer Seal for Fred W. Porter II, License No. 74609, State of California]

Job No.: **5262**

Sheet No.: **C5.01**

Released: [Signature]



- SWPPP NOTES**
- 1) INSTALL 25' x 50' GRAVEL ENTRY/EXIT PER BMP TC-1
 - 2) INSTALL 15 MPH SPEED LIMIT SIGN
 - 3) INSTALL STORM DRAIN INLET PROTECTION PER BMP SE-10, TYP. ALL INLETS
 - 4) INSTALL STOCKPILE MANAGEMENT PER BMP WM-3
 - 5) INSTALL FIBER ROLLS PER BMP SE-5 OR SILT FENCE PER BMP SE-1 ALONG BOUNDARIES AS SHOWN FOR PERIMETER CONTROL.
 - 6) INSTALL CONCRETE WASHOUT PER BMP WM-8
 - 7) INSTALL GRAVEL BAGS IN CURB & GUTTER AT PROJECT AND PHASE LIMITS PER BMP SE-6
 - 8) INSTALL NON-STORMWATER BMP'S AS REQUIRED PER BMP NS-8, NS-9, & NS-10.
 - 9) INSTALL MATERIAL MANAGEMENT BMP'S AS REQUIRED FOR PER BMP WM-1, WM-2, & WM-5.
 - 10) INSTALL SANITARY SEPTIC WASTE MANAGEMENT PER BMP WM-9.

THE ABOVE DRAWINGS AND SPECIFICATIONS, AND ALL ORDINANCES, AND ARRANGEMENTS REPRESENTED THEREON, ARE AND SHALL REMAIN THE PROPERTY OF THE ENGINEER. NO PART THEREOF SHALL BE COPIED, REPRODUCED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN CONSENT OF THE ENGINEER. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE A WAIVER OF THE ENGINEER'S LIABILITY. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DETAILS MUST BE SUBMITTED TO THE OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.

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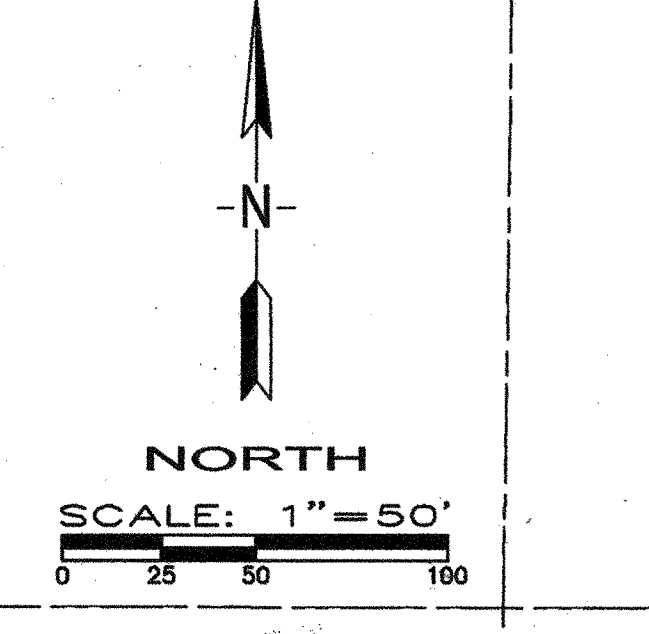
EROSION, SEDIMENT & DUST CONTROL PLAN
INCREMENT 2 DEVELOPMENT
INCREMENT 1 OFF-SITE IMPROVEMENTS
NEW ELEMENTARY SCHOOL
BAKERSFIELD CITY SCHOOL DISTRICT
@ CITADEL STREET & MARDI GRAS COURT

Sheet No.: **C5.02**
Date: 9/29/2017
Designer: LGH
DR: LGH
PC: PC

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AC: ELS SSVA
DATE: 8-22-18
TRACKING #: 63321-300

Professional Engineer Seal: W. PORTER, RCE 33448, CIVIL, STATE OF CALIFORNIA

Job No.: **5262**
Sheet No.: **C5.02**
Release: NATE SLINKARD



GENERAL NOTES

- 1. ALL CONSTRUCTION SHALL CONFORM TO THIS PLAN, THE CALIFORNIA BUILDING CODE, CITY OF BAKERSFIELD ORDINANCE, LATEST EDITION AND STANDARDS PERTAINING THERETO. THESE DOCUMENTS SHALL BE MADE A PART HEREOF.
2. ALL CONSTRUCTION WITHIN THE CITY RIGHT-OF-WAY OR CITY EASEMENTS SHALL BE IN ACCORDANCE WITH CITY OF BAKERSFIELD STANDARDS...
3. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS BEFORE START OF CONSTRUCTION...

GRADING NOTES

- 1. ALL GRADING AND SITE PREPARATION SHALL CONFORM TO THIS PLAN, APPENDIX J OF CALIFORNIA BUILDING CODE, AND THE GEOTECHNICAL INVESTIGATION PREPARED BY KRANZ & ASSOCIATES, INC. JOB NO. 022-17101, DATED NOVEMBER 10, 2017...
2. ALL DESIGN ELEVATIONS SHOWN ARE TO FINISHED GRADE, UNLESS OTHERWISE NOTED.
3. THE GEOTECHNICAL ENGINEER, DESIGN ENGINEER, AND BUILDING OFFICIAL SHALL BE NOTIFIED AT LEAST 2 DAYS BEFORE THE START OF ANY WORK AND PRIOR TO PLACING ANY FILL MATERIAL...

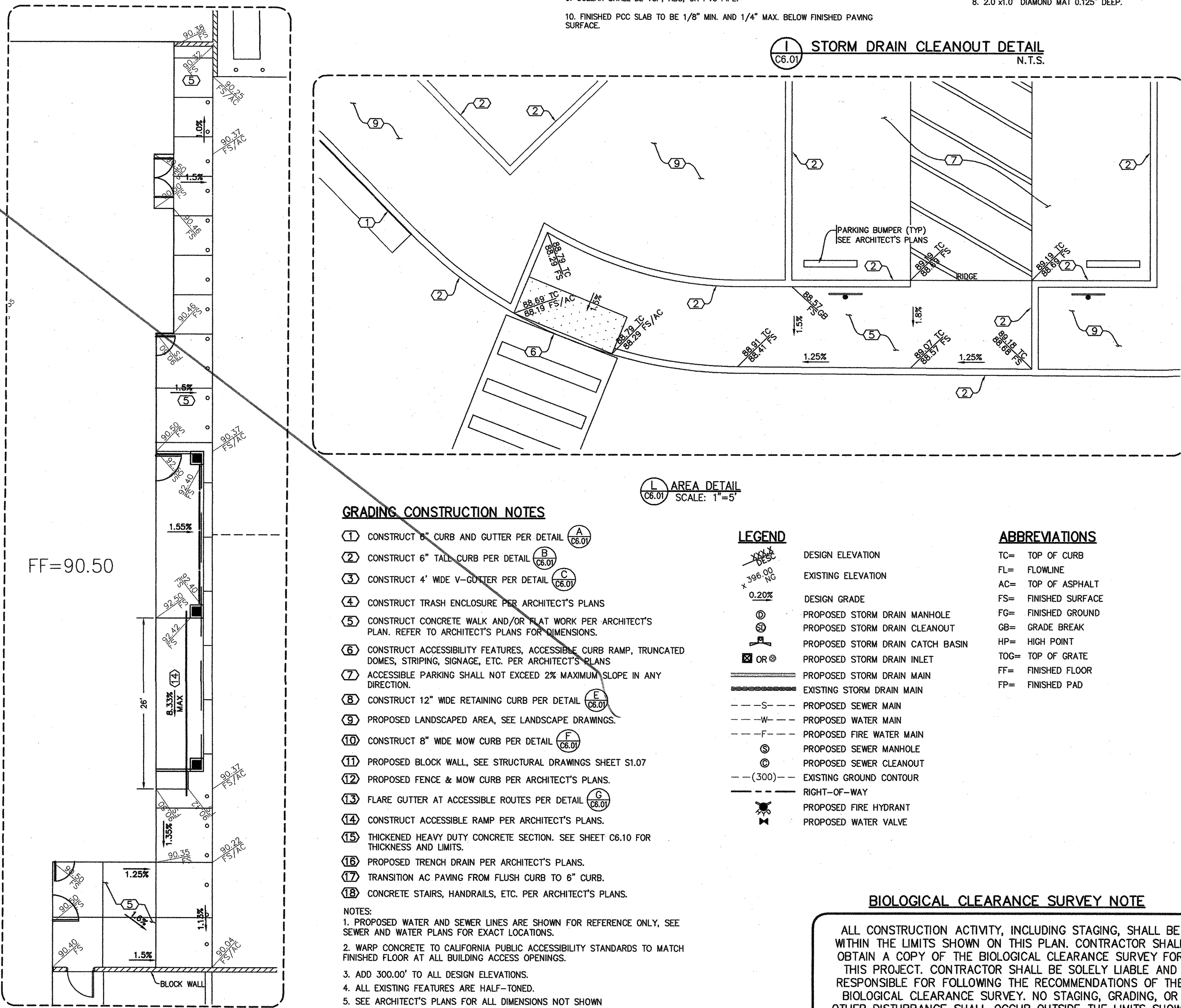
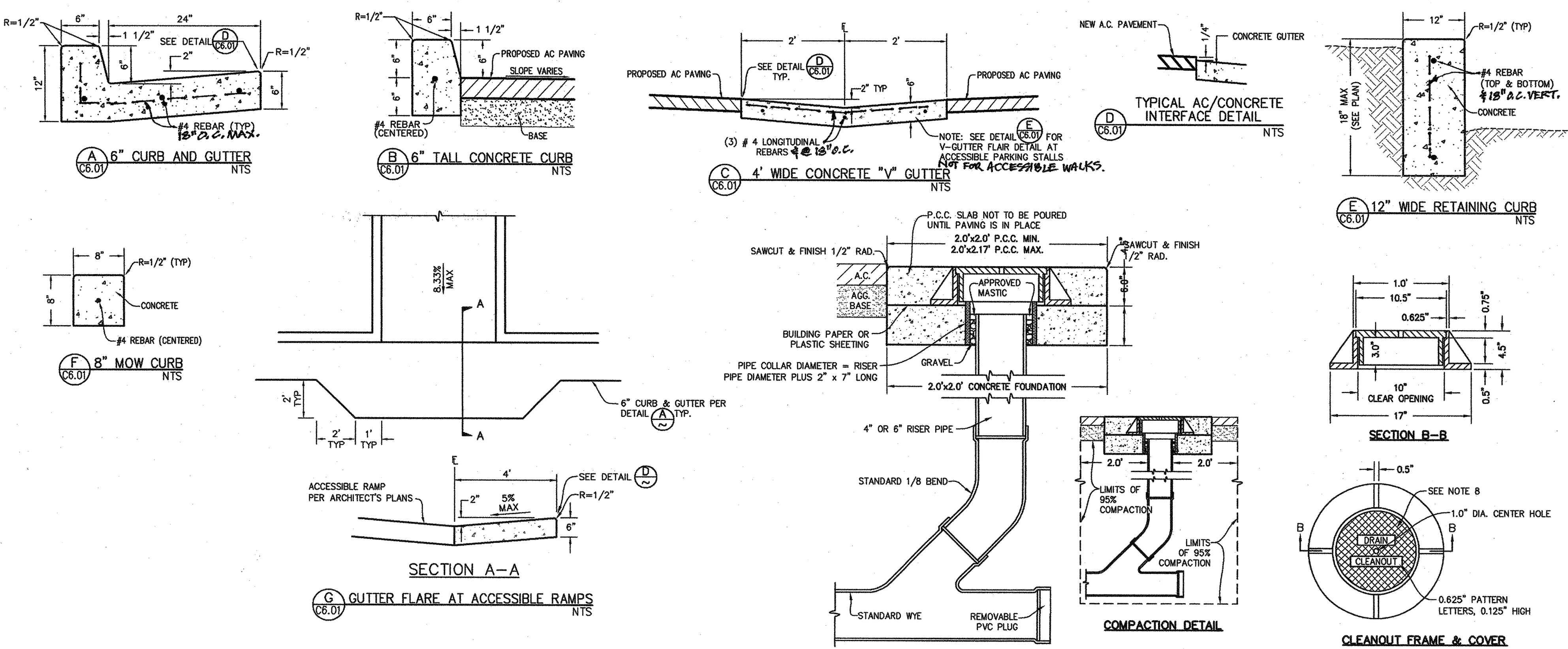
GRADING NOTES CONTINUED

- 20. FILL AREAS SLOPING STEEPER THAN 5:1 SHALL BE KEYED AND BENCHED TO SUPPORT FILL.
21. FILL SLOPES SHALL NOT EXCEED 1:1 HORIZONTAL TO 1 VERTICAL OF THE TOP OF EXISTING OR PLANNED CUT SLOPES.
22. ALL SLOPES IN EXCESS OF 3 FEET IN VERTICAL HEIGHT SHALL BE PREPARED AND MAINTAINED TO CONTROL AGAINST EROSION...

BENCHMARK USED:

TOP OF CONCRETE MONUMENT IN LAMPPOLE AT THE EAST QUARTER CORNER OF SECTION 5, 30/28 M.D.M. LYING 29.45' SOUTH OF THE CENTERLINE INTERSECTION OF EAST BELLE TERRACE AND COTTONWOOD ROAD.

ELEVATION = 385.41 (USGS DATUM) PER TRACT 6378 PLANS



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Sheet Title: GRADING & DRAINAGE PLAN
GENERAL NOTES - DETAILS
NEW ELEMENTARY SCHOOL INCREMENT 2
BAKERSFIELD CITY SCHOOL DISTRICT
@ CITADEL STREET & MARDI GRAS COURT
Revision Description:
Revision:
Date:
Job No.: 5262
Sheet No.: C6.01
NATE SLINKARD

GENERAL NOTES

- 1. ALL CONSTRUCTION SHALL CONFORM TO THIS PLAN, THE CALIFORNIA BUILDING CODE, CITY OF BAKERSFIELD ORDINANCE, LATEST EDITION AND STANDARDS PERTAINING THERETO. THESE DOCUMENTS SHALL BE MADE A PART HEREOF.
2. ALL CONSTRUCTION WITHIN THE CITY RIGHT-OF-WAY OR CITY EASEMENTS SHALL BE IN ACCORDANCE WITH CITY OF BAKERSFIELD STANDARDS AND STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2010. THESE STANDARDS, DRAWINGS AND DETAILS SHALL BE CONSIDERED A PART OF THESE PLANS AND THE CONTRACTOR SHALL OBTAIN A COPY FOR HIS USE.
3. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS BEFORE START OF CONSTRUCTION. AN OPEN STREET PERMIT SHALL BE OBTAINED FROM THE CITY OF BAKERSFIELD PUBLIC WORKS DEPARTMENT FOR ANY WORK TO BE PERFORMED IN THE EXISTING, ACCEPTED STREET RIGHT-OF-WAY, UNLESS SECURED BY AN IMPROVEMENT AGREEMENT, APPROVED INSURANCE AND SECURITY DEPOSIT OR APPROVED ENGINEER'S ESTIMATE FOR THE WORK PERFORMED WITHIN THE STREET RIGHT-OF-WAY SHALL BE POSTED PRIOR TO ISSUANCE OF A PERMIT.
24. HOUR NOTICE: PRIOR TO THE START OF ANY PHASE OF CONSTRUCTION IN THE CITY OF BAKERSFIELD RIGHT-OF-WAY, THE CITY CONSTRUCTION INSPECTION SECTION SHALL BE GIVEN AT LEAST 24 HOURS NOTICE. THIS SECTION MAY BE NOTICED AT (661) 328-3049.
5. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING DIMENSIONS, DATA AND MEASUREMENTS AT THE BUILDING SITE PRIOR TO CONSTRUCTION. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. PORTER & ASSOCIATES, INC. MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.
6. EXISTING UTILITY AND UNDERGROUND LINES HAVE BEEN SHOWN ON THIS PLAN ACCORDING TO AVAILABLE RECORDS. THE ENGINEER IS NOT RESPONSIBLE FOR POSSIBLE ERRORS OR OMISSIONS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING OF ANY WORK. UNDERGROUND SERVICE ALERT (U.S.A.), 1-800-222-2800 SHALL BE CONTACTED AT LEAST TWO WORKING DAYS PRIOR TO ANY CONSTRUCTION OR EXCAVATION.
7. ANY EXISTING IMPROVEMENTS OR UTILITIES THAT ARE REMOVED, DAMAGED OR UNDERGO BY CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE, AS DIRECTED BY THE ENGINEER AND APPROVED BY THE GOVERNING AUTHORITY.
8. IF A PROBLEM OR CONFLICT SHOULD ARISE DURING THE COURSE OF THE PROJECT, IT IS THE RESPONSIBILITY OF THE OWNER OR THE CONTRACTOR TO NOTIFY THE ENGINEER IMMEDIATELY TO ANY FURTHER WORK.
9. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND SUPERVISION NECESSARY FOR A COMPLETE AND FUNCTIONAL PROJECT.
10. ALL WORK WHICH IS DEFECTIVE IN ITS CONSTRUCTION OR DEFICIENT IN ANY OF THE REQUIREMENTS OF THESE DRAWINGS AND SPECIFICATIONS SHALL BE REMOVED, OR REMOVED AND REPLACED BY THE CONTRACTOR IN AN ACCEPTABLE MANNER, AND NO COMPENSATION WILL BE ALLOWED FOR SUCH CORRECTION.
11. IN THE EVENT CONSTRUCTION STAKING BASED ON THE CONSULTANT'S PLANS, DRAWINGS OR OTHER DOCUMENTS IS ACCOMPLISHED BY ANY OTHER PERSON OR CONSULTANT, THE OWNER OR CONTRACTOR SHALL NOTIFY THE BUILDING OFFICIAL IN WRITING AS TO THE CHANGE OF ENGINEER IN RESPONSIBLE CHARGE.
12. THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING EROSION, SEDIMENTATION & DUST CONTROL, PLAN AND STORM PLAN IMPLEMENTATION AND THE SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
13. IF THE CONTRACTOR IS IN DOUBT AS TO THE MEANING OF ANY PART OF THE DRAWINGS AND SPECIFICATIONS OR FINDS DISCREPANCIES IN OR OMISSIONS FROM THE DRAWINGS, HE SHALL SUBMIT A WRITTEN REQUEST FOR AN INTERPRETATION OR A CORRECTION THEREOF, PRIOR TO FILING HIS BID PRICE FOR THE PROJECT.
14. PORTER & ASSOCIATES, INC. WILL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ANY AND ALL CHANGES TO THESE PLANS MUST BE APPROVED IN WRITING BY PORTER & ASSOCIATES, INC.

GRADING NOTES

- 1. ALL GRADING AND SITE PREPARATION SHALL CONFORM TO THIS PLAN, APPENDIX J OF CALIFORNIA BUILDING CODE, AND THE GEOTECHNICAL INVESTIGATION PREPARED BY KRAZAN & ASSOCIATES, INC. JOB NO. 022-1701, DATED NOVEMBER 1, 2017, AND ANY ADDENDUM THERETO. THESE DOCUMENTS SHALL BE MADE A PART HEREOF. THE CONTRACTOR SHALL OBTAIN A COMPLETE COPY OF EACH.
2. ALL DESIGN ELEVATIONS SHOWN ARE TO FINISHED GRADE, UNLESS OTHERWISE NOTED.
3. THE GEOTECHNICAL ENGINEER, DESIGN ENGINEER, AND BUILDING OFFICIAL SHALL BE NOTIFIED AT LEAST 24 HOURS BEFORE THE START OF ANY WORK AND PRIOR TO PLACING ANY FILL MATERIAL.
4. GRADING WORK SHALL BE SUPERVISED AS "ENGINEERED GRADING" IN ACCORDANCE WITH THE BUILDING CODE. THE DESIGN ENGINEER SHALL EXERCISE SUFFICIENT SUPERVISORY CONTROL DURING GRADING AND CONSTRUCTION TO INSURE COMPLIANCE WITH THE PLANS, SPECIFICATIONS AND CODES WITHIN HIS PURVIEW.
5. ANY TRENCHING TO BE DONE WITHIN THE PROJECT SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THIS PLAN.
6. SITE PREPARATION AND GRADING SHALL BE DONE UNDER THE SUPERVISION OF THE GEOTECHNICAL ENGINEER. THE GEOTECHNICAL ENGINEER SHALL PROVIDE SUFFICIENT INSPECTIONS DURING THE PREPARATION OF THE NATURAL GROUND AND THE PLACEMENT AND COMPACTION OF THE FILL TO BE SATISFIED THAT THE WORK IS BEING PERFORMED IN ACCORDANCE WITH THE PLAN AND APPLICABLE CODES.
7. INTENTIONALLY OMITTED.
8. THE CONTRACTOR SHALL PREVENT A DUST NUISANCE FROM ORIGINATING FROM THE SITE OF WORK AS A RESULT OF HIS OPERATIONS DURING THE EFFECTIVE PERIOD OF THIS CONTRACT. PREVENTATIVE MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO MITIGATE THE IMPACT OF DUST AND PAID EMISSIONS ACCORDING TO THE SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT REGULATION VII (S), IN ADDITION TO ANY DUST CONTROL PLAN, THESE MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
A. PRE-ACTIVITY:
A. PRE-WATER SITE SUFFICIENT TO LIMIT VISIBLE DUST EMISSIONS (VDE) TO 20% OPACITY.
B. PHASE WORK TO REDUCE THE AMOUNT OF DISTURBED SURFACE AREA AT ANY ONE TIME.
B. DURING ACTIVE OPERATIONS:
A. APPLY WATER OR OTHER APPROVED SUBSTANCE SUFFICIENT TO LIMIT VDE TO 20% OPACITY.
B. LIMIT ACTIVITY TO PERIODS OF LOW OR NO WIND, OR CONSTRUCT AND MAINTAIN WIND BARRIERS SUFFICIENT TO LIMIT VDE TO 20% OPACITY.
C. APPLY WATER OR OTHER APPROVED SUBSTANCE TO UNPAVED HAUL/ACCESS ROADS AND UNPAVED VEHICLE/EQUIPMENT TRAFFIC AREAS SUFFICIENT TO LIMIT VDE TO 20% OPACITY AND MEET THE CONDITIONS OF A STABILIZED UNPAVED ROAD SURFACE.
C. TEMPORARY STABILIZATION DURING PERIODS OF INACTIVITY:
A. RESTRICT VEHICULAR ACCESS TO THE AREA.
B. APPLY WATER OR OTHER APPROVED SUBSTANCE SUFFICIENT TO COMPLY WITH THE CONDITIONS OF A STABILIZED SURFACE. IF ANY AREA HAVING 0.5 ACRES OR MORE OF DISTURBED SURFACE AREA REMAINS UNUSED FOR SEVEN OR MORE DAYS, THE AREA MUST COMPLY WITH THE CONDITIONS FOR A STABILIZED SURFACE AREA AS DEFINED IN RULE 001.
D. CARRYOUT AND TRACKOUT ON PUBLIC ROADS:
A. ALL VISIBLE CARRYOUT AND TRACKOUT WITHIN 50 FEET OF THE SITE SHALL BE REMOVED AT THE END OF EACH WORKDAY. TRACKOUT BEYOND 50 FEET OF THE SITE SHALL BE REMOVED IMMEDIATELY.
B. CLEANUP SHALL BE ACCOMPLISHED BY MANUAL SWEEPING OR APPROVED EQUIPMENT AND METHOD AS SPECIFIED BY THE SJVAJPCD.
C. THE USE OF BLOWER DEVICES OR DRY ROTARY BRUSHES OR BROOMS, FOR REMOVAL OF CARRYOUT AND TRACKOUT ON PUBLIC ROADS IS EXPRESSLY PROHIBITED.
D. ANY PERMITS REQUIRED FOR MUD AND DIRT CLEANUP SHALL BE OBTAINED BY THE CONTRACTOR.
9. IF DURING GRADING OR CONSTRUCTION, ANY PLUGGED, ABANDONED OR UNRECORDED WELLS ARE UNCOVERED OR DAMAGED, THE DEPARTMENT OF CONSERVATION / DIVISION OF OIL GAS AND GEOTHERMAL RESOURCES SHALL BE CONTACTED TO INSPECT AND APPROVE ANY REMEDIATION.
10. IF DURING CONSTRUCTION ACTIVITIES OR GROUND DISTURBANCE, CULTURAL RESOURCES ARE UNCOVERED, THE CONTRACTOR SHALL STOP WORK AND RETAIN A QUALIFIED ARCHITECT FOR FURTHER STUDY. THE CONTRACTOR SHALL NOTIFY THE PRO. AUTHORITIES AND BE SUBJECT TO ANY MITIGATION MEASURES REQUIRED BY THE ARCHAEOLOGIST.
11. DURING GRADING, REASONABLE SEARCHING SHOULD BE PERFORMED FOR CONCEALED SUBSURFACE OBSTRUCTIONS. ALL ABANDONED SUBSURFACE OBSTRUCTIONS SHOULD BE REMOVED, IF THE TERMINUS OF ANY ABANDONED PIPING IS OUTSIDE THE PROJECT LIMITS, THE PIPING SHOULD BE REMOVED WITHIN THE PROJECT AND PROPERLY CAPPED AT THE PROJECT BOUNDARY.
12. ALL ONSITE OR OFFSITE OBSTRUCTIONS SHALL BE REMOVED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
13. THE SITE SHALL BE CLEARED AND GRUBBED OF ALL VEGETATION, INCLUDING ROOTS, LOOSE FILL, TRASH AND OTHER DESTRUCTIVE MATERIALS ACCORDING TO THE RECOMMENDATIONS OF THE GEOTECHNICAL INVESTIGATION. ANY HOLE OR VOIDS LEFT AFTER THE REMOVAL OF TREES, ROOTS, SEPTIC TANKS, ABANDONED FOUNDATIONS, PIPELINES OR THE LIKE, SHALL BE FILLED AS REQUIRED BY THE GEOTECHNICAL ENGINEER.
14. GROUND SURFACES TO RECEIVE CONCRETE DRIVEWAYS AND BITUMINOUS PAVEMENTS SHOULD BE SCARIFIED AND COMPACTED TO A MINIMUM BELOW THE EXISTING GROUND SURFACE IN AREAS TO BE FILLED, UNLESS OTHERWISE SPECIFIED IN THE GEOTECHNICAL INVESTIGATION OR DIRECTED BY THE GEOTECHNICAL ENGINEER. COMPACTION IN PROPOSED PAVEMENT AREAS SHOULD BE TO A MINIMUM OF 90% OF THE MAXIMUM DENSITY AS OBTAINED BY ASTM TEST METHOD D1557-78, AND SHOULD EXTEND TO A MINIMUM DISTANCE OF 2 FEET BEYOND THE OUTSIDE EDGES OF PAVEMENTS. SURFACES TO RECEIVE CURBS, GUTTERS AND SIDEWALKS SHALL BE SCARIFIED AND COMPACTED TO A MINIMUM OF 90% OF THE MAXIMUM DENSITY TO A MINIMUM DEPTH OF 6 INCHES BELOW GROUND SURFACE.
15. PAD AREAS SHALL BE CLEARED OF ALL VEGETATION AND OTHER UNSUITABLE MATERIAL, SCARIFIED AND COMPACTED TO A MINIMUM DEPTH OF 12 INCHES BELOW THE EXISTING GROUND SURFACE IN AREAS TO BE FILLED OR 12 INCHES BELOW BOTTOM OF FOOTING OR 24 INCHES BELOW FINISH PAD IN CUT AREAS, UNLESS OTHERWISE SPECIFIED IN THE GEOTECHNICAL INVESTIGATION OR DIRECTED BY THE GEOTECHNICAL ENGINEER. COMPACTION IN PROPOSED AREAS ON THE SITE ON WHICH STRUCTURES ARE TO BE PLACED MUST BE COMPACTED TO 90% DENSITY FOR A MINIMUM DISTANCE OF 5 FEET BEYOND THE OUTSIDE EDGES OF THE FOUNDATIONS OF THE STRUCTURES.
THE DEPTH OF OVER-EXCAVATION AND COMPACTION IN PAD AREAS SHALL CONFORM TO THE RECOMMENDATION OF THE GEOTECHNICAL ENGINEERING INVESTIGATION OR AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER. RE-COMPACTION OF OVER-EXCAVATED MATERIAL SHALL BE TO AT LEAST 90% OF MAXIMUM DRY DENSITY.
16. FLOODING, JETTING, OR SIMILAR CONSOLIDATION METHODS OF COMPACTION SHALL NOT BE PERMITTED.
17. THE GRADING CONTRACTOR SHALL GRADE THE PAVING AREAS TO WITHIN 0.1 FOOT OF SUBGRADE. IF SUCH AREAS SHOULD BE FOUND TO BE MORE THAN 0.1 FOOT FROM THE DESIGN SUBGRADE ELEVATION AFTER COMPLETION OF GRADING, THE GRADING CONTRACTOR SHALL RETURN AND CORRECT THE GRADING AT NO COST TO THE OWNER.
18. SURFACE DRAINAGE SHALL BE 1% MINIMUM, EXCEPT AS WAIVED BY THE BUILDING OFFICIAL.
19. ALL CUT AND FILL SLOPES SHALL BE 2:1 (2 HORIZONTAL TO 1 VERTICAL) OR FLATTER, UNLESS OTHERWISE NOTED AND APPROVED BY THE GEOTECHNICAL ENGINEER.

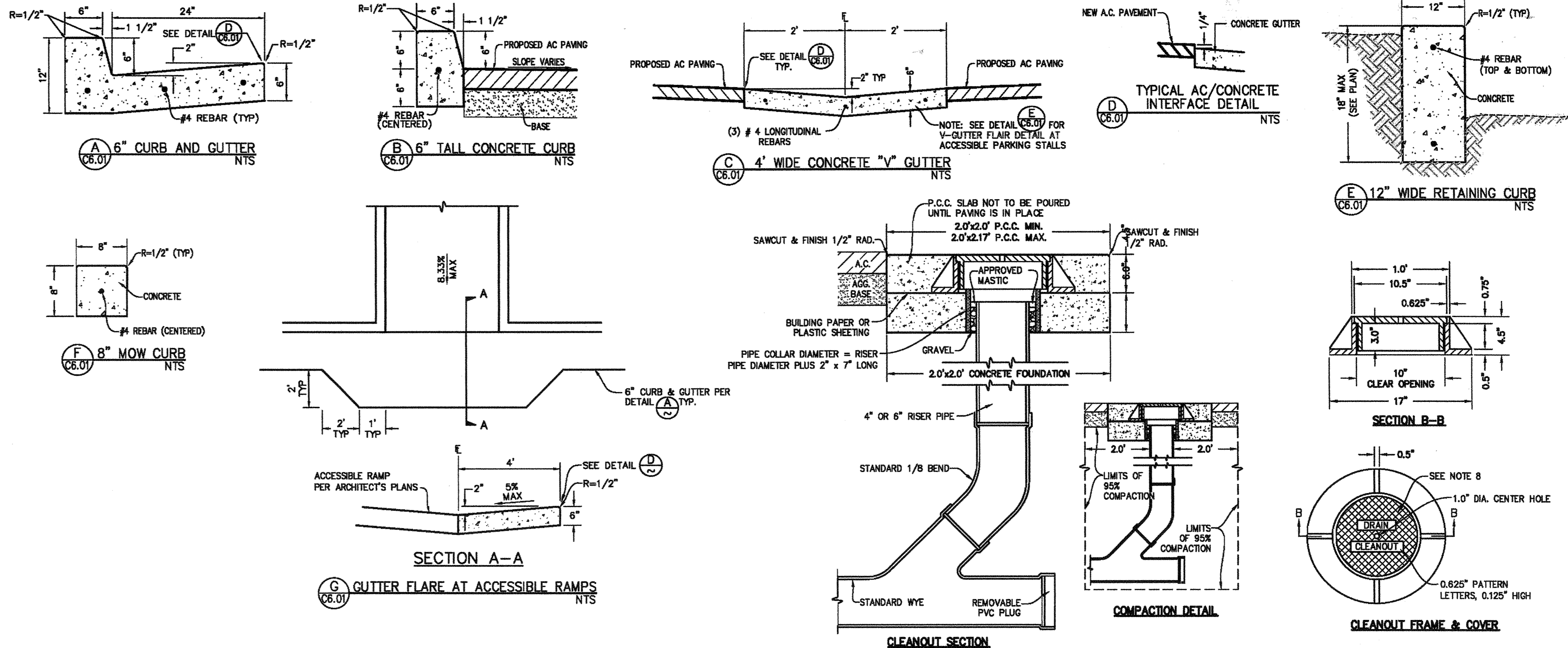
GRADING NOTES CONTINUED

- 20. FILL AREAS SLOPING STEEPER THAN 5:1 SHALL BE KEVED AND BENCHED TO SUPPORT FILL.
21. FILL SLOPES SHALL NOT TOE OUT WITHIN 12 FEET HORIZONTALLY OF THE TOP OF EXISTING OR PLANNED CUT SLOPES.
22. ALL SLOPES IN EXCESS OF 3 FEET IN VERTICAL HEIGHT SHALL BE PREPARED AND MAINTAINED TO CONTROL AGAINST EROSION.
23. FOR HILL-SIDE DEVELOPMENT, A BERM OR DRAINAGE SWALE SHALL BE CONSTRUCTED ALONG THE TOP OF ALL CUT AND FILL HILL-SIDE SLOPES TO PREVENT RUNOFF FROM GOING OVER THE SLOPE.
24. FILL MATERIAL SHALL BE SUBJECT TO THE GEOTECHNICAL ENGINEER'S APPROVAL.
25. ENGINEERED FILL MATERIALS SHOULD BE PLACED IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. IF NO RECOMMENDATION EXISTS, FILL SHALL BE PLACED IN THIN LAYERS LESS THAN 6 INCHES IN UNCOMPACTED THICKNESS AND COMPACTED AT OPTIMUM MOISTURE CONTENT (OR A MOISTURE CONTENT COMMENSURATE WITH EFFECTIVE COMPACTING AND SOIL STABILITY). ENGINEERED FILL MATERIALS SHOULD BE COMPACTED TO A MINIMUM OF 90% MAXIMUM DENSITY AS DETERMINED BY APPROVED METHOD THE CURRENT CALIFORNIA BUILDING CODE AND CERTIFIED BY TESTS AND REPORTS FROM THE GEOTECHNICAL ENGINEER.
26. ANY CUT AND FILL QUANTITIES SHOWN ON THIS PLAN ARE FOR PERMIT PURPOSES ONLY. THE ENGINEER MAKES NO WARRANTY EITHER DIRECT OR IMPLIED THAT THIS WILL BE THE ACTUAL COMPACTION FACTOR. THE CONTRACTOR SHALL, AFTER EXAMINING THE PLAN, GEOTECHNICAL INVESTIGATION AND THE SITE TERRAIN, PREPARE HIS BID PRICE FOR THE PROJECT, BASED ON HIS OWN EARTHWORK CALCULATIONS. IF A DEFICIENCY OR AN EXCESS OF SOIL ARISES DURING GRADING, THE GRADING CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER, WHO SHALL DETERMINE IF ADJUSTMENTS CAN BE MADE TO IMPROVE THE BALANCE BETWEEN CUT AND FILL.
27. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF THE BORROW SITE WITH THE SOILS ENGINEER PRIOR TO CONSTRUCTION.
28. EXPORT MATERIAL SHALL BE DISPOSED OF AT AN APPROVED SITE.
29. IT IS THE RESPONSIBILITY OF THE DEVELOPER AND THE CONTRACTOR TO (A) FAMILIARIZE THEMSELVES WITH THE FOREGOING RECOMMENDATIONS, (B) NOTIFY THE ENGINEER WHEN SITE PREPARATION BEGINS AND BEFORE THE PLACEMENT OF FILLS, AND (C) INFORM THE ENGINEER OF ITEMS ENCOUNTERED DURING EARTHWORK OPERATIONS WHICH MIGHT AFFECT FOUNDATION STABILITY, SO THAT THE ITEMS MAY BE TREATED UNDER THE ENGINEER'S DIRECTION. (THESE ITEMS MIGHT INCLUDE BURIED TRASH OR VEGETATION, PIPELINES, ABANDONED WELLS, OLD FILLS, ETC.)
30. UPON COMPLETION OF FILL AND BEFORE THE START OF CONSTRUCTION, A FINAL GEOTECHNICAL INVESTIGATION COVERING THE SITE PREPARATION AND GRADING SHALL BE SUBMITTED TO THE OWNER.

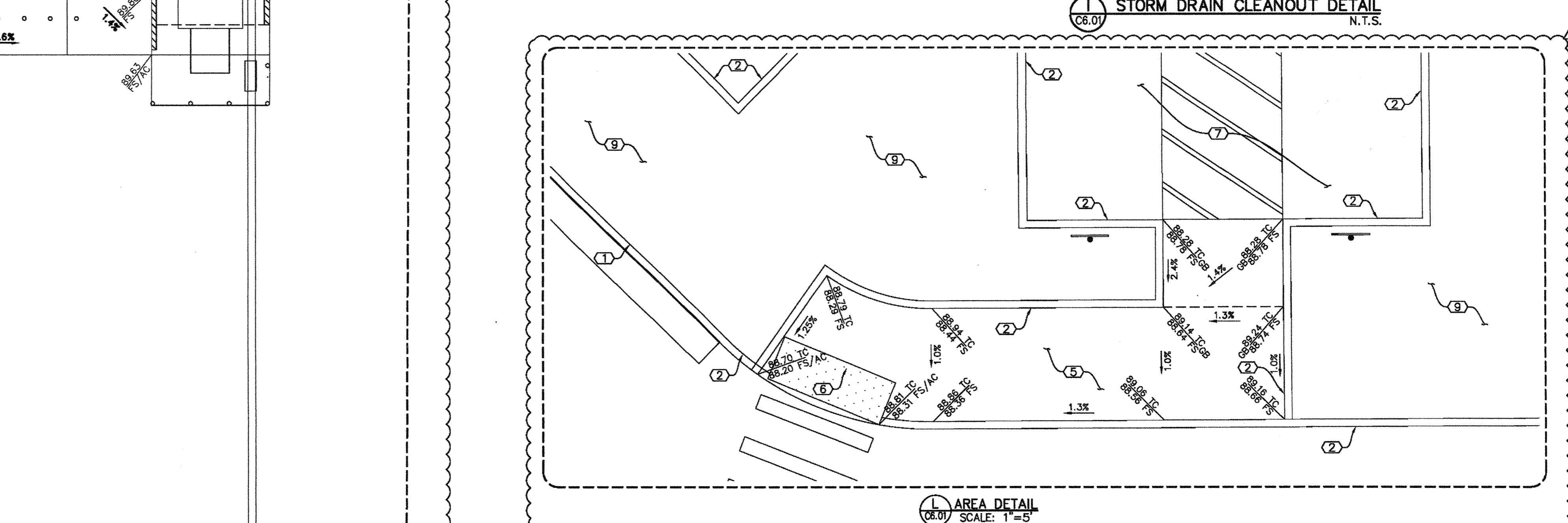
BENCHMARK USED:

TOP OF CONCRETE MONUMENT IN LAMPHOLE AT THE EAST QUARTER CORNER OF SECTION 5, 30/28 M.D.M. LYING 29.45' SOUTH OF THE CENTERLINE INTERSECTION OF EAST BELLE TERRACE AND COTTONWOOD ROAD.

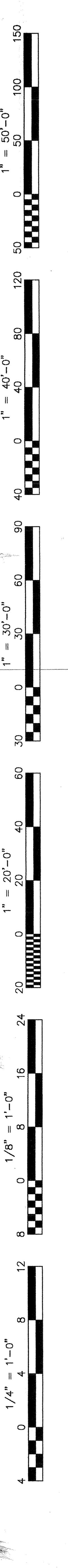
ELEVATION = 385.41 (USGS DATUM) PER TRACT 6378 PLANS



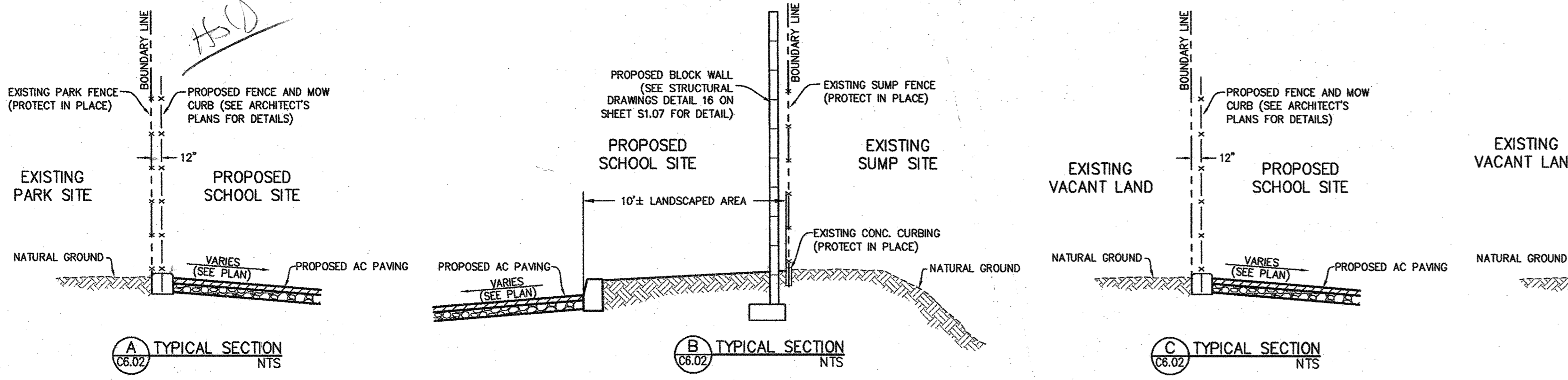
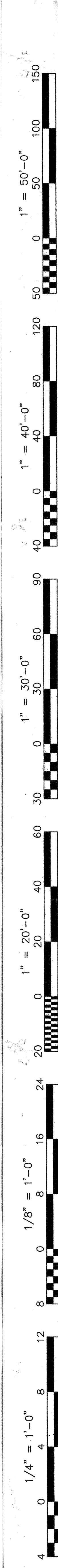
- CLEANOUT NOTES:
1. ALL WORK SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE SPECIFICATIONS ENTITLED "STANDARD SPECIFICATIONS, STATE OF CALIFORNIA, BUSINESS AND TRANSPORTATION AGENCY, DEPARTMENT OF TRANSPORTATION", APPROVED CURRENT EDITION.
2. ALL CONCRETE SHALL BE CLASS "A".
3. CONCRETE SHALL HAVE NO ADDITIVES UNLESS PRIOR WRITTEN APPROVAL IS OBTAINED FROM THE ENGINEER.
4. CONCRETE SHALL BE CURED WITH A WHITE PIGMENTED CURING COMPOUND PER SEC. 90-7.018 OF THE STANDARD SPECS.
5. TOP OF SLAB SHALL BE TROWELED SMOOTH AND GIVEN A LIGHT BROOM FINISH.
6. 5% RELATIVE COMPACTION IS REQUIRED FOR ALL BACKFILL WITHIN 24" OF THE RISER PIPE.
7. BUILDING PAPER OR PLASTIC SHALL BE PLACED BETWEEN THE 6" CONCRETE FOUNDATION AND 4.5" SLAB.
8. FILL CAVITY BETWEEN PIPE AND COLLAR WITH GRAVEL TO WITHIN 1/2" OF TOP OF PIPE. CALCULUS REMAINING 1/2" WITH APPROVED MASTIC TO TOP OF PIPE FOR WATER TIGHT SEAL.
9. COLLAR SHALL BE VCP, ABS, OR PVC PIPE.
10. FINISHED PCC SLAB TO BE 1/8" MIN. AND 1/4" MAX. BELOW FINISHED PAVING SURFACE.
CLEANOUT COVER NOTES:
1. ALL FRAMES AND COVERS SHALL BE TESTED FOR ACCURACY OF FIT AND SHALL BE MARKED IN SETS PRIOR TO DELIVERY.
2. THE SEATS OF FRAMES AND BEARING FACES OF THE COVERS SHALL BE MACHINED FOR A SMOOTH NON-ROOKING FIT BEHIND ACCESS TO THE CLEANOUT.
3. CASTINGS SHALL BE THOROUGHLY CLEANED AND DIPPED TWICE IN A QUICK-DRYING, BLACK ASPHALTIC COMPOUND TO PROVIDE A PROTECTIVE COATING.
4. ALL FRAMES AND COVERS SHALL BE GRAY CAST IRON, FREE FROM WARPS, CRACKS, HOLES, SMELLS AND SLOP-SHOT, AND SHALL HAVE A WORKMANLIKE FINISH. HIGH LOADING RINGS SHOULD BE HS 20-44.
5. CASTING SHALL CONFORM TO THE PROVISIONS OF THE SPECIFICATIONS FOR GRAY-IRON CASTINGS, SERIAL DESIGNATION ASTM: A-48 (LATEST REVISION), CLASS NO. 30B.
6. THE NAME OF THE MANUFACTURING COMPANY SHALL BE ON THE UNDERSIDE OF THE COVER.
7. ASSEMBLY SHALL BE DESIGNED FOR HIGHWAY LOADING OF HS 20-44.
8. 2.0"x1.0" DIAMOND MAT 0.125" DEEP.



- GRADING CONSTRUCTION NOTES:
(1) CONSTRUCT 6" CURB AND GUTTER PER DETAIL (A)
(2) CONSTRUCT 6" TALL CURB PER DETAIL (B)
(3) CONSTRUCT 4" WIDE V-GUTTER PER DETAIL (C)
(4) CONSTRUCT TRASH ENCLOSURE PER ARCHITECT'S PLANS
(5) CONSTRUCT CONCRETE WALK AND/OR FLAT WORK PER ARCHITECT'S PLAN. REFER TO ARCHITECT'S PLANS FOR DIMENSIONS.
(6) CONSTRUCT ACCESSIBILITY FEATURES, ACCESSIBLE CURB RAMP, TRUNCATED DOMES, STRIPING, SIGNAGE, ETC. PER ARCHITECT'S PLANS
(7) ACCESSIBLE PARKING SHALL NOT EXCEED 2% MAXIMUM SLOPE IN ANY DIRECTION.
(8) CONSTRUCT 12" WIDE RETAINING CURB PER DETAIL (E)
(9) PROPOSED LANDSCAPED AREA, SEE LANDSCAPE DRAWINGS.
(10) CONSTRUCT 8" WIDE MOW CURB PER DETAIL (F)
(11) PROPOSED BLOCK WALL, SEE STRUCTURAL DRAWINGS SHEET S1.07
(12) PROPOSED FENCE & MOW CURB PER ARCHITECT'S PLANS.
(13) FLARE GUTTER AT ACCESSIBLE ROUTES PER DETAIL (G)
(14) CONSTRUCT ACCESSIBLE RAMP PER ARCHITECT'S PLANS.
(15) THICKENED HEAVY DUTY CONCRETE SECTION. SEE SHEET C6.10 FOR THICKNESS AND LIMITS.
(16) PROPOSED TRENCH DRAIN PER ARCHITECT'S PLANS.
(17) TRANSITION AC PAVING FROM FLUSH CURB TO 6" CURB.
(18) CONCRETE STAIRS, HANDRAILS, ETC. PER ARCHITECT'S PLANS.
LEGEND:
DESIGN ELEVATION: [Symbol]
EXISTING ELEVATION: [Symbol]
DESIGN GRADE: [Symbol]
PROPOSED STORM DRAIN MANHOLE: [Symbol]
PROPOSED STORM DRAIN CLEANOUT: [Symbol]
PROPOSED STORM DRAIN CATCH BASIN: [Symbol]
PROPOSED STORM DRAIN INLET: [Symbol]
PROPOSED STORM DRAIN MAIN: [Symbol]
EXISTING STORM DRAIN MAIN: [Symbol]
PROPOSED SEWER MAIN: [Symbol]
PROPOSED WATER MAIN: [Symbol]
PROPOSED FIRE WATER MAIN: [Symbol]
PROPOSED SEWER MANHOLE: [Symbol]
PROPOSED SEWER CLEANOUT: [Symbol]
EXISTING GROUND CONTOUR: [Symbol]
RIGHT-OF-WAY: [Symbol]
PROPOSED FIRE HYDRANT: [Symbol]
PROPOSED WATER VALVE: [Symbol]
ABBREVIATIONS:
TO= TOP OF CURB
FL= FLOWLINE
AC= TOP OF ASPHALT
FS= FINISHED SURFACE
FG= FINISHED GROUND
GB= GRADE BREAK
HP= HIGH POINT
TO= TOP OF GRATE
TF= FINISHED FLOOR
FP= FINISHED PAD
BIOLOGICAL CLEARANCE SURVEY NOTE:
ALL CONSTRUCTION ACTIVITY, INCLUDING STAGING, SHALL BE WITHIN THE LIMITS SHOWN ON THIS PLAN. CONTRACTOR SHALL OBTAIN A COPY OF THE BIOLOGICAL CLEARANCE SURVEY FOR THIS PROJECT. CONTRACTOR SHALL BE SOLELY LIABLE AND RESPONSIBLE FOR FOLLOWING THE RECOMMENDATIONS OF THE BIOLOGICAL CLEARANCE SURVEY. NO STAGING, GRADING, OR OTHER DISTURBANCE SHALL OCCUR OUTSIDE THE LIMITS SHOWN ON THIS PLAN.



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integrated designs by SOJAN, Inc. ARCHITECTURE - ENGINEERING - INTERIOR DESIGN - CONSTRUCTION MANAGEMENT 6011 N. Traveno, Suite 1307 Fresno, California 93720 Phone: (559) 439-0881 Fax: (559) 435-0687 E-Mail: info@integrateddesigns.com www.integrateddesigns.com
GRADING & DRAINAGE PLAN GENERAL NOTES - DETAILS NEW ELEMENTARY SCHOOL INCREMENT 2 BAKERSFIELD CITY SCHOOL DISTRICT @ CITADEL STREET & MARDI GRAS COURT
Job No.: 5262 Sheet No.: C6.01 Release: - ADDENDUM #6



GRADING CONSTRUCTION NOTES

1. CONSTRUCT 6" CURB AND GUTTER PER DETAIL (C6.01)
2. CONSTRUCT 6" TALL CURB PER DETAIL (C6.02)
3. CONSTRUCT 4" WIDE V-GUTTER PER DETAIL (C6.03)
4. CONSTRUCT TRASH ENCLOSURE PER ARCHITECT'S PLANS
5. CONSTRUCT CONCRETE WALK AND/OR FLAT WORK PER ARCHITECT'S PLAN. REFER TO ARCHITECT'S PLANS FOR DIMENSIONS.
6. CONSTRUCT ACCESSIBILITY FEATURES, ACCESSIBLE CURB RAMP, TRUNCATED DOMES, STRIPING, SIGNAGE, ETC. PER ARCHITECT'S PLANS
7. ACCESSIBLE PARKING SHALL NOT EXCEED 2% MAXIMUM SLOPE IN ANY DIRECTION.
8. CONSTRUCT 12" WIDE RETAINING CURB PER DETAIL (C6.04)
9. PROPOSED LANDSCAPED AREA, SEE LANDSCAPE DRAWINGS.
10. CONSTRUCT 8" WIDE MOW CURB PER DETAIL (C6.05)
11. PROPOSED BLOCK WALL, SEE STRUCTURAL DRAWINGS SHEET S1.07
12. PROPOSED FENCE & MOW CURB PER ARCHITECT'S PLANS.
13. FLARE GUTTER AT ACCESSIBLE ROUTES PER DETAIL (C6.06)
14. CONSTRUCT ACCESSIBLE RAMP PER ARCHITECT'S PLANS.
15. THICKENED HEAVY DUTY CONCRETE SECTION. SEE SHEET C6.10 FOR THICKNESS AND LIMITS.
16. PROPOSED TRENCH DRAIN PER ARCHITECT'S PLANS.
17. TRANSITION AC PAVING FROM FLUSH CURB TO 6" CURB.
18. CONCRETE STAIRS, HANDRAILS, ETC. PER ARCHITECT'S PLANS.

- NOTES:**
1. PROPOSED WATER AND SEWER LINES ARE SHOWN FOR REFERENCE ONLY, SEE SEWER AND WATER PLANS FOR EXACT LOCATIONS.
 2. WARP CONCRETE TO CALIFORNIA PUBLIC ACCESSIBILITY STANDARDS TO MATCH FINISHED FLOOR AT ALL BUILDING ACCESS OPENINGS.
 3. ADD 300.00' TO ALL DESIGN ELEVATIONS.
 4. ALL EXISTING FEATURES ARE HALF-TONED.
 5. SEE ARCHITECT'S PLANS FOR ALL DIMENSIONS NOT SHOWN
 6. SEE INCREMENT 1 PLANS FOR OFF-SITE IMPROVEMENTS.
 7. SEE SHEET C6.10 FOR PAVEMENT PLAN.
 8. SEE SHEETS C6.08 AND C6.09 FOR STORM DRAIN PLAN.

NOTE TO CONTRACTOR

ALL MANHOLES AND CLEANOUTS WITHIN PROJECT LIMITS, INCLUDING EXISTING MANHOLES, SHALL BE ADJUSTED TO FINISH GRADE IN ACCORDANCE WITH CITY OF BAKERSFIELD STANDARDS. EXISTING MANHOLES MAY REQUIRE REMOVAL OF EXISTING CONE, AND REMOVAL OR "CHANGE OUT" OF BARREL RINGS.

LEGEND

	DESIGN ELEVATION
	EXISTING ELEVATION
	DESIGN GRADE
	PROPOSED STORM DRAIN MANHOLE
	PROPOSED STORM DRAIN CLEANOUT
	PROPOSED STORM DRAIN CATCH BASIN
	PROPOSED STORM DRAIN INLET
	PROPOSED STORM DRAIN MAIN
	EXISTING STORM DRAIN MAIN
	PROPOSED SEWER MAIN
	PROPOSED WATER MAIN
	PROPOSED FIRE WATER MAIN
	PROPOSED SEWER MANHOLE
	PROPOSED SEWER CLEANOUT
	EXISTING GROUND CONTOUR
	RIGHT-OF-WAY
	PROPOSED FIRE HYDRANT
	PROPOSED WATER VALVE

ABBREVIATIONS

TC=	TOP OF CURB
FL=	FLOWLINE
AC=	TOP OF ASPHALT
FS=	FINISHED SURFACE
FC=	FINISHED GRADE
GB=	GRADE BREAK
HP=	HIGH POINT
TCG=	TOP OF GRATE
FF=	FINISHED FLOOR
FP=	FINISHED PAD

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www.integrateddesigns.com

Revision	Rev. Date	Revision Description

GRADING & DRAINAGE PLAN
NORTHWEST QUADRANT
NEW ELEMENTARY SCHOOL INCREMENT 2
BAKERSFIELD CITY SCHOOL DISTRICT
@ CITADEL STREET & MARDI GRAS COURT

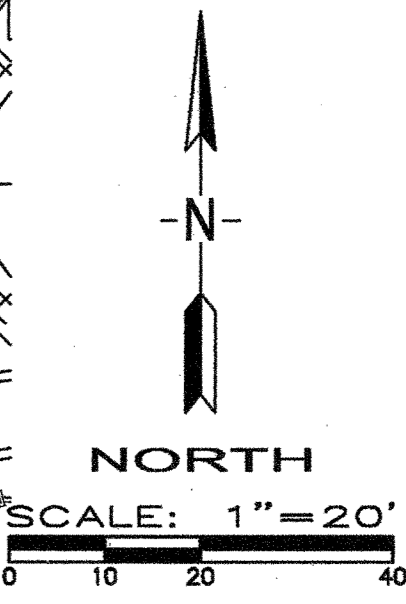
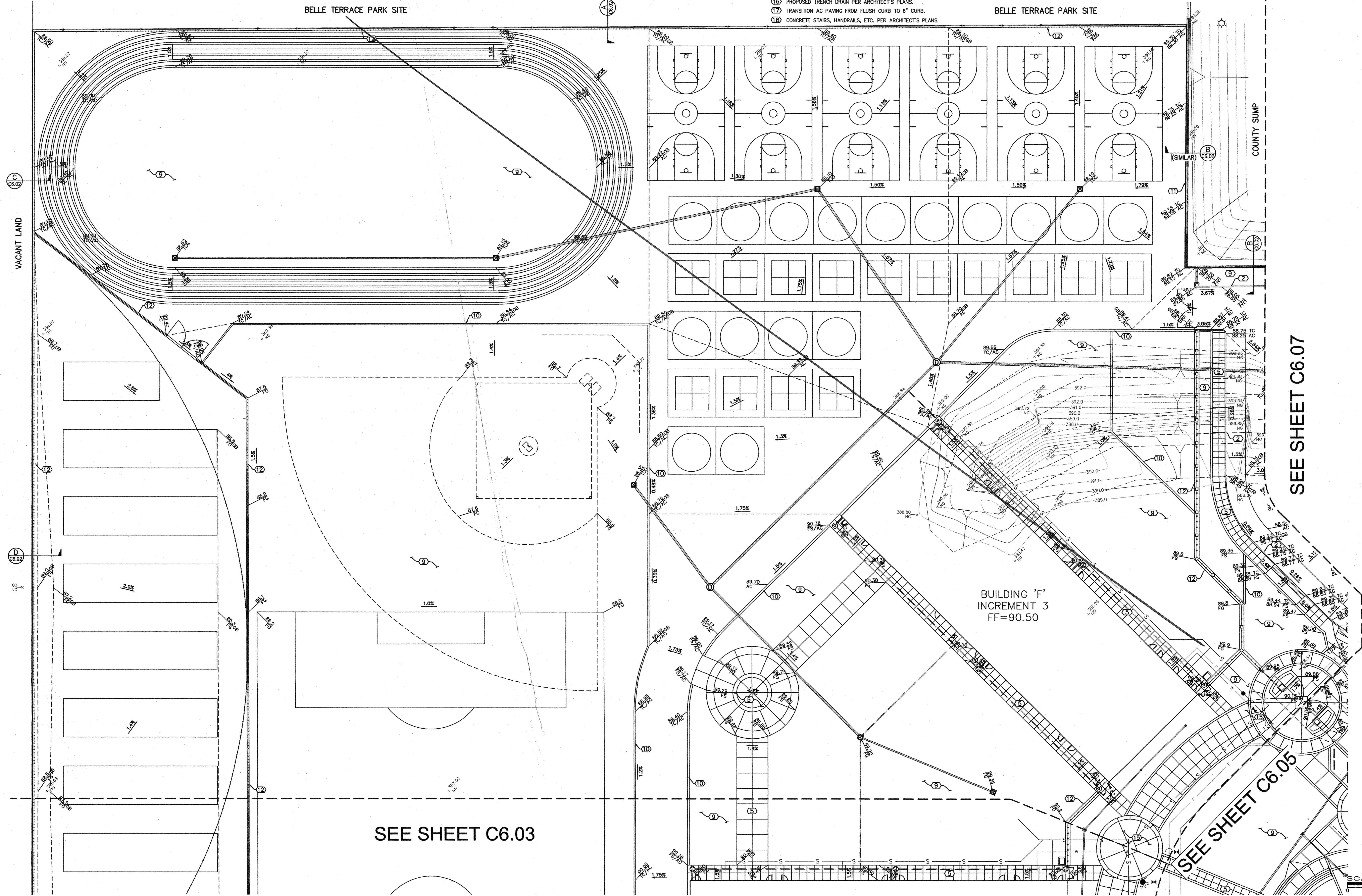
Sheet Title: GRADING & DRAINAGE PLAN
Northwest Quadrant
New Elementary School Increment 2
Bakersfield City School District
@ Citadel Street & Mardi Gras Court

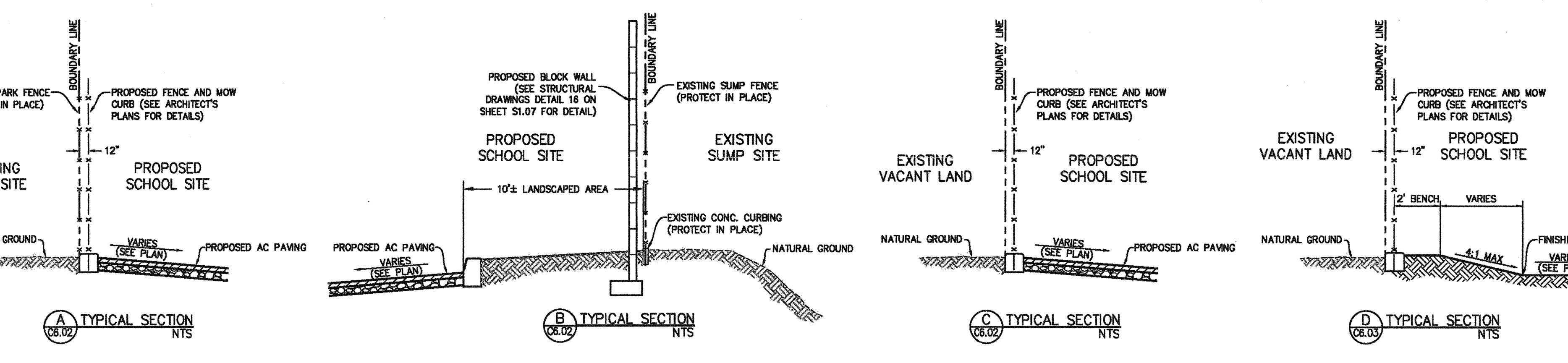
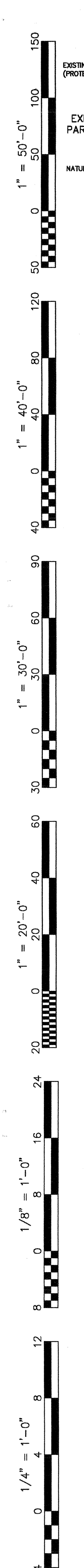
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Date: 1/31/2018
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EIR: [Signature]
PIC: XXX

Agency Approval Stamp:
FILE # 15-6
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
03-118394
AC: [Signature] FL: [Signature] SS: [Signature]
DATE: 08-22-18
TRACKING #: 63321-300

Stamp(s):
Professional Engineer Seal for NATE SLINKARD, No. 0566, RCE 74099, State of California.
Professional Surveyor Seal for [Signature], No. 0566, State of California.

Job No.: **5262**
Sheet No.: **C6.02**
Released: -
NATE SLINKARD





- GRADING CONSTRUCTION NOTES**
- CONSTRUCT 6" CURB AND GUTTER PER DETAIL (A) (C6.02)
 - CONSTRUCT 6" TALL CURB PER DETAIL (B) (C6.02)
 - CONSTRUCT 4" WIDE V-GUTTER PER DETAIL (C) (C6.02)
 - CONSTRUCT TRASH ENCLOSURE PER ARCHITECT'S PLANS
 - CONSTRUCT CONCRETE WALK AND/OR FLAT WORK PER ARCHITECT'S PLAN. REFER TO ARCHITECT'S PLANS FOR DIMENSIONS.
 - CONSTRUCT ACCESSIBILITY FEATURES, ACCESSIBLE CURB RAMP, TRUNCATED DOMES, STRIPING, SIGNAGE, ETC. PER ARCHITECT'S PLANS
 - ACCESSIBLE PARKING SHALL NOT EXCEED 2% MAXIMUM SLOPE IN ANY DIRECTION.
 - CONSTRUCT 12" WIDE RETAINING CURB PER DETAIL (E) (C6.02)
 - PROPOSED LANDSCAPED AREA, SEE LANDSCAPE DRAWINGS.
 - CONSTRUCT 8" WIDE MOW CURB PER DETAIL (F) (C6.02)
 - PROPOSED BLOCK WALL, SEE STRUCTURAL DRAWINGS SHEET S1.07
 - PROPOSED FENCE & MOW CURB PER ARCHITECT'S PLANS.
 - FLARE GUTTER AT ACCESSIBLE ROUTES PER DETAIL (G) (C6.02)
 - CONSTRUCT ACCESSIBLE RAMP PER ARCHITECT'S PLANS.
 - THICKENED HEAVY DUTY CONCRETE SECTION. SEE SHEET C6.10 FOR THICKNESS AND LIMITS.
 - PROPOSED TRENCH DRAIN PER ARCHITECT'S PLANS.
 - TRANSITION AC PAVING FROM FLUSH CURB TO 6" CURB.
 - CONCRETE STAIRS, HANDRAILS, ETC. PER ARCHITECT'S PLANS.

NOTES

- PROPOSED WATER AND SEWER LINES ARE SHOWN FOR REFERENCE ONLY. SEE SEWER AND WATER PLANS FOR EXACT LOCATIONS.
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- ADD 300.00' TO ALL DESIGN ELEVATIONS.
- ALL EXISTING FEATURES ARE HALF-TONED.
- SEE ARCHITECT'S PLANS FOR ALL DIMENSIONS NOT SHOWN
- SEE INCREMENT 1 PLANS FOR OFF-SITE IMPROVEMENTS.
- SEE SHEET C6.10 FOR PAVEMENT PLAN.
- SEE SHEETS C6.08 AND C6.09 FOR STORM DRAIN PLAN.

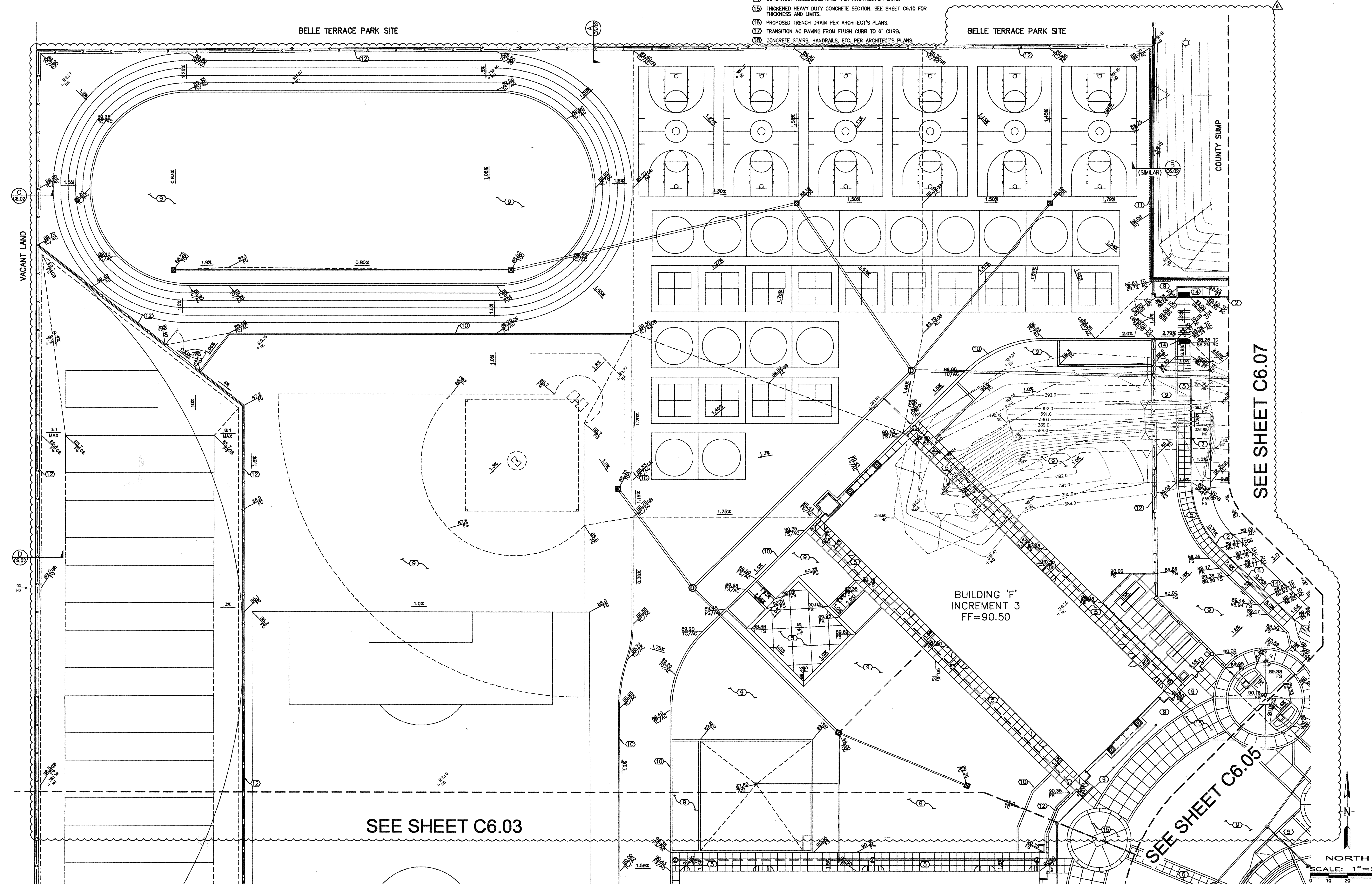
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LEGEND

	DESIGN ELEVATION
	EXISTING ELEVATION
	DESIGN GRADE
	PROPOSED STORM DRAIN MANHOLE
	PROPOSED STORM DRAIN CLEANOUT
	PROPOSED STORM DRAIN CATCH BASIN
	PROPOSED STORM DRAIN INLET
	PROPOSED STORM DRAIN MAIN
	EXISTING STORM DRAIN MAIN
	PROPOSED SEWER MAIN
	PROPOSED WATER MAIN
	PROPOSED FIRE WATER MAIN
	PROPOSED SEWER MANHOLE
	PROPOSED SEWER CLEANOUT
	EXISTING GROUND CONTOUR
	RIGHT-OF-WAY
	PROPOSED FIRE HYDRANT
	PROPOSED WATER VALVE

ABBREVIATIONS

TC	TOP OF CURB
FL	FLOWLINE
AC	TOP OF ASPHALT
FS	FINISHED SURFACE
FG	FINISHED GROUND
GB	GRADE BREAK
HP	HIGH POINT
TOG	TOP OF GRATE
FF	FINISHED FLOOR
FP	FINISHED PAD



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 www.integrateddesigns.com

Project Name & Address: **NEW ELEMENTARY SCHOOL INCREMENT 2**
 BAKERSFIELD CITY SCHOOL DISTRICT
 @ CITADEL STREET & MARDI GRAS COURT

Sheet Title: **GRADING & DRAINAGE PLAN NORTHWEST QUADRANT**

Revision: **ADDENDUM 6**

Revision Description: **ADDENDUM 6**

Rev. Date: 09-14-18

Rev. By: XXX

Rev. Check: XXX

Agency Approval Stamp:

FILE # 15-6
 IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 OFFICE OF REGULATION SERVICES
 03-118394
 AC SC FLS S LSS TN
 DATE 12/20/18
 TRACKING #: 63321-300

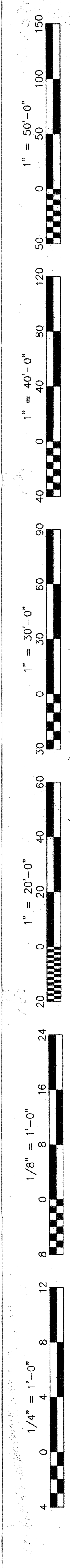
Stamp(s):

Job No.: **5262**

Sheet No.: **C6.02**

Release: - ADDENDUM #6

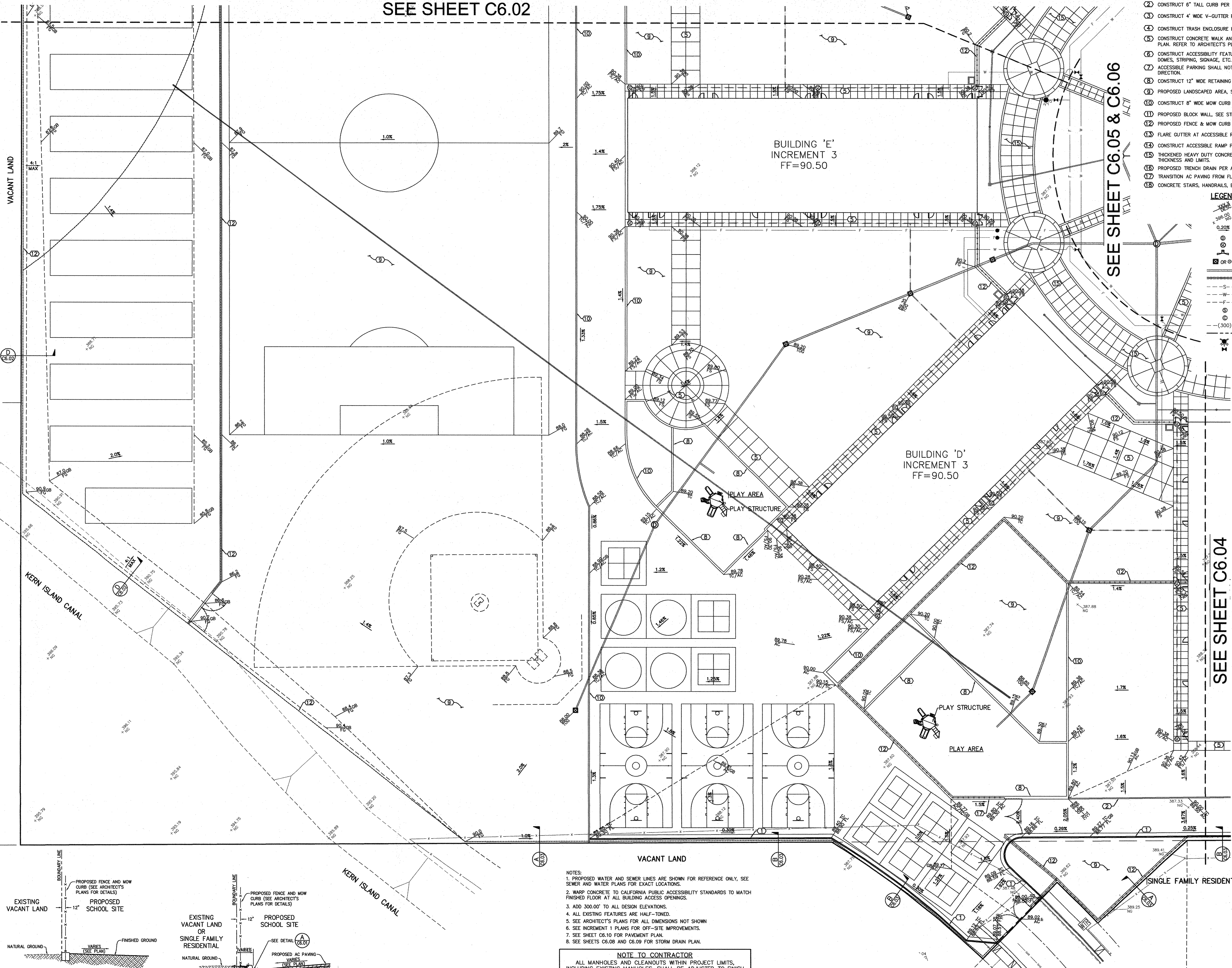
LUIS HINOJOSA



SEE SHEET C6.02

SEE SHEET C6.05 & C6.06

SEE SHEET C6.04



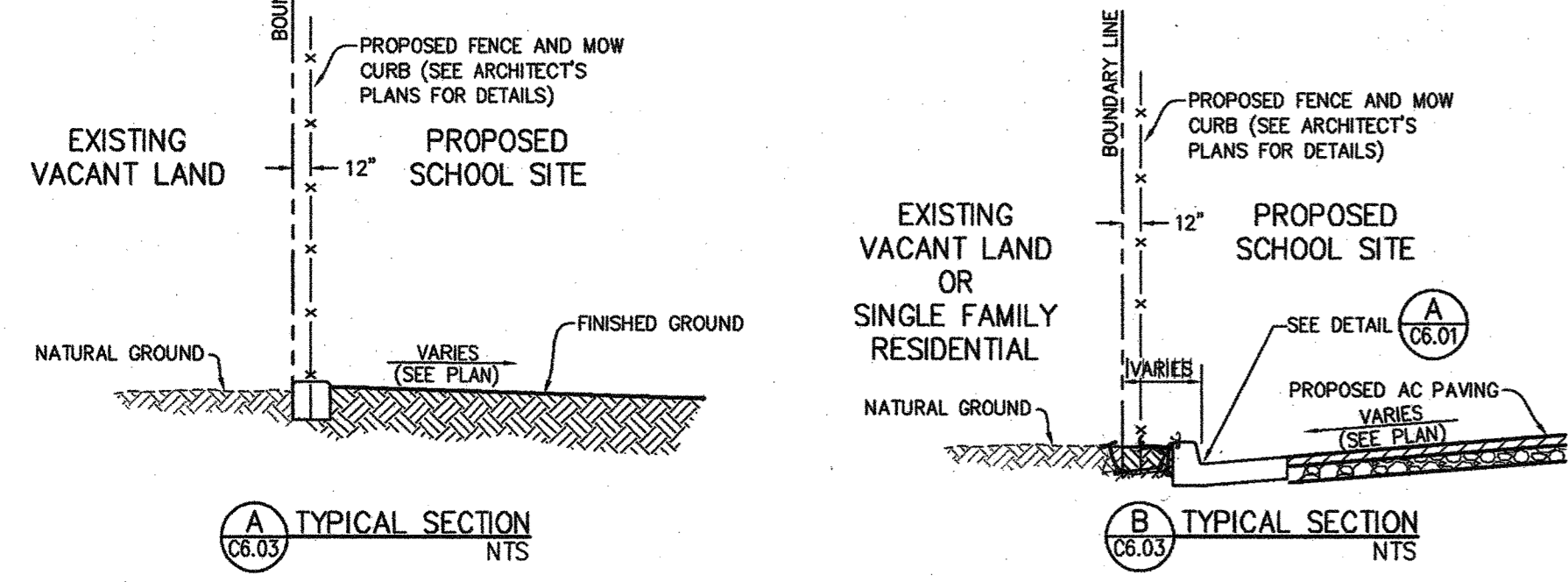
- GRADING CONSTRUCTION NOTES**
- CONSTRUCT 6" CURB AND GUTTER PER DETAIL (C6.07)
 - CONSTRUCT 6" TALL CURB PER DETAIL (C6.07)
 - CONSTRUCT 4" WIDE V-GUTTER PER DETAIL (C6.07)
 - CONSTRUCT TRASH ENCLOSURE PER ARCHITECT'S PLANS
 - CONSTRUCT CONCRETE WALK AND/OR FLAT WORK PER ARCHITECT'S PLAN. REFER TO ARCHITECT'S PLANS FOR DIMENSIONS.
 - CONSTRUCT ACCESSIBILITY FEATURES, ACCESSIBLE CURB RAMP, TRUNCATED DOMES, STRIPING, SIGNAGE, ETC. PER ARCHITECT'S PLANS
 - ACCESSIBLE PARKING SHALL NOT EXCEED 2% MAXIMUM SLOPE IN ANY DIRECTION.
 - CONSTRUCT 12" WIDE RETAINING CURB PER DETAIL (C6.07)
 - PROPOSED LANDSCAPED AREA, SEE LANDSCAPE DRAWINGS.
 - CONSTRUCT 8" WIDE MOW CURB PER DETAIL (C6.07)
 - PROPOSED BLOCK WALL, SEE STRUCTURAL DRAWINGS SHEET S1.07
 - PROPOSED FENCE & MOW CURB PER ARCHITECT'S PLANS.
 - FLARE GUTTER AT ACCESSIBLE ROUTES PER DETAIL (C6.07)
 - CONSTRUCT ACCESSIBLE RAMP PER ARCHITECT'S PLANS.
 - THICKENED HEAVY DUTY CONCRETE SECTION. SEE SHEET C6.10 FOR THICKNESS AND LIMITS.
 - PROPOSED TRENCH DRAIN PER ARCHITECT'S PLANS.
 - TRANSITION AC PAVING FROM FLUSH CURB TO 6" CURB.
 - CONCRETE STAIRS, HANDRAILS, ETC. PER ARCHITECT'S PLANS.

- LEGEND**
- DESIGN ELEVATION
 - EXISTING ELEVATION
 - DESIGN GRADE
 - PROPOSED STORM DRAIN MANHOLE
 - PROPOSED STORM DRAIN CLEANOUT
 - PROPOSED STORM DRAIN CATCH BASIN
 - PROPOSED STORM DRAIN INLET
 - PROPOSED STORM DRAIN MAIN
 - EXISTING STORM DRAIN MAIN
 - PROPOSED SEWER MAIN
 - PROPOSED WATER MAIN
 - PROPOSED FIRE WATER MAIN
 - PROPOSED SEWER MANHOLE
 - PROPOSED SEWER CLEANOUT
 - EXISTING GROUND CONTOUR
 - RIGHT-OF-WAY
 - PROPOSED FIRE HYDRANT
 - PROPOSED WATER VALVE

- ABBREVIATIONS**
- TC= TOP OF CURB
 - FL= FLOWLINE
 - AC= TOP OF ASPHALT
 - FS= FINISHED SURFACE
 - FG= FINISHED GROUND
 - GB= GRADE BREAK
 - HP= HIGH POINT
 - TG= TOP OF GRATE
 - FF= FINISHED FLOOR
 - FP= FINISHED PAD

- NOTES:**
- PROPOSED WATER AND SEWER LINES ARE SHOWN FOR REFERENCE ONLY, SEE SEWER AND WATER PLANS FOR EXACT LOCATIONS.
 - WARP CONCRETE TO CALIFORNIA PUBLIC ACCESSIBILITY STANDARDS TO MATCH FINISHED FLOOR AT ALL BUILDING ACCESS OPENINGS.
 - ADD 300.00' TO ALL DESIGN ELEVATIONS.
 - ALL EXISTING FEATURES ARE HALF-TONED.
 - SEE ARCHITECT'S PLANS FOR ALL DIMENSIONS NOT SHOWN.
 - SEE INCREMENT 1 PLANS FOR OFF-SITE IMPROVEMENTS.
 - SEE SHEET C6.10 FOR PAVEMENT PLAN.
 - SEE SHEETS C6.08 AND C6.09 FOR STORM DRAIN PLAN.

NOTE TO CONTRACTOR
 ALL MANHOLES AND CLEANOUTS WITHIN PROJECT LIMITS, INCLUDING EXISTING MANHOLES, SHALL BE ADJUSTED TO FINISH GRADE IN ACCORDANCE WITH CITY OF BAKERSFIELD STANDARDS. EXISTING MANHOLES MAY REQUIRE REMOVAL OF EXISTING CONE, AND REMOVAL OR "CHANGE OUT" OF BARREL RINGS.



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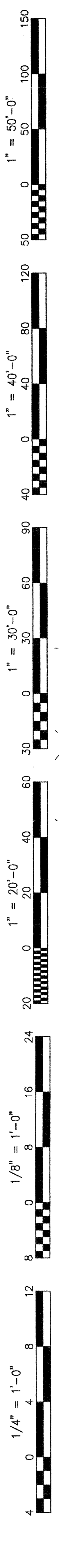
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 Job No.: **5262**
 Sheet No.: **C6.03**
 Release: -
 NATE SLINKARD

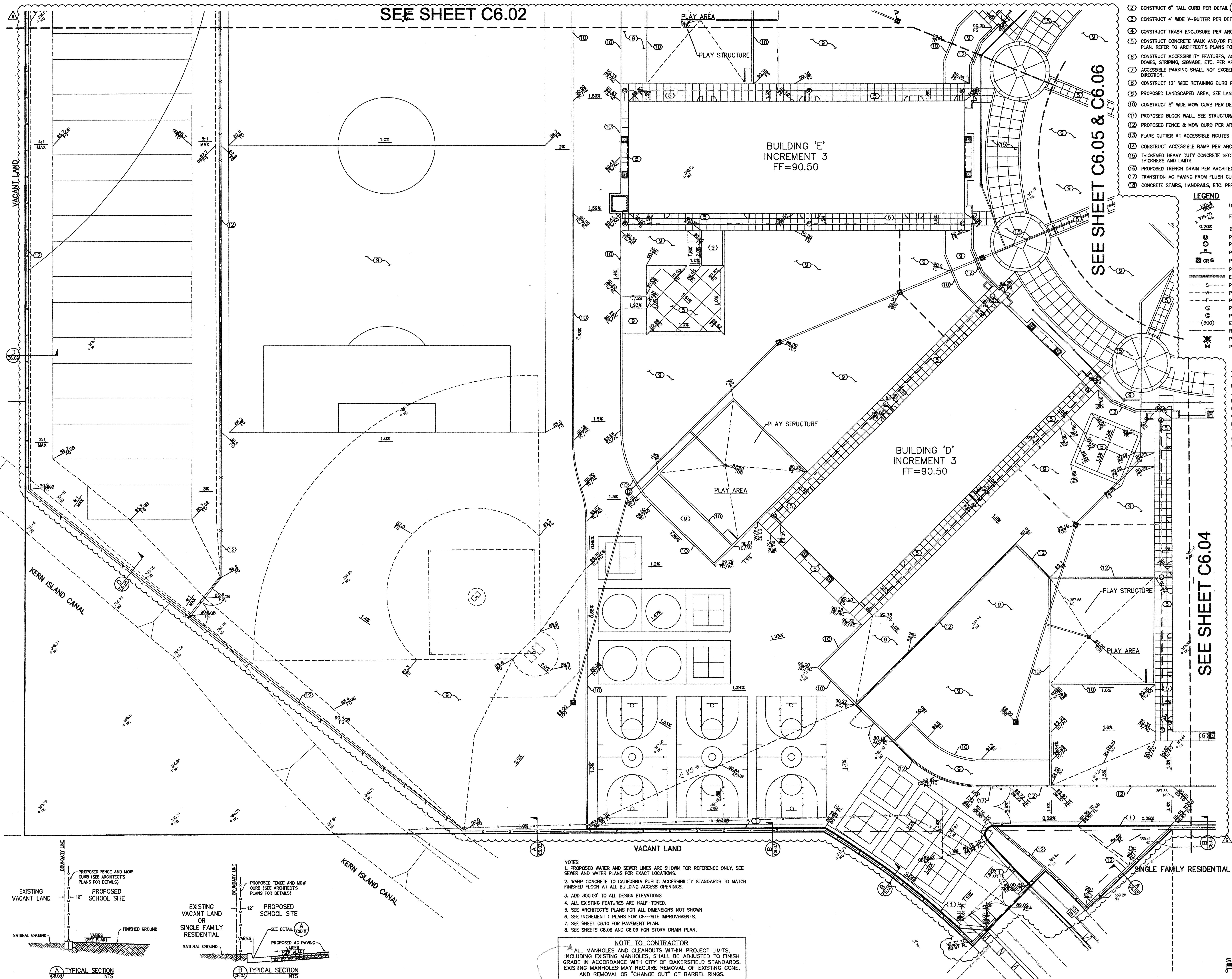
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SEE SHEET C6.02

SEE SHEET C6.05 & C6.06

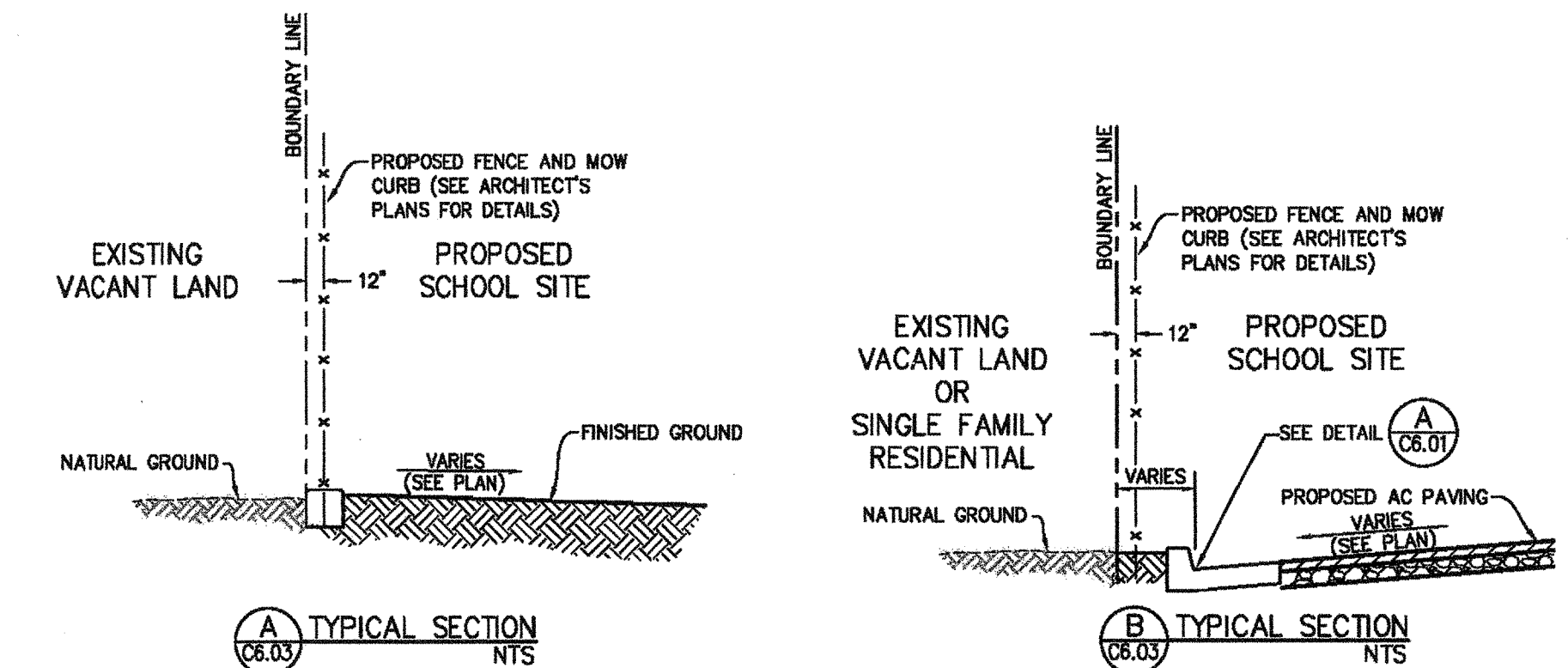
SEE SHEET C6.04



- GRADING CONSTRUCTION NOTES**
- CONSTRUCT 6" CURB AND GUTTER PER DETAIL (C6.01)
 - CONSTRUCT 6" TALL CURB PER DETAIL (C6.02)
 - CONSTRUCT 4" WIDE V-GUTTER PER DETAIL (C6.03)
 - CONSTRUCT TRASH ENCLOSURE PER ARCHITECT'S PLANS
 - CONSTRUCT CONCRETE WALK AND/OR FLAT WORK PER ARCHITECT'S PLAN. REFER TO ARCHITECT'S PLANS FOR DIMENSIONS.
 - CONSTRUCT ACCESSIBILITY FEATURES, ACCESSIBLE CURB RAMP, TRUNCATED DOMES, STRIPING, SIGNAGE, ETC. PER ARCHITECT'S PLANS
 - ACCESSIBLE PARKING SHALL NOT EXCEED 2% MAXIMUM SLOPE IN ANY DIRECTION.
 - CONSTRUCT 12" WIDE RETAINING CURB PER DETAIL (C6.04)
 - PROPOSED LANDSCAPED AREA, SEE LANDSCAPE DRAWINGS.
 - CONSTRUCT 8" WIDE MOW CURB PER DETAIL (C6.05)
 - PROPOSED BLOCK WALL, SEE STRUCTURAL DRAWINGS SHEET S1.07
 - PROPOSED FENCE & MOW CURB PER ARCHITECT'S PLANS.
 - FLARE GUTTER AT ACCESSIBLE ROUTES PER DETAIL (C6.06)
 - CONSTRUCT ACCESSIBLE RAMP PER ARCHITECT'S PLANS.
 - THICKENED HEAVY DUTY CONCRETE SECTION. SEE SHEET C6.10 FOR THICKNESS AND LIMITS.
 - PROPOSED TRENCH DRAIN PER ARCHITECT'S PLANS.
 - TRANSITION AC PAVING FROM FLUSH CURB TO 6" CURB.
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- LEGEND**
- DESIGN ELEVATION
 - EXISTING ELEVATION
 - DESIGN GRADE
 - PROPOSED STORM DRAIN MANHOLE
 - PROPOSED STORM DRAIN CLEANOUT
 - PROPOSED STORM DRAIN INLET
 - PROPOSED STORM DRAIN MAIN
 - EXISTING STORM DRAIN MAIN
 - PROPOSED SEWER MAIN
 - PROPOSED WATER MAIN
 - PROPOSED FIRE WATER MAIN
 - PROPOSED SEWER MANHOLE
 - PROPOSED SEWER CLEANOUT
 - EXISTING GROUND CONTOUR
 - RIGHT-OF-WAY
 - PROPOSED FIRE HYDRANT
 - PROPOSED WATER VALVE

- ABBREVIATIONS**
- TC= TOP OF CURB
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 - FS= FINISHED SURFACE
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- NOTES:**
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 - WARP CONCRETE TO CALIFORNIA PUBLIC ACCESSIBILITY STANDARDS TO MATCH FINISHED FLOOR AT ALL BUILDING ACCESS OPENINGS.
 - ADD 300.00' TO ALL DESIGN ELEVATIONS.
 - ALL EXISTING FEATURES ARE HALF-TONED.
 - SEE ARCHITECT'S PLANS FOR ALL DIMENSIONS NOT SHOWN.
 - SEE INCREMENT 1 PLANS FOR OFF-SITE IMPROVEMENTS.
 - SEE SHEET C6.10 FOR PAVEMENT PLAN.
 - SEE SHEETS C6.08 AND C6.09 FOR STORM DRAIN PLAN.

NOTE TO CONTRACTOR

ALL MANHOLES AND CLEANOUTS WITHIN PROJECT LIMITS, INCLUDING EXISTING MANHOLES, SHALL BE ADJUSTED TO FINISH GRADE IN ACCORDANCE WITH CITY OF BAKERSFIELD STANDARDS. EXISTING MANHOLES MAY REQUIRE REMOVAL OF EXISTING CONE, AND REMOVAL OR "CHANGE OUT" OF BARREL RINGS.

JR1210: The sewer manhole inverts are the same on SE HWY 99.12 and NW Invert 80.12. There should be a tenth of a difference between both. Please advise.

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Project Name & Address: **NEW ELEMENTARY SCHOOL 2 INCREMENT 2**
 BAKERSFIELD CITY SCHOOL DISTRICT
 @ CITADEL STREET & MARDI GRAS COURT

Sheet Title: **GRADING & DRAINAGE PLAN SOUTHWEST QUADRANT**

Scale: 1" = 20'-0"

Revision Description: ADDENDUM 6

Revision: A

Revision Date: 03-14-18

Agency Approval Stamp:
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 EXPIRES 8-31-19

Job No.: **5262**

Sheet No.: **C6.03**
 Release: ADDENDUM #6

LUIS HINOJOSA

GRADING CONSTRUCTION NOTES

1. CONSTRUCT 6" CURB AND GUTTER PER DETAIL (A) (C6.07)
2. CONSTRUCT 6" TALL CURB PER DETAIL (B) (C6.07)
3. CONSTRUCT 4" WIDE V-GUTTER PER DETAIL (C) (C6.07)
4. CONSTRUCT TRASH ENCLOSURE PER ARCHITECT'S PLANS
5. CONSTRUCT CONCRETE WALK AND/OR FLAT WORK PER ARCHITECT'S PLAN. REFER TO ARCHITECT'S PLANS FOR DIMENSIONS.
6. CONSTRUCT ACCESSIBILITY FEATURES, ACCESSIBLE CURB RAMP, TRUNCATED DOMES, STRIPING, SIGNAGE, ETC. PER ARCHITECT'S PLANS
7. ACCESSIBLE PARKING SHALL NOT EXCEED 2% MAXIMUM SLOPE IN ANY DIRECTION.
8. CONSTRUCT 12" WIDE RETAINING CURB PER DETAIL (E) (C6.07)
9. PROPOSED LANDSCAPED AREA, SEE LANDSCAPE DRAWINGS.
10. CONSTRUCT 8" WIDE MOW CURB PER DETAIL (D) (C6.07)
11. PROPOSED BLOCK WALL, SEE STRUCTURAL DRAWINGS SHEET S1.07
12. PROPOSED FENCE & MOW CURB PER ARCHITECT'S PLANS.
13. FLARE GUTTER AT ACCESSIBLE ROUTES PER DETAIL (G) (C6.07)
14. CONSTRUCT ACCESSIBLE RAMP PER ARCHITECT'S PLANS.
15. THICKENED HEAVY DUTY CONCRETE SECTION. SEE SHEET C6.10 FOR THICKNESS AND LIMITS.
16. PROPOSED TRENCH DRAIN PER ARCHITECT'S PLANS.
17. TRANSITION AC PAVING FROM FLUSH CURB TO 6" CURB.
18. CONCRETE STAIRS, HANDRAILS, ETC. PER ARCHITECT'S PLANS.

- NOTES:
1. PROPOSED WATER AND SEWER LINES ARE SHOWN FOR REFERENCE ONLY. SEE SEWER AND WATER PLANS FOR EXACT LOCATIONS.
 2. WARP CONCRETE TO CALIFORNIA PUBLIC ACCESSIBILITY STANDARDS TO MATCH FINISHED FLOOR AT ALL BUILDING ACCESS OPENINGS.
 3. ADD 300.00' TO ALL DESIGN ELEVATIONS.
 4. ALL EXISTING FEATURES ARE HALF-TONED.
 5. SEE ARCHITECT'S PLANS FOR ALL DIMENSIONS NOT SHOWN.
 6. SEE INCREMENT 1 PLANS FOR OFF-SITE IMPROVEMENTS.
 7. SEE SHEET C6.10 FOR PAVEMENT PLAN.
 8. SEE SHEETS C6.08 AND C6.09 FOR STORM DRAIN PLAN.

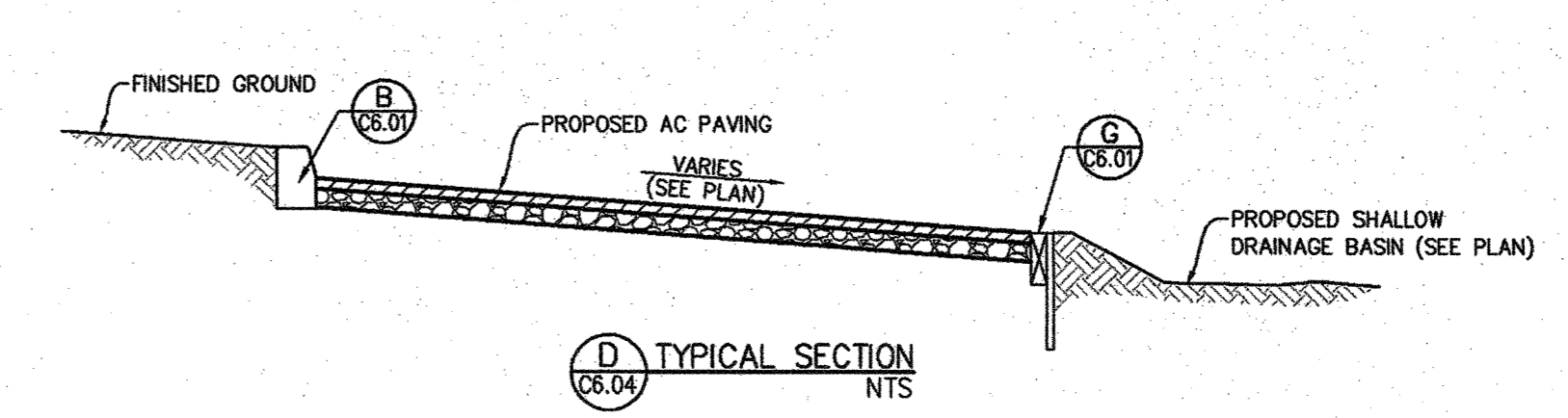
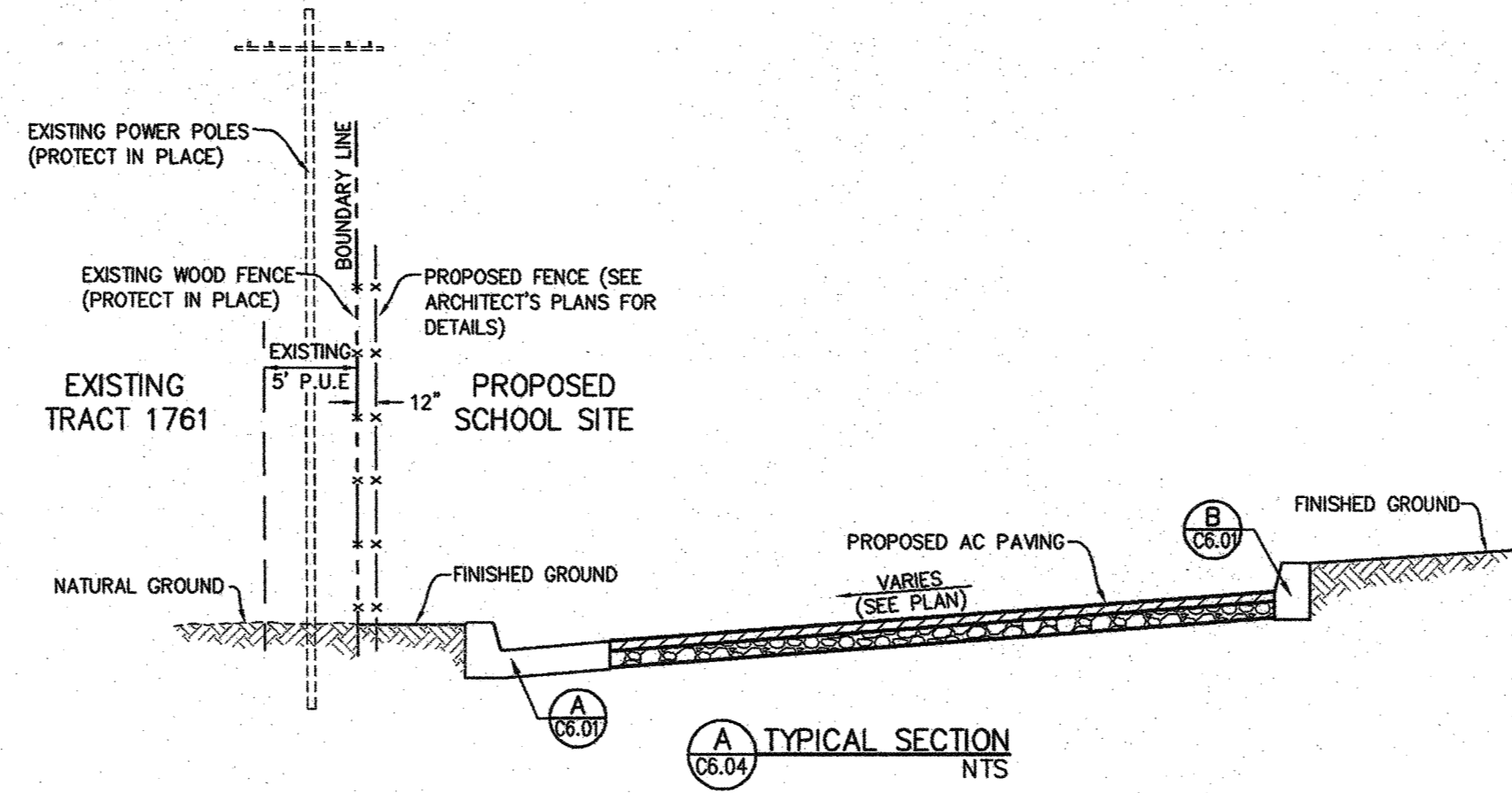
NOTE TO CONTRACTOR
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LEGEND

- DESIGN ELEVATION
- EXISTING ELEVATION
- DESIGN GRADE
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED STORM DRAIN CLEANOUT
- PROPOSED STORM DRAIN CATCH BASIN
- PROPOSED STORM DRAIN INLET
- PROPOSED STORM DRAIN MAIN
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- PROPOSED WATER MAIN
- PROPOSED FIRE WATER MAIN
- PROPOSED SEWER MANHOLE
- PROPOSED SEWER CLEANOUT
- EXISTING GROUND CONTOUR
- RIGHT-OF-WAY
- PROPOSED FIRE HYDRANT
- PROPOSED WATER VALVE

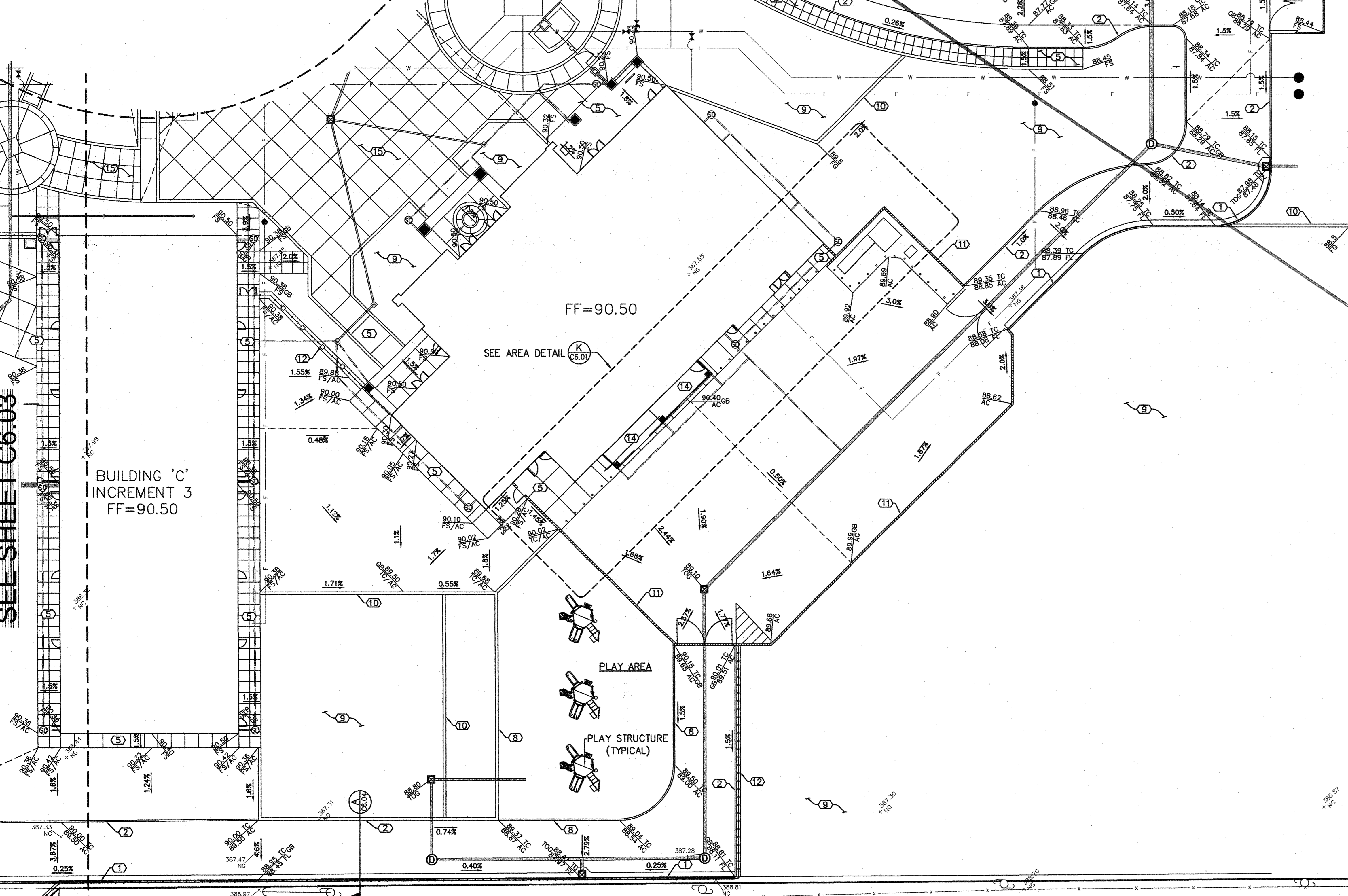
ABBREVIATIONS

- TC= TOP OF CURB
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- TOG= TOP OF GRATE
- FF= FINISHED FLOOR
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SEE SHEET C6.05 & C6.06

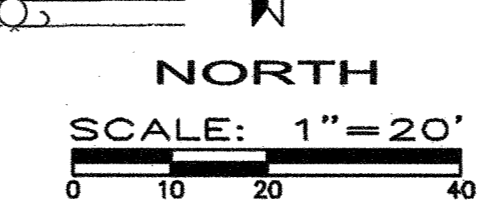
SEE SHEET C6.07



SEE SHEET C6.03

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GRADING & DRAINAGE PLAN
 SOUTHEAST QUADRANT
NEW ELEMENTARY SCHOOL INCREMENT 2
 BAKERSFIELD CITY SCHOOL DISTRICT
 @ CITADEL STREET & WARD/GRAS COURT

Issue Date: XXXX
 Date: 7/31/2018
 Designer: [Signature]
 Checker: [Signature]
 P.C. XXX

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 DATED 8-2-18
 TRACKING #: 63321-300

Stamp(s):

Job No.: **5262**
 Sheet No.: **C6.04**
 Release: -
 NATE SLINKARD

GRADING CONSTRUCTION NOTES

- (1) CONSTRUCT 6" CURB AND GUTTER PER DETAIL (C6.03)
- (2) CONSTRUCT 6" TALL CURB PER DETAIL (C6.07)
- (3) CONSTRUCT 4" WIDE V-GUTTER PER DETAIL (C6.07)
- (4) CONSTRUCT TRASH ENCLOSURE PER ARCHITECT'S PLANS
- (5) CONSTRUCT CONCRETE WALK AND/OR FLAT WORK PER ARCHITECT'S PLAN. REFER TO ARCHITECT'S PLANS FOR DIMENSIONS.
- (6) CONSTRUCT ACCESSIBILITY FEATURES, ACCESSIBLE CURB RAMP, TRUNCATED DOMES, STRIPING, SIGNAGE, ETC. PER ARCHITECT'S PLANS
- (7) ACCESSIBLE PARKING SHALL NOT EXCEED 2% MAXIMUM SLOPE IN ANY DIRECTION.
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- (9) PROPOSED LANDSCAPED AREA, SEE LANDSCAPE DRAWINGS.
- (10) CONSTRUCT 6" WIDE MOW CURB PER DETAIL (C6.07)
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- (13) FLARE GUTTER AT ACCESSIBLE ROUTES PER DETAIL (C6.07)
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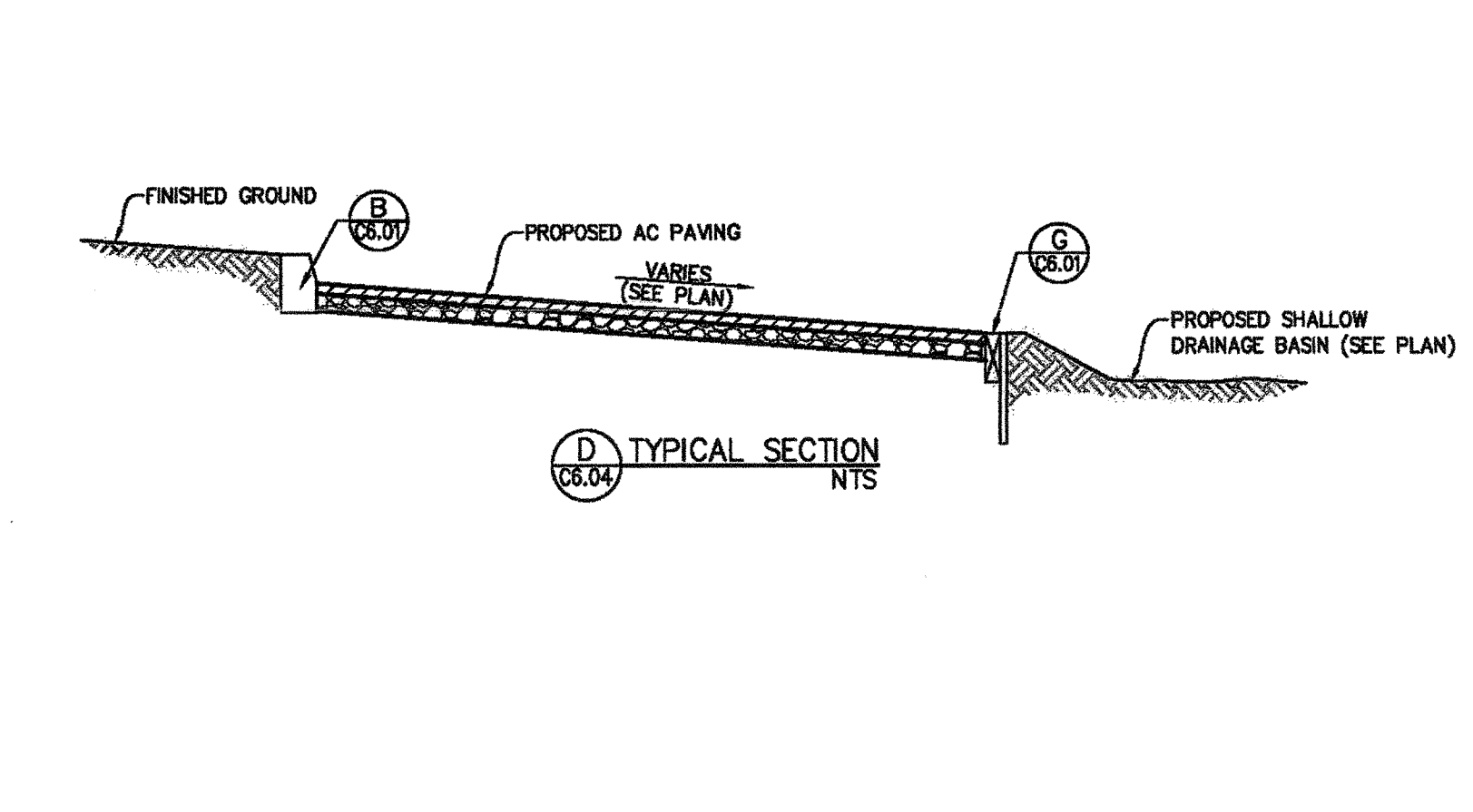
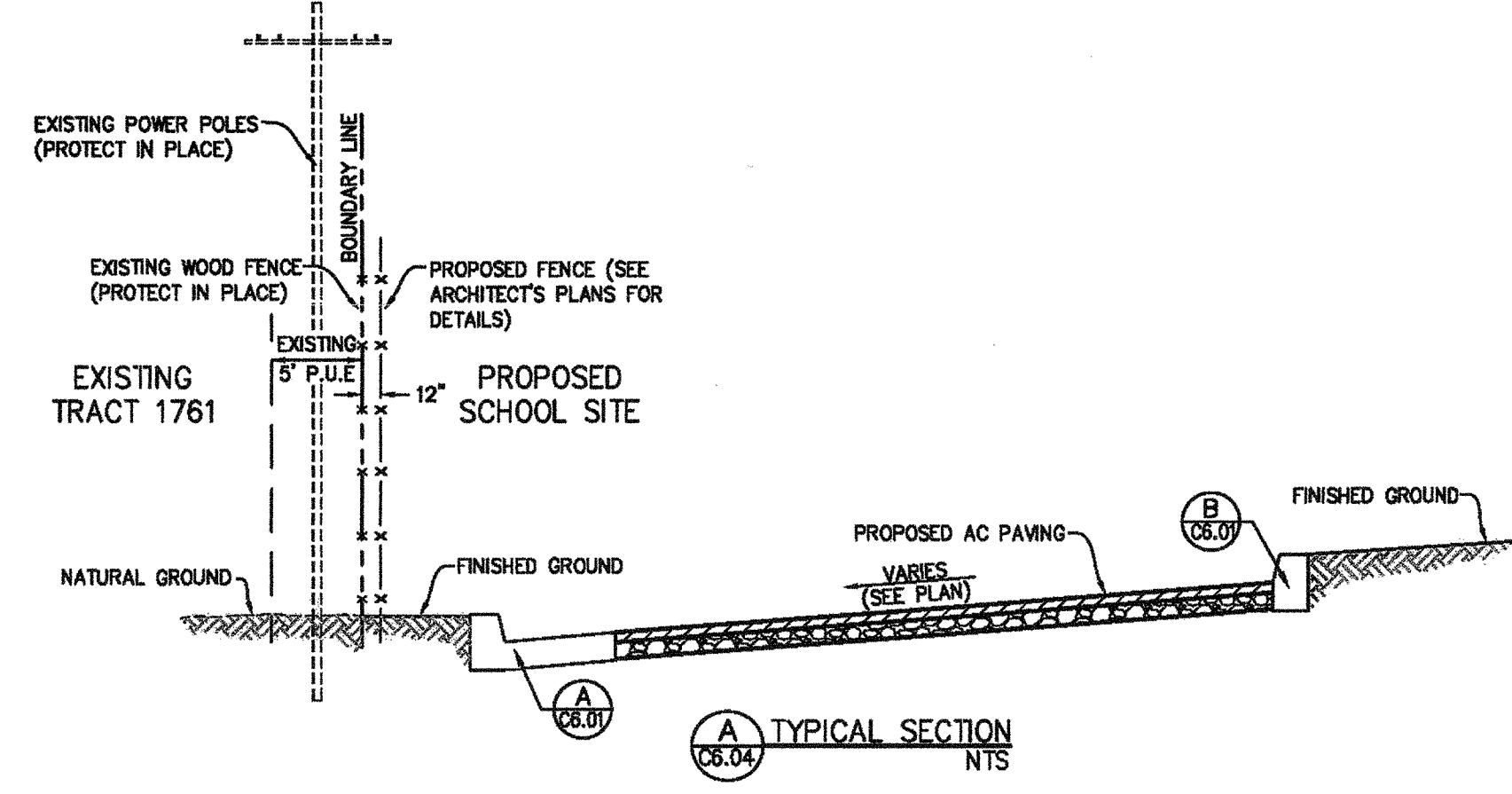
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LEGEND

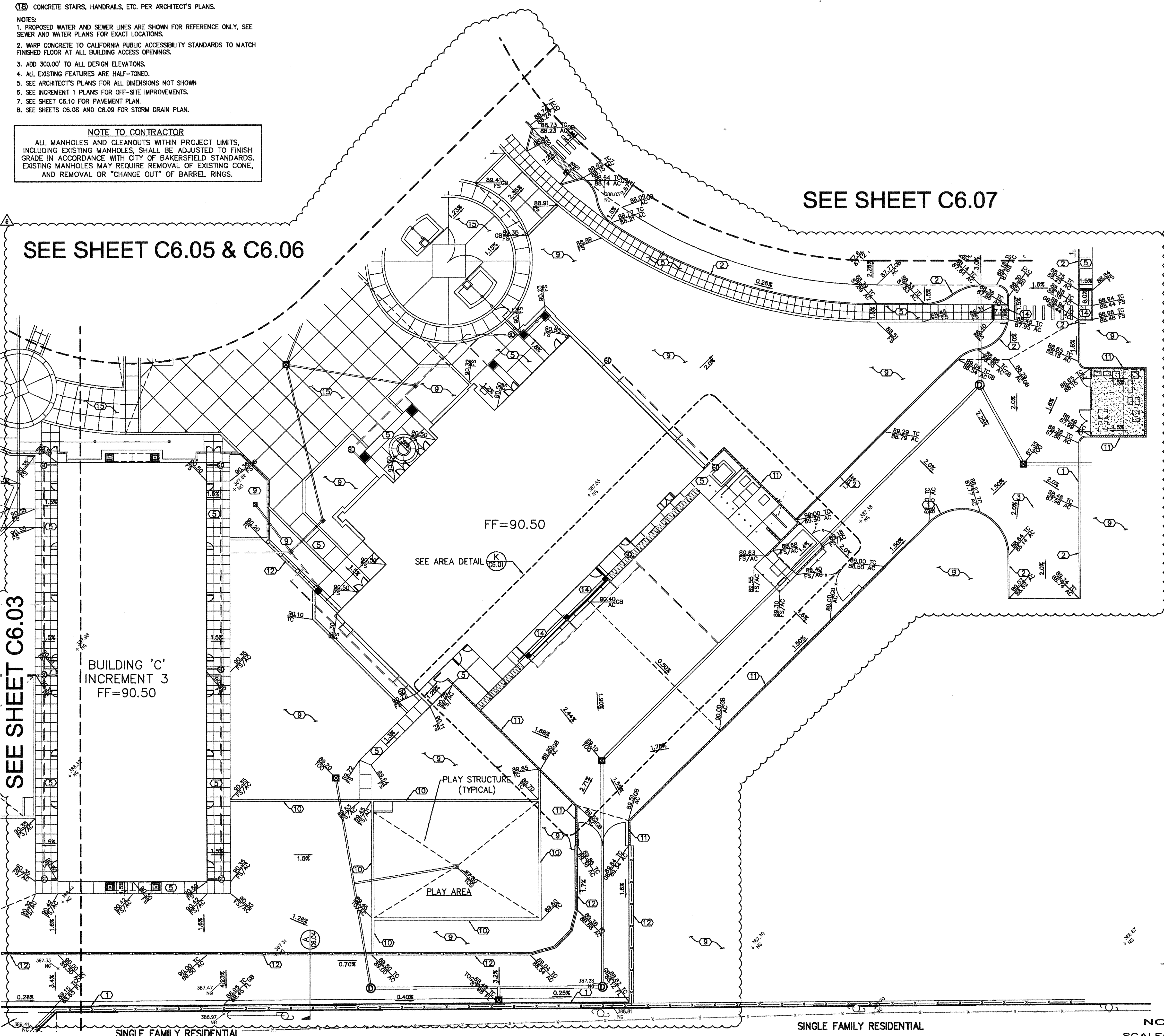
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- PROPOSED STORM DRAIN MAIN
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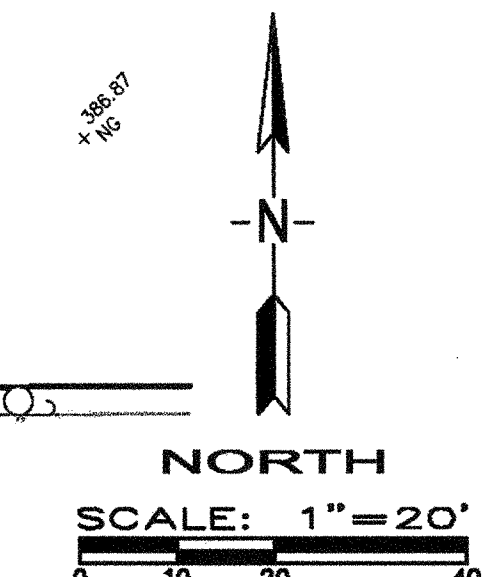
1" = 50'-0"
 1" = 40'-0"
 1" = 30'-0"
 1" = 20'-0"
 1/8" = 1'-0"
 1/4" = 1'-0"



SEE SHEET C6.07

SEE SHEET C6.05 & C6.06

SEE SHEET C6.03



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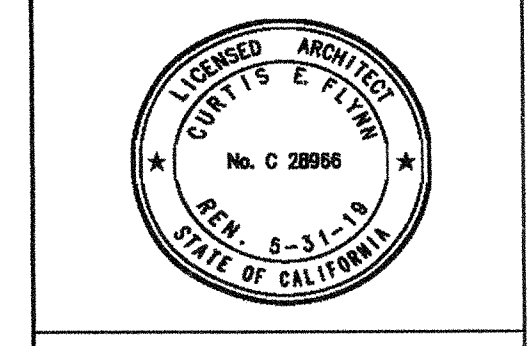
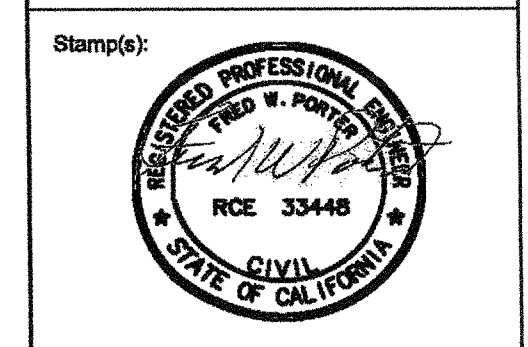
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GRADING & DRAINAGE PLAN
 SOUTHEAST QUADRANT
NEW ELEMENTARY SCHOOL INCREMENT 2
 BAKERSFIELD CITY SCHOOL DISTRICT
 @ CITADEL STREET & MARDI GRAS COURT

Sheet Title: GRADING & DRAINAGE PLAN SOUTHEAST QUADRANT NEW ELEMENTARY SCHOOL INCREMENT 2 BAKERSFIELD CITY SCHOOL DISTRICT @ CITADEL STREET & MARDI GRAS COURT
 Name: XXX
 Date: 09-14-18
 Design: DR
 PE: XXX

Agency Approval Stamp:
 FILE # 15-6
 IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 OFFICE OF REGULATION SERVICES
 03-118394
 AC: FLS, SH, SSTN
 DATE: 12/20/18
 TRACKING #: 63321-300



Job No: **5262**
 Sheet No: **C6.04**
 Release: - ADDENDUM #6

GRADING CONSTRUCTION NOTES

1. CONSTRUCT 6" CURB AND GUTTER PER DETAIL (A 06.07)
2. CONSTRUCT 6" TALL CURB PER DETAIL (B 06.07)
3. CONSTRUCT 4" WIDE V-GUTTER PER DETAIL (C 06.07)
4. CONSTRUCT TRASH ENCLOSURE PER ARCHITECT'S PLANS
5. CONSTRUCT CONCRETE WALK AND/OR FLAT WORK PER ARCHITECT'S PLAN. REFER TO ARCHITECT'S PLANS FOR DIMENSIONS.
6. CONSTRUCT ACCESSIBILITY FEATURES, ACCESSIBLE CURB RAMP, TRUNCATED DOMES, STRIPING, SIGNAGE, ETC. PER ARCHITECT'S PLANS
7. ACCESSIBLE PARKING SHALL NOT EXCEED 2% MAXIMUM SLOPE IN ANY DIRECTION.
8. CONSTRUCT 12" WIDE RETAINING CURB PER DETAIL (E 06.07)
9. PROPOSED LANDSCAPED AREA, SEE LANDSCAPE DRAWINGS.
10. CONSTRUCT 6" WIDE MOW CURB PER DETAIL (F 06.07)
11. PROPOSED BLOCK WALL, SEE STRUCTURAL DRAWINGS SHEET S1.07
12. PROPOSED FENCE & MOW CURB PER ARCHITECT'S PLANS.
13. FLARE GUTTER AT ACCESSIBLE ROUTES PER DETAIL (D 06.07)
14. CONSTRUCT ACCESSIBLE RAMP PER ARCHITECT'S PLANS.
15. THICKENED HEAVY DUTY CONCRETE SECTION. SEE SHEET C6.10 FOR THICKNESS AND LIMITS.
16. PROPOSED TRENCH DRAIN PER ARCHITECT'S PLANS.
17. TRANSITION AC PAVING FROM FLUSH CURB TO 6" CURB.
18. CONCRETE STAIRS, HANDRAILS, ETC. PER ARCHITECT'S PLANS.

- NOTES:**
1. PROPOSED WATER AND SEWER LINES ARE SHOWN FOR REFERENCE ONLY, SEE SEWER AND WATER PLANS FOR EXACT LOCATIONS.
 2. WARP CONCRETE TO CALIFORNIA PUBLIC ACCESSIBILITY STANDARDS TO MATCH FINISHED FLOOR AT ALL BUILDING ACCESS OPENINGS.
 3. ADD 300.00' TO ALL DESIGN ELEVATIONS.
 4. ALL EXISTING FEATURES ARE HALF-TONED.
 5. SEE ARCHITECT'S PLANS FOR ALL DIMENSIONS NOT SHOWN.
 6. SEE INCREMENT 1 PLANS FOR OFF-SITE IMPROVEMENTS.
 7. SEE SHEET C6.10 FOR PAVEMENT PLAN.
 8. SEE SHEETS C6.08 AND C6.09 FOR STORM DRAIN PLAN.

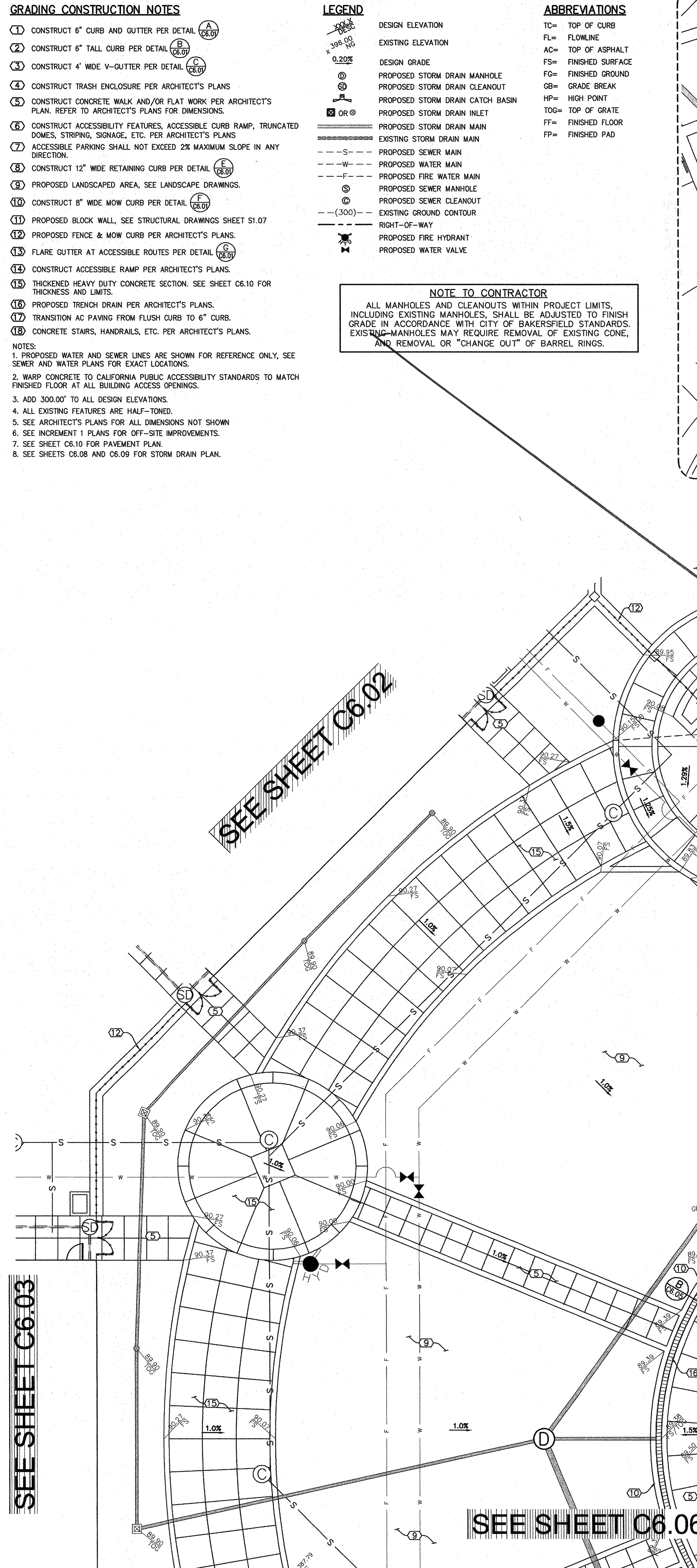
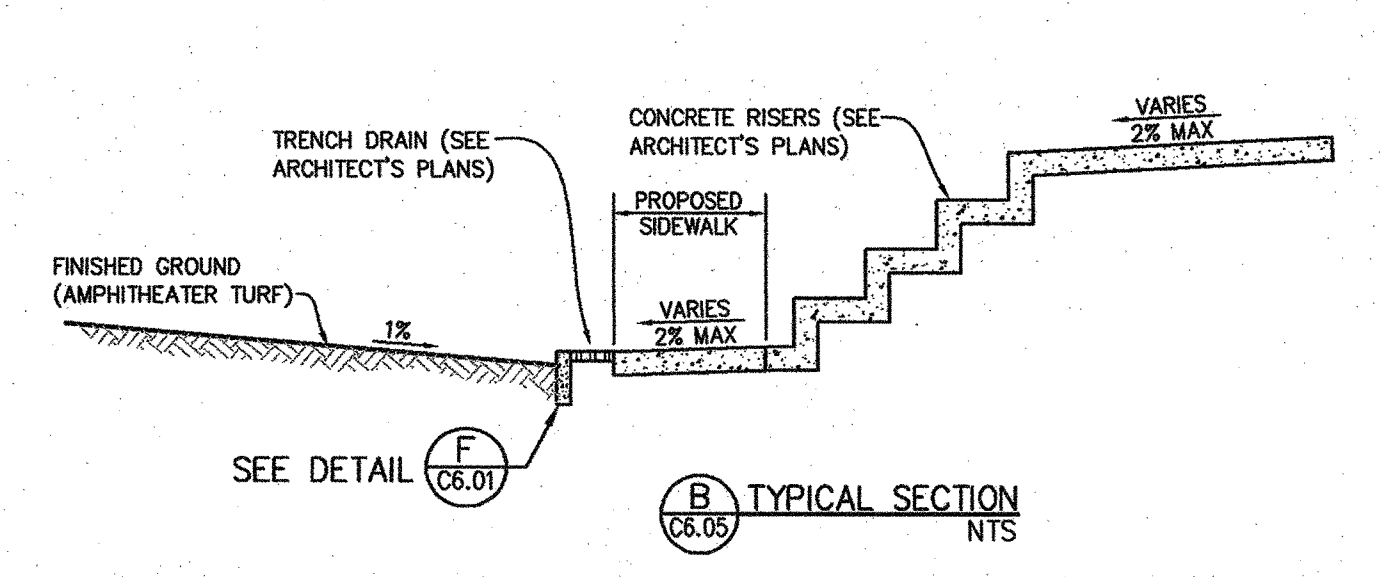
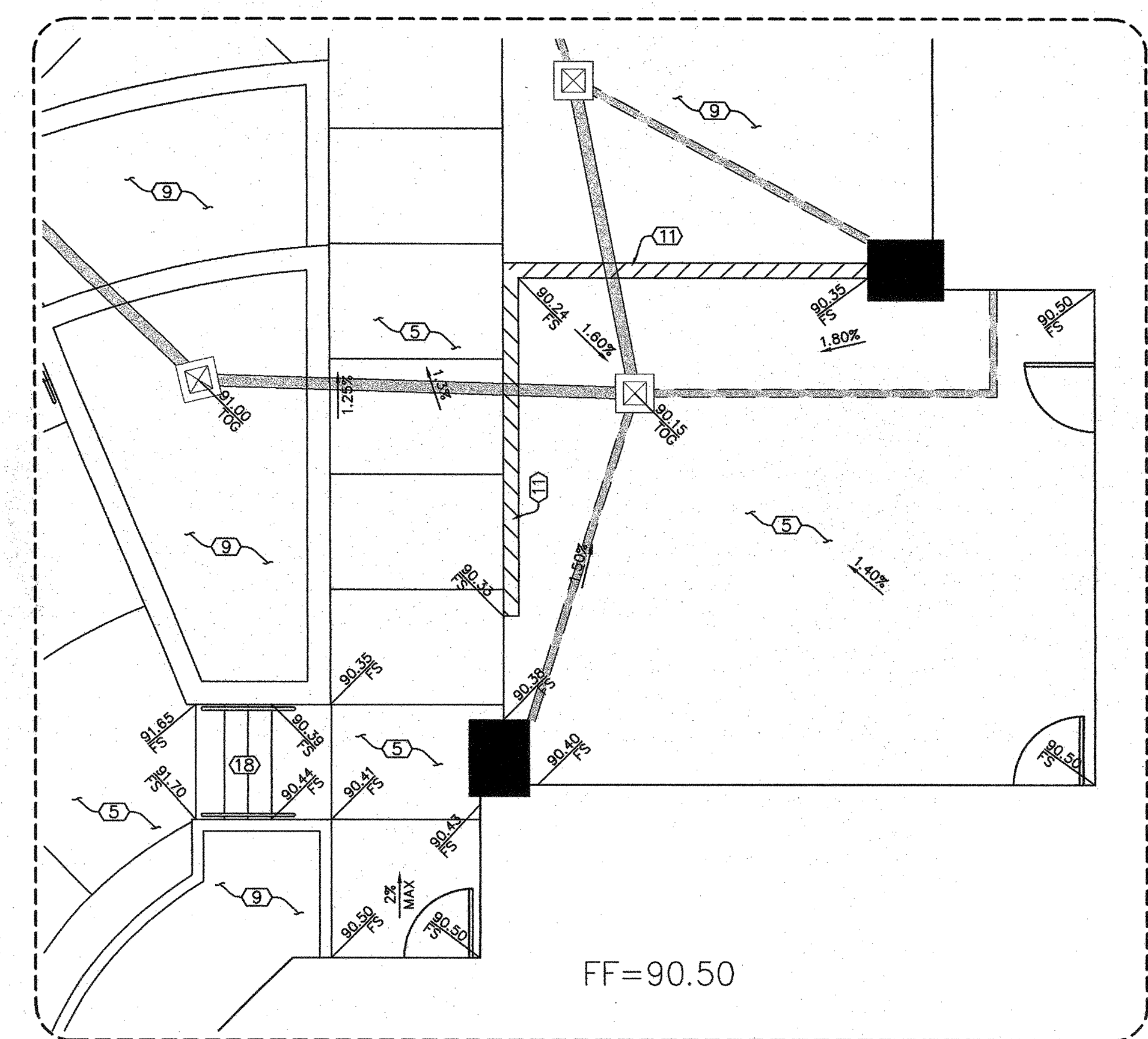
LEGEND

- DESIGN ELEVATION
- EXISTING ELEVATION
- DESIGN GRADE
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED STORM DRAIN CLEANOUT
- PROPOSED STORM DRAIN CATCH BASIN
- PROPOSED STORM DRAIN INLET
- PROPOSED STORM DRAIN MAIN
- EXISTING STORM DRAIN MAIN
- PROPOSED SEWER MAIN
- PROPOSED WATER MAIN
- PROPOSED FIRE WATER MAIN
- PROPOSED SEWER MANHOLE
- PROPOSED SEWER CLEANOUT
- EXISTING GROUND CONTOUR
- RIGHT-OF-WAY
- PROPOSED FIRE HYDRANT
- PROPOSED WATER VALVE

ABBREVIATIONS

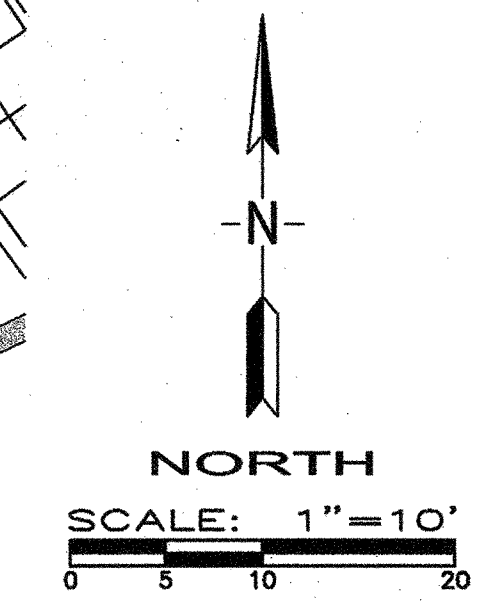
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SEE SHEET C6.07

SEE SHEET C6.07



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 ARCHITECTURE • ENGINEERING • INTERIOR DESIGN • CONSTRUCTION MANAGEMENT

1200 21st Street, Bakersfield, California 93301
 661.327.0382 FAX 661.327.1065

Project Name & Address: **GRADING-DRAINAGE ADMINISTRATION-LIBRARY NORTH HALF NEW ELEMENTARY SCHOOL INCREMENT 2**
 BAKERSFIELD CITY SCHOOL DISTRICT @ CITADEL STREET & WARDI GRAS COURT

Issue Date: XXX / 31 / 2018
 Date: 1/31/2018
 Designer: [Signature]
 Title: [Signature]

Agency Approval Stamp:
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 DIV. OF THE STATE ARCHITECT
 OFFICE OF REGULATION SERVICES
 03-118394
 AC: [Signature] FLS: [Signature] SS: [Signature]
 DATE: 06-22-18
 TRACKING #: 63321-300

Stamp(s):
 [Professional Engineer Seal: NATE SLINKARD, CIVIL, STATE OF CALIFORNIA, RCE 74055]
 [Professional Architect Seal: NATE SLINKARD, ARCHITECT, STATE OF CALIFORNIA, No. C 22, 5-11-11]

Job No.: **5262**
 Sheet No.: **C6.05**
 Release: -
 NATE SLINKARD

GRADING CONSTRUCTION NOTES

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9. PROPOSED LANDSCAPED AREA, SEE LANDSCAPE DRAWINGS.
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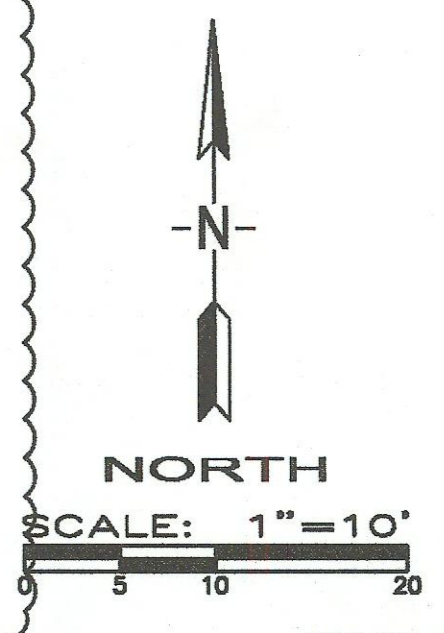
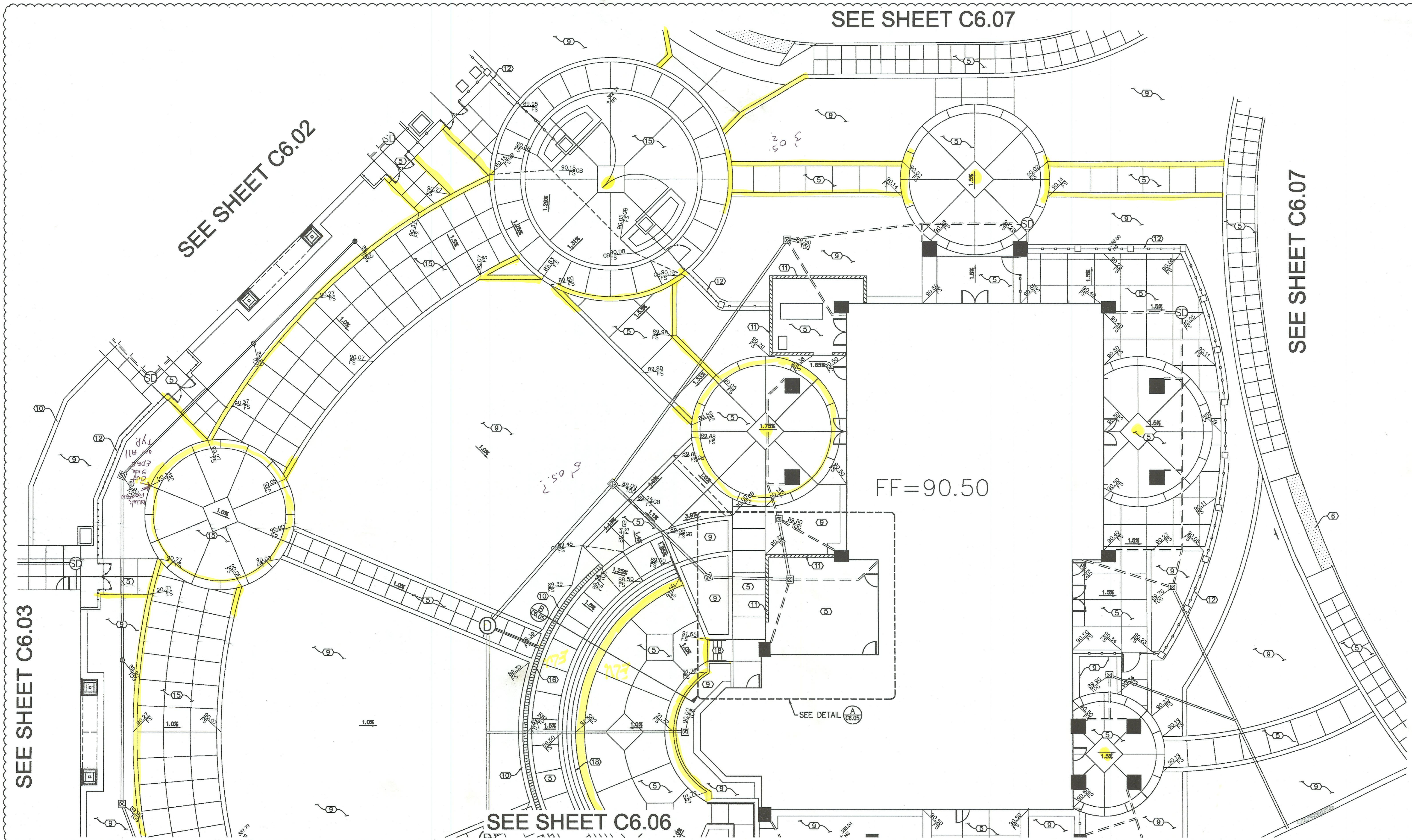
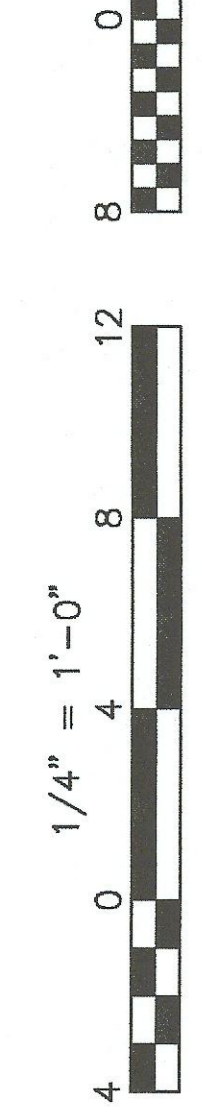
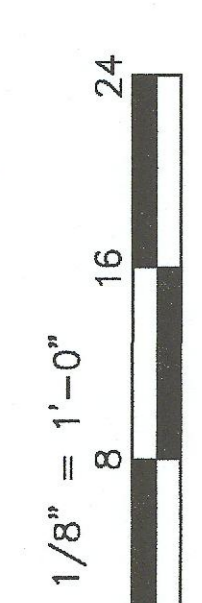
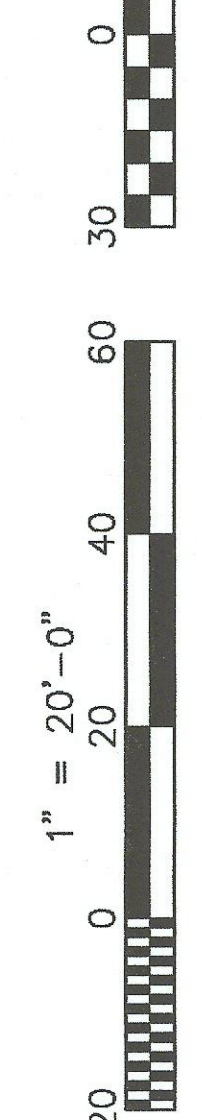
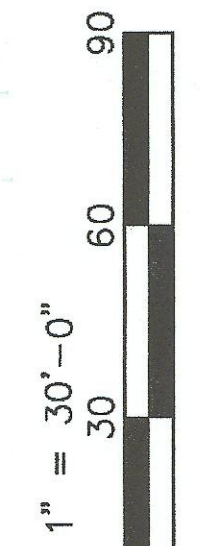
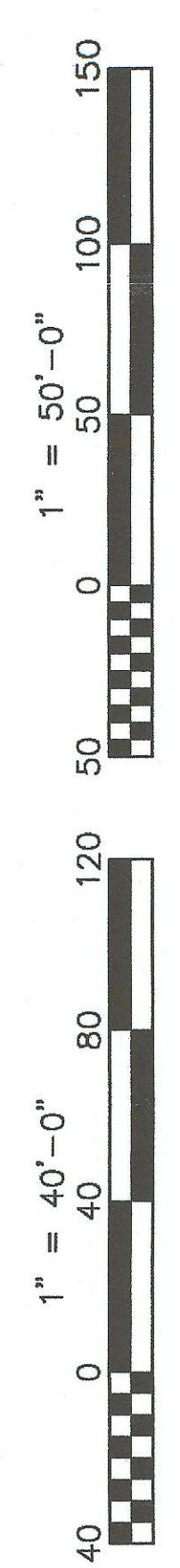
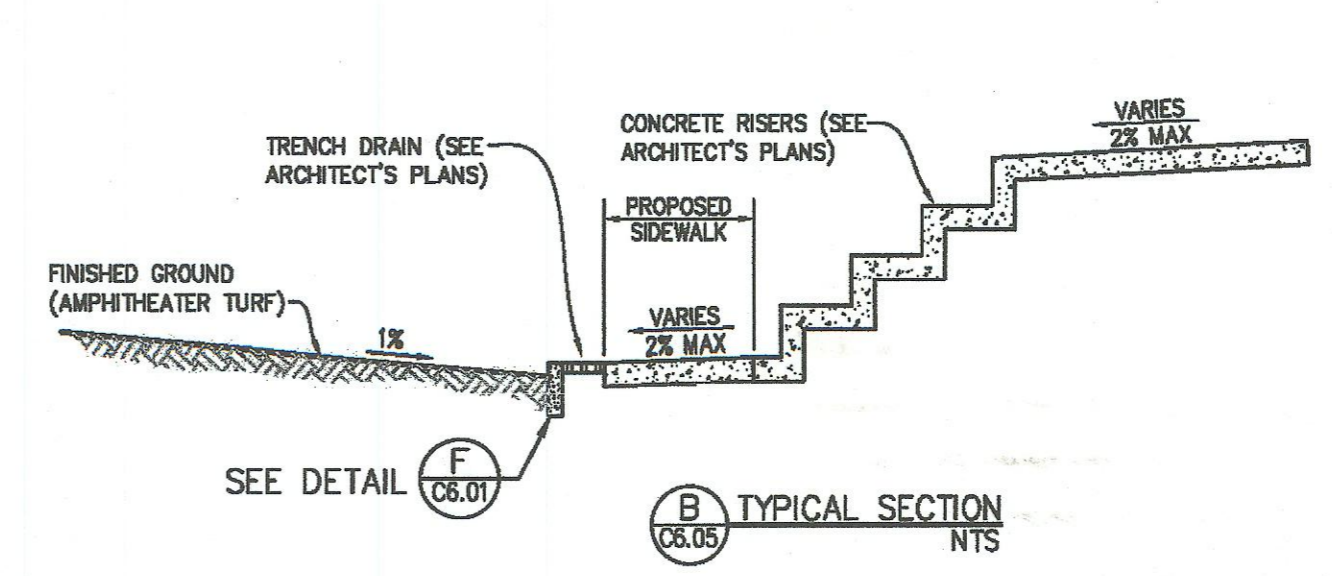
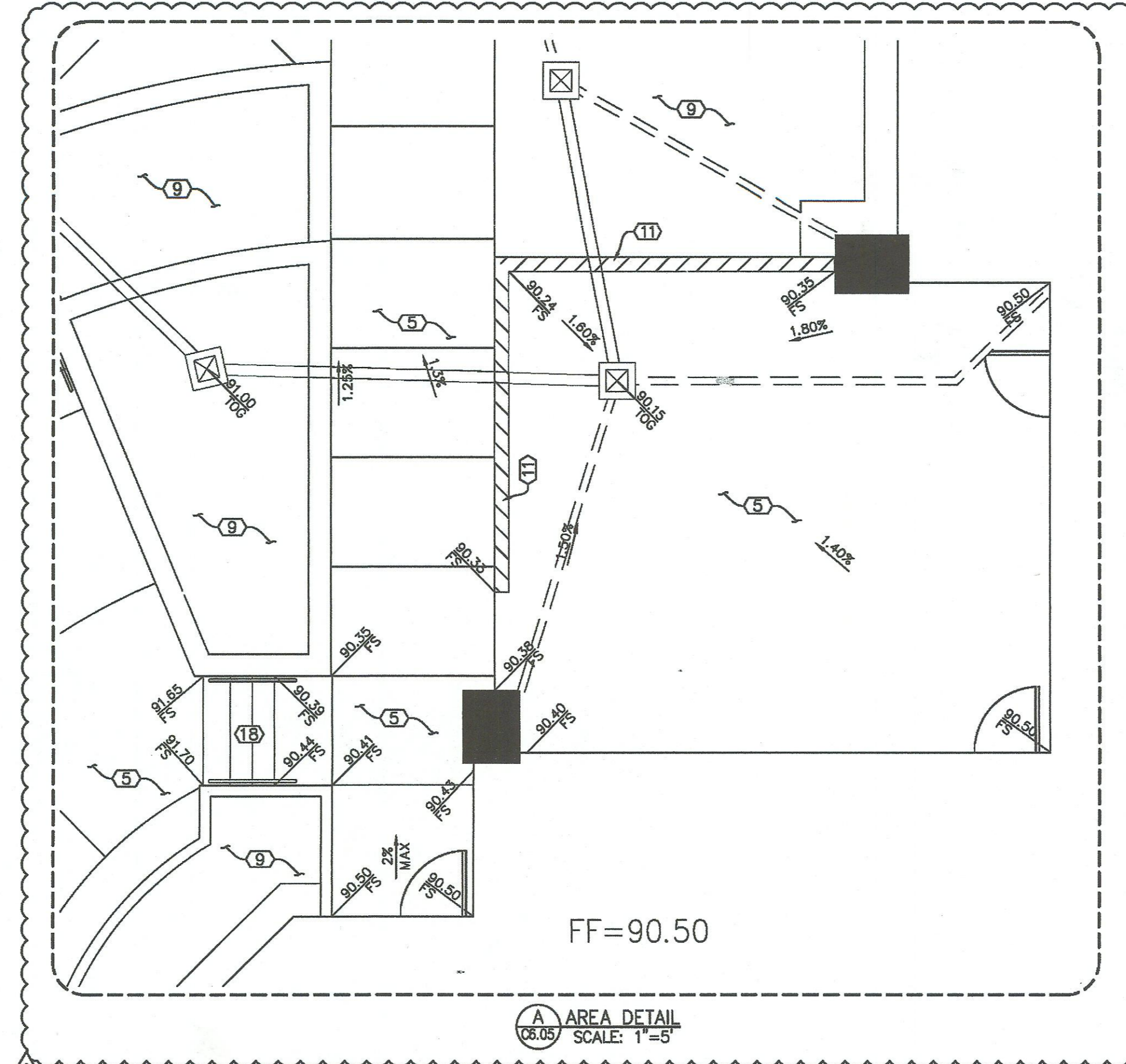
LEGEND

- DESIGN ELEVATION
- EXISTING ELEVATION
- DESIGN GRADE
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED STORM DRAIN CLEANOUT
- PROPOSED STORM DRAIN CATCH BASIN
- PROPOSED STORM DRAIN INLET
- PROPOSED STORM DRAIN MAIN
- EXISTING STORM DRAIN MAIN
- PROPOSED SEWER MAIN
- PROPOSED WATER MAIN
- PROPOSED FIRE WATER MAIN
- PROPOSED SEWER MANHOLE
- PROPOSED SEWER CLEANOUT
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- PROPOSED FIRE HYDRANT
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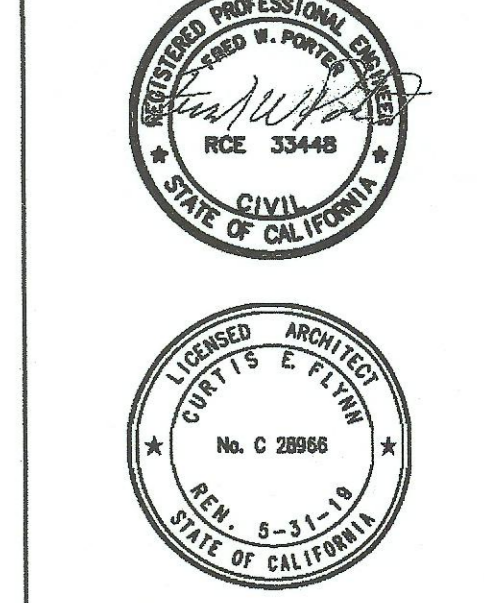
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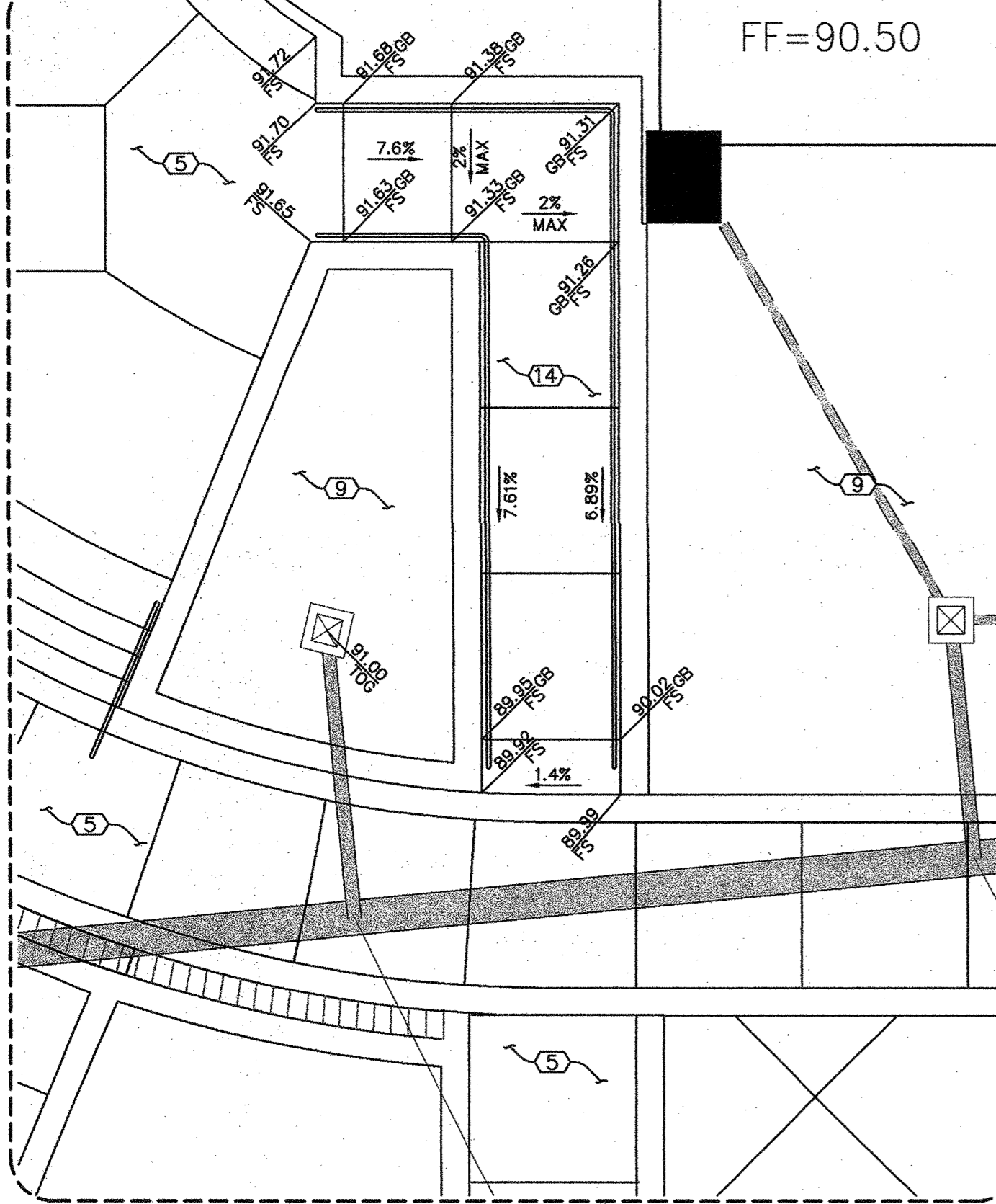
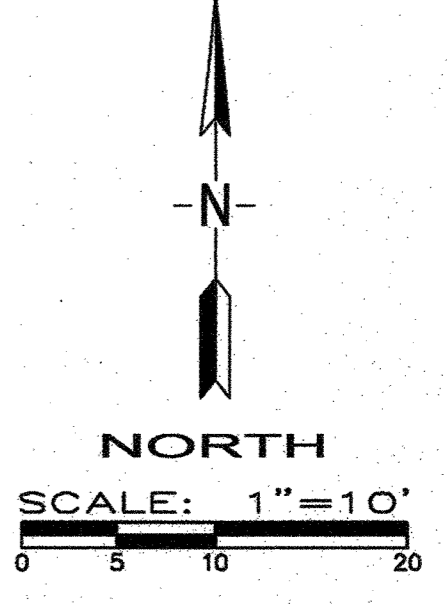
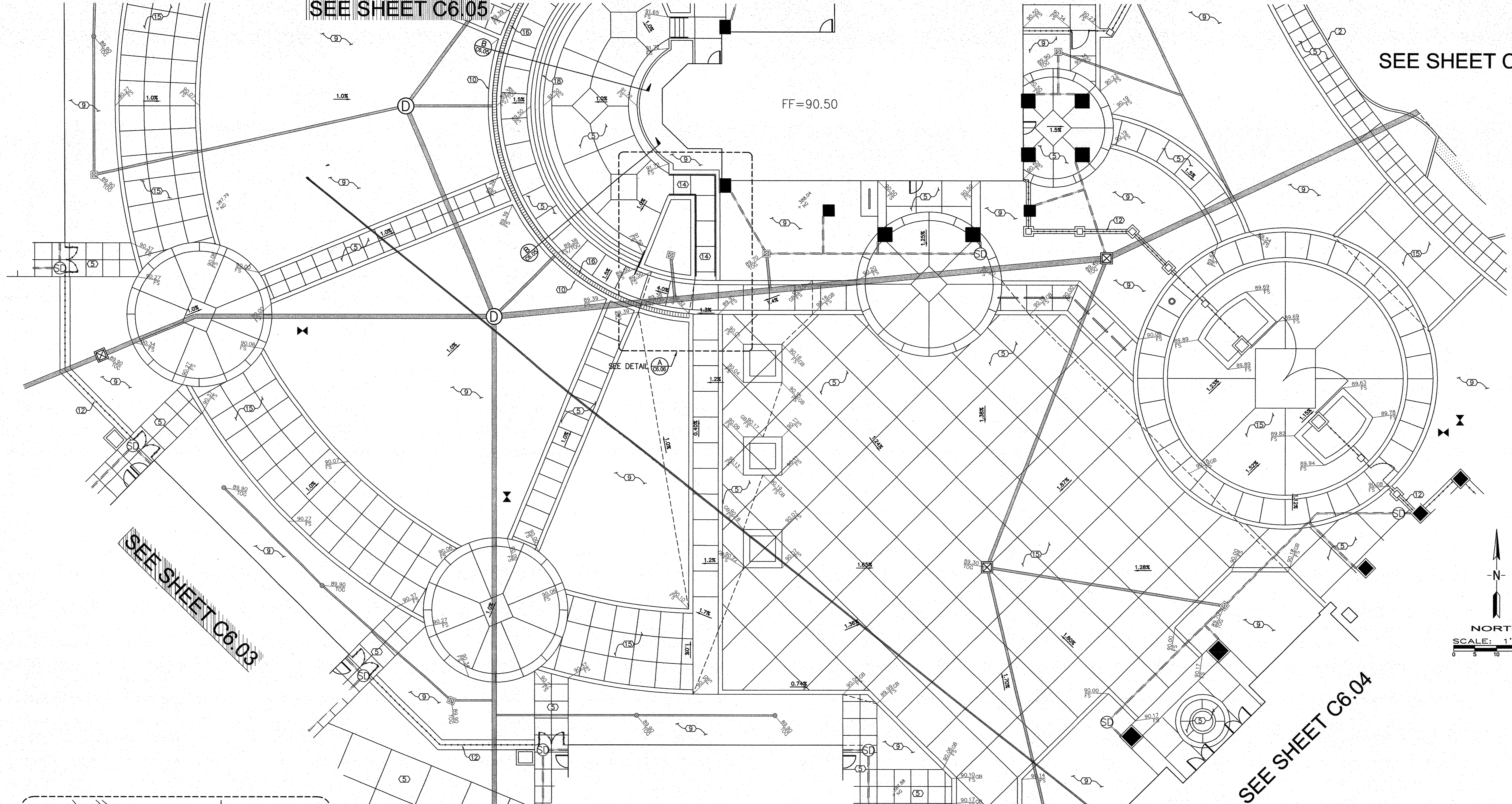
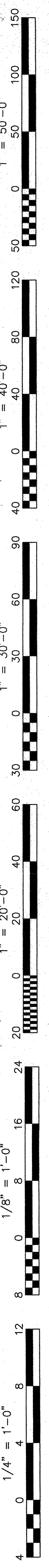
Sheet Title: **GRADING-DRAINAGE ADMINISTRATION-LIBRARY NORTH HALF NEW ELEMENTARY SCHOOL INCREMENT 2**
 BAKERSFIELD CITY SCHOOL DISTRICT
 @ CITADEL STREET & MARDI GRAS COURT

Issue Date: XXX
 Date: 09-14-18
 Designer: [Signature]
 PRC: [Signature]
 PC: XXX

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Job No.: **5262**
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 Release: - ADDENDUM #6



(A) AREA DETAIL
 SCALE: 1"=5'

GRADING CONSTRUCTION NOTES

1. CONSTRUCT 6" CURB AND GUTTER PER DETAIL (A) C6.06
 2. CONSTRUCT 6" TALL CURB PER DETAIL (B) C6.07
 3. CONSTRUCT 4" WIDE V-GUTTER PER DETAIL (C) C6.08
 4. CONSTRUCT TRASH ENCLOSURE PER ARCHITECT'S PLANS
 5. CONSTRUCT CONCRETE WALK AND/OR FLAT WORK PER ARCHITECT'S PLAN. REFER TO ARCHITECT'S PLANS FOR DIMENSIONS.
 6. CONSTRUCT ACCESSIBILITY FEATURES, ACCESSIBLE CURB RAMP, TRUNCATED DOMES, STRIPING, SIGNAGE, ETC. PER ARCHITECT'S PLANS
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 8. CONSTRUCT 12" WIDE RETAINING CURB PER DETAIL (D) C6.09
 9. PROPOSED LANDSCAPED AREA, SEE LANDSCAPE DRAWINGS.
 10. CONSTRUCT 8" WIDE MOW CURB PER DETAIL (E) C6.10
 11. PROPOSED BLOCK WALL, SEE STRUCTURAL DRAWINGS SHEET S1.07
 12. PROPOSED FENCE & MOW CURB PER ARCHITECT'S PLANS.
 13. FLARE GUTTER AT ACCESSIBLE ROUTES PER DETAIL (F) C6.11
 14. CONSTRUCT ACCESSIBLE RAMP PER ARCHITECT'S PLANS.
 15. THICKENED HEAVY DUTY CONCRETE SECTION. SEE SHEET C6.10 FOR THICKNESS AND LIMITS.
 16. PROPOSED TRENCH DRAIN PER ARCHITECT'S PLANS.
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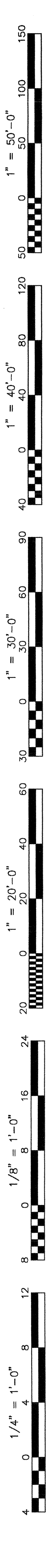
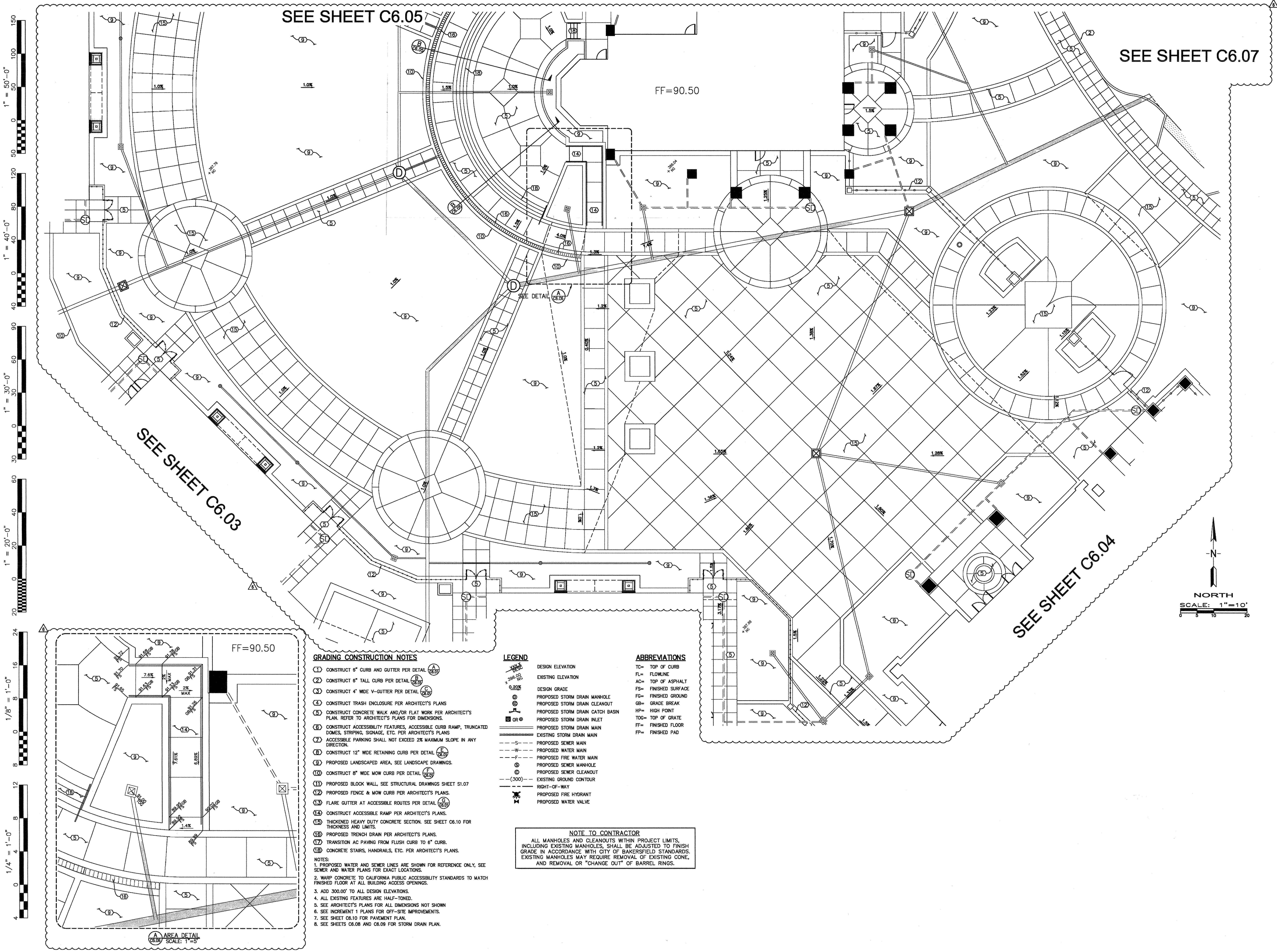
LEGEND

	DESIGN ELEVATION
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ABBREVIATIONS

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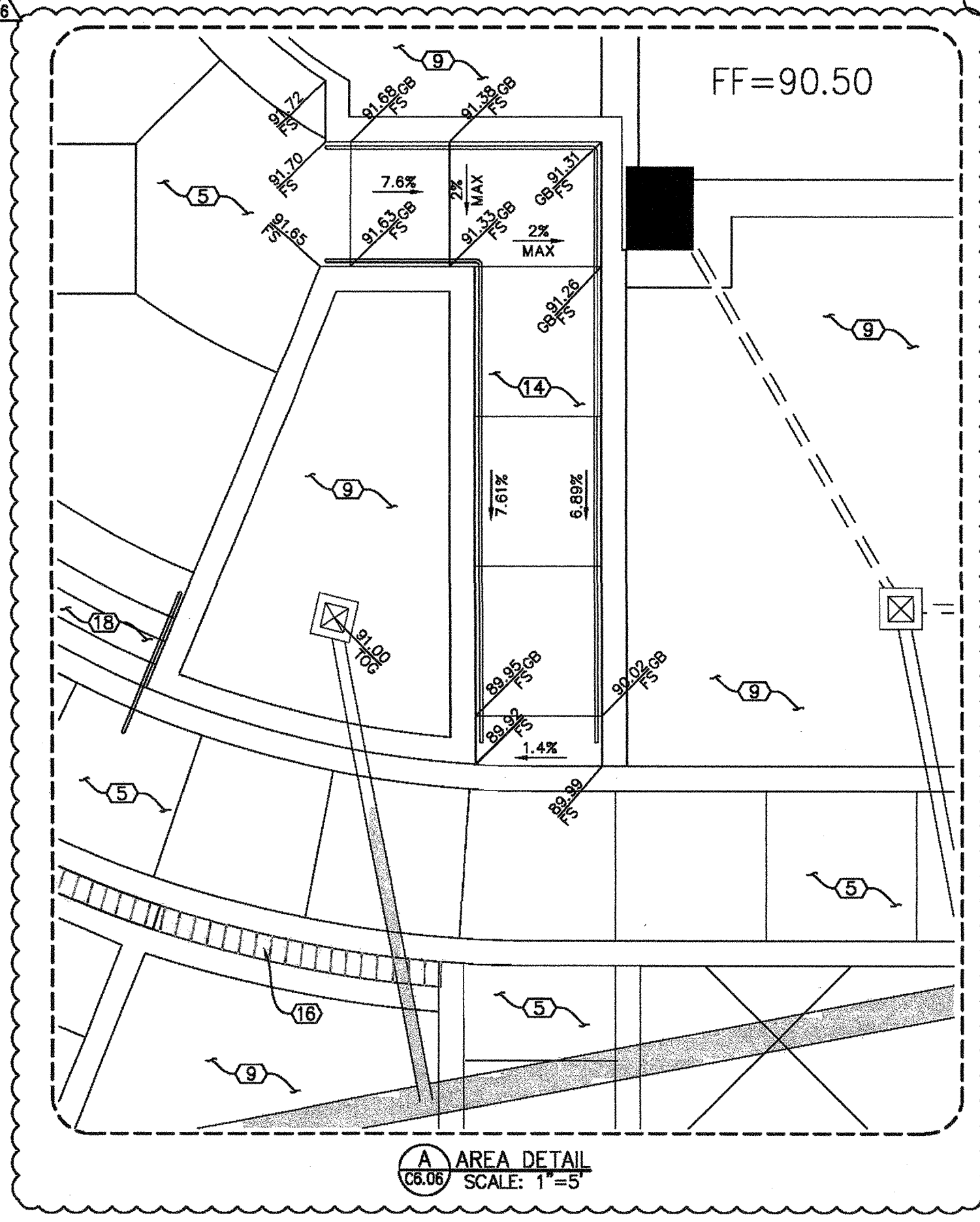


SEE SHEET C6.05

SEE SHEET C6.07

SEE SHEET C6.03

SEE SHEET C6.04



AREA DETAIL
SCALE: 1"=5'

GRADING CONSTRUCTION NOTES

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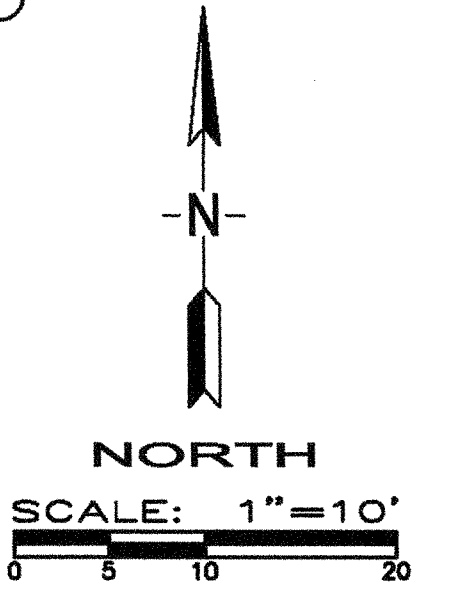
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www.integrateddesigns.com

Project Name & Address: **GRADING-DRAINAGE ADMINISTRATION-LIBRARY SOUTH HALF NEW ELEMENTARY SCHOOL INCREMENT 2**
BAKERSFIELD CITY SCHOOL DISTRICT
@ CITADEL STREET & MARDI GRAS COURT

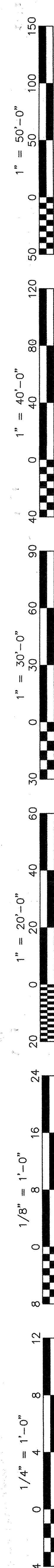
Revision Description: ADDENDUM 6
Revision: A
Rev. Date: 09-14-18
Rev. Date: 09-14-18

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DIV. OF THE STATE ARCHITECT
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03-118394
AC, SC, FLS, SH, SS, TH
DATE: 09/20/18
TRACKING #: 63321-300

Stamp:
REGISTERED PROFESSIONAL ENGINEER
L. HINOJOSA
STATE OF CALIFORNIA
RCE 35448
REGISTERED ARCHITECT
L. HINOJOSA
STATE OF CALIFORNIA
No. C 28896
Exp. 5-31-19

Job No.: **5262**
Sheet No.: **C6.06**
Release: - ADDENDUM #6

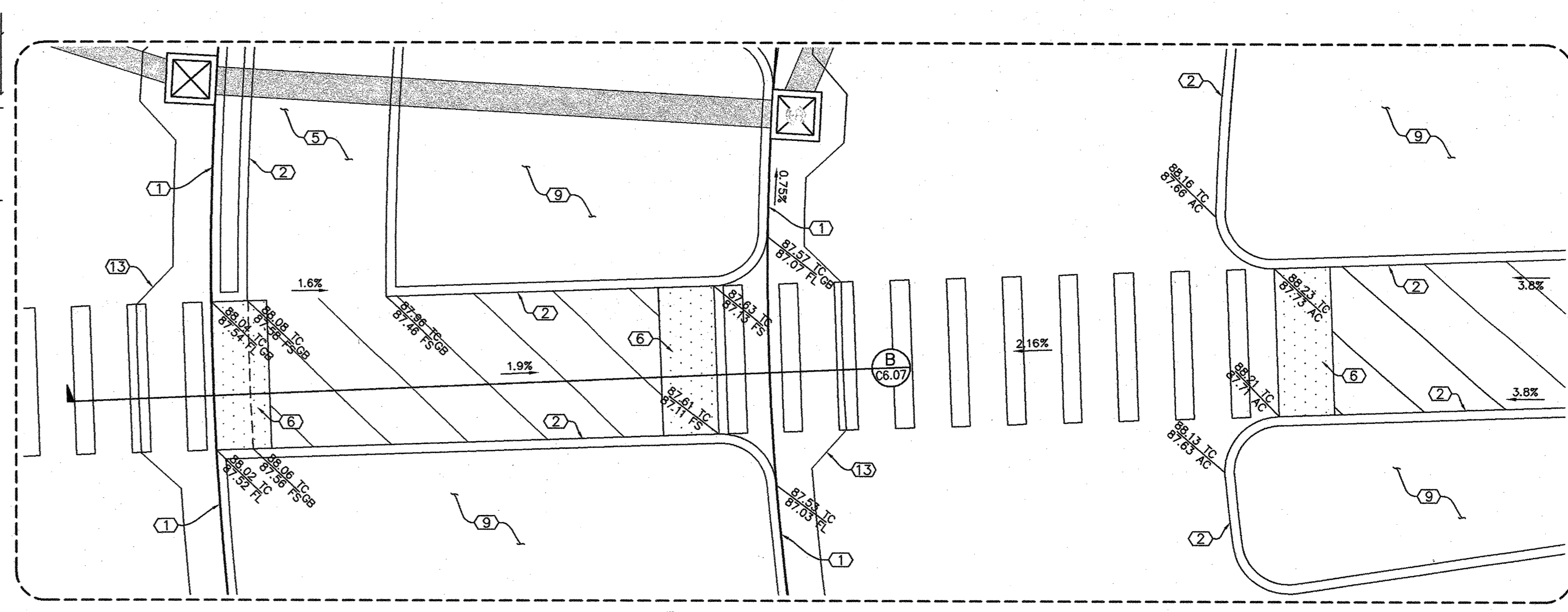
J:\3014\Improvements\Grading-Drainage Plan\3014A-gr_Plan.dwg LUIS HINOJOSA



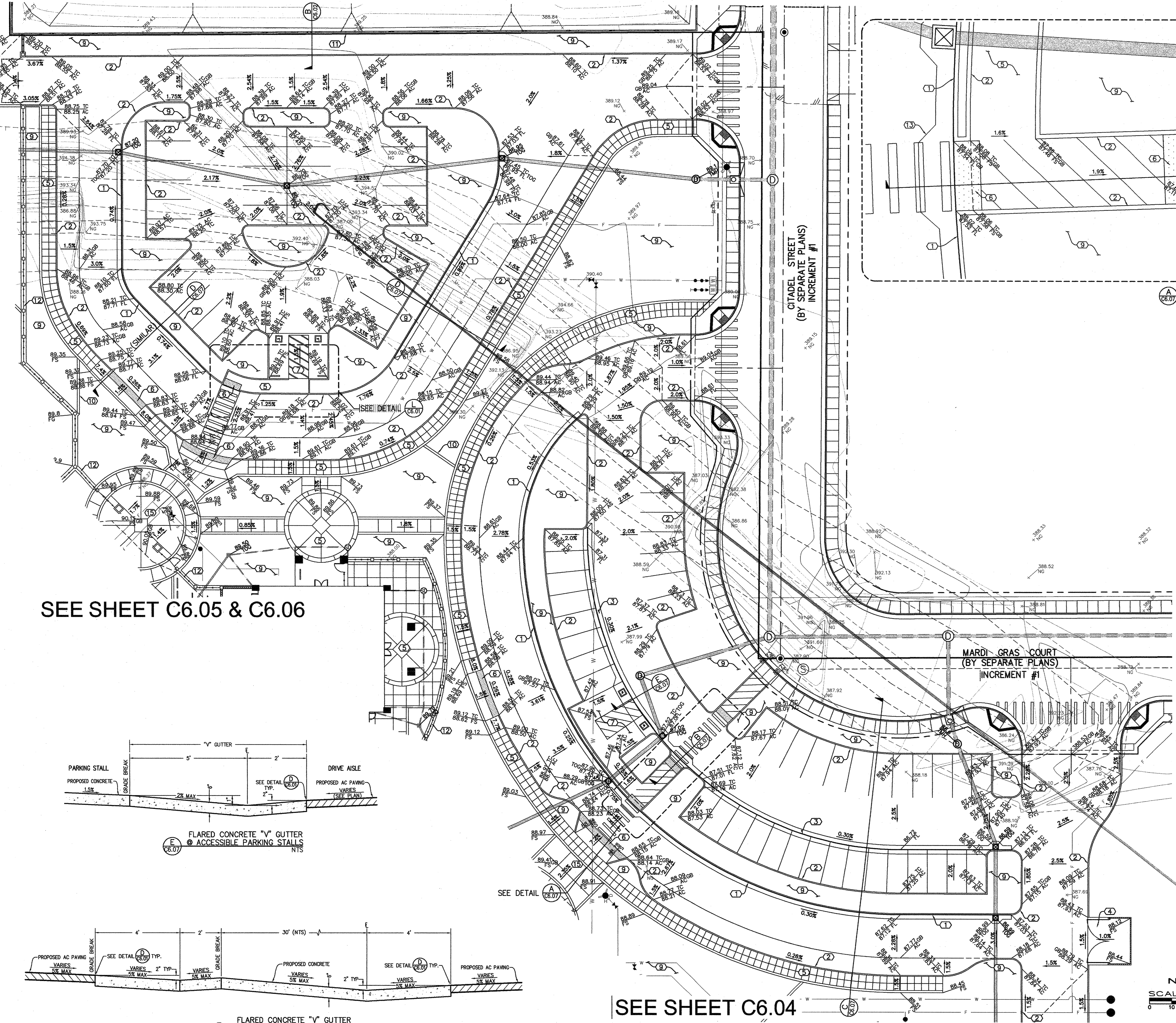
SEE SHEET C6.02

SEE SHEET C6.05 & C6.06

SEE SHEET C6.04



AREA DETAIL (SCALE: 1"=5')



GRADING CONSTRUCTION NOTES

1. CONSTRUCT 6" CURB AND GUTTER PER DETAIL (A) (C6.07)
2. CONSTRUCT 6" TALL CURB PER DETAIL (B) (C6.07)
3. CONSTRUCT 4" WIDE V-GUTTER PER DETAIL (E) (C6.07)
4. CONSTRUCT TRASH ENCLOSURE PER ARCHITECT'S PLANS
5. CONSTRUCT CONCRETE WALK AND/OR FLAT WORK PER ARCHITECT'S PLAN. REFER TO ARCHITECT'S PLANS FOR DIMENSIONS.
6. CONSTRUCT ACCESSIBILITY FEATURES, ACCESSIBLE CURB RAMP, TRUNCATED DOMES, STRIPING, SIGNAGE, ETC. PER ARCHITECT'S PLANS
7. ACCESSIBLE PARKING SHALL NOT EXCEED 2% MAXIMUM SLOPE IN ANY DIRECTION.
8. CONSTRUCT 12" WIDE RETAINING CURB PER DETAIL (C) (C6.07)
9. PROPOSED LANDSCAPED AREA, SEE LANDSCAPE DRAWINGS.
10. CONSTRUCT 8" WIDE MOW CURB PER DETAIL (F) (C6.07)
11. PROPOSED BLOCK WALL, SEE STRUCTURAL DRAWINGS SHEET S1.07
12. PROPOSED FENCE & MOW CURB PER ARCHITECT'S PLANS.
13. FLARE GUTTER AT ACCESSIBLE ROUTES PER DETAIL (D) (C6.07)
14. CONSTRUCT ACCESSIBLE RAMP PER ARCHITECT'S PLANS.
15. THICKENED HEAVY DUTY CONCRETE SECTION. SEE SHEET C6.10 FOR THICKNESS AND LIMITS.
16. PROPOSED TRENCH DRAIN PER ARCHITECT'S PLANS.
17. TRANSITION AC PAVING FROM FLUSH CURB TO 6" CURB.
18. CONCRETE STAIRS, HANDRAILS, ETC. PER ARCHITECT'S PLANS.

NOTES:

1. PROPOSED WATER AND SEWER LINES ARE SHOWN FOR REFERENCE ONLY, SEE SEWER AND WATER PLANS FOR EXACT LOCATIONS.
2. WARP CONCRETE TO CALIFORNIA PUBLIC ACCESSIBILITY STANDARDS TO MATCH FINISHED FLOOR AT ALL BUILDING ACCESS OPENINGS.
3. ADD 300.00' TO ALL DESIGN ELEVATIONS.
4. ALL EXISTING FEATURES ARE HALF-TONED.
5. SEE ARCHITECT'S PLANS FOR ALL DIMENSIONS NOT SHOWN
6. SEE INCREMENT 1 PLANS FOR OFF-SITE IMPROVEMENTS.
7. SEE SHEET C6.10 FOR PAVEMENT PLAN.
8. SEE SHEETS C6.08 AND C6.09 FOR STORM DRAIN PLAN.

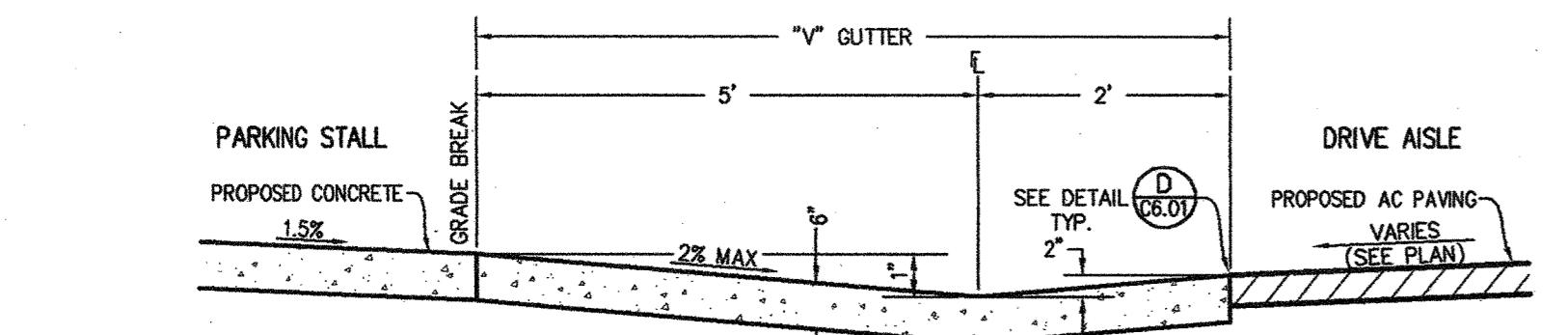
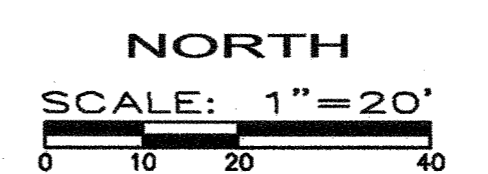
LEGEND

	DESIGN ELEVATION		TOP OF CURB
	EXISTING ELEVATION		FLOWLINE
	DESIGN GRADE		TOP OF ASPHALT
	PROPOSED STORM DRAIN MANHOLE		FINISHED SURFACE
	PROPOSED STORM DRAIN CLEANOUT		FINISHED GROUND
	PROPOSED STORM DRAIN CATCH BASIN		GRADE BREAK
	PROPOSED STORM DRAIN INLET		HIGH POINT
	PROPOSED STORM DRAIN MAN		TOP OF GRATE
	EXISTING STORM DRAIN MAIN		FINISHED FLOOR
	PROPOSED SEWER MAIN		FINISHED PAD
	PROPOSED WATER MAIN		
	PROPOSED FIRE WATER MAIN		
	PROPOSED SEWER MANHOLE		
	PROPOSED SEWER CLEANOUT		
	EXISTING GROUND CONTOUR		
	RIGHT-OF-WAY		
	PROPOSED FIRE HYDRANT		
	PROPOSED WATER VALVE		

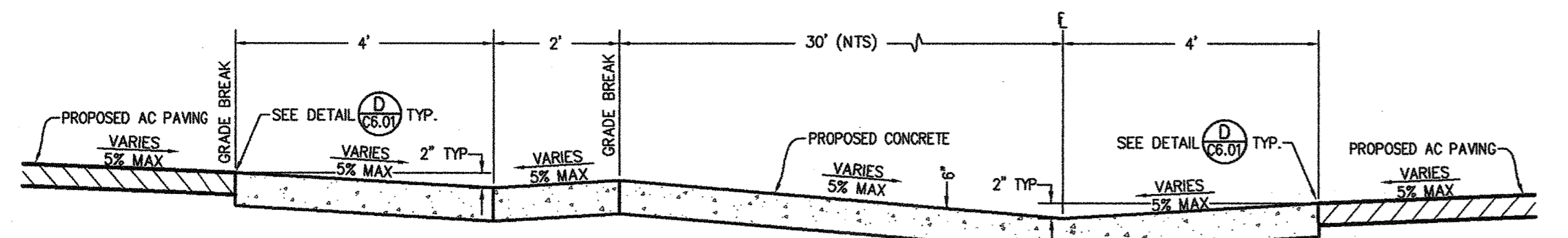
ABBREVIATIONS

TC=	TOP OF CURB
FL=	FLOWLINE
AC=	TOP OF ASPHALT
FS=	FINISHED SURFACE
FG=	FINISHED GROUND
GB=	GRADE BREAK
HP=	HIGH POINT
TG=	TOP OF GRATE
FF=	FINISHED FLOOR
FP=	FINISHED PAD

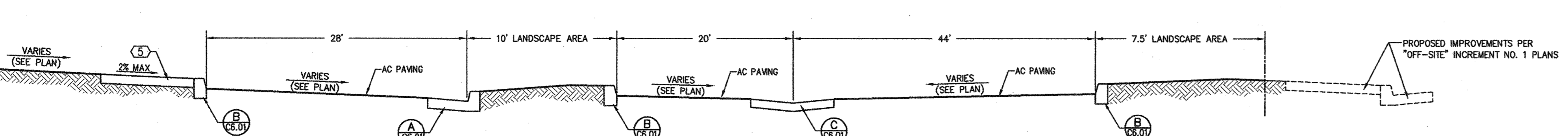
NOTE TO CONTRACTOR
 ALL MANHOLES AND CLEANOUTS WITHIN PROJECT LIMITS, INCLUDING EXISTING MANHOLES, SHALL BE ADJUSTED TO FINISH GRADE IN ACCORDANCE WITH CITY OF BAKERSFIELD STANDARDS. EXISTING MANHOLES MAY REQUIRE REMOVAL OF EXISTING CONE, AND REMOVAL OR "CHANGE OUT" OF BARREL RINGS.



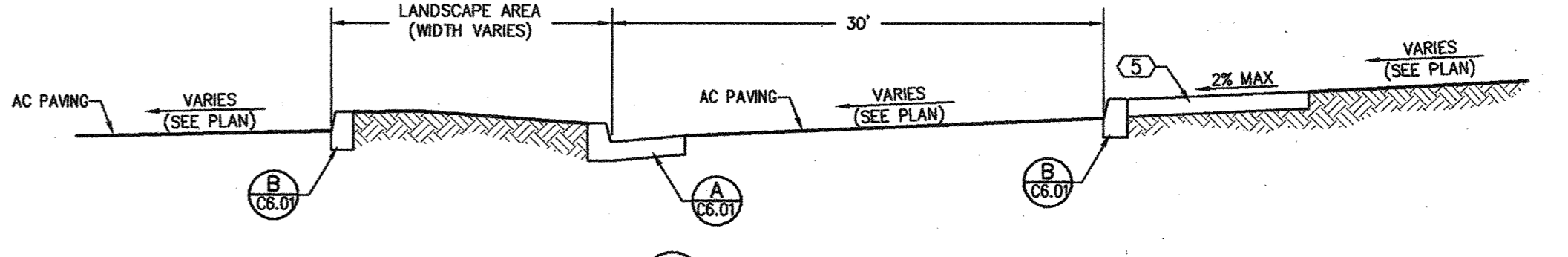
FLARED CONCRETE "V" GUTTER ACCESSIBLE PARKING STALLS (C6.07)



FLARED CONCRETE "V" GUTTER ACCESSIBLE PATH OF TRAVEL (C6.07)



TYPICAL CROSS SECTION (C6.07)



TYPICAL CROSS SECTION (C6.07)

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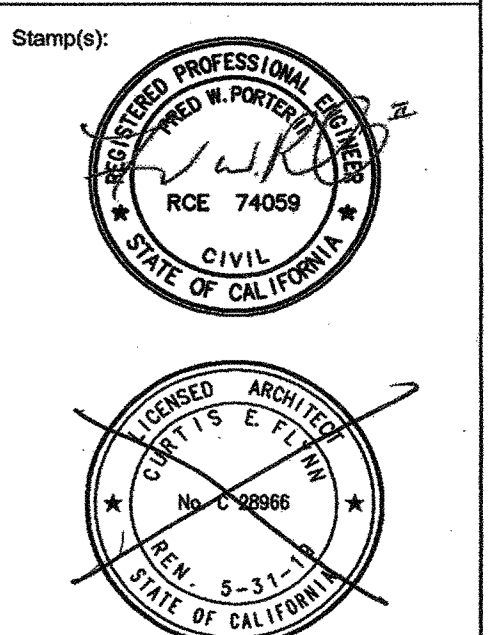
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 ENGINEERING & SURVEYING
 1200 21st Street, Bakersfield, California 93301
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 www.integrateddesigns.com

GRADING & DRAINAGE PLAN
PARKING LOT AREAS
NEW ELEMENTARY SCHOOL INCREMENT 2
 BAKERSFIELD CITY SCHOOL DISTRICT
 @ CITADEL STREET & MARDI GRAS COURT

Issue Date: XXX
 Date: 7/31/2018
 Designer: PC
 Checker: PC
 Agency Approval Stamp: XXX

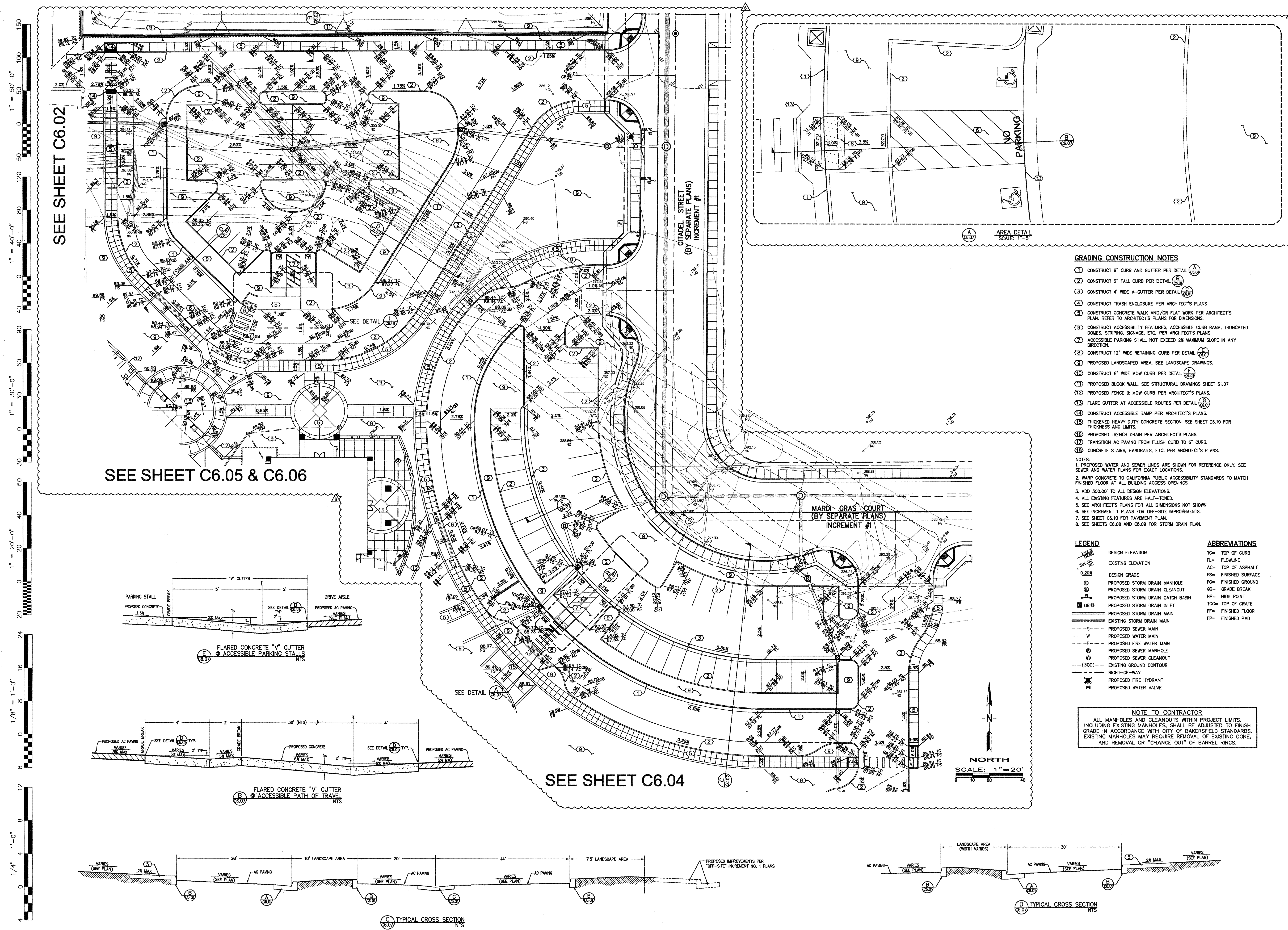
FILE # 15-6
 IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 OFFICE OF REGULATION SERVICES
 03-118394
 AC: FLS SS: Y
 DATED: 6-22-18
 TRACKING #: 63321-300



Job No.: **5262**

Sheet No.: **C6.07**

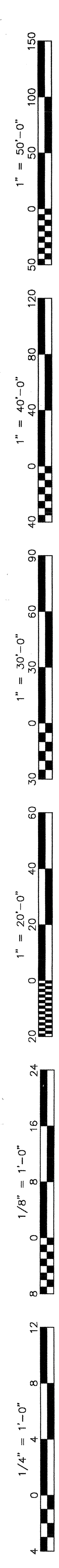
Release: NATE SLINKARD



- GRADING CONSTRUCTION NOTES**
1. CONSTRUCT 6" CURB AND GUTTER PER DETAIL (A) (C6.07)
 2. CONSTRUCT 6" TALL CURB PER DETAIL (B) (C6.07)
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 6. CONSTRUCT ACCESSIBILITY FEATURES, ACCESSIBLE CURB RAMP, TRUNCATED DOMES, STRIPING, SIGNAGE, ETC. PER ARCHITECT'S PLANS
 7. ACCESSIBLE PARKING SHALL NOT EXCEED 2% MAXIMUM SLOPE IN ANY DIRECTION.
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 9. PROPOSED LANDSCAPED AREA, SEE LANDSCAPE DRAWINGS.
 10. CONSTRUCT 8" WIDE MOW CURB PER DETAIL (F) (C6.07)
 11. PROPOSED BLOCK WALL, SEE STRUCTURAL DRAWINGS SHEET S1.07
 12. PROPOSED FENCE & MOW CURB PER ARCHITECT'S PLANS.
 13. FLARE GUTTER AT ACCESSIBLE ROUTES PER DETAIL (G) (C6.07)
 14. CONSTRUCT ACCESSIBLE RAMP PER ARCHITECT'S PLANS.
 15. THICKENED HEAVY DUTY CONCRETE SECTION, SEE SHEET C6.10 FOR THICKNESS AND LIMITS.
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 8. SEE SHEETS C6.08 AND C6.09 FOR STORM DRAIN PLAN.

- LEGEND**
- DESIGN ELEVATION
 - EXISTING ELEVATION
 - DESIGN GRADE
 - PROPOSED STORM DRAIN MANHOLE
 - PROPOSED STORM DRAIN CLEANOUT
 - PROPOSED STORM DRAIN CATCH BASIN
 - PROPOSED STORM DRAIN INLET
 - PROPOSED STORM DRAIN MAIN
 - EXISTING STORM DRAIN MAIN
 - PROPOSED SEWER MAIN
 - PROPOSED WATER MAIN
 - PROPOSED FIRE WATER MAIN
 - PROPOSED SEWER MANHOLE
 - PROPOSED SEWER CLEANOUT
 - EXISTING GROUND CONTOUR
 - RIGHT-OF-WAY
 - PROPOSED FIRE HYDRANT
 - PROPOSED WATER VALVE
- ABBREVIATIONS**
- TC= TOP OF CURB
 - FL= FLOWLINE
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 - GB= GRADE BREAK
 - HP= HIGH POINT
 - TOP= TOP OF GRATE
 - FT= FINISHED FLOOR
 - FP= FINISHED PAD

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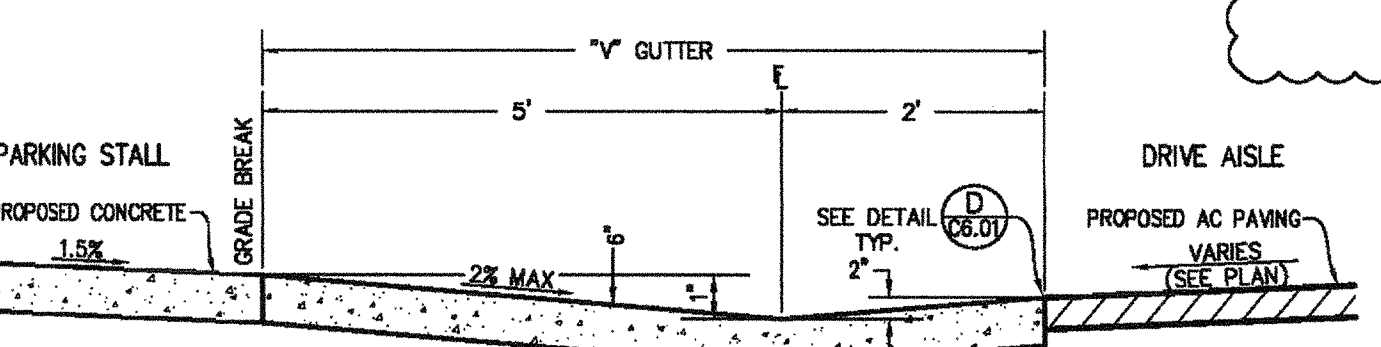


SEE SHEET C6.02

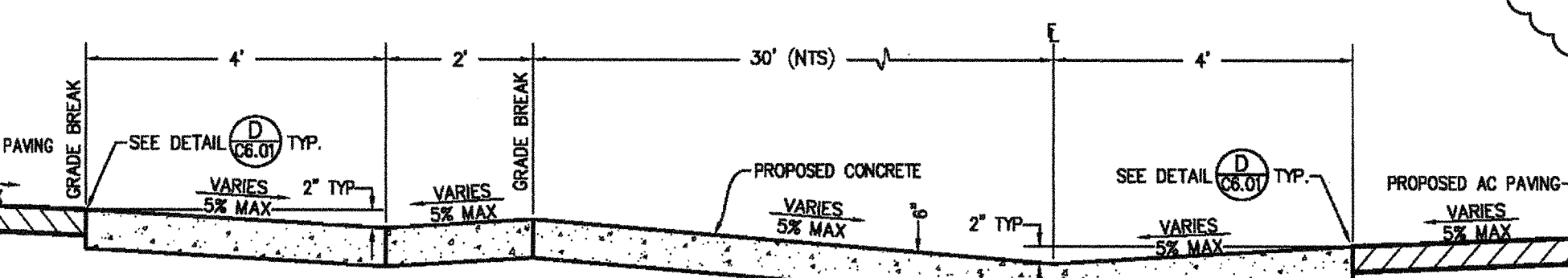
SEE SHEET C6.05 & C6.06

SEE SHEET C6.04

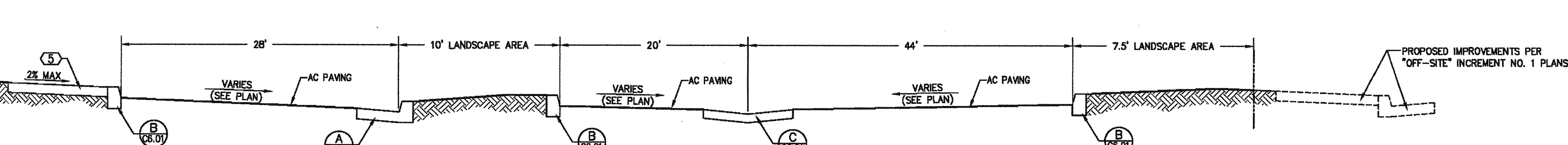
NORTH
 SCALE: 1" = 20'



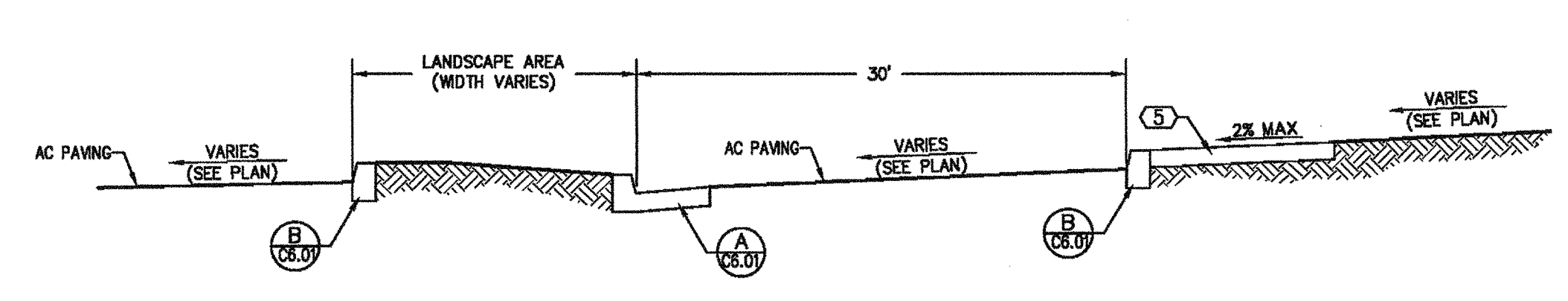
FLARED CONCRETE "V" GUTTER
 ACCESSIBLE PARKING STALLS
 NTS
 (A) (C6.07)



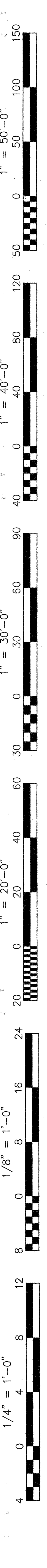
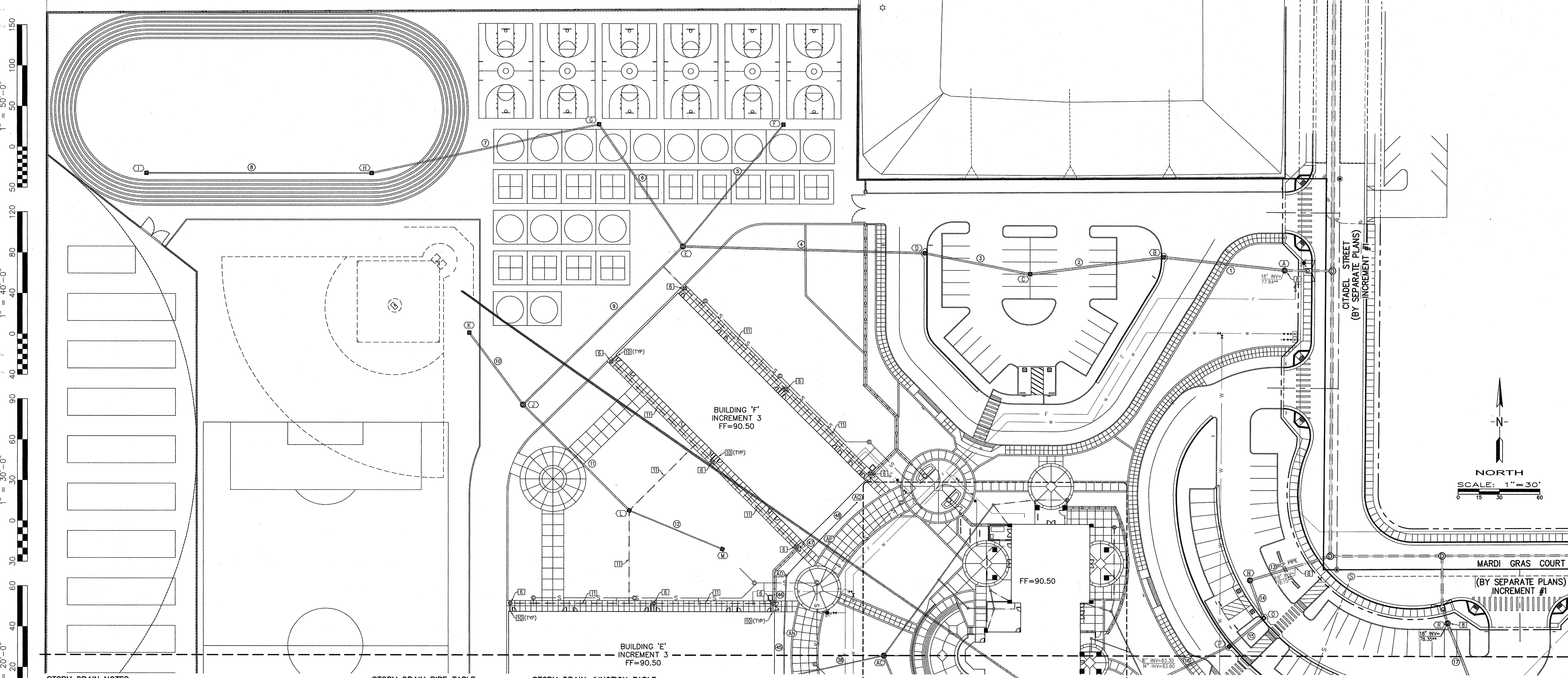
FLARED CONCRETE "V" GUTTER
 ACCESSIBLE PATH OF TRAVEL
 NTS
 (B) (C6.07)



TYPICAL CROSS SECTION
 NTS
 (C) (C6.07)



TYPICAL CROSS SECTION
 NTS
 (D) (C6.07)



- STORM DRAIN NOTES**
- INSTALL PVC STORM DRAIN PIPE UNLESS OTHERWISE NOTED (SEE STORM DRAIN PIPELINE TABLE FOR PIPE SIZE, APPROXIMATE LENGTHS AND SLOPES).
 - CONSTRUCT STORM DRAIN MANHOLE PER DETAIL (B) LID SHALL BE MARKED "STORM DRAIN"
 - INSTALL TRENCH DRAIN CONNECTION PER DETAIL (E).
 - INSTALL CHRISTY U21 CATCH BASIN WITH U21-H1 GRATE PER DETAIL (A).
 - INSTALL CHRISTY V05 DRAIN BOX WITH RISER AND V1-71C GRATE PER DETAIL (C).
 - INSTALL CHRISTY V12 DRAIN BOX WITH RISER AND V12-71W GRATE PER DETAIL (D).
 - CONSTRUCT STORM DRAIN CLEANOUT PER DETAIL (G).
 - INSTALL CHRISTY V12 DRAIN BOX WITH CONCRETE BOTTOM AND V12-71W GRATE PER DETAIL (D).
 - THE TIE INTO EXISTING 18" STORM DRAIN STUB PER "INCREMENT #1" PLANS (CONTRACTOR SHALL VERIFY EXACT LOCATION AND DEPTH IN FIELD AND NOTIFY ENGINEER IF THERE ARE ANY DISCREPANCIES)
 - PLUG END FOR CONNECTION BY PLUMBING CONTRACTOR FOR PLAY AREA DRAINS.
 - INSTALL WATTS RD-970 4"x3" DOWNSPOUT BOOT AT DOWNSPOUT LOCATIONS. CONNECT DOWNSPOUT BOOT TO PVC STORM DRAIN WITH 4" PVC RISER.
 - INSTALL 4" PVC STORM DRAIN PIPE @ 1/8" MIN. FOR ROOF DRAIN CONNECTION, COORDINATE ROOF DRAIN LOCATIONS WITH BUILDING PLANS (TYP).
- NOTE: 1. FLARE GUTTER AT CHRISTY BOXES AS SHOWN.
 2. LATERAL CONNECTIONS TO MAINS THAT DO NOT OCCUR IN JUNCTION BOXES SHALL BE MADE WITH 45° ELLS OR WYES FOR CLEANOUT PURPOSES.
 3. CONTRACTOR SHALL RAISE ALL MANHOLES, CLEANOUTS, ETC. TO GRADE.

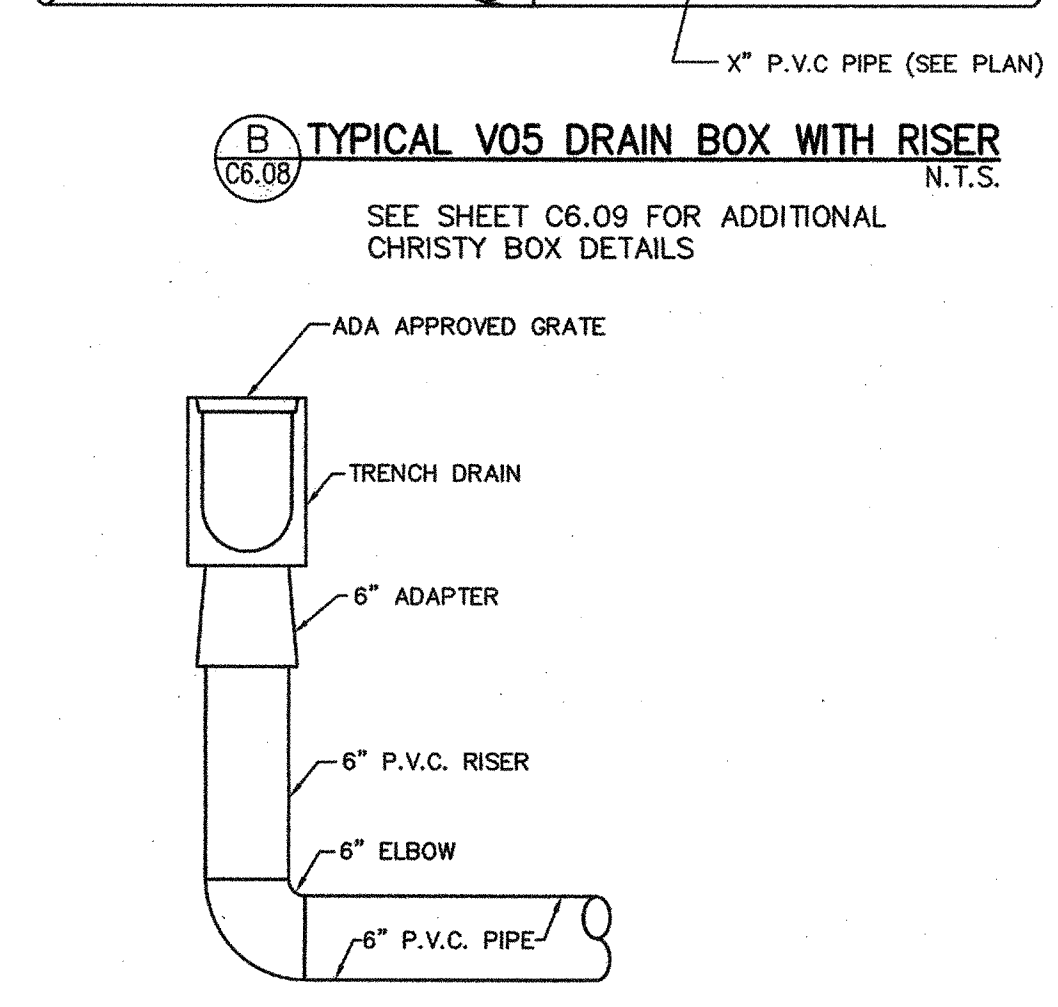
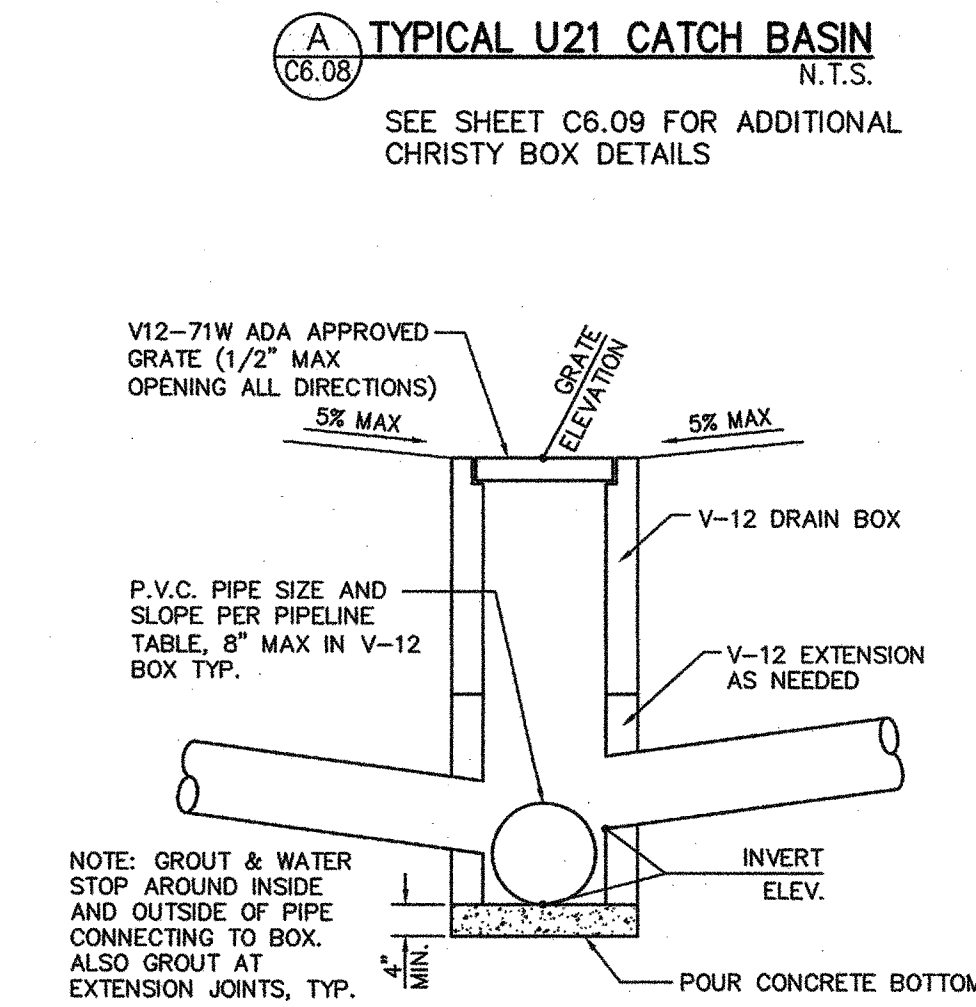
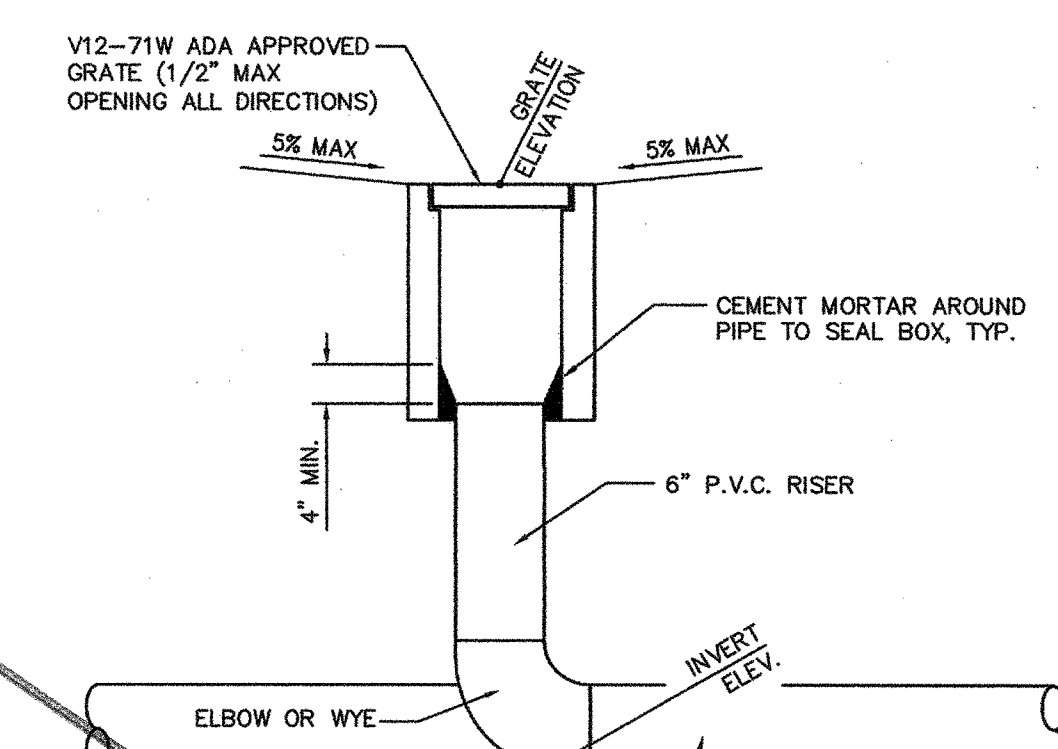
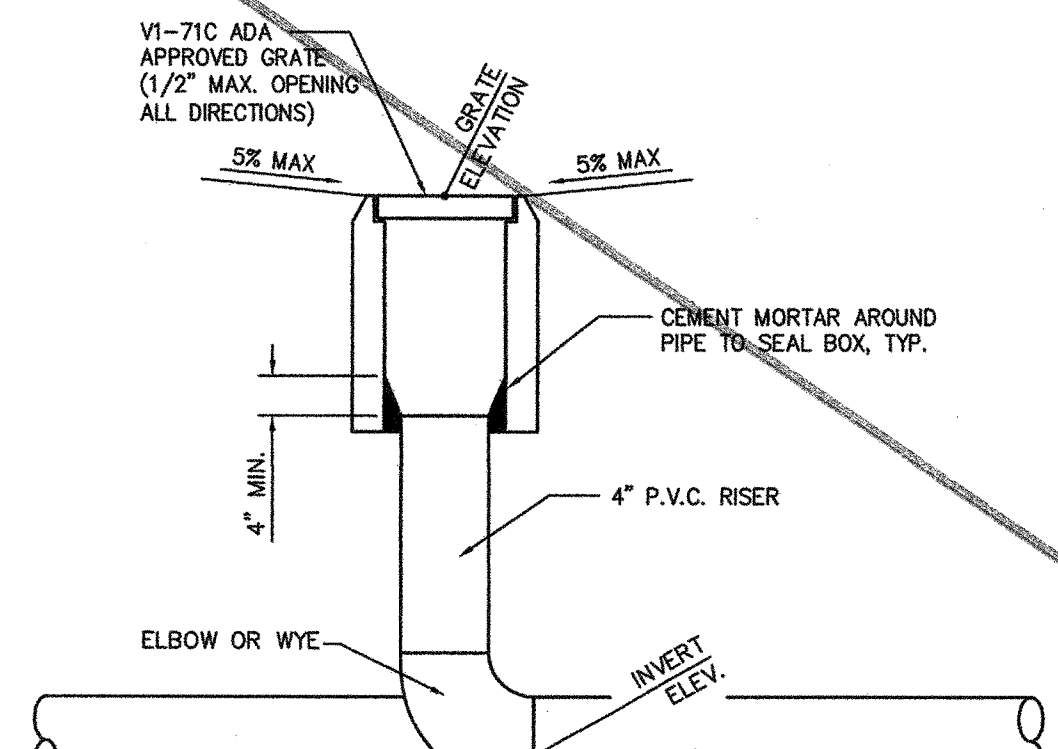
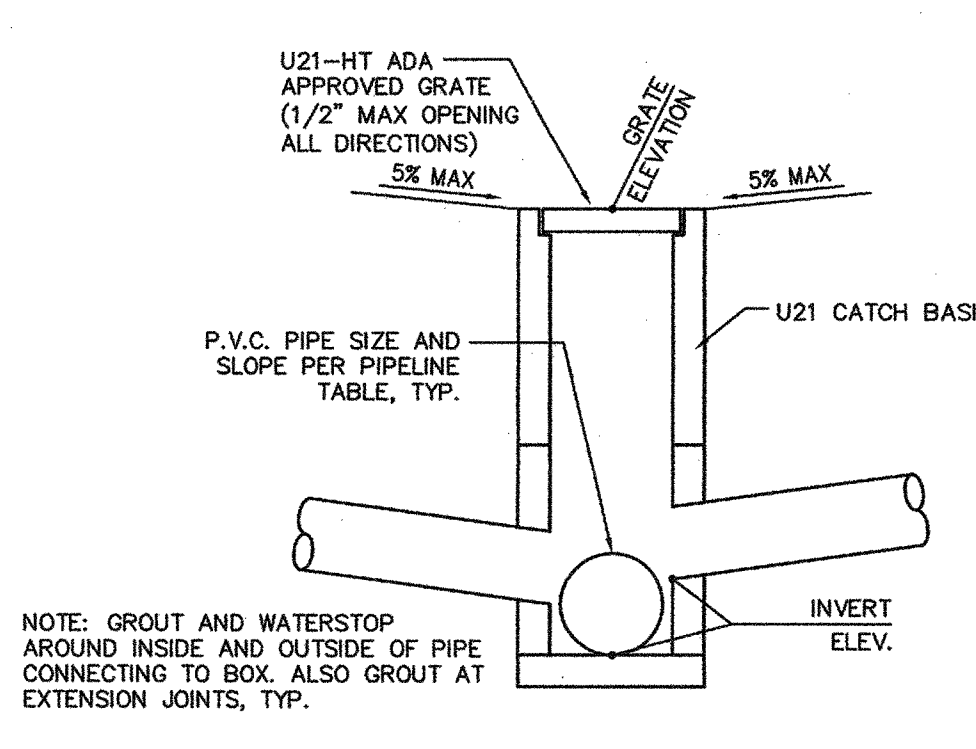
STORM DRAIN PIPE TABLE

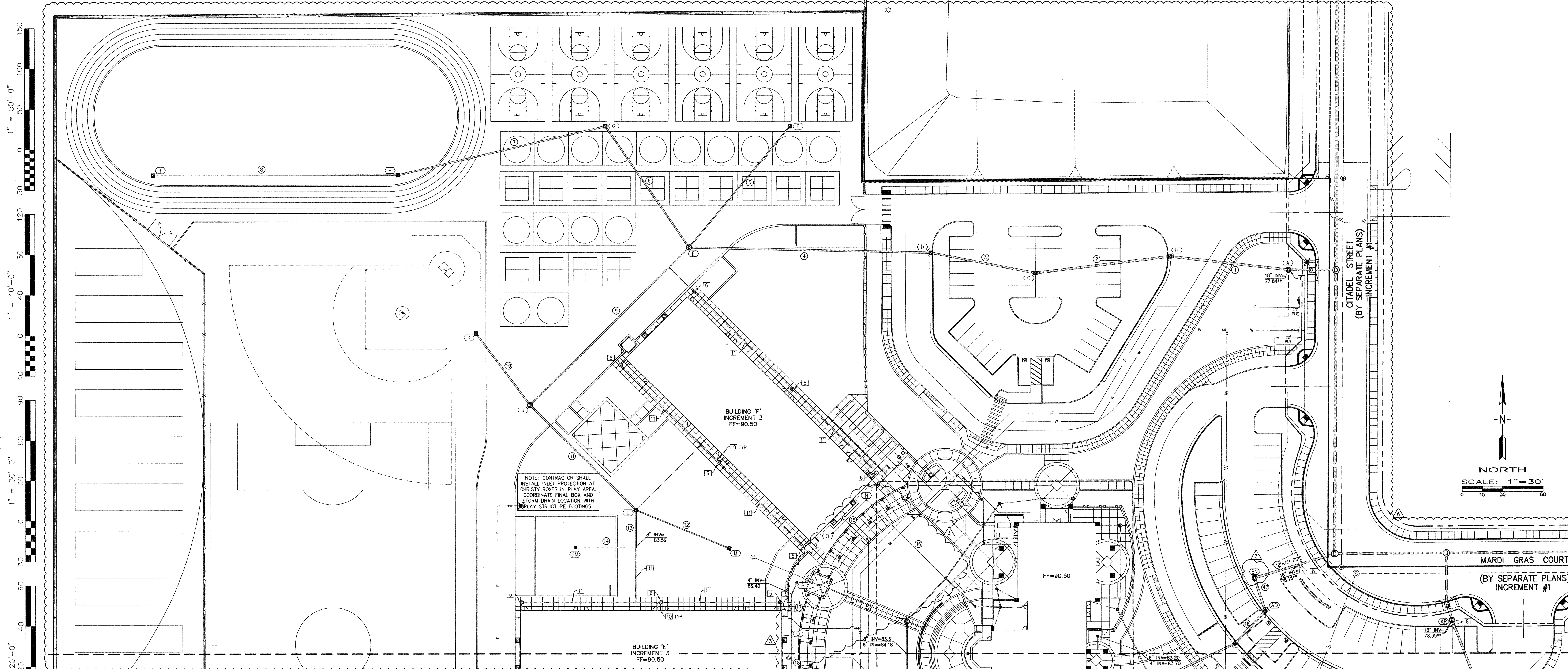
No.	SLOPE	SIZE	LENGTH
1	1.32%	18"	89.3 LF±
2	0.20%	18"	99.4 LF±
3	0.20%	15"	78.5 LF±
4	0.20%	15"	178.2 LF±
5	0.50%	8"	116.6 LF±
6	0.50%	12"	109.1 LF±
7	0.50%	12"	170.6 LF±
8	0.50%	8"	166 LF±
9	0.50%	12"	165.6 LF±
10	0.50%	8"	66.3 LF±
11	0.60%	12"	110.1 LF±
12	1.00%	8"	74.3 LF±
13	0.25%	18"	35 LF±
14	2.87%	18"	29.6 LF±
15	2.87%	18"	32.6 LF±
16	1.82%	15"	99.9 LF±
17	0.71%	18"	50.8 LF±
18	0.25%	15"	32.6 LF±
19	0.20%	15"	61.7 LF±
20	0.50%	12"	41.9 LF±
21	0.50%	12"	11.3 LF±
22	0.35%	12"	228.4 LF±
23	1.81%	12"	97.5 LF±
24	0.25%	12"	88.6 LF±
25	1.00%	12"	5.7 LF±
26	0.50%	8"	29.1 LF±
27	0.50%	8"	34.3 LF±
28	0.38%	15"	144.3 LF±
29	10%	6"	8.7 LF±
30	10%	6"	10.4 LF±
31	0.25%	12"	53.6 LF±
32	0.50%	8"	69.2 LF±
33	1.00%	6"	75.1 LF±
34	2.00%	6"	30 LF±
35	2.00%	6"	18.8 LF±
36	2.00%	6"	13.8 LF±
37	2.00%	6"	20.2 LF±
38	1.00%	6"	75.1 LF±
39	2.00%	6"	20.2 LF±
40	0.25%	12"	94.1 LF±
41	0.25%	12"	177.9 LF±
42	0.50%	8"	77.9 LF±
43	2.00%	6"	60.4 LF±
44	2.00%	4"	30.8 LF±
45	0.50%	6"	32.6 LF±
46	0.50%	6"	42.5 LF±
47	1.00%	4"	42.5 LF±
48	1.00%	4"	32.6 LF±
49	2.00%	6"	56 LF±
50	1.00%	6"	68.8 LF±
51	1.00%	6"	19.1 LF±
52	2.00%	4"	33.5 LF±
53	2.00%	4"	32.8 LF±
54	2.00%	4"	10 LF±
55	2.00%	4"	40.6 LF±
56	2.00%	4"	32.6 LF±
57	0.35%	10"	96.7 LF±
58	0.50%	8"	28.2 LF±
59	0.25%	12"	50 LF±
60	0.25%	10"	75.1 LF±
61	0.48%	8"	125.8 LF±
62	1.00%	10"	10 LF±
63	0.35%	8"	114 LF±

STORM DRAIN JUNCTION TABLE

No.	TYPE	TOC-TMI	INVERTS
(A)	U21	89.1 ±	77.84 18" E-W
(B)	U21	86.95 ±	79.02 18" E-W
(C)	U21	86.70 ±	79.22 18" E-W 79.47 15" W
(D)	U21	87.20 ±	79.63 15" E-W
(E)	U21	90.0 ±	79.99 15" E 80.24 12" NW & SW 82.91 8" NE
(F)	U21	88.1 ±	83.50 8" SW
(G)	U21	88.1 ±	80.79 12" SE & W
(H)	U21	88.15 ±	81.64 12" E 81.97 8" W
(I)	U21	88.63 ±	82.64 8" E
(J)	U21	89.2 ±	81.07 12" NE 82.40 12" SE & 8" NW
(K)	U21	88.35 ±	82.73 8" SE
(L)	U21	89.20 ±	83.06 12" NW 83.50 8" SE
(M)	U21	89.35 ±	84.24 8" NW
(N)	U21	87.4 ±	78.24 18" E & SE
(O)	U21	87.02 ±	79.09 18" NW & SW
(P)	U21	87.45 ±	80.03 18" NE 80.28 15" W
(Q)	U21	89.40 ±	82.10 15" E & W 82.68 8" SW
(R)	U21	88.6 ±	78.35 18" N & S
(S)	U21	86.59 ±	78.71 18" NW 78.96 15" S
(T)	U21	86.99 ±	79.04 15" N & S
(U)	U21	89.2 ±	79.16 15" N 79.41 12" SE 81.47 12" SW
(V)	U21	87.48 ±	79.92 12" E & W
(W)	U21	89.10 ±	82.27 12" NE & S
(X)	U21	88.3 ±	84.03 12" N & W
(Y)	U21	87.97 ±	84.20 12" W
(Z)	U21	88.6 ±	84.28 12" E 84.61 8" N
(AA)	U21	88.8 ±	84.76 8" S & E
(AB)	U21	89.6 ±	82.65 15" E 83.06 12" NW 82.90 12" W
(AC)	U21	89.30 ±	84.24 12" N & W
(AD)	U21	89.6 ±	83.19 12" S 83.52 8" N 83.85 6" W 85.97 6" E
(AE)	U21	89.05 ±	83.87 8" SW 84.04 6" NE & SE
(AF)	U21	91.00 ±	84.64 6" NW & E
(AG)	U21	90.15 ±	85.02 6" W & N
(AH)	U21	89.80 ±	85.30 6" S
(AI)	U21	89.90 ±	84.72 6" SW
(AJ)	U21	89.90 ±	84.78 6" S
(AK)	U21	89.70 ±	84.52 6" S
(AL)	U21	89.70 ±	83.97 6" SE
(AM)	U21	89.90 ±	84.42 4" SE
(AN)	U21	89.90 ±	84.60 6" N & E
(AO)	U21	89.90 ±	84.76 6" N & S
(AP)	U21	89.90 ±	84.97 6" S 85.14 4" NE
(AQ)	U21	89.90 ±	85.57 4" NE & SW
(AR)	U21	89.90 ±	85.90 4" SW
(AS)	U21	89.90 ±	83.07 8" N 83.24 6" S 83.88 6" E
(AT)	U21	89.70 ±	85.00 6" W
(AU)	U21	89.85 ±	83.93 6" N & SW
(AV)	U21	89.70 ±	84.12 6" NE
(AW)	U21	89.90 ±	85.46 4" W
(AX)	U21	89.90 ±	84.81 4" E & W
(AY)	U21	89.15 ±	83.68 12" NE 83.85 10" S
(AZ)	U21	88.85 ±	84.19 10" N 84.36 8" SW
(BA)	U21	89.90 ±	84.33 4" NW & E
(BB)	U21	89.90 ±	85.14 4" NW & SE
(BC)	U21	89.90 ±	85.79 4" SE
(BD)	U21	89.90 ±	83.14 12" NE & SW
(BE)	U21	89.35 ±	83.27 12" NE 83.44 10" SW
(BF)	U21	89.20 ±	83.63 10" NE 83.80 8" SW
(BG)	U21	90.0 ±	84.40 8" NE & SW
(BH)	U21	88.0 ±	84.80 8" NE

SEE SHEET C6.09





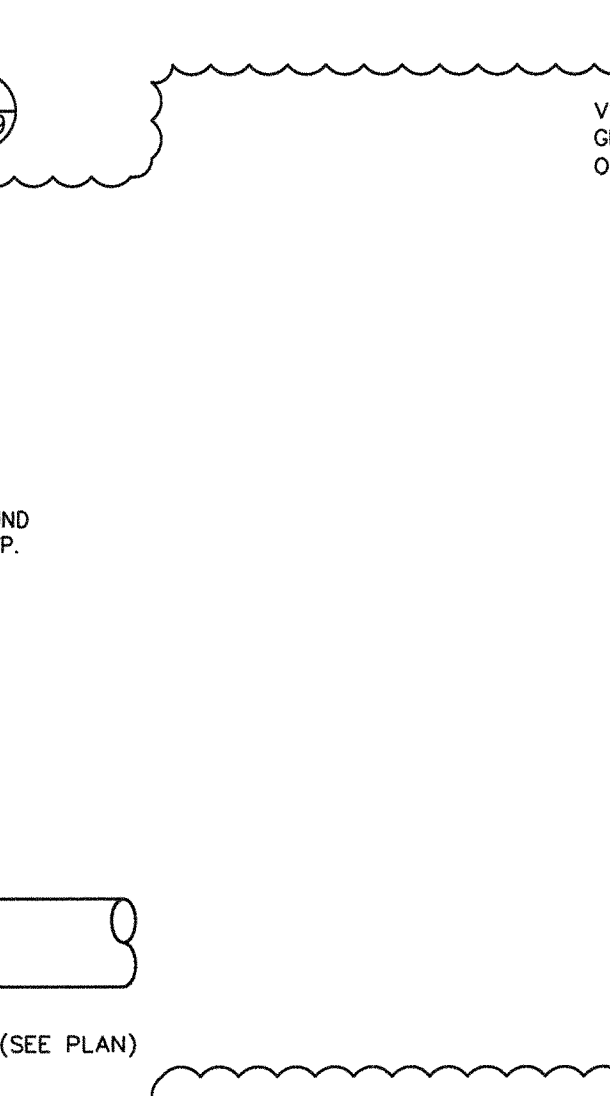
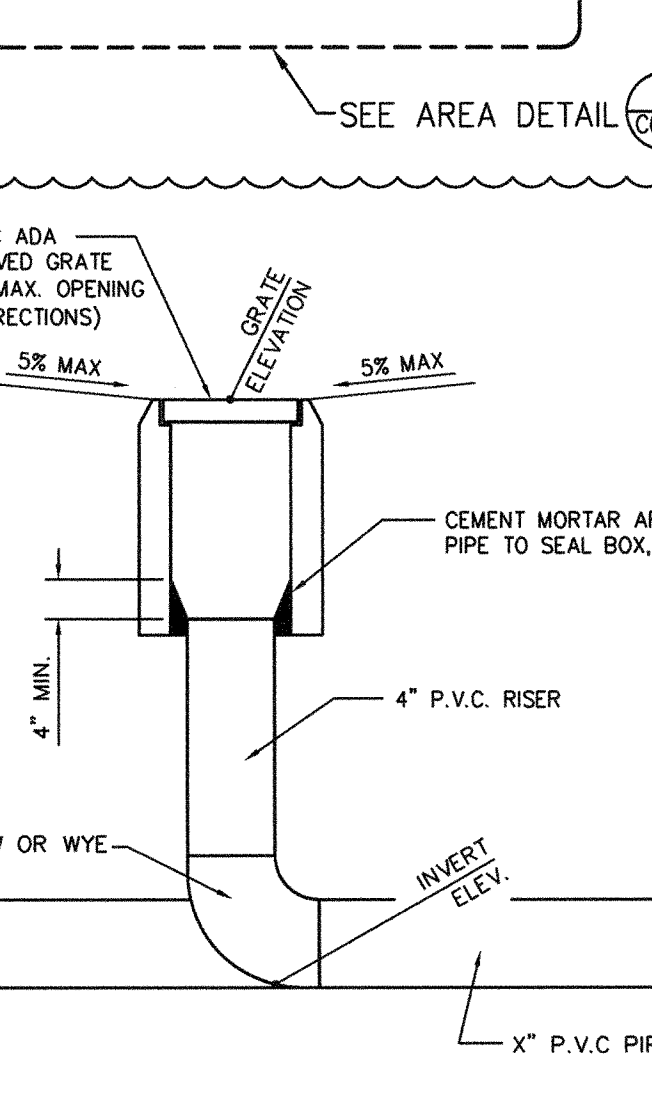
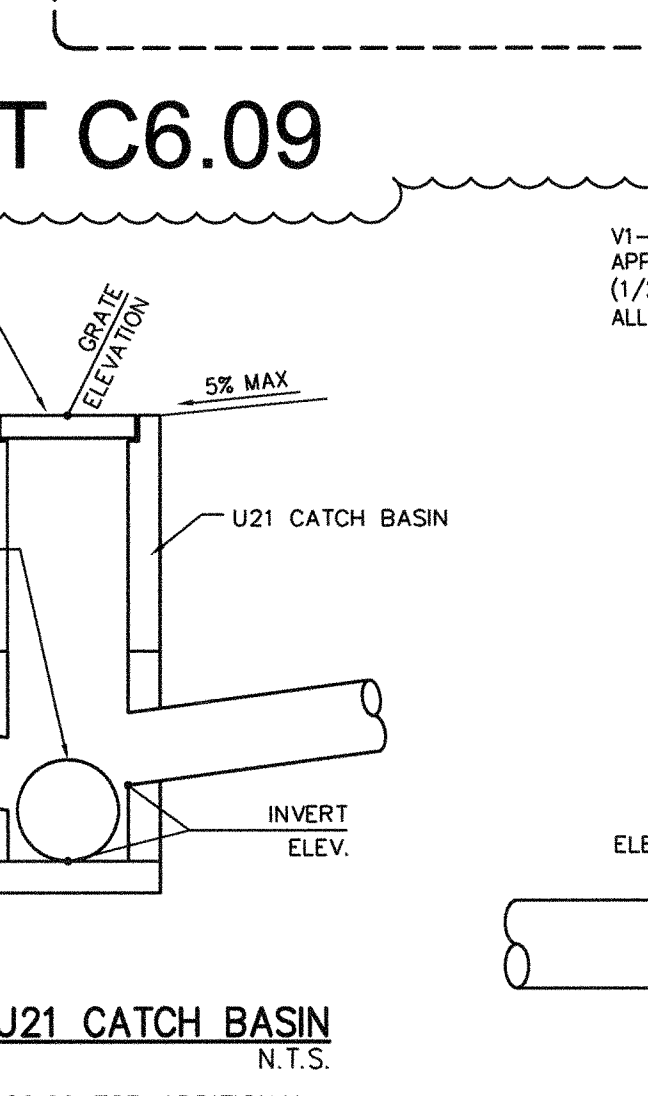
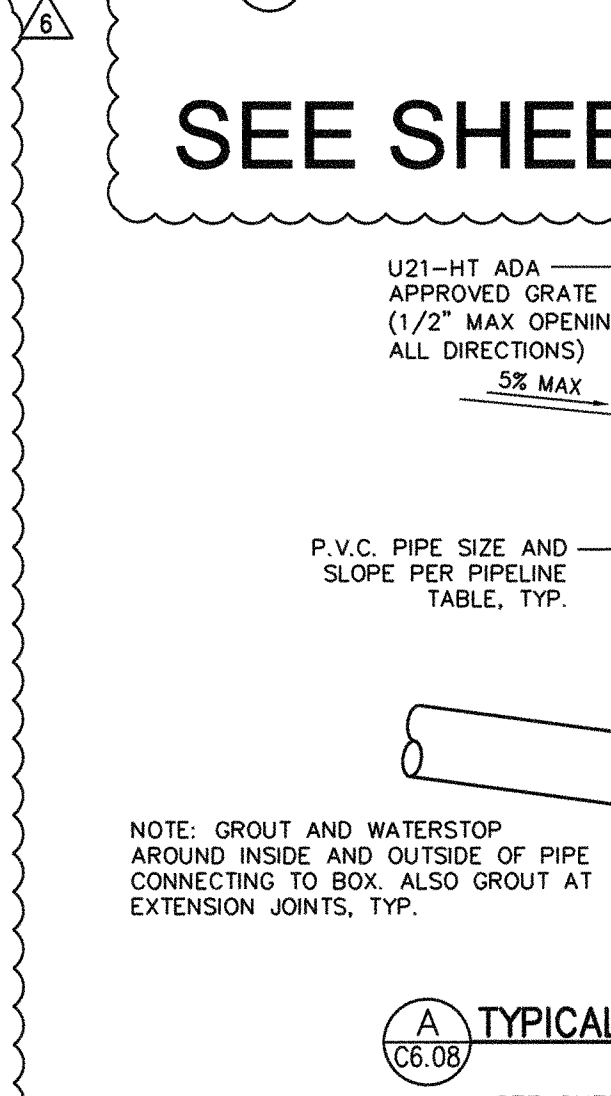
- STORM DRAIN NOTES**
- INSTALL PVC STORM DRAIN PIPE UNLESS OTHERWISE NOTED (SEE STORM DRAIN PIPELINE TABLE FOR PIPE SIZE, APPROXIMATE LENGTHS AND SLOPES)
 - CONSTRUCT STORM DRAIN MANHOLE PER DETAIL (C6.08) LID SHALL BE MARKED "STORM DRAIN"
 - INSTALL TRENCH DRAIN CONNECTION PER DETAIL (C6.08) (SEE SPECIFICATIONS ON SHEET C6.08)
 - INSTALL CHRISTY U21 CATCH BASIN WITH U21-HT GRATE PER DETAIL (C6.09)
 - INSTALL CHRISTY V05 DRAIN BOX WITH RISER AND V1-71C GRATE PER DETAIL (C6.08)
 - INSTALL CHRISTY V12 DRAIN BOX WITH RISER AND V12-71W GRATE PER DETAIL (C6.08)
 - CONSTRUCT STORM DRAIN CLEANOUT PER DETAIL (C6.09)
 - INSTALL CHRISTY V12 DRAIN BOX WITH CONCRETE BOTTOM AND V12-71W GRATE PER DETAIL (C6.08)
 - TIE INTO EXISTING 18" STORM DRAIN STUB PER "INCREMENT #1" PLANS (CONTRACTOR SHALL VERIFY EXACT LOCATION AND DEPTH IN FIELD AND NOTIFY ENGINEER IF THERE ARE ANY DISCREPANCIES)
 - NOT USED.
 - INSTALL WATTS RD-970 4"x3" DOWNSPOUT BOOT AT RECTANGULAR DOWNSPOUT LOCATIONS. CONNECT DOWNSPOUT BOOT TO PVC STORM DRAIN WITH 4" PVC RISER. INSTALL CONNECTION TO DOWNSPOUT USING PVC FITTINGS AND 3"x4" REDUCER AT ROUND DOWNSPOUT LOCATIONS.
 - INSTALL 4" PVC STORM DRAIN PIPE @ 1/8" MIN. FOR ROOF DRAIN CONNECTION, COORDINATE ROOF DRAIN LOCATIONS WITH BUILDING PLANS (TYP).
- NOTE: 1. FLARE GUTTER AT CHRISTY BOXES AS SHOWN.
 2. LATERAL CONNECTIONS TO MAINS THAT DO NOT OCCUR IN JUNCTION BOXES SHALL BE MADE WITH 45° ELLS OR WYES FOR CLEANOUT PURPOSES.
 3. CONTRACTOR SHALL RAISE ALL MANHOLES, CLEANOUTS, ETC. TO GRADE.

STORM DRAIN PIPE TABLE

No.	SLOPE	SIZE	LENGTH
(1)	1.32%	18"	88.3 LF±
(2)	0.20%	18"	100.6 LF±
(3)	0.20%	15"	78.4 LF±
(4)	0.20%	15"	178.2 LF±
(5)	0.50%	8"	116.6 LF±
(6)	0.50%	12"	109.1 LF±
(7)	0.50%	12"	156.7 LF±
(8)	0.50%	8"	180.3 LF±
(9)	0.50%	12"	165.6 LF±
(10)	0.50%	8"	66.3 LF±
(11)	0.50%	12"	110.1 LF±
(12)	1.0%	8"	74.3 LF±
(13)	1.0%	8"	27.8 LF±
(14)	1.0%	8"	44.3 LF±
(15)	2.0%	4"	35.1 LF±
(16)	1.32%	4"	82.5 LF±
(17)	1.0%	4"	37.4 LF±
(18)	1.0%	4"	32.6 LF±
(19)	1.0%	6"	41.7 LF±
(20)	0.25%	12"	54.5 LF±
(21)	0.50%	10"	75.1 LF±
(22)	0.50%	8"	72.1 LF±
(23)	0.50%	6"	27.9 LF±
(24)	0.50%	8"	49.1 LF±
(25)	0.35%	8"	125.5 LF±
(26)	0.35%	8"	58.8 LF±
(27)	0.50%	6"	25.9 LF±
(28)	0.35%	8"	59.8 LF±
(29)	0.26%	12"	83.4 LF±
(30)	2.0%	4"	28.0 LF±
(31)	2.0%	4"	32.6 LF±
(32)	2.0%	4"	28.6 LF±
(33)	2.0%	4"	27.0 LF±
(34)	2.0%	4"	32.6 LF±
(35)	0.50%	8"	42.8 LF±
(36)	0.50%	8"	49.2 LF±
(37)	0.25%	12"	86.2 LF±
(38)	0.25%	12"	42.0 LF±
(39)	0.38%	15"	120.1 LF±
(40)	0.50%	8"	77.9 LF±
(41)	2.17%	6"	56.0 LF±
(42)	1.0%	6"	68.8 LF±
(43)	1.0%	6"	19.1 LF±
(44)	1.0%	6"	25.3 LF±
(45)	1.82%	15"	99.9 LF±
(46)	2.87%	18"	32.9 LF±
(47)	2.87%	18"	26.1 LF±
(48)	0.71%	18"	50.8 LF±
(49)	0.25%	15"	32.6 LF±
(50)	0.25%	12"	44.2 LF±
(51)	0.50%	12"	38.8 LF±
(52)	0.50%	12"	29.3 LF±
(53)	0.35%	12"	228.4 LF±
(54)	1.81%	12"	97.5 LF±
(55)	0.25%	12"	44.2 LF±
(56)	1.0%	12"	5.7 LF±
(57)	0.25%	12"	54.4 LF±
(58)	0.50%	8"	45.8 LF±
(59)	0.50%	8"	44.4 LF±
(60)	0.50%	8"	45.9 LF±
(61)	2.0%	6"	30.2 LF±
(62)	2.0%	6"	18.8 LF±
(63)	2.0%	6"	13.8 LF±

STORM DRAIN JUNCTION TABLE

No.	TYPE	TOG-TMH	INVERTS
(A)	(1)	89.1 ±	77.84 18" E-W
(B)	(3)	86.95	79.02 18" E-W
(C)	(3)	86.70	79.22 18" E-W 79.47 15" W
(D)	(3)	87.20	79.63 15" E-W
(E)	(1)	90.0 ±	79.99 15" E 80.24 12" NW & SW 82.91 8" NE
(F)	(3)	88.10	83.50 8" SW
(G)	(3)	88.10	80.79 12" SE & W
(H)	(3)	88.02	81.57 12" E 81.90 8" W
(I)	(3)	88.55	82.80 8" E
(J)	(1)	89.2 ±	81.07 12" NE 82.40 12" SE & 8" NW
(K)	(3)	88.35	82.73 8" SE
(L)	(3)	89.00	82.95 12" NW 83.28 8" S & SE
(M)	(3)	89.35	84.03 8" NW
(N)	(4)	89.90	85.29 4" SW & SE
(O)	(4)	89.90	85.00 4" NE
(P)	(3)	89.90	85.50 4" SW
(Q)	(4)	89.90	86.12 4" N & S
(R)	(4)	89.90	85.79 4" N 85.71 6" S
(S)	(4)	89.90	83.25 12" NE & SW 85.29 6" NW
(T)	(4)	89.35	83.39 10" SW & 12" NE
(U)	(4)	89.00	83.88 10" NE 83.75 8" SW
(V)	(3)	87.50	84.42 6" NW
(W)	(1)	89.9 ±	84.36 8" NE & SW
(X)	(3)	88.00	84.80 8" NE
(Y)	(3)	88.90	84.40 8" N
(Z)	(3)	87.90	84.50 8" W
(AA)	(1)	89.15	83.66 12" NE 83.99 8" S
(AB)	(4)	89.90	85.25 4" E & W
(AC)	(4)	89.90	85.90 4" W
(AD)	(7)	89.90	84.69 4" E & NW
(AE)	(4)	89.90	85.44 4" SE & NW
(AF)	(4)	89.90	86.10 4" SW
(AG)	(1)	89.6 ±	83.63 8" NE 83.65 8" S 85.12 6" E
(AH)	(1)	89.6 ±	83.36 8" N 83.03 12" SW & SE 86.12 6" NE
(AI)	(1)	89.6 ±	82.71 12" NW 83.21 12" SW 82.46 15" E
(AJ)	(1)	89.40	82.00 15" W & NE 82.58 8" S
(AK)	(3)	89.30	82.87 8" N 83.78 6" E 83.14 6" S
(AL)	(1)	89.70	85.00 6" S
(AM)	(7)	89.85	83.83 6" N & SW
(AN)	(7)	89.70	84.02 6" NE & NW
(AO)	(7)	89.80	84.27 6" SE
(AP)	(3)	87.45	80.19 15" SW 79.94 18" NE
(AQ)	(3)	86.90	79.99 18" N & SW
(AR)	(1)	88.8 ±	78.95 18" S
(AS)	(3)	86.59	78.71 18" N 78.96 15" S
(AT)	(3)	86.99	79.04 15" N & S
(AU)	(1)	88.1 ±	79.16 15" N 81.47 12" SW 79.41 12" SE
(AV)	(3)	87.35	79.60 12" NW & E
(AW)	(3)	89.10	82.27 12" NE & S
(AX)	(1)	88.1 ±	84.03 12" N & W
(AY)	(3)	87.98	84.20 12" N
(AZ)	(1)	88.6 ±	84.28 12" E 84.28 8" N
(BA)	(3)	89.20	84.74 8" S
(BB)	(7)	89.05	84.04 6" NE & SE 83.87 8" SW 84.20 4" NW
(BC)	(7)	89.50	84.72 6" SW
(BD)	(7)	91.00	84.64 6" NW & E
(BE)	(7)	90.15	85.02 6" N & W
(BF)	(7)	89.80	85.30 6" S
(BG)	(5)	90.00	85.07 6" W
(BH)	(5)	91.00	85.00 6" S
(BI)	(5)	89.70	85.13 6" S
(BJ)	(7)	89.70	83.87 6" SE
(BK)	(7)	89.90	84.32 4" SE



STORM DRAIN PIPE TABLE CONT.

No.	SLOPE	SIZE	LENGTH
(64)	2.0%	6"	44.6 LF±
(65)	10%	6"	15.7 LF±
(66)	10%	6"	15.8 LF±
(67)	2.0%	6"	60.4 LF±
(68)	2.0%	4"	30.8 LF±
(69)	2.0%	6"	12.8 LF±
(70)	1.0%	6"	68 LF±
(71)	0.25%	18"	61.8 LF±
(72)	0.25%	12"	88.7 LF±

STORM DRAIN JUNCTION TABLE CONT.

No.	TYPE	TOG-TMH	INVERTS
(GA)	(5)	87.80	84.73 8" W
(GB)	(5)	87.60	84.00 8" E
(GC)	(1)	87.4 ±	78.24 18" E&S
(GD)	(3)	89.90	83.44 12" NE&SW 84.13 4" SE 84.90 4" NW

SEE SHEET C6.09

SEE AREA DETAIL (C6.09)

PRODUCT: DURATRENCH DTRPF6-08CR24BPB-HDBPR15TSA-GLVR6-NSR-6B
(INSTALL TRENCH DRAIN PER MANUFACTURER'S RECOMMENDATIONS)

TRENCH BODY
TRENCH DRAIN SHALL BE DURATRENCH AS MANUFACTURED BY ERICSONS, 574C INDUSTRIAL WAY N., DALLAS, GA 30132 - (770-505-6575). THE TRENCH DRAIN BODY SHALL BE CAST IN A TRUE RADIUS FOR A SMOOTH, NON-SEGMENTED CURVE. THE TRENCH DRAIN BODY SHALL BE COMPOSED OF POLYESTER FIBER REINFORCED POLYMER CONCRETE. THE TRENCH SHALL HAVE A 6" CLEAR OPEN THROAT AND HAVE A ROUNDED OR FLAT BOTTOM AS INDICATED IN DETAILS. THE TRENCH BODY SHALL BE GRAY IN COLOR TO CLOSELY RESEMBLE THE COLOR OF CONCRETE AND HAVE A SMOOTH INTERIOR FOR IMPROVED FLOW RATES AND REDUCED DEBRIS BUILD-UP. SECTIONS SHALL BE 96" LONG (TYPICAL) AND HAVE A 2" RECEIVING FLANGE ON THE UPSTREAM END FOR RECEIVING AND SEALING THE TRENCH SECTIONS TOGETHER. EACH OF THE SECTIONS SHALL BE LABELED TO INDICATE PROPER FLOW AND PLACEMENT THE TRENCH BODY SHALL MATE TO THE FRAME AND FORM A GRATE SEAT THAT SHALL ACCEPT THE SPECIFIED GRATE. THE BODY SHALL BE SUPPLIED WITH A FACTORY FIP FOR RAIL ALIGNMENT AND FASTENING OF THE CHANNELS IN THE FIELD ENSURING THAT THE RAILS ARE CAST IN A COPLANAR MANNER. THE TRENCH BODY SHALL HAVE THE FOLLOWING PROPERTIES: 12,600 PSI MINIMUM TENSILE STRENGTH PER ASTM C307, 12,000 PSI MINIMUM COMPRESSIVE STRENGTH PER ASTM C578, 26,500 PSI MINIMUM FLEXURAL STRENGTH PER ASTM C582, LESS THAN 0.35% WATER ABSORPTION, SHALL BE FROST PROOF, SALT PROOF, AND BE RESISTANT TO ALKALIS AND ALKALIS PER ASTM C687.

GRATING
GRATING SHALL BE 08CR24BPB TRUE RADIUS HEAVY DUTY ADA COMPLIANT AND HEEL GUARD LONGITUDINAL SLOTTED GRATE. THE GRATE SHALL BE FABRICATED USING A-36 STEEL. THE GRATE SHALL BE POWDER COATED BLACK. THE GRATE SHALL BE 8" WIDE X 24" LONG X 1.5" THICK AND HAVE A MINIMUM LOAD RATING OF DIN CLASS B.

FRAME
HEAVY DUTY LOAD BEARING FRAME ROLLED IN A TRUE RADIUS. FRAME IS CONSTRUCTED OF 3/16" THICK STRUCTURAL STEEL TO ACCEPT 1/2" THICK GRATES. FRAMES SHALL BE POWDER COATED BLACK FOR CORROSION RESISTANCE. FRAMES SHALL HAVE 3" X 3/8" DIAMETER HEADED CONCRETE ANCHORS AT 18" O.C. AND SHALL HAVE RIGID METAL INSTALLATION DEVICES SECURELY AFFIXED TO THE FRAME FOR LEVELING AND ALIGNING OF THE TRENCH DRAIN SYSTEM. FRAMES SHALL PROVIDE FOR A MINIMUM OF 63 SQUARE INCHES OF BEARING AREA PER GRATE. FRAME SHALL CONFORM TO ASTM A-36/A36M-93A. THE FRAME IS RATED TO SUPPORT GRATES UP TO LOAD CLASS E.

GRATE LOCKS
GRATE LOCKS SHALL BE SECURELY LOCKED TO FRAME WITH VANDAL RESISTANT STAINLESS STEEL BOLT AND LOCKING TOGGLE. ONE KEY SHALL BE PROVIDED PER 50 LOCKS. BOLTS SHALL BE TORQUED TO 45 INCH-LBS.

OUTLETS
TRENCH SHALL OUTLET WITHOUT RESTRICTION INTO A 6" PIPE IN THE BOTTOM OF THE TRENCH.

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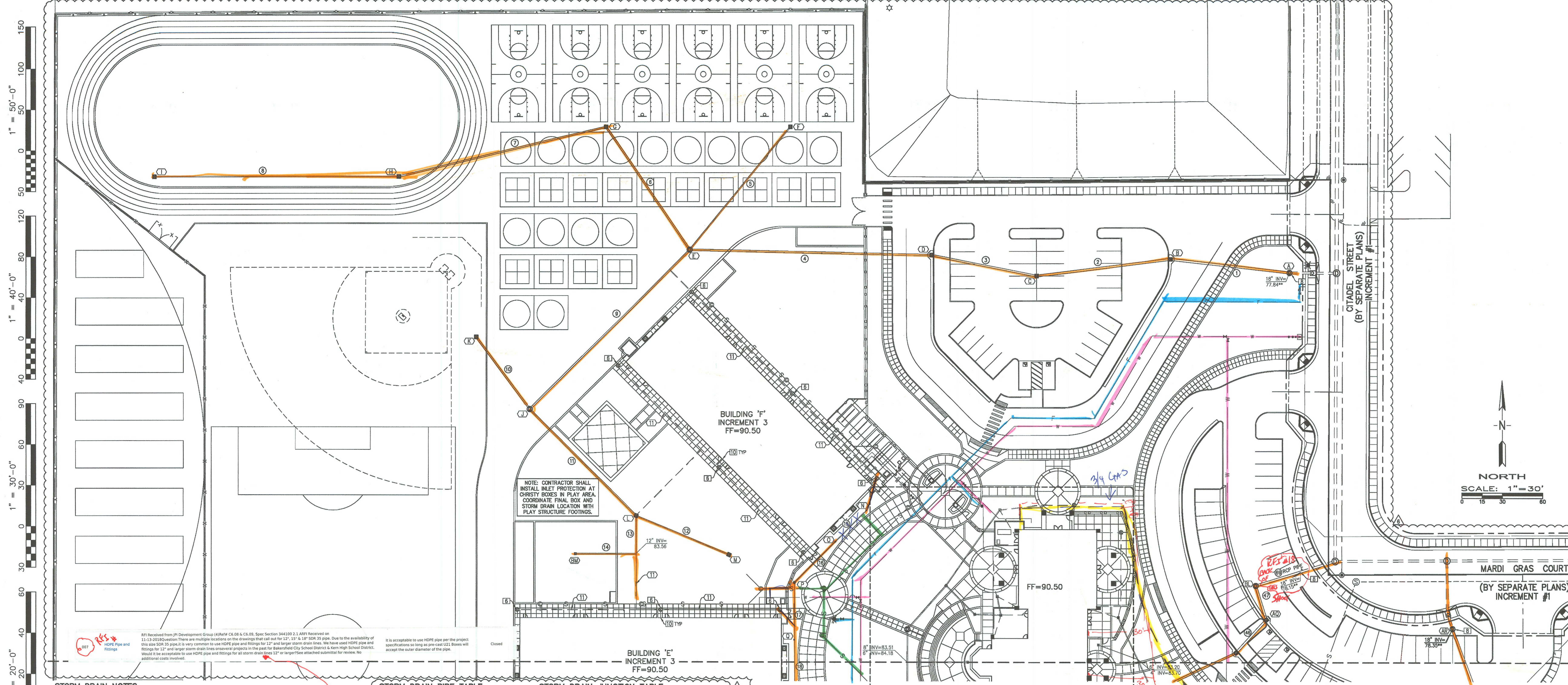
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Revision: **C6.08**
Date: 3/21/19
Scale: 1"=50'
Project: NEW ELEMENTARY SCHOOL INCREMENT 2
Location: BAKERSFIELD CITY SCHOOL DISTRICT
Address: @ CITADEL STREET & MARDI GRAS COURT

Agency Approval Stamp:
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
03-118394
AC FLS SS
DATE
TRACKING #: 63321-300

Stamp(s):
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STATE OF CALIFORNIA
RCE 33448
REGISTERED PROFESSIONAL ARCHITECT
STATE OF CALIFORNIA
No. C 2886
EXPIRES 5-31-19

Job No: **5262**
Sheet No: **C6.08**
Release: CCD 3
LACIE RASLEY

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STORM DRAIN NOTES

- 1. INSTALL PVC STORM DRAIN PIPE UNLESS OTHERWISE NOTED (SEE STORM DRAIN PIPELINE TABLE FOR PIPE SIZE, APPROXIMATE LENGTHS AND SLOPES).
- 2. CONSTRUCT STORM DRAIN MANHOLE PER DETAIL (A) LID SHALL BE MARKED "STORM DRAIN".
- 3. INSTALL TRENCH DRAIN CONNECTION PER DETAIL (B) (SEE SPECIFICATIONS ON SHEET C6.09).
- 4. INSTALL CHRISTY U21 CATCH BASIN WITH U21-HT GRATE PER DETAIL (A).
- 5. INSTALL CHRISTY V05 DRAIN BOX WITH RISER AND V1-71C GRATE PER DETAIL (B).
- 6. INSTALL CHRISTY V12 DRAIN BOX WITH RISER AND V12-71W GRATE PER DETAIL (C).
- 7. CONSTRUCT STORM DRAIN CLEANOUT PER DETAIL (D).
- 8. INSTALL CHRISTY V12 DRAIN BOX WITH CONCRETE BOTTOM AND V12-71W GRATE PER DETAIL (D).
- 9. THE INTO EXISTING 18" STORM DRAIN STUB PER "INCREMENT #1" PLANS (CONTRACTOR SHALL VERIFY EXACT LOCATION AND DEPTH IN FIELD AND NOTIFY ENGINEER IF THERE ARE ANY DISCREPANCIES).
- 10. PLUG END FOR CONNECTION BY PLUMBING CONTRACTOR FOR PLAY AREA DRAINS.
- 11. INSTALL WATTS RD-970 4"x3" DOWNSPOUT BOOT AT DOWNSPOUT LOCATIONS. CONNECT DOWNSPOUT BOOT TO PVC STORM DRAIN WITH 4" PVC RISER.
- 12. INSTALL 4" PVC STORM DRAIN PIPE @ 1% MIN. FOR ROOF DRAIN CONNECTION, COORDINATE ROOF DRAIN LOCATIONS WITH BUILDING PLANS (TYP).

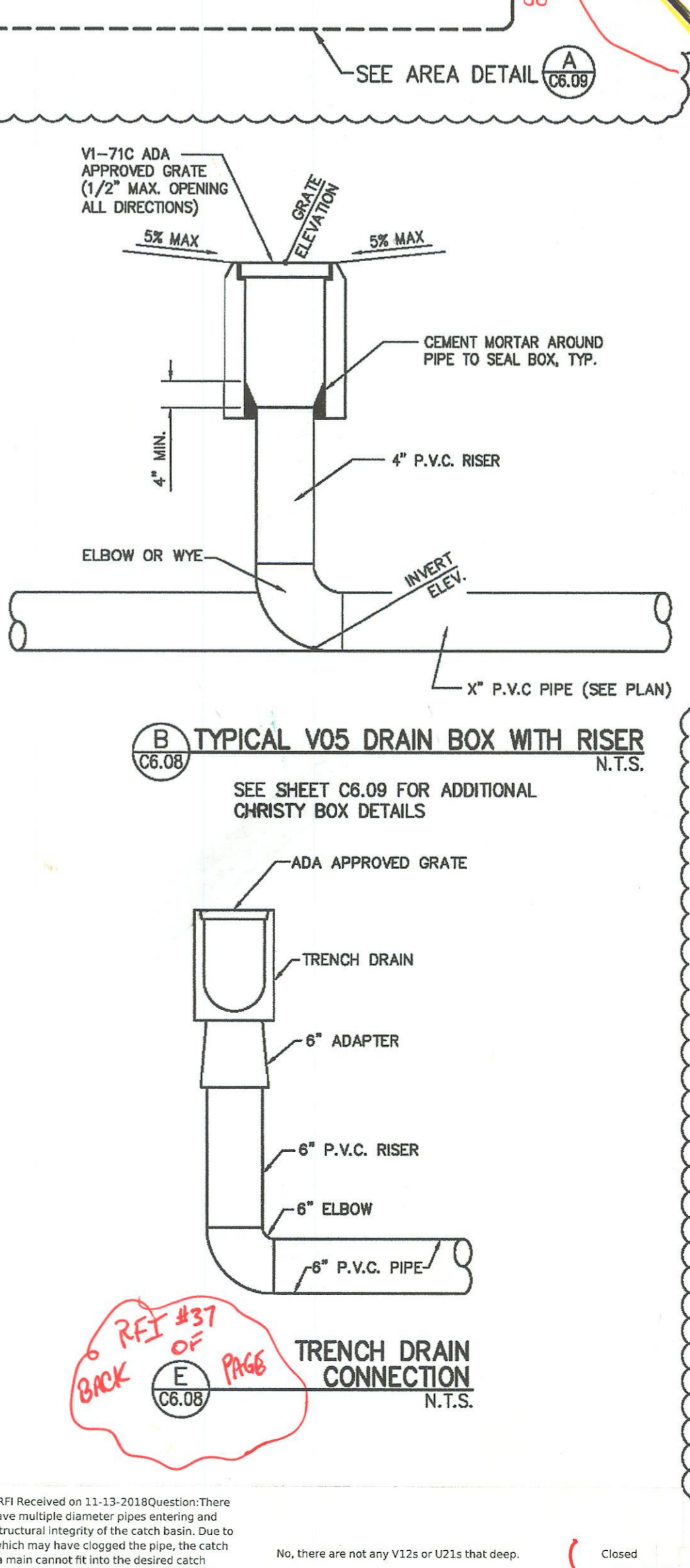
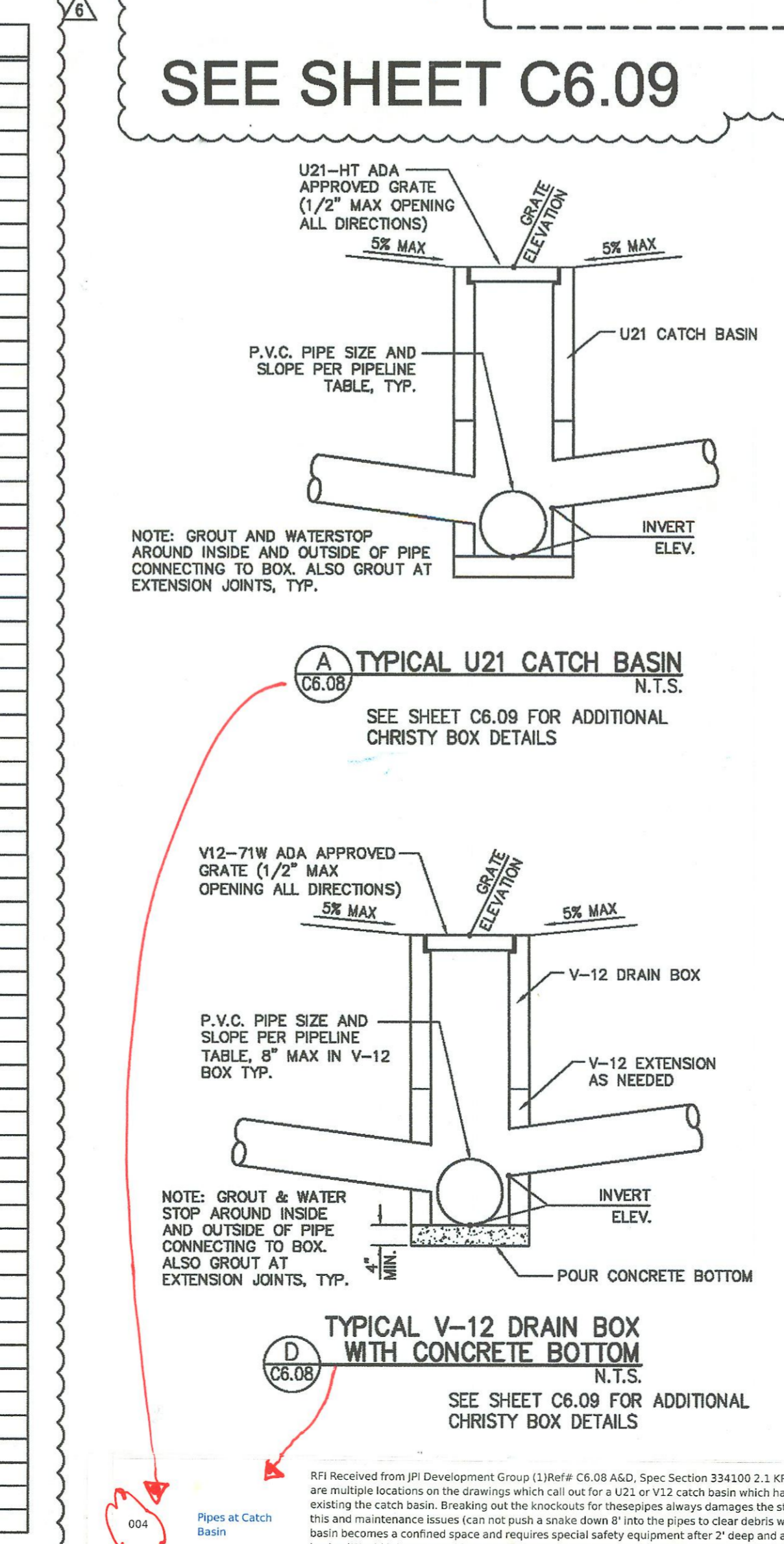
NOTE:
1. FLARE GUTTER AT CHRISTY BOXES AS SHOWN.
2. LATERAL CONNECTIONS TO MAINS THAT DO NOT OCCUR IN JUNCTION BOXES SHALL BE MADE WITH 45° ELLS OR WYES FOR CLEANOUT PURPOSES.
3. CONTRACTOR SHALL RAISE ALL MANHOLES, CLEANOUTS, ETC. TO GRADE.

STORM DRAIN PIPE TABLE

No.	SLOPE	SIZE	LENGTH
1	1.32%	18"	88.3 LFS
2	0.20%	18"	100.6 LFS
3	0.20%	15"	78.4 LFS
4	0.20%	15"	178.2 LFS
5	0.50%	8"	118.6 LFS
6	0.50%	12"	109.1 LFS
7	0.50%	12"	156.7 LFS
8	0.50%	8"	180.3 LFS
9	0.50%	12"	165.6 LFS
10	0.50%	8"	68.3 LFS
11	0.60%	12"	110.1 LFS
12	1.0%	8"	74.3 LFS
13	1.0%	8"	27.8 LFS
14	1.0%	8"	44.3 LFS
15	1.0%	4"	32.6 LFS
16	1.0%	4"	42.3 LFS
17	1.0%	6"	41.8 LFS
18	1.0%	6"	32.6 LFS
19	1.0%	6"	38.9 LFS
20	0.25%	12"	51.6 LFS
21	0.25%	10"	75.1 LFS
22	0.50%	8"	72.1 LFS
23	0.50%	6"	27.9 LFS
24	0.50%	8"	49.1 LFS
25	0.35%	8"	125.5 LFS
26	0.35%	8"	58.9 LFS
27	0.50%	8"	29.3 LFS
28	0.35%	8"	58.8 LFS
29	0.25%	12"	179.9 LFS
30	2.0%	4"	33.5 LFS
31	2.0%	4"	32.6 LFS
32	2.0%	4"	40.6 LFS
33	2.0%	4"	32.6 LFS
34	2.0%	8"	42.8 LFS
35	0.60%	8"	48.2 LFS
36	0.25%	12"	89.2 LFS
37	0.97%	12"	49.1 LFS
38	0.38%	15"	120.1 LFS
39	0.50%	8"	77.9 LFS
40	2.17%	6"	56.0 LFS
41	1.0%	6"	68.8 LFS
42	1.0%	6"	18.1 LFS
43	1.0%	6"	29.3 LFS
44	1.82%	15"	99.9 LFS
45	2.87%	18"	32.9 LFS
46	2.87%	18"	26.1 LFS
47	0.71%	18"	50.8 LFS
48	0.25%	15"	32.8 LFS
49	0.20%	15"	61.7 LFS
50	0.50%	12"	38.8 LFS
51	0.50%	12"	29.3 LFS
52	0.35%	12"	228.4 LFS
53	1.01%	12"	97.5 LFS
54	0.25%	12"	44.2 LFS
55	1.0%	12"	5.7 LFS
56	0.25%	12"	54.4 LFS
57	0.50%	8"	45.8 LFS
58	0.50%	8"	44.4 LFS
59	0.50%	8"	45.9 LFS
60	2.0%	6"	30.1 LFS
61	2.0%	6"	18.8 LFS
62	2.0%	6"	13.8 LFS

STORM DRAIN JUNCTION TABLE

No.	TYPE	TOG-TMH	INVERTS
(A)	1	89.1 ±	77.84 18" E-W
(B)	1	86.95	79.02 18" E-W
(C)	1	86.70	79.22 18" E-W
(D)	1	87.20	79.63 15" E-W
(E)	1	90.0 ±	79.99 15" E 90.24 12" NW & SW 82.91 8" NE
(F)	1	88.10	83.50 8" SW
(G)	1	88.10	80.79 12" SE & W
(H)	1	88.02	81.57 12" E 81.90 8" W
(I)	1	88.55	82.80 8" E
(J)	1	89.2 ±	81.07 12" NE 82.40 12" SE & 8" NW
(K)	1	88.35	82.73 8" E
(L)	1	89.00	82.95 12" NW 83.28 8" S & SE
(M)	1	89.35	84.03 8" NW
(N)	1	89.90	85.90 4" SW
(O)	1	89.90	85.57 4" NE & SW
(P)	1	89.90	85.15 4" NW 84.98 8" S
(Q)	1	89.90	84.56 8" N & S
(R)	1	89.90	84.23 8" N & SE
(S)	1	89.90	83.25 12" NE & SW
(T)	1	89.35	83.22 12" NE 83.39 10" SW
(U)	1	89.00	83.58 10" NE 83.75 8" SW
(V)	1	87.50	84.25 8" NW
(W)	1	89.9 ±	84.36 8" NE & SW
(X)	1	88.00	84.80 8" NE
(Y)	1	88.90	84.40 8" E
(Z)	1	87.80	84.50 8" W
(AA)	1	89.15	83.68 12" NE 83.99 8" S
(AB)	1	88.90	85.12 4" E & W
(AC)	1	89.90	85.77 4" W
(AD)	1	89.90	84.64 4" E & NW
(AE)	1	89.90	85.45 4" SE & NW
(AF)	1	89.90	86.19 4" E
(AG)	1	89.90	83.65 8" S 86.12 6" E
(AH)	1	89.55 ±	83.36 8" N 83.03 12" SW & SE 86.12 6" NE
(AI)	1	89.55 ±	82.71 12" NW 83.21 12" SW 82.48 15" E
(AJ)	1	89.40	82.00 15" W & NE 82.58 8" S
(AK)	1	89.30	82.97 8" N 83.78 6" E 83.14 6" S
(AL)	1	89.70	85.00 8" E
(AM)	1	88.85	83.83 8" N & SW
(AN)	1	89.70	84.02 6" NE & NW
(AO)	1	89.80	84.27 6" SE
(AP)	1	87.45	80.19 15" SW 79.94 18" NE
(AQ)	1	86.90	78.99 18" N & SW
(AR)	1	88.4 ±	78.35 15" S
(AS)	1	86.59	78.71 18" N 78.96 15" S
(AT)	1	86.99	79.04 15" N & S
(AU)	1	88.1 ±	79.16 15" N 81.47 12" SW 79.41 12" SE
(AV)	1	87.35	79.80 12" NW & E
(AW)	1	89.10	82.27 12" NE & S
(AX)	1	88.3 ±	84.03 12" N & W
(AY)	1	87.98	84.20 12" N
(AZ)	1	88.6 ±	84.28 12" E 84.28 8" N
(BA)	1	89.20	84.74 8" S
(BB)	1	89.05	84.04 8" NE 83.87 8" SW 84.04 8" SE
(BC)	1	89.50	84.72 8" SW
(BD)	1	91.00	84.64 8" NW & E
(BE)	1	90.15	85.02 6" N & W
(BF)	1	89.80	85.30 8" S
(BG)	1	90.00	85.07 6" W
(BH)	1	91.00	85.67 6" S
(BI)	1	89.70	84.42 8" E
(BJ)	1	89.70	83.87 8" SE
(BK)	1	89.90	84.32 4" SE



PRODUCT: DURATRENCH DTRPF6-08CR248PB-HDBPR15TSA-GLVR6-NSR-6B (INSTALL TRENCH DRAIN PER MANUFACTURER'S RECOMMENDATIONS)

TRENCH BODY
TRENCH DRAIN SHALL BE DURATRENCH AS MANUFACTURED BY ERIC'SONS, 574C INDUSTRIAL WAY N., DALLAS, GA 30132 - (770-505-6575). THE TRENCH DRAIN BODY SHALL BE CAST IN A TRUE RADIUS FOR A SMOOTH, NON-SEGMENTED CURVE. THE TRENCH DRAIN BODY SHALL BE COMPOSED OF POLYESTER FIBER REINFORCED POLYMER CONCRETE. THE TRENCH SHALL HAVE A 6" CLEAR OPEN THROAT AND HAVE A ROUNDED OR FLAT BOTTOM AS INDICATED IN DETAILS. THE TRENCH BODY SHALL BE GRAY IN COLOR TO CLOSELY RESEMBLE THE COLOR OF CONCRETE AND HAVE A SMOOTH INTERIOR FOR IMPROVED FLOW RATES AND REDUCED DEBRIS BUILD-UP. SECTIONS SHALL BE 96" LONG (TYPICAL) AND HAVE A 2" RECEIVING FLANGE ON THE UPSTREAM END FOR RECEIVING AND SEALING THE TRENCH SECTIONS TOGETHER. EACH OF THE SECTIONS SHALL BE LABELED TO INDICATE PROPER FLOW AND PLACEMENT. THE TRENCH BODY SHALL MATE TO THE FRAME AND FORM A GRATE SEAT THAT ACCEPTS THE SPECIFIED GRATE. THE BODY SHALL BE SUPPLIED WITH A FACTORY FIT TOP FOR RAIL ALIGNMENT AND FASTENING OF THE CHANNELS IN THE FIELD ENSURING THAT THE RAILS ARE CAST IN A COPLANAR MANNER. THE TRENCH BODY SHALL HAVE THE FOLLOWING PROPERTIES: 12,600 PSI MINIMUM TENSILE STRENGTH PER ASTM C307, 12,000 PSI MINIMUM COMPRESSIVE STRENGTH PER ASTM C579, 28,500 PSI MINIMUM FLEXURAL STRENGTH PER ASTM C580, LESS THAN 0.35% WATER ABSORPTION, SHALL BE FROST PROOF, SALT PROOF, AND BE RESISTANT TO DILUTE ACIDS AND ALKALIS PER ASTM C287.

GRATING
GRATING SHALL BE 08CR248PB TRUE RADIUS HEAVY DUTY ADA COMPLIANT AND HELL GUARD LONGITUDINAL SLOTTED GRATE. THE GRATE SHALL BE FABRICATED USING A-36 STEEL. THE GRATE SHALL BE POWER COATED BLACK. THE GRATE SHALL BE 6" WIDE X 24" LONG X 1.5" THICK AND HAVE A MINIMUM LOAD RATING OF DIN CLASS B.

FRAME
HEAVY DUTY LOAD BEARING FRAME ROLLED IN A TRUE RADIUS. FRAME IS CONSTRUCTED OF 3/16" THICK STRUCTURAL STEEL TO ACCEPT 1 1/2" THICK GRATES. FRAMES SHALL BE POWER COATED BLACK FOR CORROSION RESISTANCE. FRAMES SHALL HAVE 3" X 3/8" DIAMETER HEADED CONCRETE ANCHORS AT 18" O.C. AND SHALL HAVE RIGID METAL INSTALLATION DEVICES SECURELY AFFIXED TO THE FRAME FOR LEVELING AND ALIGNING OF THE TRENCH DRAIN SYSTEM. FRAMES SHALL PROVIDE FOR A MINIMUM OF 63 SQUARE INCHES OF BEARING AREA PER GRATE. FRAME SHALL CONFORM TO ASTM A-36/A36M-93A. THE FRAME IS RATED TO SUPPORT GRATES UP TO LOAD CLASS E.

GRATE LOCKS
GRATES SHALL BE SECURELY LOCKED TO FRAME WITH VANDAL RESISTANT INCHLESS STEEL BOLT AND LOCKING TOGGLE. ONE KEY SHALL BE PROVIDED PER 50 GRATES. BOLTS SHALL BE TORQUED TO 45-55 FT-LBS.

OUTLETS
TRENCH SHALL OUTLET WITHOUT RESTRICTION INTO A 6" PIPE IN THE BOTTOM OF THE TRENCH.

STORM DRAIN PIPE TABLE CONT.

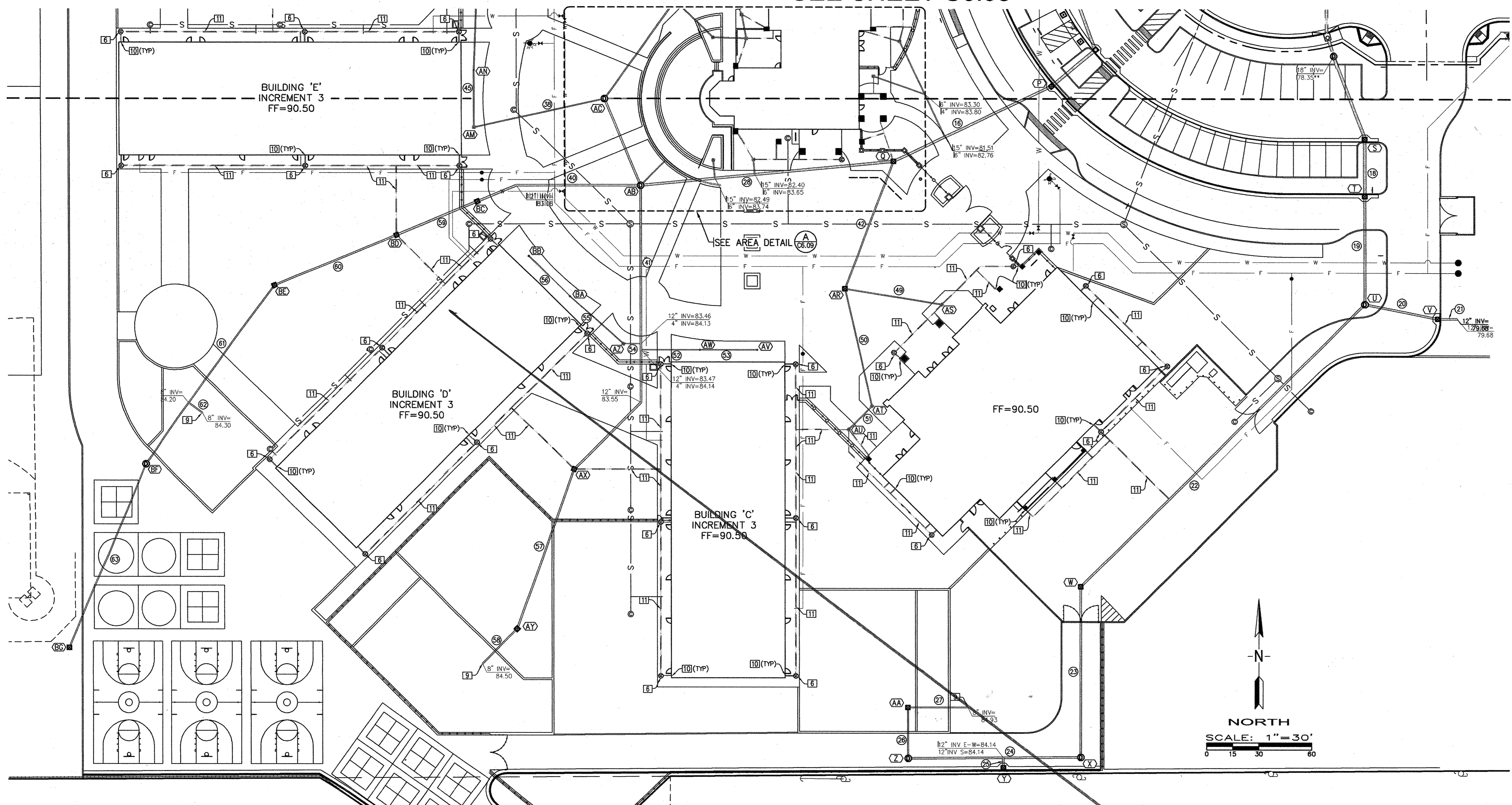
No.	SLOPE	SIZE	LENGTH
63	2.0%	6"	44.8 LFS
64	1.0%	6"	19.7 LFS
65	1.0%	6"	15.8 LFS
66	2.0%	6"	60.4 LFS
67	2.0%	4"	30.8 LFS
68	2.0%	4"	12.8 LFS
69	2.0%	6"	12.8 LFS
70	2.0%	6"	12.8 LFS

STORM DRAIN JUNCTION TABLE CONT.

No.	TYPE	TOG-TMH	INVERTS
(GL)	1	87.80	84.73 8" W
(GM)	1	87.60	84.00 8" E

NOTED: CONTRACTOR SHALL RAISE ALL MANHOLES, CLEANOUTS, ETC. TO GRADE.
IF RECEIVED FROM JH DEVELOPMENT GROUP (11/08/18) CK-08 ADD. SPEC. SECTION 334100 2.1. AMI RECEIVED ON 11-13-2018. THERE ARE MULTIPLE LOCATIONS ON THE DRAWINGS THAT CALL OUT FOR 12", 15", 18" OR 36" DIA. PIPES. DUE TO THE AVAILABILITY OF THIS SIZE PIPE, IT IS IN MANY CASES TO USE 18" DIA. PIPE AND FITTINGS FOR 12" AND LARGER STORM DRAIN LINES. WE HAVE USED 18" DIA. PIPE AND FITTINGS FOR 12" AND LARGER STORM DRAIN LINES UNLESS OTHERWISE NOTED. THIS IS NOT TO BE INTERPRETED AS A CHANGE TO THE ORIGINAL DRAWING. CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND DEPTH OF ALL EXISTING AND PROPOSED STORM DRAIN LINES AND MANHOLES. IF THERE ARE ANY DISCREPANCIES, NOTIFY THE ARCHITECT IMMEDIATELY. CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND DEPTH OF ALL EXISTING AND PROPOSED STORM DRAIN LINES AND MANHOLES. IF THERE ARE ANY DISCREPANCIES, NOTIFY THE ARCHITECT IMMEDIATELY. CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND DEPTH OF ALL EXISTING AND PROPOSED STORM DRAIN LINES AND MANHOLES. IF THERE ARE ANY DISCREPANCIES, NOTIFY THE ARCHITECT IMMEDIATELY. CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND DEPTH OF ALL EXISTING AND PROPOSED STORM DRAIN LINES AND MANHOLES. IF THERE ARE ANY DISCREPANCIES, NOTIFY THE ARCHITECT IMMEDIATELY.

SEE SHEET C6.08



STORM DRAIN NOTES

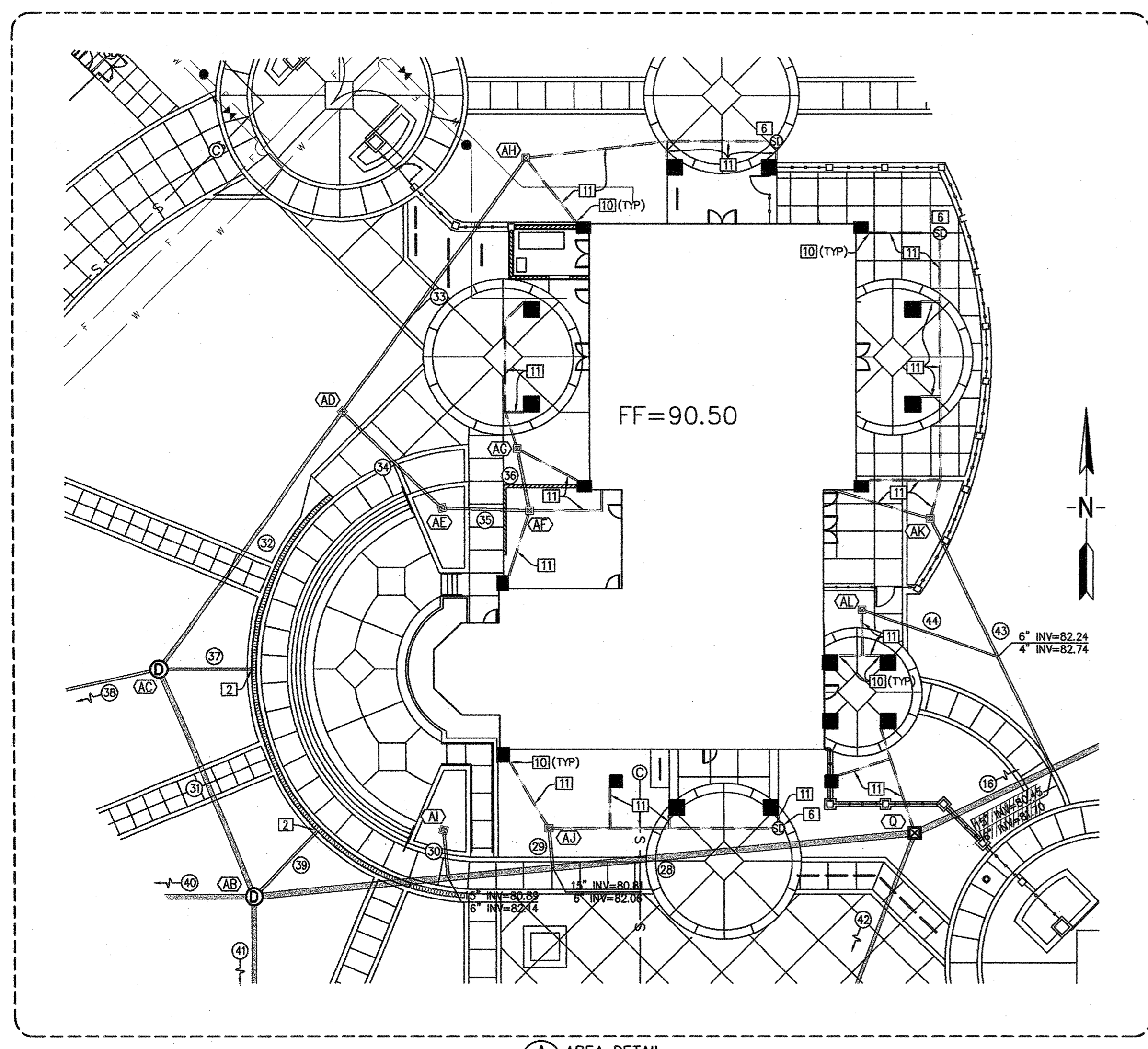
- INSTALL PVC STORM DRAIN PIPE UNLESS OTHERWISE NOTED (SEE STORM DRAIN PIPELINE TABLE FOR PIPE SIZE, APPROXIMATE LENGTHS AND SLOPES).
 - CONSTRUCT STORM DRAIN MANHOLE PER DETAIL (B) LID SHALL BE MARKED "STORM DRAIN"
 - INSTALL TRENCH DRAIN CONNECTION PER DETAIL (E)
 - INSTALL CHRISTY U21 CATCH BASIN WITH U21-HT GRATE PER DETAIL (A)
 - INSTALL CHRISTY V05 DRAIN BOX WITH RISER AND V1-71C GRATE PER DETAIL (B)
 - INSTALL CHRISTY V12 DRAIN BOX WITH RISER AND V12-71W GRATE PER DETAIL (C)
 - CONSTRUCT STORM DRAIN CLEANOUT PER DETAIL (D)
 - INSTALL CHRISTY V12 DRAIN BOX WITH CONCRETE BOTTOM AND V12-71W GRATE PER DETAIL (D)
 - TI INTO EXISTING 18" STORM DRAIN STUB PER "INCREMENT #1" PLANS (CONTRACTOR SHALL VERIFY EXACT LOCATION AND DEPTH IN FIELD AND NOTIFY ENGINEER IF THERE ARE ANY DISCREPANCIES)
 - PLUG END FOR CONNECTION BY PLUMBING CONTRACTOR FOR PLAY AREA DRAINS.
 - INSTALL WATTS RD-970 4"x3" DOWNSPOUT BOOT AT DOWNSPOUT LOCATIONS. CONNECT DOWNSPOUT BOOT TO PVC STORM DRAIN WITH 4" PVC RISER.
 - INSTALL 4" PVC STORM DRAIN PIPE @ 1/4" MIN. FOR ROOF DRAIN CONNECTION. COORDINATE ROOF DRAIN LOCATIONS WITH BUILDING PLANS (TYP).
- NOTE: 1. FLARE GUTTER AT CHRISTY BOXES AS SHOWN.
2. LATERAL CONNECTIONS TO MAINS THAT DO NOT OCCUR IN JUNCTION BOXES SHALL BE MADE WITH 45° ELLS OR WYES FOR CLEANOUT PURPOSES.
3. CONTRACTOR SHALL RAISE ALL MANHOLES, CLEANOUTS, ETC. TO GRADE.

STORM DRAIN PIPE TABLE

No.	SLOPE	SIZE	LENGTH
1	1.32%	18"	89.3 LF±
2	0.20%	18"	99.4 LF±
3	0.20%	15"	78.5 LF±
4	0.20%	15"	178.2 LF±
5	0.50%	6"	116.3 LF±
6	0.50%	12"	109.1 LF±
7	0.50%	12"	170.6 LF±
8	0.50%	8"	166 LF±
9	0.50%	12"	165.6 LF±
10	0.50%	6"	66.3 LF±
11	0.60%	12"	110.1 LF±
12	1.00%	6"	74.3 LF±
13	0.25%	18"	35 LF±
14	2.87%	18"	29.6 LF±
15	2.87%	18"	32.6 LF±
16	1.82%	18"	99.9 LF±
17	0.71%	18"	50.8 LF±
18	0.25%	15"	32.6 LF±
19	0.20%	15"	61.7 LF±
20	0.50%	12"	41.9 LF±
21	0.50%	12"	11.3 LF±
22	0.35%	12"	228.4 LF±
23	1.81%	12"	97.5 LF±
24	0.25%	12"	98.6 LF±
25	1.00%	12"	5.7 LF±
26	0.50%	8"	29.1 LF±
27	0.50%	6"	34.3 LF±
28	0.38%	15"	144.3 LF±
29	10%	6"	8.7 LF±
30	10%	6"	10.4 LF±
31	0.25%	12"	53.6 LF±
32	0.50%	8"	69.2 LF±
33	1.00%	6"	68 LF±
34	2.00%	6"	30 LF±
35	2.00%	6"	18.8 LF±
36	2.00%	6"	13.8 LF±
37	2.00%	6"	20.2 LF±
38	1.00%	6"	75.1 LF±
39	2.00%	6"	20.2 LF±
40	0.25%	12"	94.1 LF±
41	0.25%	12"	177.9 LF±
42	0.50%	8"	77.9 LF±
43	2.00%	6"	60.4 LF±
44	2.00%	4"	30.8 LF±
45	0.50%	6"	32.6 LF±
46	0.50%	6"	42.5 LF±
47	1.00%	4"	42.5 LF±
48	1.00%	4"	32.6 LF±
49	2.00%	6"	56 LF±
50	1.00%	6"	68.8 LF±
51	1.00%	6"	19.1 LF±
52	2.00%	4"	33.5 LF±
53	2.00%	4"	32.6 LF±
54	2.00%	4"	10 LF±
55	2.00%	4"	40.6 LF±
56	2.00%	4"	32.6 LF±
57	0.35%	10"	96.7 LF±
58	0.50%	8"	28.2 LF±
59	0.25%	10"	75.1 LF±
60	0.48%	8"	125.8 LF±
61	1.00%	8"	10 LF±
62	0.35%	8"	114 LF±

STORM DRAIN JUNCTION TABLE

No.	TYPE	TOC-TMH	INVERTS
(A)	11	77.84 18" E-W	
(B)	11	79.02 18" E-W	
(C)	11	79.22 18" E 79.47 15" W	
(D)	11	79.63 15" E-W	
(E)	11	80.0 ± 80.24 12" NW & SW 82.91 8" NE	
(F)	11	88.1 ±	
(G)	11	80.79 12" SE & W	
(H)	11	81.64 12" E 81.97 8" W	
(I)	11	88.15 ±	
(J)	11	82.64 8" E	
(K)	11	89.2 ±	
(L)	11	81.07 12" NE 82.40 12" SE & 8" NW	
(M)	11	88.35 ±	
(N)	11	89.20 ±	
(O)	11	83.06 12" NW 83.50 8" SE	
(P)	11	89.35 ±	
(Q)	11	84.24 8" NW	
(R)	11	87.4 ±	
(S)	11	78.24 18" E & SE	
(T)	11	79.09 18" NW & S	
(U)	11	87.45 ±	
(V)	11	80.03 18" NE 80.28 15" W	
(W)	11	89.40 ±	
(X)	11	82.10 15" E & W 82.66 8" SW	
(Y)	11	88.6 ±	
(Z)	11	78.35 18" N & S	
(AA)	11	86.59 ±	
(AB)	11	79.04 15" N & S	
(AC)	11	79.16 15" N 79.41 12" SE 81.47 12" SW	
(AD)	11	89.2 ±	
(AE)	11	79.82 12" E & W	
(AF)	11	89.10 ±	
(AG)	11	82.27 12" NE & S	
(AH)	11	88.3 ±	
(AI)	11	84.03 12" N & W	
(AJ)	11	87.97 ±	
(AK)	11	88.6 ±	
(AL)	11	84.28 12" E 84.61 8" N	
(AM)	11	88.8 ±	
(AN)	11	84.76 8" S & E	
(AO)	11	89.6 ±	
(AP)	11	83.24 12" S 85.98 6" NE	
(AQ)	11	89.6 ±	
(AR)	11	83.19 12" S 83.52 8" N 83.85 6" W 85.97 6" E	
(AS)	11	89.05 ±	
(AT)	11	83.87 8" SW 84.04 6" NE & SE	
(AU)	11	91.00 ±	
(AV)	11	84.64 8" NW & E	
(AW)	11	90.15 ±	
(AX)	11	85.02 6" W & N	
(AY)	11	89.80 ±	
(AZ)	11	85.30 6" S	
(BA)	11	89.50 ±	
(BB)	11	84.72 6" SW	
(BC)	11	91.00 ±	
(BD)	11	84.78 6" S	
(BE)	11	89.70 ±	
(BF)	11	84.52 6" S	
(BG)	11	89.70 ±	
(BH)	11	83.97 6" SE	
(BI)	11	89.90 ±	
(BJ)	11	84.62 6" N & E	
(BK)	11	89.90 ±	
(BL)	11	84.76 6" N & S	
(BM)	11	89.90 ±	
(BN)	11	84.97 6" S 85.14 4" NE	
(BO)	11	89.90 ±	
(BP)	11	85.57 4" NE & SW	
(BQ)	11	89.90 ±	
(BR)	11	85.90 4" SW	
(BS)	11	89.3 ±	
(BT)	11	83.07 8" N 83.24 6" S 83.86 6" E	
(BU)	11	89.70 ±	
(BV)	11	85.00 6" W	
(BW)	11	89.85 ±	
(BX)	11	83.93 6" N & SW	
(BY)	11	89.70 ±	
(BZ)	11	84.12 6" NE	
(CA)	11	89.90 ±	
(CB)	11	85.46 4" W	
(CC)	11	89.90 ±	
(CD)	11	84.81 4" E & W	
(CE)	11	89.15 ±	
(CF)	11	83.68 12" NE 83.85 10" S	
(CG)	11	89.85 ±	
(CH)	11	84.19 10" N 84.36 8" SW	
(CI)	11	89.90 ±	
(CJ)	11	84.33 4" NW & E	
(CK)	11	89.90 ±	
(CL)	11	85.14 4" NW & SE	
(CM)	11	89.90 ±	
(CN)	11	85.79 4" SE	
(CO)	11	89.90 ±	
(CP)	11	83.14 11" NE & SW	
(CQ)	11	89.35 ±	
(CR)	11	83.27 12" NE 83.44 10" SW	
(CS)	11	89.20 ±	
(CT)	11	83.63 10" NE 83.80 8" SW	
(CU)	11	90.0 ±	
(CV)	11	84.40 8" NE & SW	
(CW)	11	88.0 ±	
(CX)	11	84.80 6" NE	



CATCH BASIN

Grated to receive tongue of grate rebar.

Framed Cast-in place concrete frame for grates 30" x 30" single row with anchor bolts.

1" Series Catch Basins are specifically designed as a "heavy duty" standard for drainage installations. They provide greater load capacity, durability and simplicity than alternative designs. They are available in 18" and 24" sizes. They are designed to receive 18" and 24" grates. They are designed to receive 18" and 24" grates. They are designed to receive 18" and 24" grates. They are designed to receive 18" and 24" grates.

PRODUCT NO.	A	B	C	D	Approx. Wt.
U21 CATCH BASIN	24"	33"	4"	4"	1875 lbs.
U24 CATCH BASIN	24"	33"	4"	4"	2825 lbs.
U27 CATCH BASIN	27"	36"	4"	4"	3200 lbs.
U30 CATCH BASIN	30"	39"	4"	4"	3800 lbs.
U33 CATCH BASIN	33"	42"	4"	4"	4350 lbs.
U36 CATCH BASIN	36"	45"	4"	4"	4900 lbs.

U SERIES Enclosure Solutions
U SERIES CATCH BASINS
 Christy
 Phone: (800) 486-7070 Fax: (800) 486-4804
 www.christyconcrete.com

Traffic Valve Box No. V05 BOX 58 lbs.

Traffic Bolt Down Grate No. V05CT 53 lbs.

V05 BOX
 Christy
 Phone: (800) 486-7070 Fax: (800) 486-4804
 www.christyconcrete.com

V05 DRAIN BOX 10-3/8" I.D. x 12"
 Christy
 Phone: (800) 486-7070 Fax: (800) 486-4804
 www.christyconcrete.com

Drain Box No. V12 BOX 177 lbs.

V12 BOX
 Christy
 Phone: (800) 486-7070 Fax: (800) 486-4804
 www.christyconcrete.com

V12 DRAIN BOX 12" x 12"
 Christy
 Phone: (800) 486-7070 Fax: (800) 486-4804
 www.christyconcrete.com

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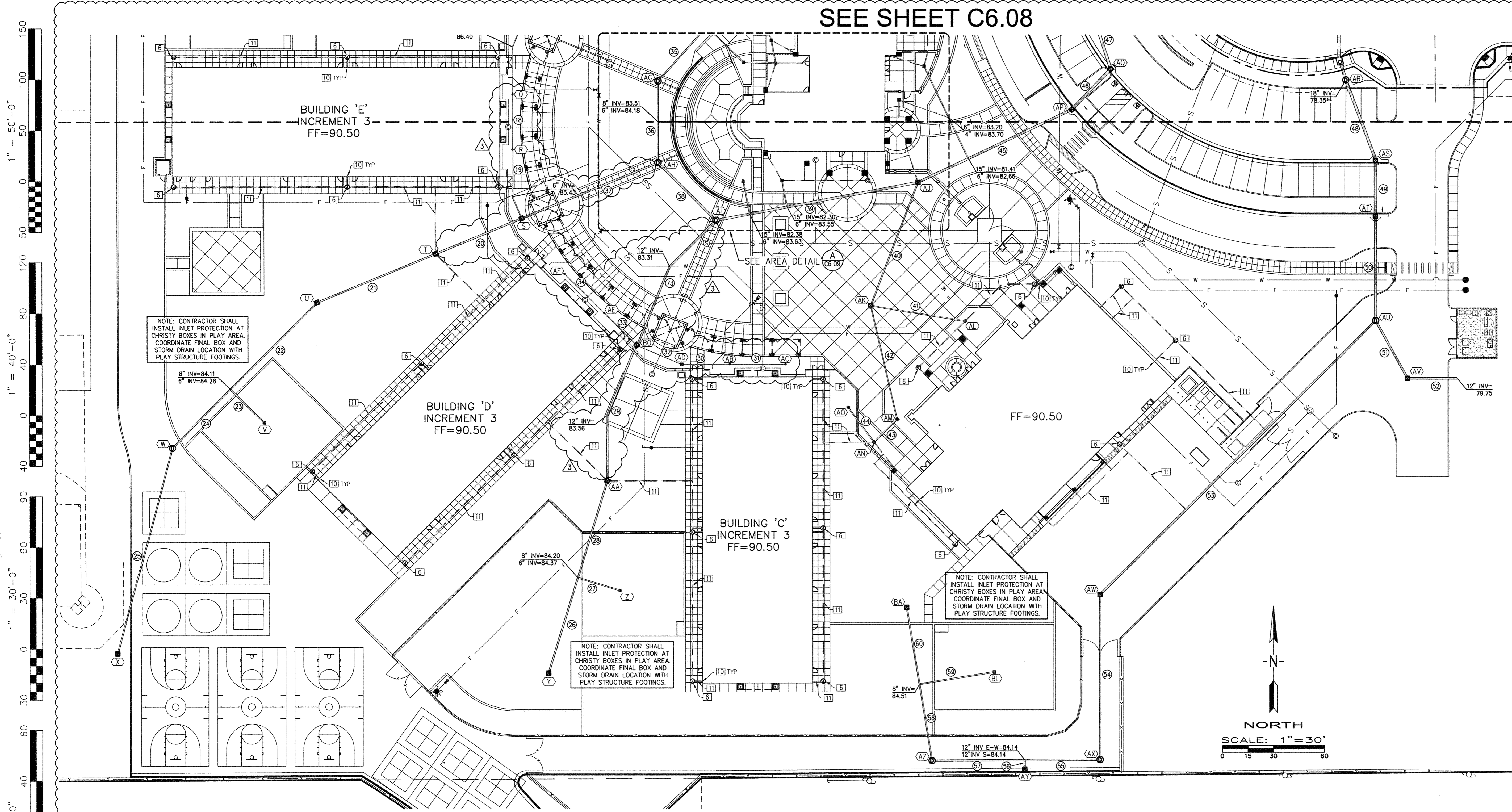
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PORTER & ASSOCIATES, INC.
 ENGINEERING & SURVEYING
 1200 21st Street, Bakersfield, California 93301
 661.327.0362 FAX 661.327.1065

STORM DRAIN PLAN SOUTH HALF
NEW ELEMENTARY SCHOOL INCREMENT 2
 BAKERSFIELD CITY SCHOOL DISTRICT
 @ CITADEL STREET & MARDI GRAS COURT

Sheet No: C6.09
 Date: 1/31/2018
 File # 15-6
 TRACKING #: 63321-300
 Job No: 5262
 Release: NATE SLINKARD

SEE SHEET C6.08



STORM DRAIN NOTES

- INSTALL PVC STORM DRAIN PIPE UNLESS OTHERWISE NOTED (SEE STORM DRAIN PIPELINE TABLE FOR PIPE SIZE, APPROXIMATE LENGTHS AND SLOPES)
- CONSTRUCT STORM DRAIN MANHOLE PER DETAIL (27) LID SHALL BE MARKED "STORM DRAIN"
- INSTALL TRENCH DRAIN CONNECTION PER DETAIL (27) (SEE SPECIFICATIONS ON SHEET C6.08)
- INSTALL CHRISTY U21 CATCH BASIN WITH U21-HT GRATE PER DETAIL (27)
- INSTALL CHRISTY V05 DRAIN BOX WITH RISER AND V1-71C GRATE PER DETAIL (27)
- INSTALL CHRISTY V12 DRAIN BOX WITH RISER AND V12-71W GRATE PER DETAIL (27)
- CONSTRUCT STORM DRAIN CLEANOUT PER DETAIL (27)
- INSTALL CHRISTY V12 DRAIN BOX WITH CONCRETE BOTTOM AND V12-71W GRATE PER DETAIL (27)
- TI INTO EXISTING 18" STORM DRAIN STUB PER "INCREMENT #1" PLANS (CONTRACTOR SHALL VERIFY EXACT LOCATION AND DEPTH IN FIELD AND NOTIFY ENGINEER IF THERE ARE ANY DISCREPANCIES)
- NOT USED.
- INSTALL WATTS RD-970 4"x3" DOWNSPOUT BOOT AT RECTANGULAR DOWNSPOUT LOCATIONS. CONNECT DOWNSPOUT BOOT TO PVC STORM DRAIN WITH 4" PVC RISER. INSTALL CONNECTION TO DOWNSPOUT USING PVC FITTINGS AND 3"x4" REDUCER AT ROUND DOWNSPOUT LOCATIONS.
- INSTALL 4" PVC STORM DRAIN PIPE @ 1/8" MIN. FOR ROOF DRAIN CONNECTION, COORDINATE ROOF DRAIN LOCATIONS WITH BUILDING PLANS (TYP).

- NOTE:
- FLARE GUTTER AT CHRISTY BOXES AS SHOWN.
 - LATERAL CONNECTIONS TO MAINS THAT DO NOT OCCUR IN JUNCTION BOXES SHALL BE MADE WITH 45° ELLS OR WYES FOR CLEANOUT PURPOSES.

STORM DRAIN PIPE TABLE

No.	SLOPE	SIZE	LENGTH
1	1.32%	18"	89.3 LF±
2	0.20%	18"	100.6 LF±
3	0.20%	15"	78.4 LF±
4	0.20%	15"	178.2 LF±
5	0.50%	8"	116.6 LF±
6	0.50%	12"	109.1 LF±
7	0.50%	12"	156.7 LF±
8	0.50%	8"	180.3 LF±
9	0.50%	12"	165.6 LF±
10	0.50%	8"	66.3 LF±
11	0.50%	12"	110.1 LF±
12	1.0%	8"	74.3 LF±
13	1.0%	8"	27.9 LF±
14	1.0%	8"	44.3 LF±
15	2.0%	4"	35.1 LF±
16	1.32%	4"	82.5 LF±
17	1.0%	4"	37.4 LF±
18	1.0%	4"	32.6 LF±
19	1.0%	6"	27.9 LF±
20	0.25%	12"	54.5 LF±
21	0.25%	10"	75.1 LF±
22	0.50%	8"	72.1 LF±
23	0.50%	6"	27.9 LF±
24	0.50%	8"	49.1 LF±
25	0.35%	8"	125.5 LF±
26	0.35%	8"	58.8 LF±
27	0.50%	6"	25.8 LF±
28	0.35%	4"	59.8 LF±
29	0.26%	12"	83.4 LF±
30	2.0%	4"	27.0 LF±
31	2.0%	4"	28.6 LF±
32	2.0%	4"	27.0 LF±
33	2.0%	4"	32.6 LF±
34	2.0%	4"	27.0 LF±
35	0.50%	8"	48.2 LF±
36	0.25%	12"	86.2 LF±
37	0.67%	15"	48 LF±
38	0.38%	15"	120.1 LF±
39	0.50%	8"	77.9 LF±
40	2.17%	6"	55.0 LF±
41	1.0%	6"	68.8 LF±
42	1.0%	6"	19.1 LF±
43	1.0%	6"	25.3 LF±
44	1.82%	15"	99.9 LF±
45	0.50%	8"	32.9 LF±
46	2.87%	18"	45.1 LF±
47	0.71%	18"	50.8 LF±
48	0.25%	15"	32.6 LF±
49	0.20%	15"	61.7 LF±
50	0.50%	12"	38.8 LF±
51	0.50%	12"	23.1 LF±
52	0.35%	12"	228.4 LF±
53	1.81%	12"	97.5 LF±
54	0.25%	12"	44.2 LF±
55	1.0%	12"	5.7 LF±
56	0.25%	12"	54.4 LF±
57	0.50%	8"	45.8 LF±
58	0.50%	8"	44.4 LF±
59	0.50%	8"	45.9 LF±
60	2.0%	6"	30 LF±
61	2.0%	6"	18.8 LF±
62	2.0%	6"	13.8 LF±
63	2.0%	6"	13.8 LF±

STORM DRAIN JUNCTION TABLE

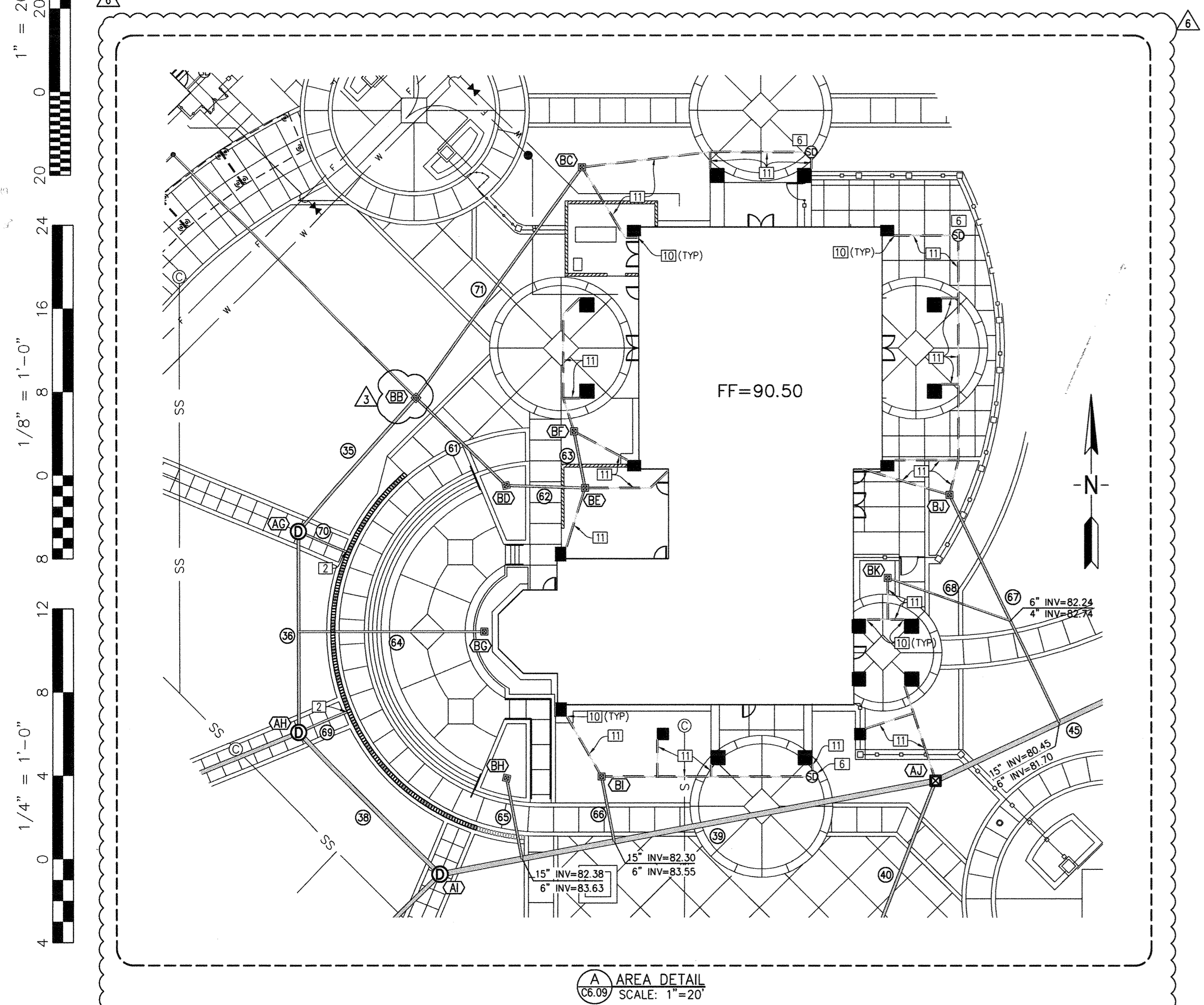
No.	TYPE	TOG-TMH	INVERTS
1	1	89.1 ±	77.84 18" E-W
2	1	86.95	79.02 18" E-W
3	1	86.70	79.22 18" E-W 79.47 15" W
4	1	87.20	79.63 15" E-W
5	1	90.0 ±	79.99 15" E 80.24 12" NW & SW 82.91 8" NE
6	1	88.10	83.50 8" SW
7	1	88.10	80.79 12" E 81.57 12" E 81.90 8" W
8	1	88.02	81.57 12" E 81.90 8" W
9	1	88.55	82.80 8" E
10	1	89.2 ±	81.07 12" NE 82.40 12" SE & 8" W
11	1	88.35	82.73 8" SE
12	1	89.00	82.95 12" NW 83.28 8" S & SE
13	1	89.35	84.03 8" NW
14	1	89.90	85.29 4" SW & SE
15	1	89.90	86.00 4" NE
16	1	89.90	86.50 4" SW
17	1	89.90	86.12 4" N & S
18	1	89.90	85.79 4" NE 85.71 6" S
19	1	89.90	83.25 12" NE & SW 85.29 6" NW
20	1	89.35	83.35 10" SW 2 12" NE
21	1	89.00	83.58 10" NE 83.75 8" SW
22	1	87.50	84.42 6" NW
23	1	89.9 ±	84.36 8" NE & S
24	1	88.00	84.80 8" NE
25	1	88.90	84.40 8" W
26	1	87.90	84.50 6" N
27	1	89.15	83.66 12" NE 83.99 8" S
28	1	89.90	85.25 4" E & W
29	1	89.90	85.90 4" W
30	1	89.90	84.69 4" E & NW
31	1	89.90	85.44 4" SE & NW
32	1	89.90	86.10 4" SE
33	1	89.6 ±	83.65 8" NE 83.65 8" S 86.12 6" E
34	1	89.6 ±	83.36 8" N 83.03 12" SW & SE 86.12 6" NE
35	1	89.6 ±	82.71 12" NW 83.21 12" SW 82.46 15" E
36	1	89.40	82.00 15" W & NE 82.58 8" S
37	1	89.30	82.97 8" N 83.78 6" E 83.14 6" S
38	1	89.70	85.00 6" W
39	1	89.85	83.83 6" N & SW
40	1	89.70	84.02 6" NE & NW
41	1	89.80	84.23 6" SE
42	1	87.45	80.19 15" SW 79.94 18" NE
43	1	86.90	78.99 18" N & SW
44	1	88.6 ±	78.35 18" S
45	1	86.59	78.71 18" N 78.96 15" S
46	1	86.99	79.04 15" N & S
47	1	88.1 ±	79.16 15" N 81.47 12" SW 79.41 12" SE
48	1	87.35	79.60 12" NW & E
49	1	89.10	82.27 12" NE & S
50	1	88.3 ±	84.03 12" N & W
51	1	87.98	84.20 12" N
52	1	88.5 ±	84.28 12" E 84.28 8" N
53	1	89.20	84.74 8" S
54	1	89.05	84.04 6" NE & SE 83.87 8" SW 84.20 4" NW
55	1	89.50	84.72 6" SW
56	1	91.00	84.64 6" NW & E
57	1	90.15	85.02 6" N & W
58	1	89.80	85.30 6" S
59	1	90.00	85.07 6" S
60	1	91.00	85.60 6" S
61	1	89.70	85.13 6" S
62	1	89.70	83.87 6" SE
63	1	89.90	84.32 4" SE

STORM DRAIN PIPE TABLE CONT.

No.	SLOPE	SIZE	LENGTH
64	2.0%	6"	44.6 LF±
65	10%	6"	19.7 LF±
66	10%	6"	15.8 LF±
67	2.0%	6"	60.4 LF±
68	2.0%	4"	30.8 LF±
69	2.0%	6"	12.8 LF±
70	2.0%	6"	12.8 LF±
71	1.0%	6"	68 LF±
72	0.25%	18"	51.8 LF±
73	0.25%	12"	88.7 LF±

STORM DRAIN JUNCTION TABLE CONT.

No.	TYPE	TOG-TMH	INVERTS
64	1	87.80	84.73 8" W
65	1	87.60	84.00 8" E
66	1	87.44	78.24 18" E&S
67	1	89.90	83.44 12" NE&SW 84.13 4" SE 84.90 4" NW



CATCH BASINS

• "U" Series Catch basins are specifically designed as a "heavy duty" standard for drainage installations. They provide superior interior surfaces, stability, and durability that standardization of pre-cast units make possible over four-decade installations.

- Interchangeable in grate, riser, and catch basin.
- No knock-outs on 8" and 12" grate rings.
- Open-top, lockable, and easy-to-lift applications.
- With or without bottom.
- Progressive welded legs—provide a maximum flexibility, permitting use of any size to be neatly and quickly graduated in or out.
- Standard grate rings are available in 8" increments up to 4' high. Custom specified top edge choices cast into catch basin or grate ring.
- "U" Series Catch Basins are available in special heights upon request.
- Approximate dimensions and weight tables:

PRODUCT NO.	A	B	C	D	Approx. Wt.
U21 CATCH BASIN	24"	24"	2"	4"	1673 lbs.
U22 CATCH BASIN	24"	24"	2"	4"	2825 lbs.
U23 CATCH BASIN	24"	36"	2"	4"	3550 lbs.
U24 CATCH BASIN	24"	48"	2"	4"	5320 lbs.
U25 CATCH BASIN	36"	36"	2"	4"	4220 lbs.
U26 CATCH BASIN	36"	48"	2"	4"	4930 lbs.

Oldcastle Enclosure Solutions
 FILE NAME: U-SERIES-CATCH-BASINS
 DATE: 01/20/2011
 SCALE: 1" = 20"

Traffic Bolt Down Grate
 No. V05CT
 35 lbs.

The largest thread diameter for an 8" hole in its size range permits side, easy valve adjustments. The large thread also makes this unit highly adaptable as a heavy, permanent stop when needed. The carefully engineered cast iron lid and ring includes reinforced surfaces and bolting features reducing the danger of "lid-off" or high traffic wheels. Best used in conjunction with high traffic grates. Approximate dimensions and weight shown.

Oldcastle Enclosure Solutions	Oldcastle Enclosure Solutions	Oldcastle Enclosure Solutions
PRODUCT NO. V05CT	PRODUCT NO. V05 BOX	PRODUCT NO. V05 DRAIN BOX
FILE NAME: V05CT	FILE NAME: V05_BOX	FILE NAME: V05_DRAIN_BOX
DATE: 01/20/2011	DATE: 01/20/2011	DATE: 01/20/2011
SCALE: 1" = 20"	SCALE: 1" = 20"	SCALE: 1" = 20"

Cast Iron Grate
 No. V12 BOX
 177 lbs.

A high density reinforced concrete base with cast in galvanized frame, specifically engineered for heavy traffic areas. Approximate dimensions and weight shown.

Oldcastle Enclosure Solutions	Oldcastle Enclosure Solutions	Oldcastle Enclosure Solutions
PRODUCT NO. V12 BOX	PRODUCT NO. V12 BOX	PRODUCT NO. V12 DRAIN BOX
FILE NAME: V12_BOX	FILE NAME: V12_BOX	FILE NAME: V12_DRAIN_BOX
DATE: 01/20/2011	DATE: 01/20/2011	DATE: 01/20/2011
SCALE: 1" = 20"	SCALE: 1" = 20"	SCALE: 1" = 20"

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 601 N. Fresno, Suite 130 - Fresno, California 93710
 Phone: (559) 436-0881 Fax: (559) 436-0887 E-Mail: design@integrateddesigns.com
 www.integrateddesigns.com

Project Name & Address: **NEW ELEMENTARY SCHOOL INCREMENT 2**
 BAKERSFIELD CITY SCHOOL DISTRICT
 @ CITADEL STREET & MARDI GRASS COURT

Sheet Title: **STORM DRAIN PLAN SOUTH HALF**

Revision Description: **CCD 3**

Revision: **3/21/19**

Agency Approval Stamp:
 FILE # 15-6
 IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 OFFICE OF REGULATION SERVICES
 03-118394
 DATE: _____
 TRACKING #: 63321-300

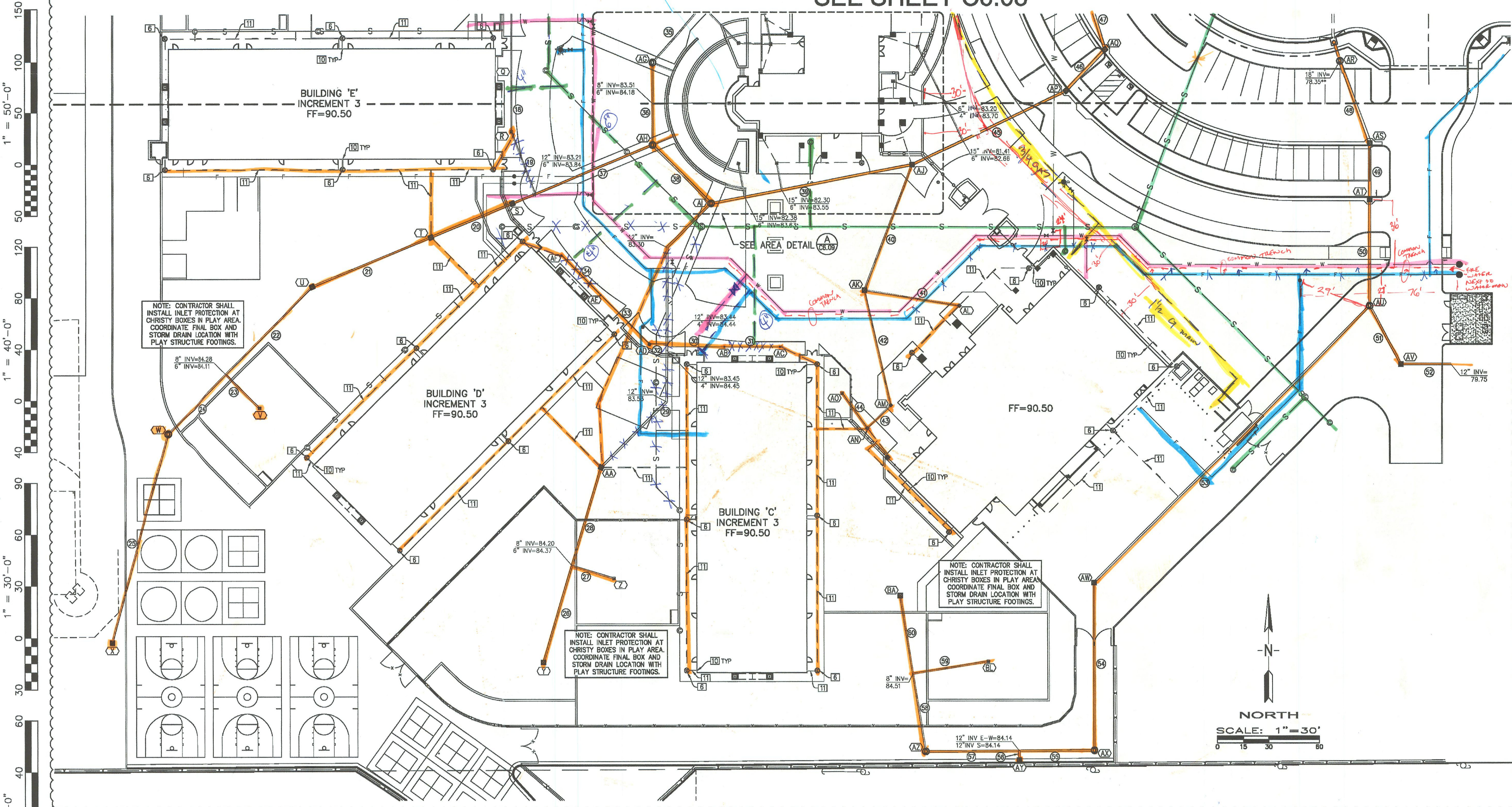
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 REGISTERED PROFESSIONAL ENGINEER
 PORTER & ASSOCIATES, INC.
 STATE OF CALIFORNIA
 RCE 33448
 REGISTERED ARCHITECT
 PORTER & ASSOCIATES, INC.
 STATE OF CALIFORNIA
 No. C 28966

Job No.: **5262**

Sheet No.: **C6.09**

Release: CCD 3
 LACIE RASLEY

SEE SHEET C6.08



- ### STORM DRAIN NOTES
- INSTALL PVC STORM DRAIN PIPE UNLESS OTHERWISE NOTED (SEE STORM DRAIN PIPELINE TABLE FOR PIPE SIZE, APPROXIMATE LENGTHS AND SLOPES).
 - CONSTRUCT STORM DRAIN MANHOLE PER DETAIL (R) LID SHALL BE MARKED "STORM DRAIN"
 - INSTALL TRENCH DRAIN CONNECTION PER DETAIL (R) (SEE SPECIFICATIONS ON SHEET C6.08)
 - INSTALL CHRISTY U21 CATCH BASIN WITH U21-HIT GRATE PER DETAIL (A) **RFT #07**
 - INSTALL CHRISTY V05 DRAIN BOX WITH RISER AND V1-7IC GRATE PER DETAIL (B)
 - INSTALL CHRISTY V12 DRAIN BOX WITH RISER AND V12-7IW GRATE PER DETAIL (C)
 - CONSTRUCT STORM DRAIN CLEANOUT PER DETAIL (R)
 - INSTALL CHRISTY V12 DRAIN BOX WITH CONCRETE BOTTOM AND V12-7IW GRATE PER DETAIL (R)
 - TIE INTO EXISTING 18" STORM DRAIN STUD PER "INCREMENT #1" PLANS (CONTRACTOR SHALL VERIFY EXACT LOCATION AND DEPTH IN FIELD AND NOTIFY ENGINEER IF THERE ARE ANY DISCREPANCIES)
 - PLUG END FOR CONNECTION BY PLUMBING CONTRACTOR FOR PLAY AREA DRAINS.
 - INSTALL WATTS RD-970 4"x3" DOWNSPOUT BOOT AT DOWNSPOUT LOCATIONS. CONNECT DOWNSPOUT BOOT TO PVC STORM DRAIN WITH 4" PVC RISER.
 - INSTALL 4" PVC STORM DRAIN PIPE @ 1% MIN. FOR ROOF DRAIN CONNECTION. COORDINATE ROOF DRAIN LOCATIONS WITH BUILDING PLANS (TYP).
- NOTE: 1. FLARE GUTTER AT CHRISTY BOXES AS SHOWN.
2. LATERAL CONNECTIONS TO MAINS THAT DO NOT OCCUR IN JUNCTION BOXES SHALL BE MADE WITH 45° ELBS OR WYES FOR CLEANOUT PURPOSES.
3. CONTRACTOR SHALL RAISE ALL MANHOLES, CLEANOUTS, ETC. TO GRADE.

STORM DRAIN PIPE TABLE

No.	SLOPE	SIZE	LENGTH
1	1.32%	18"	88.3 LF±
2	0.20%	18"	100.6 LF±
3	0.20%	15"	78.4 LF±
4	0.20%	15"	178.2 LF±
5	0.50%	8"	116.8 LF±
6	0.50%	12"	109.1 LF±
7	0.50%	12"	156.7 LF±
8	0.50%	8"	180.3 LF±
9	0.50%	12"	165.6 LF±
10	0.50%	8"	86.3 LF±
11	0.50%	12"	110.1 LF±
12	1.0%	8"	74.3 LF±
13	1.0%	8"	27.8 LF±
14	1.0%	8"	44.3 LF±
15	1.0%	4"	32.6 LF±
16	1.0%	4"	42.3 LF±
17	1.0%	8"	41.8 LF±
18	1.0%	8"	32.6 LF±
19	1.0%	6"	38.9 LF±
20	0.25%	12"	51.6 LF±
21	0.25%	10"	75.1 LF±
22	0.50%	8"	72.1 LF±
23	0.50%	8"	27.8 LF±
24	0.50%	8"	48.1 LF±
25	0.35%	8"	125.5 LF±
26	0.35%	8"	58.8 LF±
27	0.50%	6"	25.8 LF±
28	0.35%	8"	58.9 LF±
29	0.25%	12"	179.9 LF±
30	2.0%	4"	33.5 LF±
31	2.0%	4"	32.6 LF±
32	2.0%	4"	10 LF±
33	2.0%	4"	40.6 LF±
34	2.0%	4"	32.6 LF±
35	0.50%	8"	42.8 LF±
36	0.60%	8"	48.2 LF±
37	0.25%	12"	89.2 LF±
38	0.67%	12"	48 LF±
39	0.38%	15"	120.1 LF±
40	0.50%	8"	47.9 LF±
41	2.17%	6"	58.0 LF±
42	1.0%	6"	68.8 LF±
43	1.0%	6"	19.1 LF±
44	1.0%	6"	25.3 LF±
45	1.82%	15"	99.9 LF±
46	2.87%	18"	32.9 LF±
47	2.87%	18"	26.1 LF±
48	0.71%	18"	50.8 LF±
49	0.25%	15"	32.6 LF±
50	0.20%	15"	61.7 LF±
51	0.50%	12"	38.8 LF±
52	0.50%	12"	29.3 LF±
53	0.35%	12"	228.4 LF±
54	1.81%	12"	97.5 LF±
55	0.25%	12"	44.2 LF±
56	1.0%	12"	18.7 LF±
57	0.25%	12"	54.4 LF±
58	0.50%	8"	45.8 LF±
59	0.50%	8"	44.4 LF±
60	0.50%	8"	45.9 LF±
61	2.0%	6"	30 LF±
62	2.0%	6"	118.8 LF±
63	2.0%	6"	13.8 LF±

STORM DRAIN JUNCTION TABLE

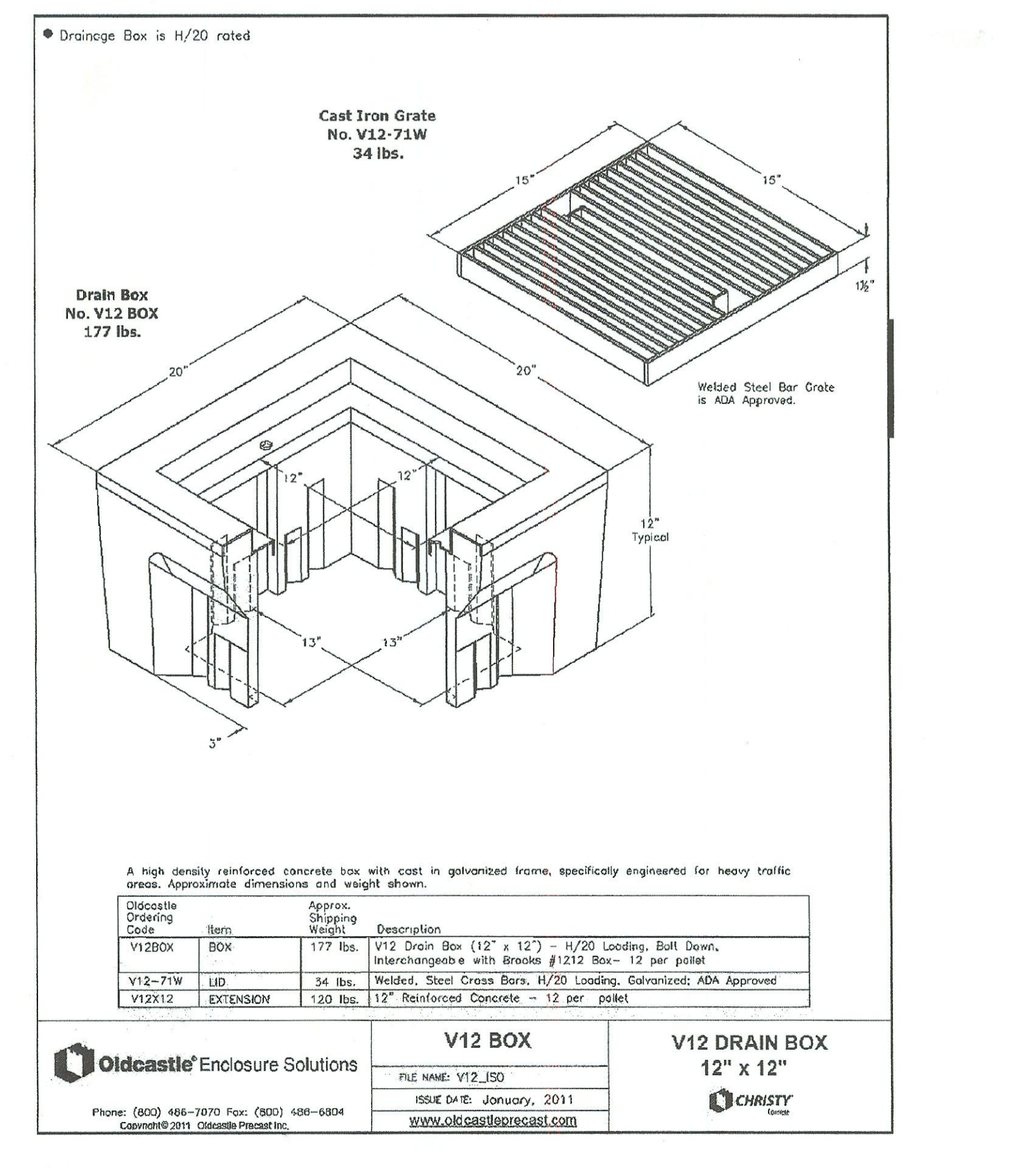
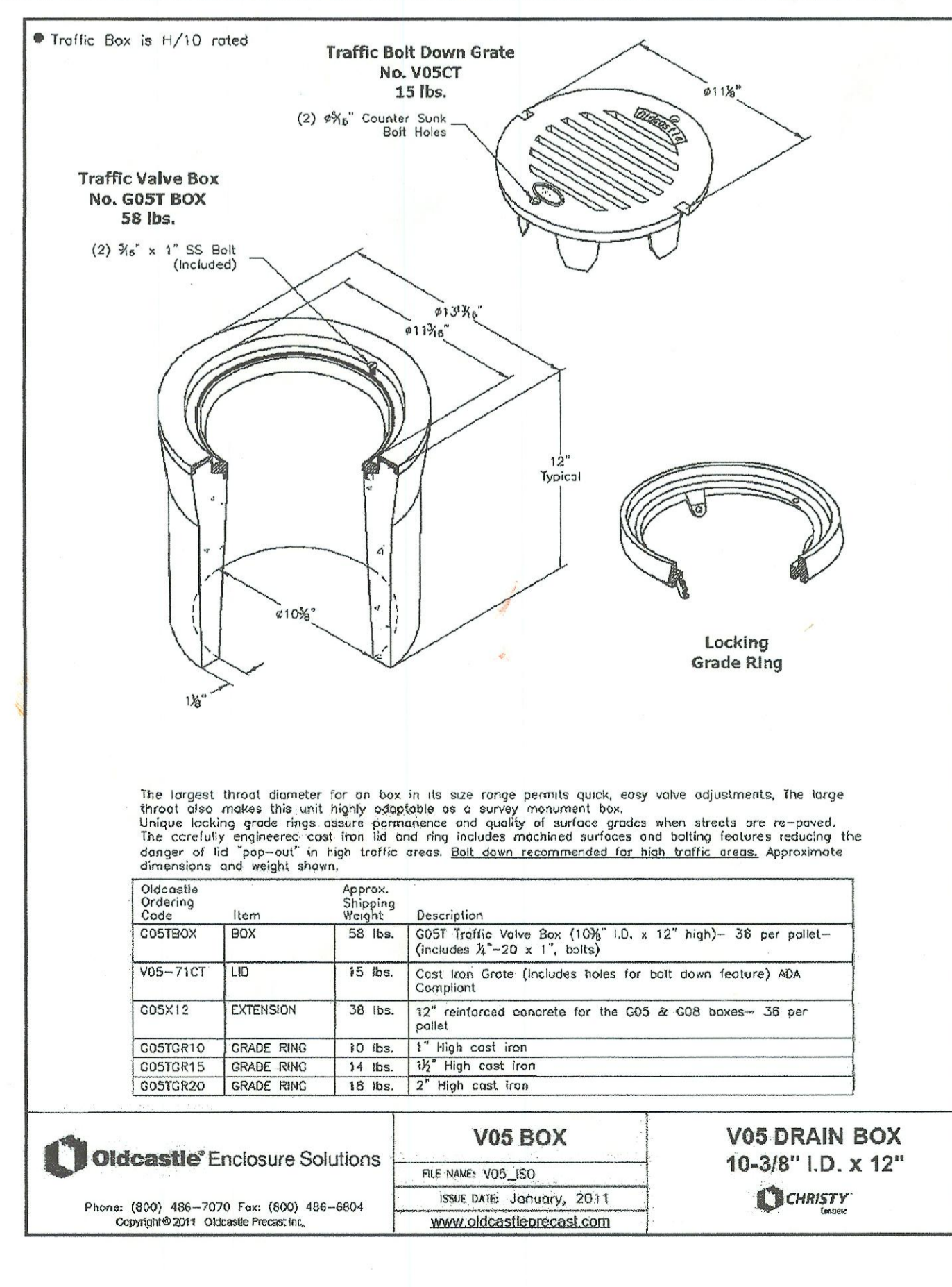
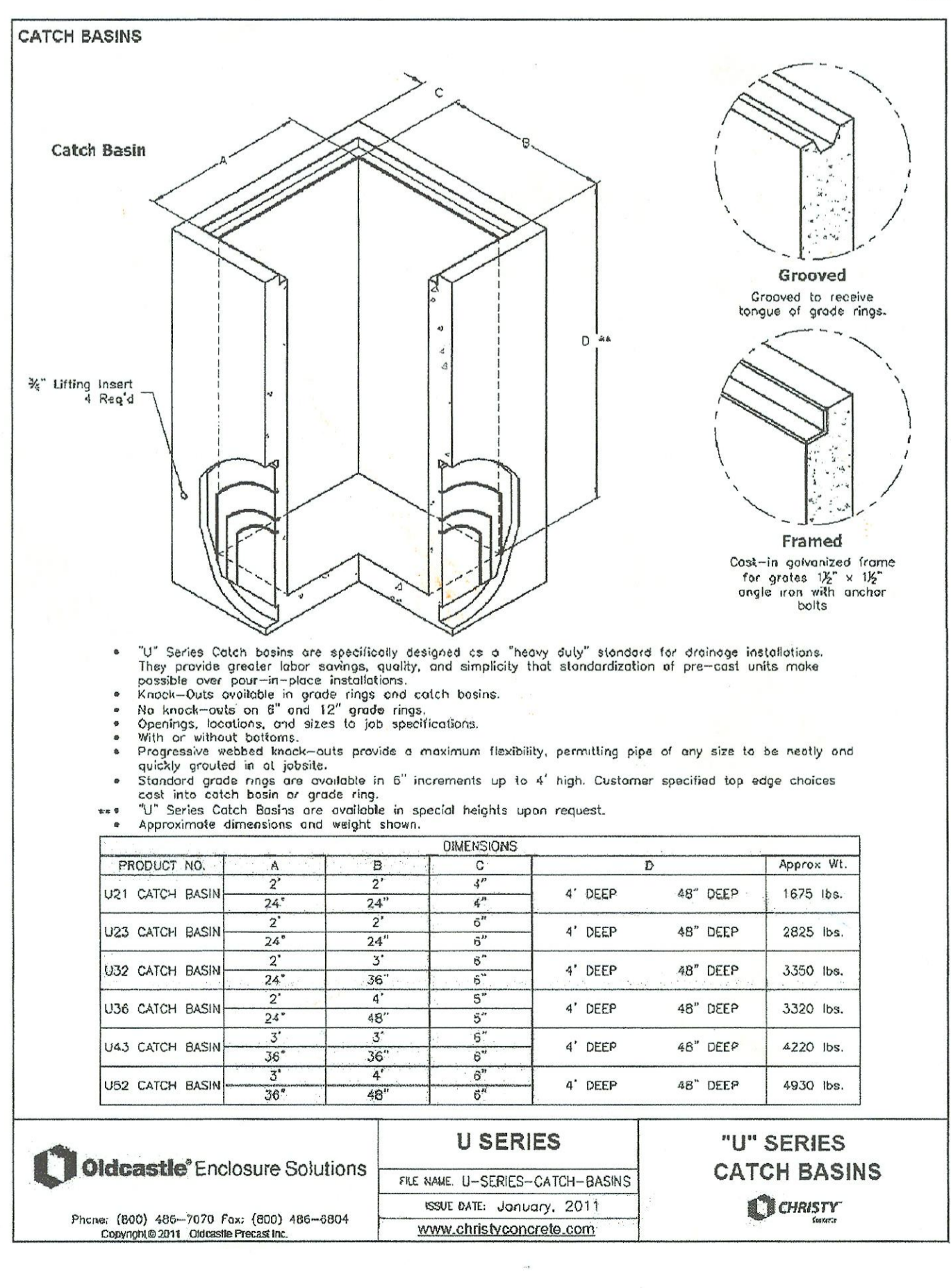
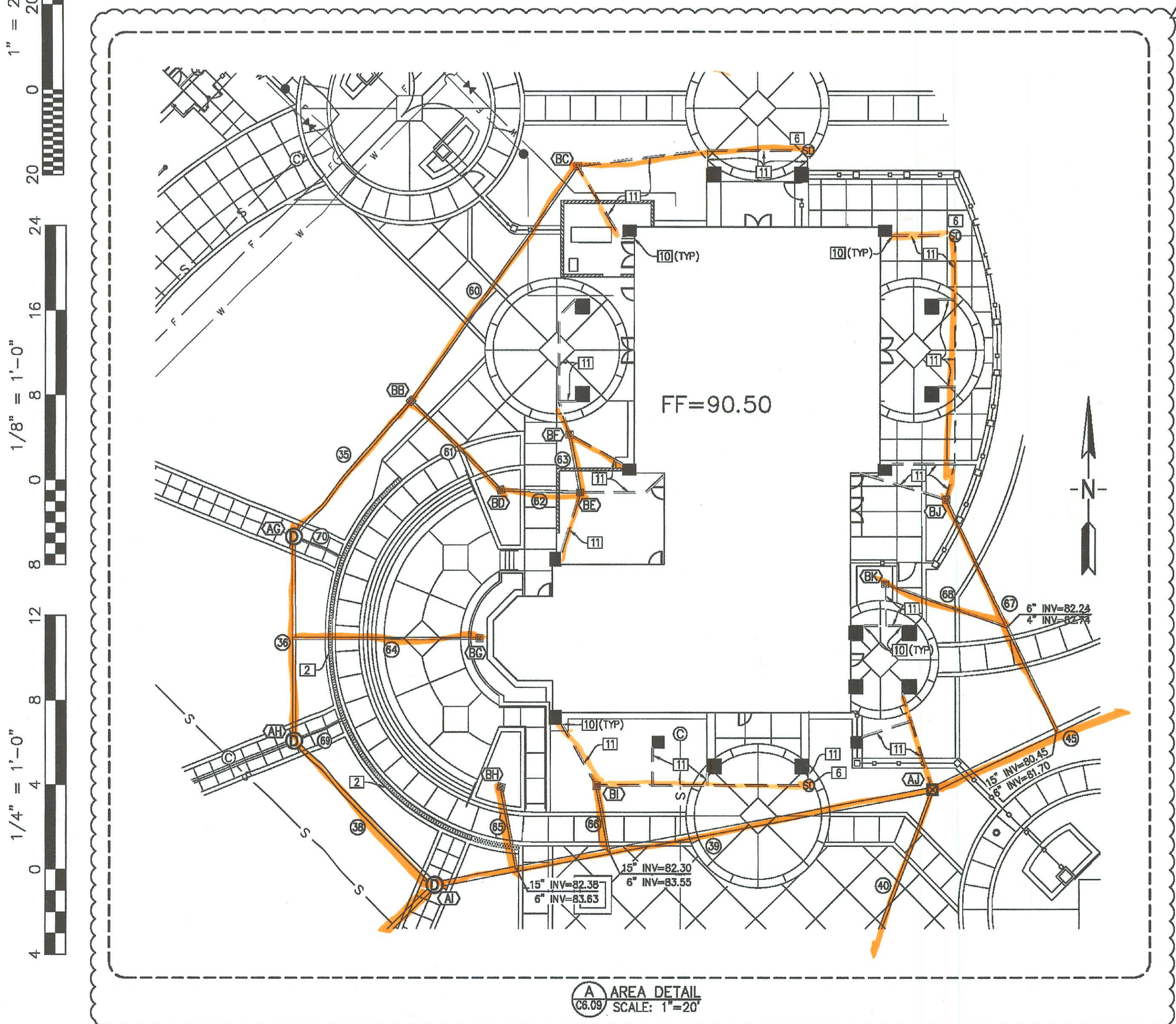
No.	TYPE	TOG-TMH	INVERTS
(A)	(1)	89.1 ±	77.84 18" E-W
(A)	(1)	86.95	79.02 18" E-W
(C)	(1)	86.70	78.22 18" E 78.47 15" W
(D)	(1)	87.20	79.83 15" E-W
(E)	(1)	90.0 ±	79.99 15" E 80.24 12" NW & SW 82.91 8" NE
(E)	(1)	88.10	80.79 12" SE & W
(E)	(1)	88.10	80.79 12" SE & W
(E)	(1)	88.02	81.57 12" E 81.90 8" W
(E)	(1)	88.55	82.80 8" E
(E)	(1)	89.2 ±	81.07 12" NE 82.40 12" SE & 8" NW
(E)	(1)	88.35	82.73 12" SE
(E)	(1)	89.00	82.95 12" NW 83.28 8" S & SE
(E)	(1)	89.35	84.03 8" NW
(E)	(1)	89.90	85.90 4" SW
(E)	(1)	89.90	85.57 4" NE & SW
(E)	(1)	89.90	85.15 4" NW 84.98 6" S
(E)	(1)	89.50	84.58 8" N & S
(E)	(1)	89.90	84.23 8" N & SE
(E)	(1)	89.90	83.25 12" NE & SW
(E)	(1)	89.35	83.22 12" NE 83.38 10" SW
(E)	(1)	89.00	83.58 10" NE 83.75 10" SW
(E)	(1)	87.50	84.58 8" NW
(E)	(1)	89.5 ±	84.36 8" NE & SW
(E)	(1)	88.00	84.80 8" NE
(E)	(1)	88.90	84.40 8" N
(E)	(1)	87.90	84.50 6" W
(E)	(1)	88.15	83.68 12" NE 83.99 8" S
(E)	(1)	89.90	85.12 4" E & W
(E)	(1)	89.90	85.77 4" W
(E)	(1)	89.90	84.64 4" E & NW
(E)	(1)	89.90	85.45 4" SE & NW
(E)	(1)	89.90	86.10 4" SE
(E)	(1)	89.55 ±	83.85 8" NE 83.65 8" S 86.12 6" E
(E)	(1)	89.95 ±	83.36 8" N 83.03 12" SW & SE 86.12 6" NE
(E)	(1)	89.55 ±	82.71 12" NW 83.21 12" SW 82.46 15" E
(E)	(1)	89.40	82.00 15" W & NE 82.58 8" S
(E)	(1)	89.30	82.97 8" N 83.78 6" E 83.14 6" S
(E)	(1)	89.70	85.00 6" W
(E)	(1)	89.85	83.83 6" N & SW
(E)	(1)	89.70	84.02 6" NE & NW
(E)	(1)	89.80	84.27 6" SE
(E)	(1)	87.45	80.19 15" SW 79.94 18" NE
(E)	(1)	86.90	78.99 18" N & SW
(E)	(1)	88.6 ±	78.35 18" S
(E)	(1)	88.50	78.71 18" N 78.96 15" S
(E)	(1)	88.99	79.04 15" N & S
(E)	(1)	88.1 ±	79.15 15" N 81.47 12" SW 79.41 12" SE
(E)	(1)	87.35	79.60 12" NW & E
(E)	(1)	88.10	82.27 12" NE & S
(E)	(1)	88.3 ±	84.03 12" N & W
(E)	(1)	87.98	84.20 12" N
(E)	(1)	90.15	85.02 6" N & E
(E)	(1)	89.80	85.30 6" S
(E)	(1)	90.00	85.07 6" S
(E)	(1)	91.00	84.67 6" S
(E)	(1)	89.70	84.42 6" S
(E)	(1)	89.70	83.87 6" SE
(E)	(1)	89.90	84.32 4" SE

STORM DRAIN PIPE TABLE CONT.

No.	SLOPE	SIZE	LENGTH
64	2.0%	6"	44.6 LF±
65	1.0%	6"	19.7 LF±
66	1.0%	6"	15.8 LF±
67	2.0%	6"	60.4 LF±
68	2.0%	4"	30.8 LF±
69	2.0%	6"	12.8 LF±
70	2.0%	6"	12.8 LF±

STORM DRAIN JUNCTION TABLE CONT.

No.	TYPE	TOG-TMH	INVERTS
(E)	(1)	87.80	84.73 8" W
(E)	(1)	87.60	84.00 8" E



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Sheet No.: 09-14-18
Revision Description: ADDENDUM 6

STORM DRAIN PLAN SOUTH HALF
NEW ELEMENTARY SCHOOL INCREMENT 2
BAKERSFIELD CITY SCHOOL DISTRICT
@ CITADEL STREET & WARDI GRAS COURT

Issue Date: XXX
Date: 09-14-18
Change: DR
PC: XXX

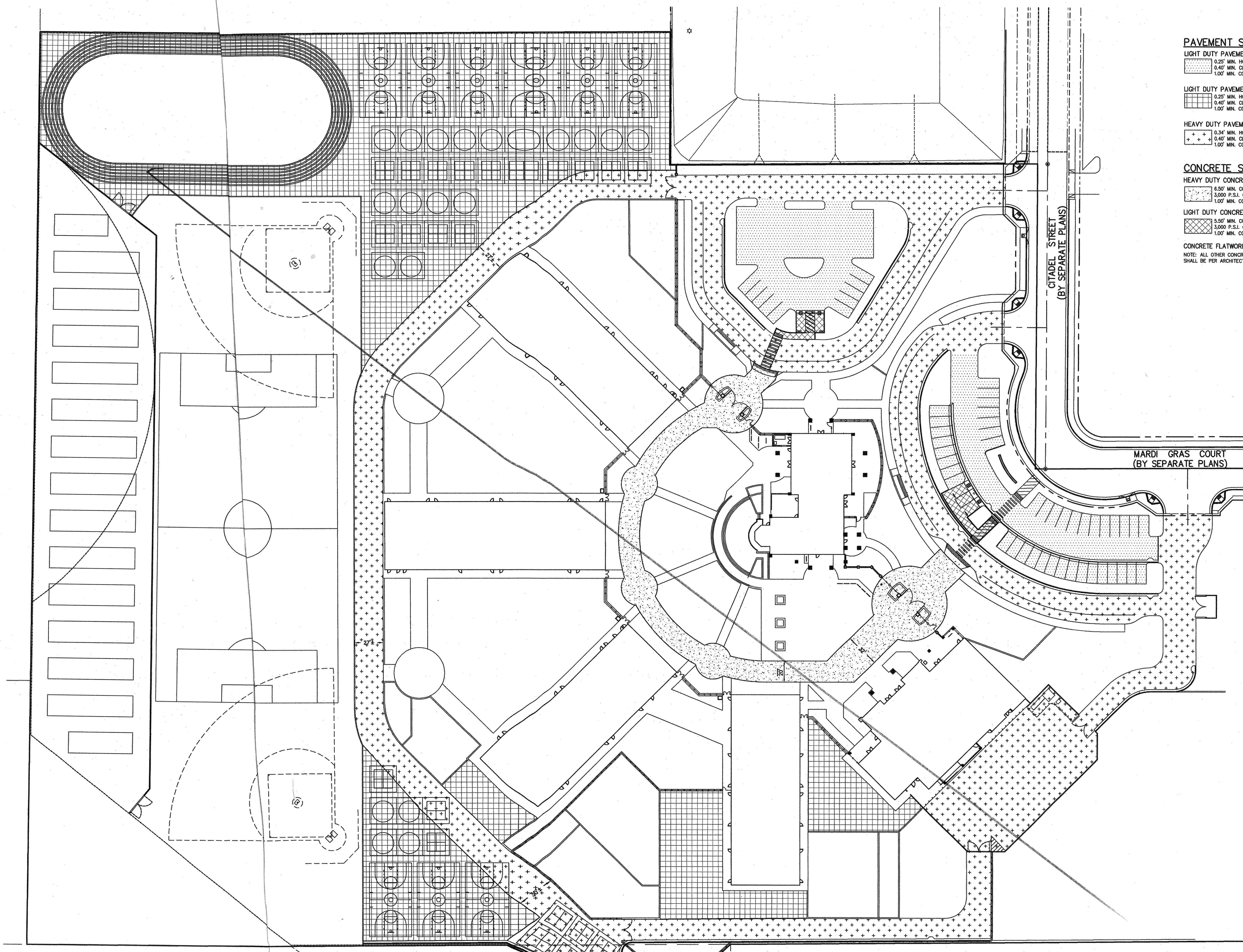
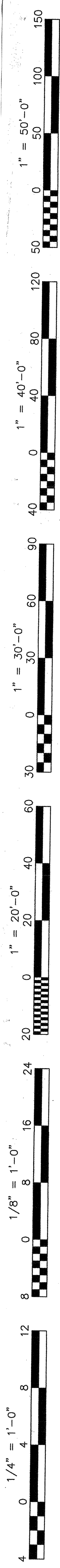
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FILE # 15-6
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DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
03-118394
AC, SC, FLS, SII, SS, TX
DATE 12/20/18
TRACKING #: 63321-300

Stamp(s):
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RCE 33448
CIVIL
STATE OF CALIFORNIA
Professional Engineer
No. C 28566
STATE OF CALIFORNIA

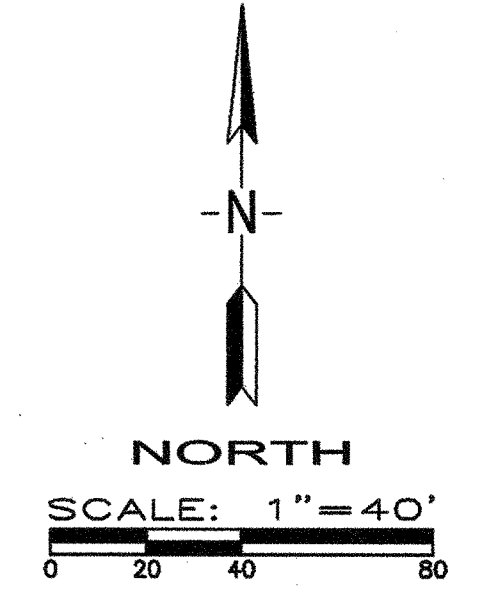
Job No.:
5262

Sheet No.:
C6.09

Release: - ADDENDUM #6
MATTHEW CARSON



- PAVEMENT SECTIONS**
- LIGHT DUTY PAVEMENT (PARKING AREAS)**
 0.25" MIN. HOT MIX ASPHALT
 0.40" MIN. CL-2 AGGREGATE BASE
 1.00" MIN. COMPACTED SUBGRADE AT 95% MAX. DENSITY
 - LIGHT DUTY PAVEMENT (PLAYGROUND AREAS)**
 0.25" MIN. HOT MIX ASPHALT (3/4" MAX AGGREGATE) WITH SEAL COAT
 0.40" MIN. CL-2 AGGREGATE BASE
 1.00" MIN. COMPACTED SUBGRADE AT 95% MAX. DENSITY
 - HEAVY DUTY PAVEMENT (DRIVE AISLE AREAS)**
 0.34" MIN. HOT MIX ASPHALT
 0.40" MIN. CL-2 AGGREGATE BASE
 1.00" MIN. COMPACTED SUBGRADE AT 95% MAX. DENSITY
- CONCRETE SECTIONS**
- HEAVY DUTY CONCRETE PAVEMENT (FIRE TRUCK ACCESS)**
 6.50" MIN. CONCRETE PAVING w/ #4 @ 18" O.C. EACH WAY
 3,000 P.S.I. @ 28 DAYS MIN.
 1.00" MIN. COMPACTED SUBGRADE AT 90% MAX. DENSITY
 - LIGHT DUTY CONCRETE PAVEMENT (ACCESSIBLE PARKING)**
 5.50" MIN. CONCRETE PAVING w/ #4 @ 18" O.C. EACH WAY
 3,000 P.S.I. @ 28 DAYS MIN.
 1.00" MIN. COMPACTED SUBGRADE AT 90% MAX. DENSITY
- CONCRETE FLATWORK**
 NOTE: ALL OTHER CONCRETE FLATWORK SECTIONS NOT NOTED ON THIS SHEET SHALL BE PER ARCHITECT'S PLANS.



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Drawn by:	Reviewed by:	Scale:	
Revised Description:	Revision:	Revision:	Revision:
Rev. Date:	Rev. Date:	Rev. Date:	Rev. Date:

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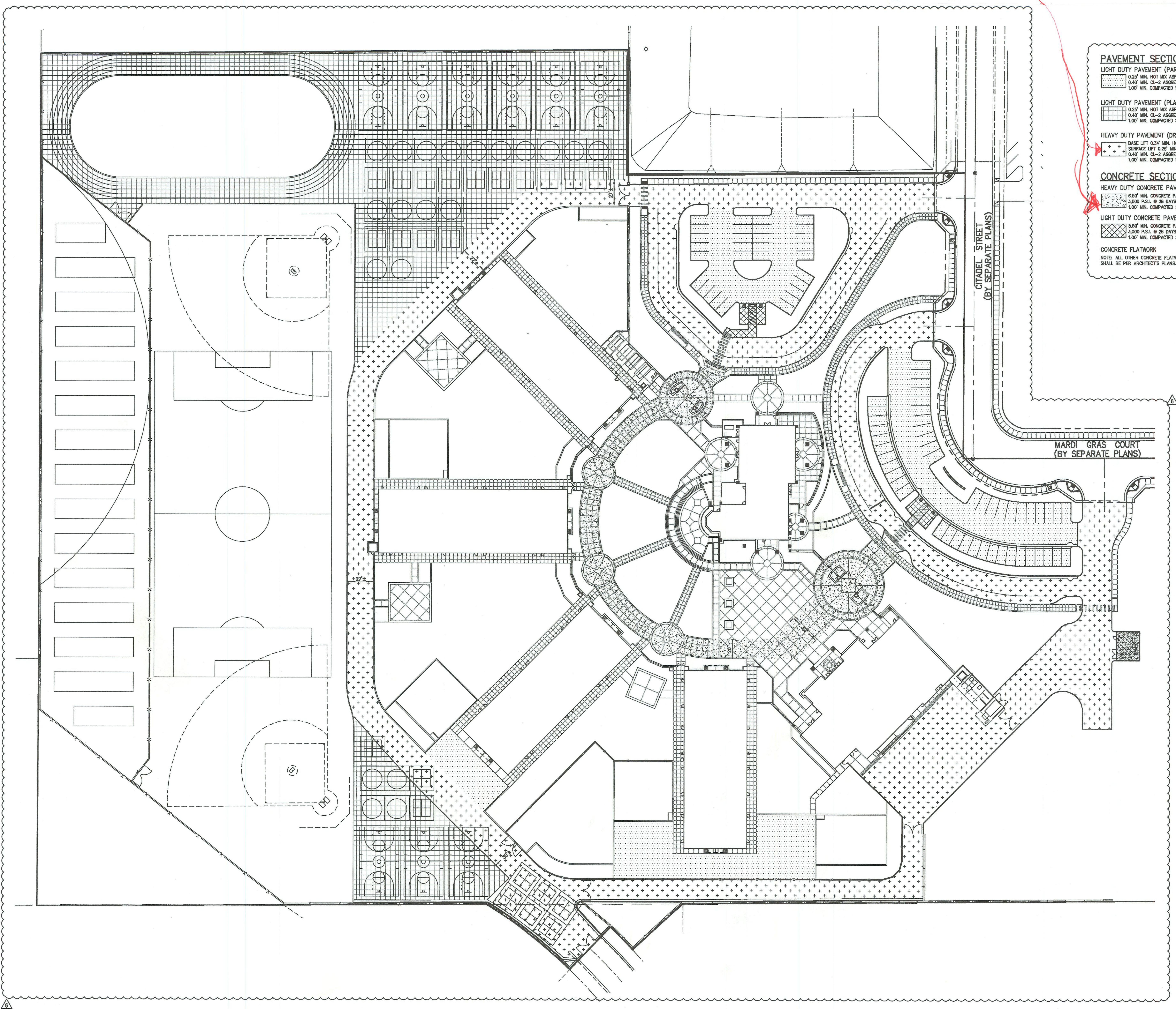
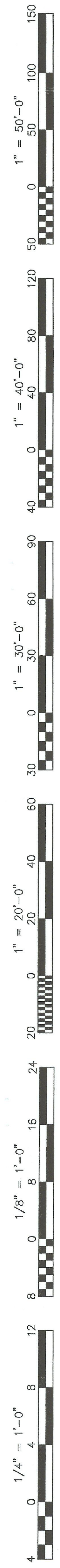
PAVING-CONCRETE PLAN
NEW ELEMENTARY SCHOOL INCREMENT 2
 BAKERSFIELD CITY SCHOOL DISTRICT
 @ CITADEL STREET & MARDI GRAS COURT

Sheet Title:
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 Date: 1/31/2018
 Designer: [Signature]
 DRC: [Signature] PC: XXX

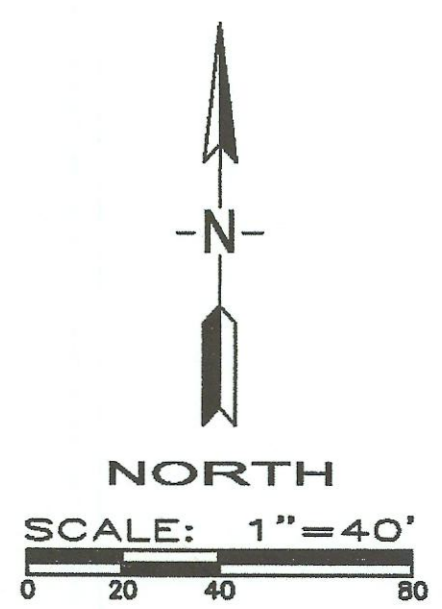
Agency Approval Stamp:
 FILE # 15-6
 IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 OFFICE OF REGULATION SERVICES
 03-118394
 AC: [Signature] FLS: [Signature] SS: [Signature]
 DATE: 06-22-18
 TRACKING #: 63321-300

Stamp(s):

Job No.: **5262**
 Sheet No.: **C6.10**
 Release: -



- PAVEMENT SECTIONS**
- LIGHT DUTY PAVEMENT (PARKING AREAS)**
 0.25" MIN. HOT MIX ASPHALT (1/2" MAX HMA) WITH FOG SEAL
 0.40" MIN. CL-2 AGGREGATE BASE
 1.00" MIN. COMPACTED SUBGRADE AT 90% MAX. DENSITY
- LIGHT DUTY PAVEMENT (PLAYGROUND AREAS)**
 0.25" MIN. HOT MIX ASPHALT (1/2" MAX HMA) WITH FOG SEAL
 0.40" MIN. CL-2 AGGREGATE BASE
 1.00" MIN. COMPACTED SUBGRADE AT 90% MAX. DENSITY
- HEAVY DUTY PAVEMENT (DRIVE AISLE AREAS)**
 BASE LIFT 0.34" MIN. HOT MIX ASPHALT (3/4" MAX HMA) WITH FOG SEAL
 SURFACE LIFT 0.25" MIN. HOT MIX ASPHALT (1/2" MAX HMA) WITH FOG SEAL
 0.40" MIN. CL-2 AGGREGATE BASE
 1.00" MIN. COMPACTED SUBGRADE AT 90% MAX. DENSITY
- CONCRETE SECTIONS**
- HEAVY DUTY CONCRETE PAVEMENT (FIRE TRUCK ACCESS)**
 5.50" MIN. CONCRETE PAVING #/B @ 18" O.C. EACH WAY
 3,000 P.S.I. @ 28 DAYS MIN.
 1.00" MIN. COMPACTED SUBGRADE AT 90% MAX. DENSITY
- LIGHT DUTY CONCRETE PAVEMENT (ACCESSIBLE PARKING)**
 3.50" MIN. CONCRETE PAVING #/B @ 18" O.C. EACH WAY
 3,000 P.S.I. @ 28 DAYS MIN.
 1.00" MIN. COMPACTED SUBGRADE AT 90% MAX. DENSITY
- CONCRETE FLATWORK**
 NOTE: ALL OTHER CONCRETE FLATWORK SECTIONS NOT NOTED ON THIS SHEET SHALL BE PER ARCHITECT'S PLANS.



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Revision Description:	Revision:	Rev. Date:	Rev. Date:
ADDENDUM 6		09-14-18	

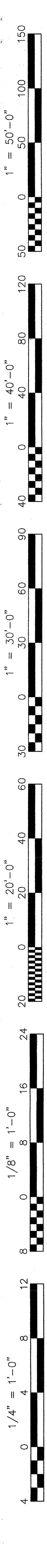
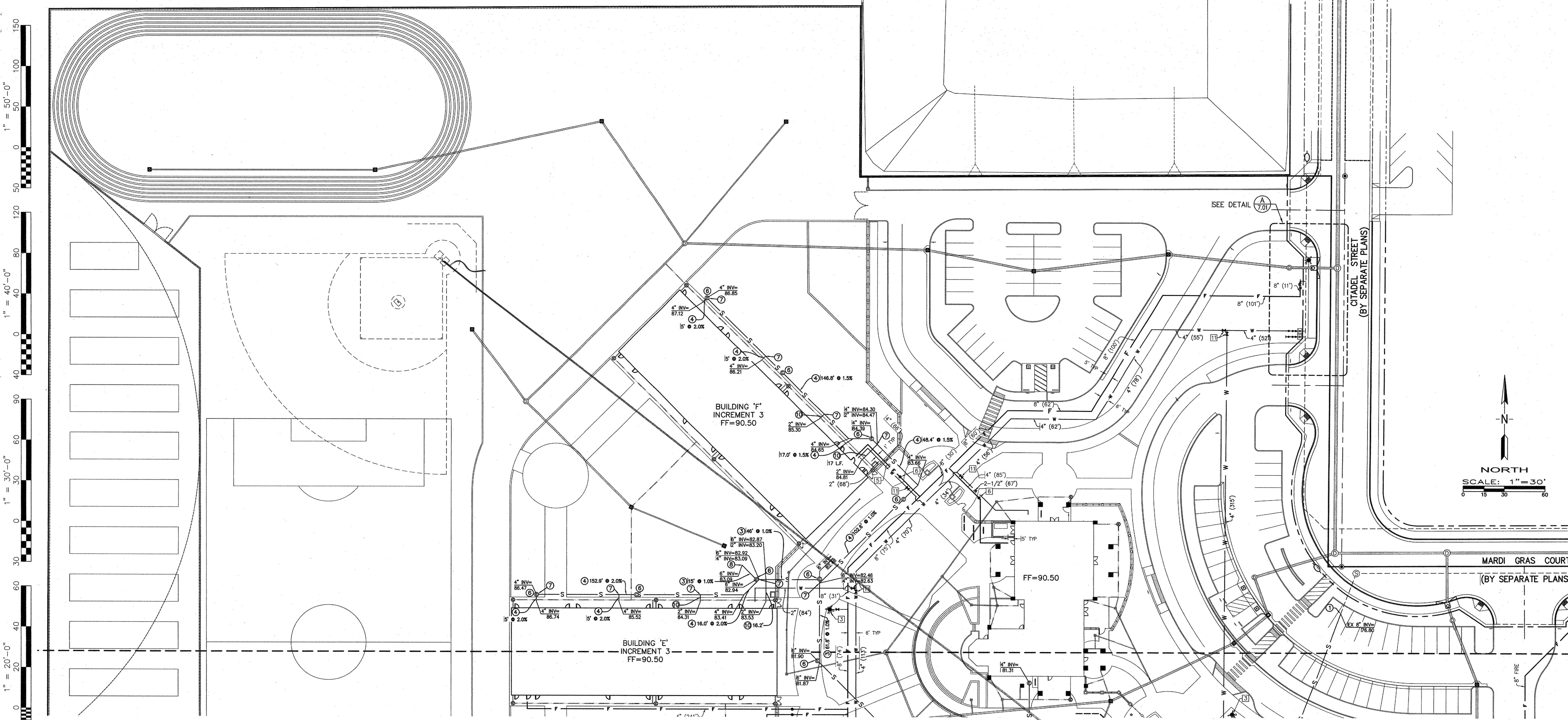
Sheet Title: **PAVING-CONCRETE PLAN**
 Project Name & Address: **NEW ELEMENTARY SCHOOL INCREMENT 2**
 BAKERSFIELD CITY SCHOOL DISTRICT
 @ CITADEL STREET & MARDI GRAS COURT

Issue Date: XXX
 Date: 09-14-18
 Designer: [Signature]
 DRC: [Signature]
 PC: XXX

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Job No.: **5262**
 Sheet No.: **C6.10**
 Release: ADDENDUM #6



SEE SHEET C7.02

SANITARY SEWER CONSTRUCTION NOTES

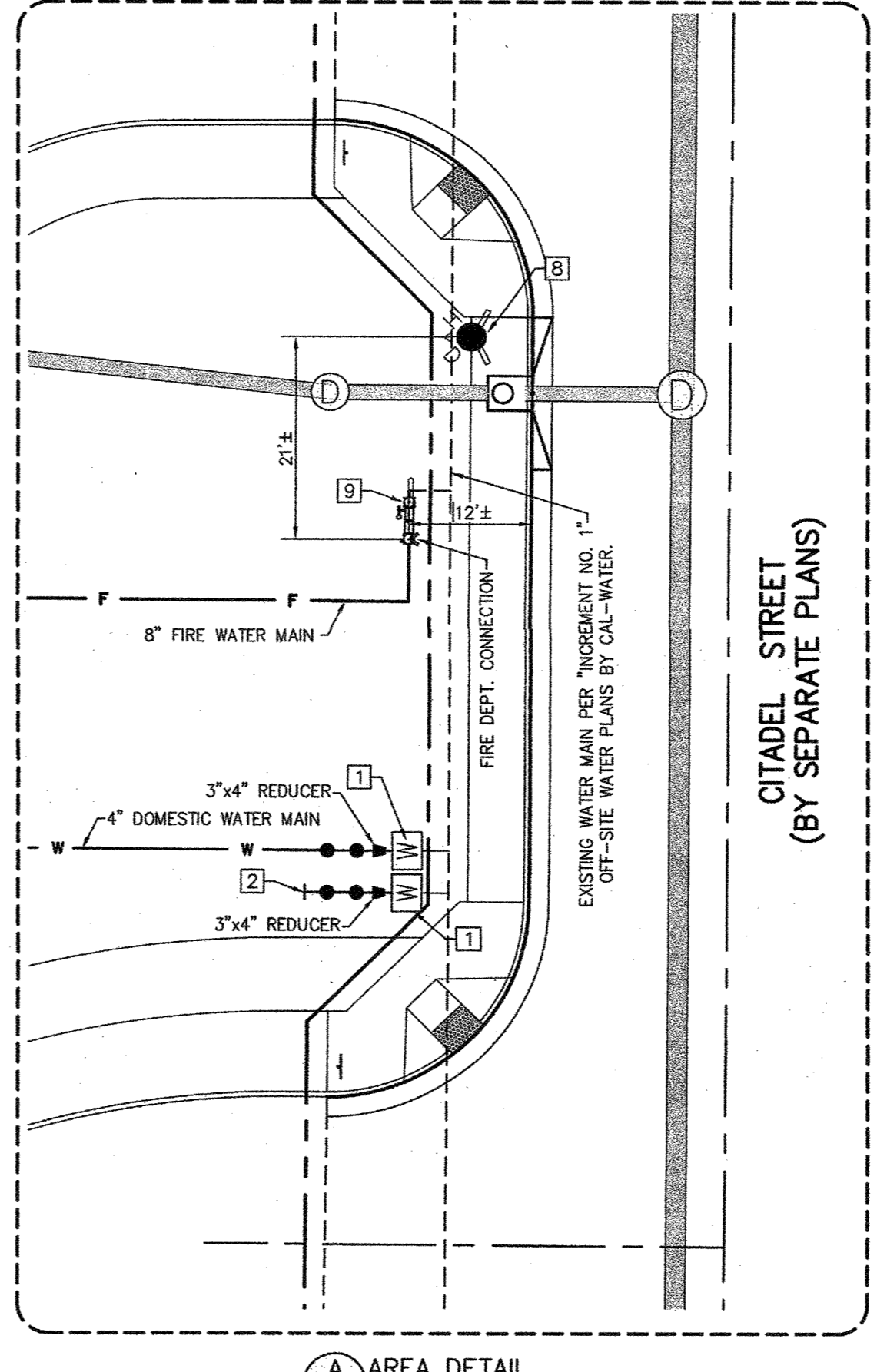
- 1. PROPOSED SEWER LINE (SIZE AND LENGTHS AS SHOWN)
 - 2. TIE INTO EXISTING 8" SEWER STUB PER "INCREMENT #1" PLANS (CONTRACTOR SHALL VERIFY EXACT LOCATION AND DEPTH IN FIELD AND NOTIFY ENGINEER IF THERE ARE ANY DISCREPANCIES)
 - 3. INSTALL 8" PVC SEWER MAIN (LENGTHS AND SLOPES SHOWN)
 - 4. INSTALL 6" PVC SEWER MAIN (LENGTHS AND SLOPES SHOWN)
 - 5. INSTALL 4" PVC SEWER LATERAL (LENGTHS AND SLOPES SHOWN)
 - 6. INSTALL SEWER MANHOLE PER DETAIL (B) 7.03
 - 7. INSTALL SEWER CLEANOUT PER DETAIL (A) 7.03
 - 8. INSTALL STANDARD WYE, WYE SHALL BE ROTATED BETWEEN 23° AND 45° FROM HORIZONTAL
 - 9. PLUG SEWER MAIN FOR FUTURE EXTENSION.
 - 10. INSTALL SEWER MANHOLE WITH DROP CONNECTION PER DETAIL (C) 7.03
 - 11. INSTALL 5 L.F. (UNLESS OTHERWISE NOTED) 2" PVC SEWER LATERAL AT 2% SLOPE.
- NOTES:
 1. UNDERGROUND CONTRACTOR SHALL STUB SEWER LINE TO 5' FROM BUILDING UNLESS OTHERWISE INDICATED. COORDINATE SIZE AND LOCATION WITH BUILDING PLANS. LAST 5' OF SEWER LINE AND BUILDING CLEANOUTS SHALL BE PROVIDED AND INSTALLED BY BUILDING PLUMBER. REFER TO INCREMENT 3 BUILDING PLANS, BY SEPARATE SUBMITTAL FOR SIZES, LOCATIONS FOR BUILDING(S) C, D, E & F.
 2. ADD 300.00' FEET TO ALL DESIGN ELEVATIONS
 3. BUILDING CONTRACTOR SHALL INSTALL CLEANOUT AT EACH BUILDING.
 4. CONTRACTOR SHALL INSTALL ALL ELBOWS, WYES, TEES AND APPURTENANCES AS NECESSARY TO FURNISH A COMPLETE PROJECT.
 5. CONTRACTOR SHALL ENSURE POSITIVE FLOW ON ALL SEWER PIPE PRIOR TO BACKFILL.

WATER CONSTRUCTION NOTES

- 1. PROPOSED PVC DOMESTIC WATER LINE (SIZE AND APPROXIMATE LENGTHS AS SHOWN)
 - 2. PROPOSED FIRE PROTECTION LINE (SIZE AND APPROXIMATE LENGTHS AS SHOWN) (NOTE: PIPE LENGTHS FOR SERVICES TO BUILDINGS INCLUDED ELBOWS, TEES ETC.)
 - 3. CONNECT TO 3" METER PER CAL-WATER PLANS AND INSTALL 3"x4" REDUCER AND 4" REDUCED PRESSURE PRINCIPLE ASSEMBLY (WILKINS 375XL LEAD FREE).
 - 4. CAP END FOR FUTURE CONNECTION BY LANDSCAPE CONTRACTOR.
 - 5. INSTALL FIRE HYDRANT ASSEMBLY AND VALVE PER DETAIL (F) 7.03
 - 6. CONNECT TO 8" FIRE SERVICE STUB PER CAL-WATER PLANS AND INSTALL 8" WILKINS 375DA REDUCED PRESSURE DETECTOR ASSEMBLY WITH OUTSIDE STEM & YOKE PER C.O.B. STD. PLATE W-18, SEE SHEET 7.03 (ALL FITTINGS FROM CAL-WATER MAIN TO DOUBLE CHECK DETECTOR ASSEMBLY SHALL BE DUCTILE IRON PER CAL-WATER REQUIREMENTS).
 - 7. FIRE WATER LINE TO BE INSTALLED BELOW DOMESTIC WATER LINE WITH MINIMUM 1' FOOT VERTICAL SEPARATION AND 1' FOOT HORIZONTAL SEPARATION TO ENSURE THRUST BLOCKS BEAR ON UNDISTURBED SOIL.
 - 8. INSTALL POST INDICATOR VALVE PER DETAIL (H) 7.03
 - 9. INSTALL END OF LINE BLOWOFF ASSEMBLY PER C.O.B. STD. PLATE W-6. SEE SHEET 7.03
 - 10. EXISTING FIRE HYDRANT PER "INCREMENT NO. 1" OFF-SITE WATER PLANS BY CAL-WATER.
 - 11. CONNECT TO 8" FIRE SERVICE STUB PER CAL-WATER PLANS AND INSTALL 8" WILKINS 375DA REDUCED PRESSURE DETECTOR ASSEMBLY WITH OUTSIDE STEM & YOKE PER C.O.B. STD. PLATE W-18. INSTALL 8" x 4" REDUCING ELL W/FIRE DEPT. CONNECTION ON DOWNSTREAM END OF D.C.D.A. PER C.O.B. FIRE DEPT. STD'S, SEE SHEET 7.03 (ALL FITTINGS FROM CAL-WATER MAIN TO DOUBLE CHECK DETECTOR ASSEMBLY SHALL BE DUCTILE IRON PER CAL-WATER REQUIREMENTS).
 - 12. INSTALL THRUST BLOCKS PER DETAIL (D) 7.03 FOR ALL WATER LINES (DOMESTIC AND FIRE) 4" OR LARGER AT ALL FITTINGS.
 - 13. INSTALL WATER SHUTOFF VALVE IN YARD BOX PER DETAIL (E) 7.03
- NOTE: REFER TO INCREMENT 3 BUILDING PLANS, BY SEPARATE SUBMITTAL FOR SIZES & LOCATIONS FOR BUILDING(S) C, D, E & F.
 NOTES: 1. UNDERGROUND CONTRACTOR SHALL STUB WATER LINE TO 5' FROM BUILDING UNLESS OTHERWISE INDICATED. LAST 5' OF WATER LINE TO EACH BUILDING SHALL BE PROVIDED AND INSTALLED BY BUILDING PLUMBER.
 2. BUILDING PLUMBER SHALL INSTALL WATER VALVE AT EACH BUILDING FOR DOMESTIC SERVICE. NO VALVES SHALL BE INSTALLED BETWEEN THE FDC AND THE SPRINKLER SYSTEM ON FIRE SERVICE LINES.
 3. SEE ARCHITECT'S PLANS FOR ALL DIMENSIONS NOT SHOWN PER THESE IMPROVEMENT PLANS.
 4. SEE SHEET 7.03 FOR TYPICAL TRENCH DETAIL.

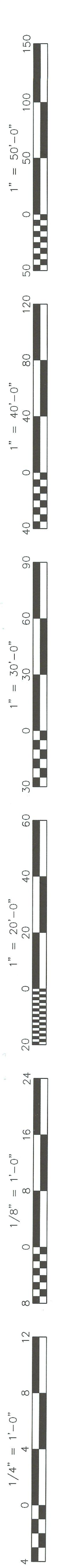
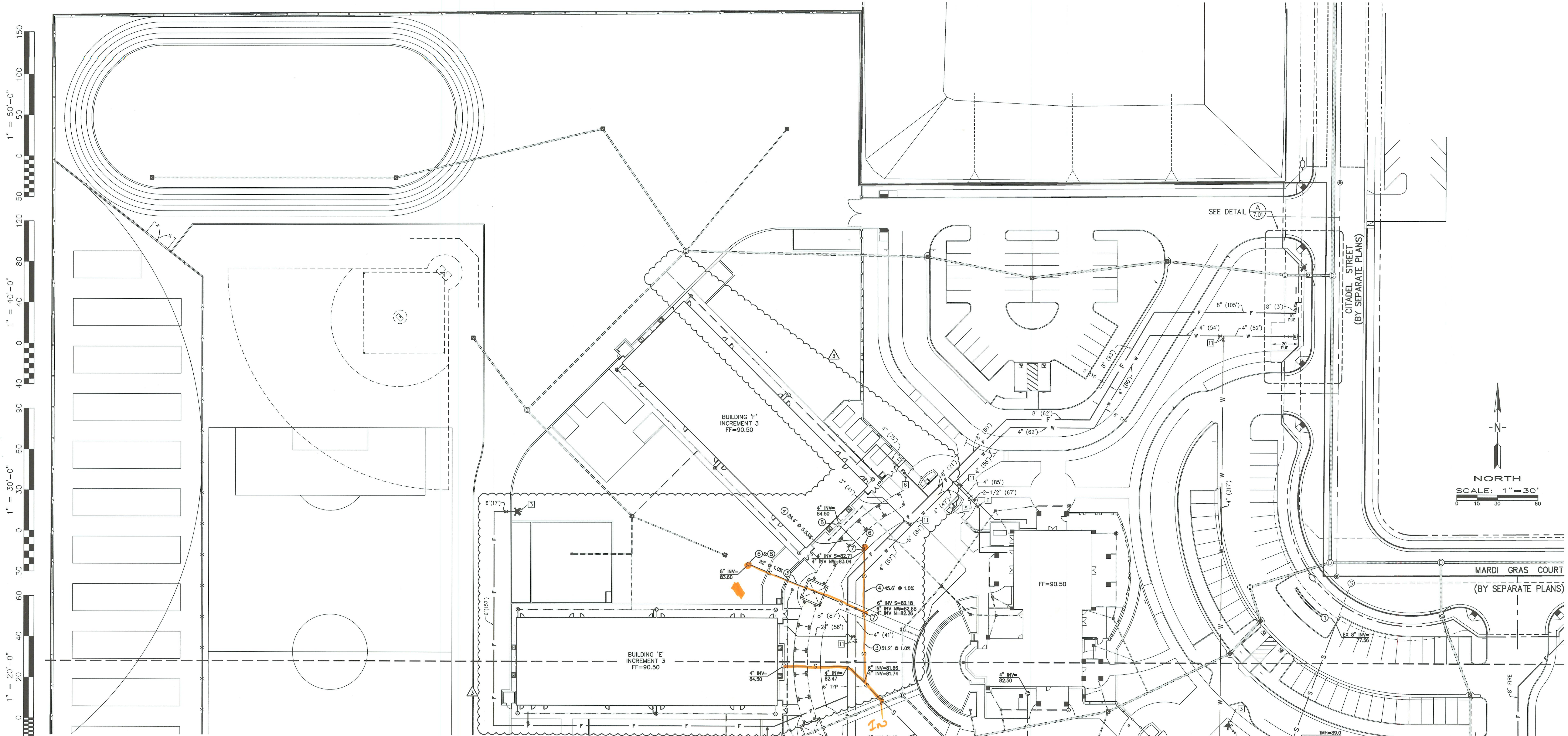
SYMBOLS LEGEND

- W PROPOSED WATER VALVE
- H PROPOSED FIRE HYDRANT AND SHUTOFF VALVE
- P PROPOSED POST INDICATOR VALVE
- S PROPOSED SEWER MANHOLE
- C PROPOSED SEWER CLEANOUT



NOTE TO CONTRACTOR
 ALL MANHOLES AND CLEANOUTS WITHIN PROJECT LIMITS, INCLUDING EXISTING MANHOLES, SHALL BE ADJUSTED TO FINISH GRADE IN ACCORDANCE WITH CITY OF BAKERSFIELD STANDARDS. EXISTING MANHOLES MAY REQUIRE REMOVAL OF EXISTING CONE, AND REMOVAL OR "CHANGE OUT" OF BARREL RINGS.

A AREA DETAIL
 7.01 NOT TO SCALE



SEE SHEET C7.02

SANITARY SEWER CONSTRUCTION NOTES

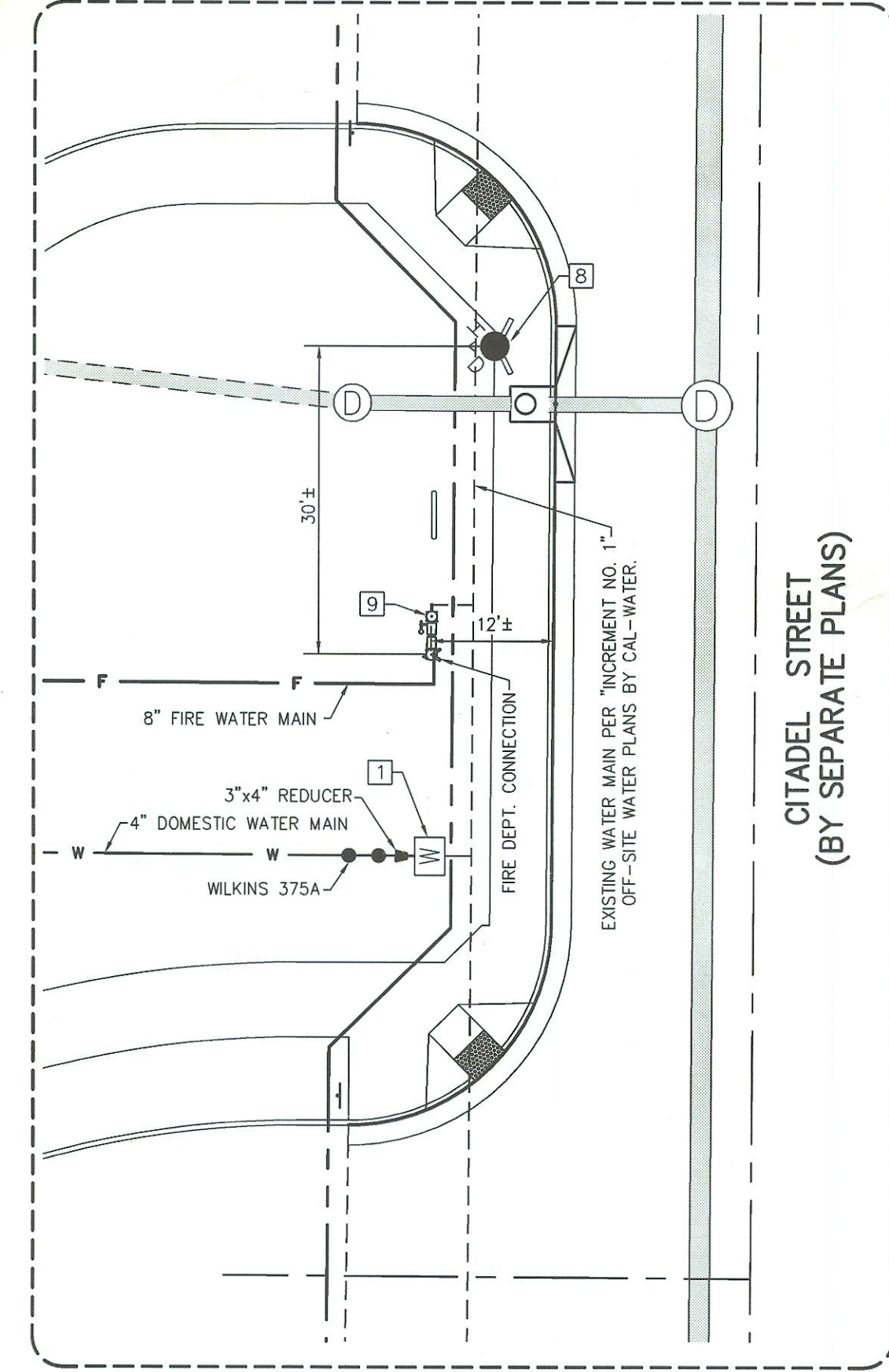
- S — PROPOSED SEWER LINE (SIZE AND LENGTHS AS SHOWN)
 - ① TIE INTO EXISTING 8" SEWER STUB PER INCREMENT #1 PLANS (CONTRACTOR SHALL VERIFY EXACT LOCATION AND DEPTH IN FIELD AND NOTIFY ENGINEER IF THERE ARE ANY DISCREPANCIES)
 - ② INSTALL 8" PVC SEWER MAIN (LENGTHS AND SLOPES SHOWN)
 - ③ INSTALL 6" PVC SEWER MAIN (LENGTHS AND SLOPES SHOWN)
 - ④ INSTALL 4" PVC SEWER LATERAL (LENGTHS AND SLOPES SHOWN)
 - ⑤ INSTALL SEWER MANHOLE PER DETAIL (B) (7/25)
 - ⑥ INSTALL SEWER CLEANOUT PER DETAIL (A) (7/25) (100' MAX SPACING)
 - ⑦ INSTALL STANDARD WYE, WYE SHALL BE ROTATED BETWEEN 23° AND 45° FROM HORIZONTAL
 - ⑧ PLUG SEWER MAIN FOR FUTURE EXTENSION.
- NOTES:
1. UNDERGROUND CONTRACTOR SHALL STUB SEWER LINE TO 5' FROM BUILDING UNLESS OTHERWISE INDICATED. COORDINATE SIZE AND LOCATION WITH BUILDING PLANS, LAST 5' OF SEWER LINE AND BUILDING CLEANOUTS SHALL BE PROVIDED AND INSTALLED BY BUILDING PLUMBER. REFER TO INCREMENT 3 BUILDING PLANS, BY SEPARATE SUBMITTAL FOR SIZES, LOCATIONS FOR BUILDING(S) C, D, E & F.
 2. ADD 300.00' FEET TO ALL DESIGN ELEVATIONS
 3. BUILDING CONTRACTOR SHALL INSTALL CLEANOUT AT EACH BUILDING.
 4. CONTRACTOR SHALL INSTALL ALL ELBOWS, WYES, TEES AND APPURTENANCES AS NECESSARY TO FURNISH A COMPLETE PROJECT.
 5. CONTRACTOR SHALL ENSURE POSITIVE FLOW ON ALL SEWER PIPE PRIOR TO BACKFILL.

WATER CONSTRUCTION NOTES

- W — PROPOSED PVC DOMESTIC WATER LINE (SIZE AND APPROXIMATE LENGTHS AS SHOWN)
 - F — PROPOSED PVC FIRE PROTECTION LINE (SIZE AND APPROXIMATE LENGTHS AS SHOWN) (NOTE: PIPE LENGTHS FOR SERVICES TO BUILDINGS INCLUDED ELBOWS, TEES ETC.)
 - ① CONNECT TO 3" METER PER CAL-WATER PLANS AND INSTALL 3"x4" REDUCER AND 4" REDUCED PRESSURE PRINCIPLE ASSEMBLY (WILKINS 375A LEAD FREE).
 - ② NOT USED
 - ③ INSTALL FIRE HYDRANT ASSEMBLY AND VALVE PER DETAIL (F) (7/25)
 - ④ CONNECT TO 8" FIRE SERVICE STUB PER CAL-WATER PLANS AND INSTALL 8" WILKINS 3500A DOUBLE CHECK DETECTOR ASSEMBLY BACKFLOW PREVENTER WITH OUTSIDE STEM & YOKE PER C.O.B. STD. PLATE W-18, SEE SHEET 7.03 (ALL FITTINGS FROM CAL-WATER MAIN TO DOUBLE CHECK DETECTOR ASSEMBLY SHALL BE DUCTILE IRON PER CAL-WATER REQUIREMENTS).
 - ⑤ FIRE WATER LINE TO BE INSTALLED BELOW DOMESTIC WATER LINE WITH MINIMUM 1' FOOT VERTICAL SEPARATION AND 1' FOOT HORIZONTAL SEPARATION TO ENSURE THRUST BLOCKS BEAR ON UNDISTURBED SOIL.
 - ⑥ INSTALL POST INDICATOR VALVE PER DETAIL (H) (7/25)
 - ⑦ INSTALL END OF LINE BLOWOFF ASSEMBLY PER C.O.B. STD. PLATE W-6. SEE SHEET 7.03
 - ⑧ EXISTING FIRE HYDRANT PER INCREMENT NO. 1 OFF-SITE WATER PLANS BY CAL-WATER.
 - ⑨ CONNECT TO 8" FIRE SERVICE STUB PER CAL-WATER PLANS AND INSTALL 8" WILKINS 3500A DOUBLE CHECK DETECTOR ASSEMBLY BACKFLOW PREVENTER WITH OUTSIDE STEM & YOKE PER C.O.B. STD. PLATE W-18. INSTALL 8" x 4" REDUCING ELL W/FIRE DEPT. CONNECTION ON DOWNSTREAM END OF D.C.D.A. PER C.O.B. FIRE DEPT. STD'S. SEE SHEET 7.03 (ALL FITTINGS FROM CAL-WATER MAIN TO DOUBLE CHECK DETECTOR ASSEMBLY SHALL BE DUCTILE IRON PER CAL-WATER REQUIREMENTS).
 - ⑩ INSTALL THRUST BLOCKS PER DETAIL (I) (7/25) FOR ALL WATER LINES (DOMESTIC AND FIRE) 4" OR LARGER AT ALL FITTINGS.
 - ⑪ INSTALL WATER SHUTOFF VALVE IN YARD BOX PER DETAIL (E) (7/25)
- NOTE: REFER TO INCREMENT 3 BUILDING PLANS, BY SEPARATE SUBMITTAL FOR SIZES & LOCATIONS FOR BUILDING(S) C, D, E & F.
- NOTES:
1. UNDERGROUND CONTRACTOR SHALL STUB WATER LINE TO 5' FROM BUILDING UNLESS OTHERWISE INDICATED. LAST 5' OF WATER LINE TO EACH BUILDING SHALL BE PROVIDED AND INSTALLED BY BUILDING PLUMBER.
 2. BUILDING PLUMBER SHALL INSTALL WATER VALVE AT EACH BUILDING FOR DOMESTIC SERVICE. NO VALVES SHALL BE INSTALLED BETWEEN THE FDC AND THE SPRINKLER SYSTEM ON FIRE SERVICE LINES.
 3. SEE ARCHITECT'S PLANS FOR ALL DIMENSIONS NOT SHOWN PER THESE IMPROVEMENT PLANS.
 4. SEE SHEET 7.03 FOR TYPICAL TRENCH DETAIL.

SYMBOLS LEGEND

- ✱ PROPOSED WATER VALVE
- ✱✱ PROPOSED FIRE HYDRANT AND SHUTOFF VALVE
- PROPOSED POST INDICATOR VALVE
- ⊙ PROPOSED SEWER MANHOLE
- ⊙ PROPOSED SEWER CLEANOUT



NOTE TO CONTRACTOR
 ALL MANHOLES AND CLEANOUTS WITHIN PROJECT LIMITS, INCLUDING EXISTING MANHOLES, SHALL BE ADJUSTED TO FINISH GRADE IN ACCORDANCE WITH CITY OF BAKERSFIELD STANDARDS. EXISTING MANHOLES MAY REQUIRE REMOVAL OF EXISTING CONE, AND REMOVAL OR "CHANGE OUT" OF BARREL RINGS.

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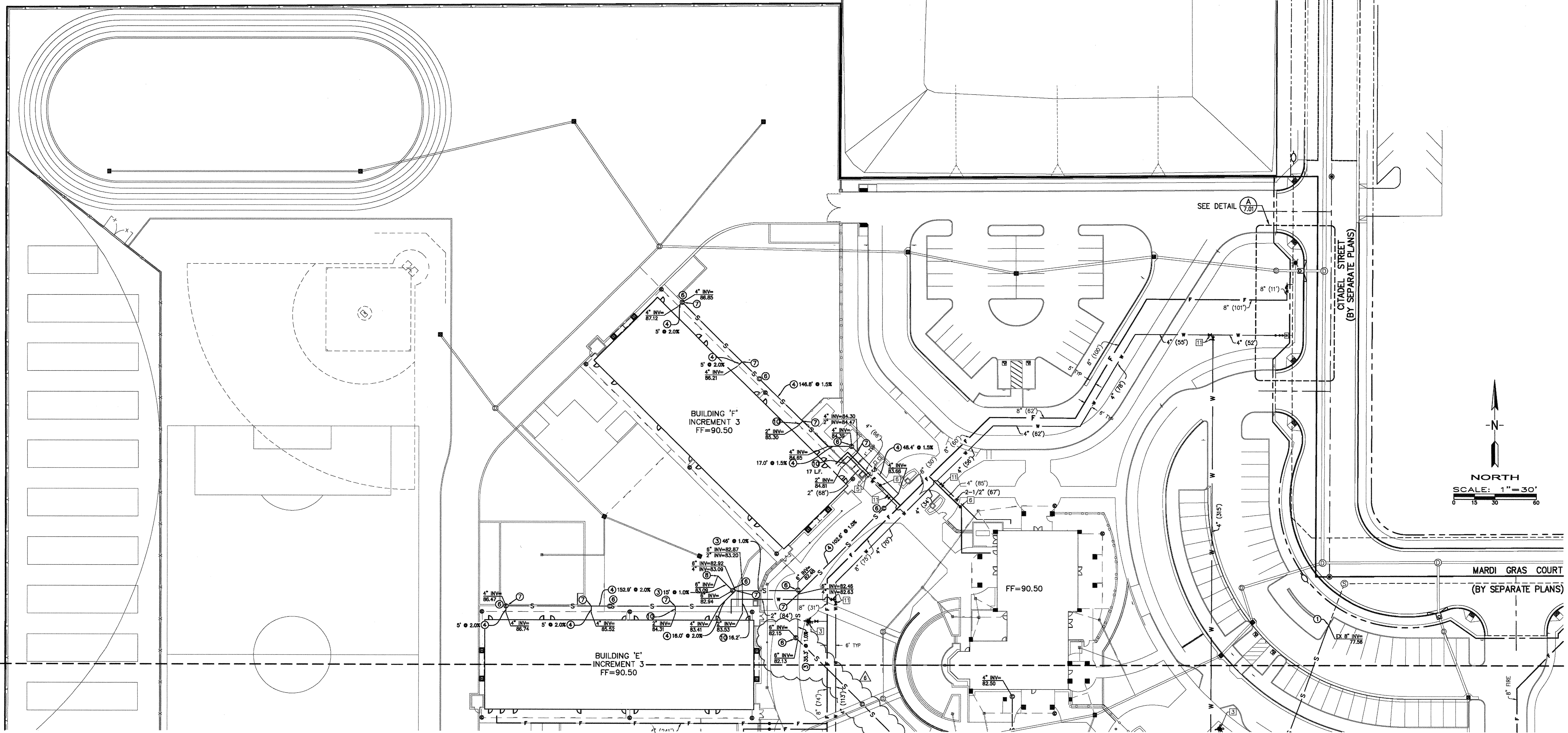
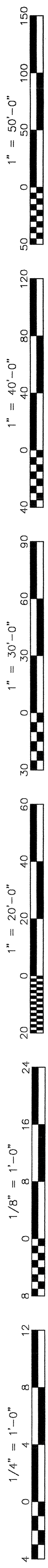
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Rev. No.	Date	Description
01	03-21-19	CCD 3
02	03-21-19	CCD 3
03	03-21-19	CCD 3

Job No: **5262**
 Sheet No: **C7.01**
 Release: CCD 3

J:\3014A\Improvements\Sewer-Water Plans\3014A-sw-wr_Plan.dwg MATTHEW CARSON



SEE SHEET C7.02

SANITARY SEWER CONSTRUCTION NOTES

- 1. PROPOSED SEWER LINE (SIZE AND LENGTHS AS SHOWN)
- 2. TIE INTO EXISTING 8" SEWER STUB PER "INCREMENT #1" PLANS (CONTRACTOR SHALL VERIFY EXACT LOCATION AND DEPTH IN FIELD AND NOTIFY ENGINEER IF THERE ARE ANY DISCREPANCIES)
- 3. INSTALL 8" PVC SEWER MAIN (LENGTHS AND SLOPES SHOWN)
- 4. INSTALL 6" PVC SEWER MAIN (LENGTHS AND SLOPES SHOWN)
- 5. INSTALL 4" PVC SEWER LATERAL (LENGTHS AND SLOPES SHOWN)
- 6. INSTALL SEWER MANHOLE PER DETAIL (B) (7/31)
- 7. INSTALL SEWER CLEANOUT PER DETAIL (A) (7/31)
- 8. INSTALL STANDARD WYE, WYE SHALL BE ROTATED BETWEEN 23° AND 45° FROM HORIZONTAL
- 9. PLUG SEWER MAIN FOR FUTURE EXTENSION
- 10. INSTALL SEWER MANHOLE WITH DROP CONNECTION PER DETAIL (C) (7/31)
- 11. INSTALL 5 LF. (UNLESS OTHERWISE NOTED) 2" PVC SEWER LATERAL AT 2% SLOPE.

NOTES:
 1. UNDERGROUND CONTRACTOR SHALL STUB SEWER LINE TO 5' FROM BUILDING UNLESS OTHERWISE INDICATED. COORDINATE SIZE AND LOCATION WITH BUILDING PLANS, LAST 5' OF SEWER LINE AND BUILDING CLEANOUTS SHALL BE PROVIDED AND INSTALLED BY BUILDING PLUMBER. REFER TO INCREMENT 3 BUILDING PLANS, BY SEPARATE SUBMITTAL FOR SIZES, LOCATIONS FOR BUILDING(S) C, D, E & F.
 2. ADD 300.00' FEET TO ALL DESIGN ELEVATIONS
 3. BUILDING CONTRACTOR SHALL INSTALL CLEANOUT AT EACH BUILDING.
 4. CONTRACTOR SHALL INSTALL ALL ELBOWS, WYES, TEES AND APPURTENANCES AS NECESSARY TO FURNISH A COMPLETE PROJECT.
 5. CONTRACTOR SHALL ENSURE POSITIVE FLOW ON ALL SEWER PIPE PRIOR TO BACKFILL.

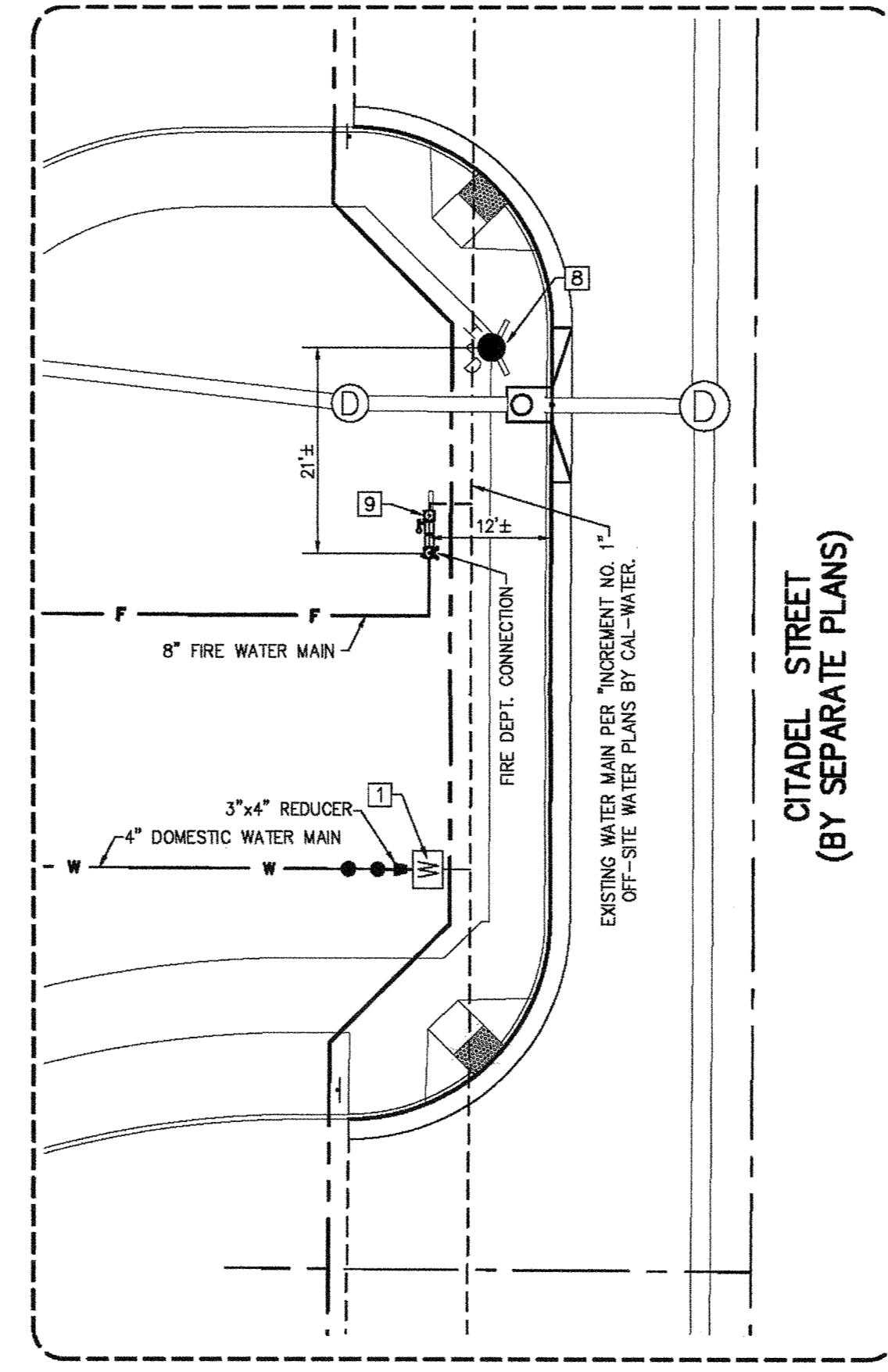
WATER CONSTRUCTION NOTES

- 1. PROPOSED PVC DOMESTIC WATER LINE (SIZE AND APPROXIMATE LENGTHS AS SHOWN)
- 2. PROPOSED PVC FIRE PROTECTION LINE (SIZE AND APPROXIMATE LENGTHS AS SHOWN) (NOTE: PIPE LENGTHS FOR SERVICES TO BUILDINGS INCLUDED ELBOWS, TEES ETC.)
- 3. CONNECT TO 3" METER PER CAL-WATER PLANS AND INSTALL 3"x4" REDUCER AND 4" REDUCED PRESSURE PRINCIPLE ASSEMBLY (WILKINS 375A LEAD FREE).
- 4. CONNECT TO 6" LANDSCAPE SERVICE AND INSTALL 6" REDUCED PRESSURE PRINCIPLE ASSEMBLY (WILKINS 375A LEAD FREE) AND CAP END FOR CONNECTION BY LANDSCAPE ARCHITECT.
- 5. INSTALL FIRE HYDRANT ASSEMBLY AND VALVE PER DETAIL (F) (7/31)
- 6. CONNECT TO 8" FIRE SERVICE STUB PER CAL-WATER PLANS AND INSTALL 8" WILKINS 375DA REDUCED PRESSURE DETECTOR ASSEMBLY WITH OUTSIDE STEM & YOKE PER C.O.B. STD. PLATE W-18. SEE SHEET 7.03 (ALL FITTINGS FROM CAL-WATER MAIN TO DOUBLE CHECK DETECTOR ASSEMBLY SHALL BE DUCTILE IRON PER CAL-WATER REQUIREMENTS).
- 7. FIRE WATER LINE TO BE INSTALLED BELOW DOMESTIC WATER LINE WITH MINIMUM 1' FOOT VERTICAL SEPARATION AND 1' FOOT HORIZONTAL SEPARATION TO ENSURE THRUST BLOCKS BEAR ON UNDISTURBED SOIL.
- 8. INSTALL POST INDICATOR VALVE PER DETAIL (H) (7/31)
- 9. INSTALL END OF LINE BLOWOFF ASSEMBLY PER C.O.B. STD. PLATE W-6. SEE SHEET 7.03
- 10. EXISTING FIRE HYDRANT PER "INCREMENT NO. 1" OFF-SITE WATER PLANS BY CAL-WATER.
- 11. CONNECT TO 8" FIRE SERVICE STUB PER CAL-WATER PLANS AND INSTALL 8" WILKINS 375DA REDUCED PRESSURE DETECTOR ASSEMBLY WITH OUTSIDE STEM & YOKE PER C.O.B. STD. PLATE W-18. INSTALL 8" x 4" REDUCING ELL. W/FIRE DEPT. CONNECTION ON DOWNSIDE END OF D.C.D.A. PER C.O.B. FIRE DEPT. STD'S. SEE SHEET 7.03 (ALL FITTINGS FROM CAL-WATER MAIN TO DOUBLE CHECK DETECTOR ASSEMBLY SHALL BE DUCTILE IRON PER CAL-WATER REQUIREMENTS).
- 12. INSTALL THRUST BLOCKS PER DETAIL (D) (7/31) FOR ALL WATER LINES (DOMESTIC AND FIRE) 4" OR LARGER AT ALL FITTINGS.
- 13. INSTALL WATER SHUTOFF VALVE IN YARD BOX PER DETAIL (E) (7/31)

NOTE: REFER TO INCREMENT 3 BUILDING PLANS, BY SEPARATE SUBMITTAL FOR SIZES & LOCATIONS FOR BUILDING(S) C, D, E & F.
 NOTES:
 1. UNDERGROUND CONTRACTOR SHALL STUB WATER LINE TO 5' FROM BUILDING UNLESS OTHERWISE INDICATED. LAST 5' OF WATER LINE TO EACH BUILDING SHALL BE PROVIDED AND INSTALLED BY BUILDING PLUMBER.
 2. BUILDING PLUMBER SHALL INSTALL WATER VALVE AT EACH BUILDING FOR DOMESTIC SERVICE. NO VALVES SHALL BE INSTALLED BETWEEN THE FDC AND THE SPRINKLER SYSTEM ON FIRE SERVICE LINES.
 3. SEE ARCHITECT'S PLANS FOR ALL DIMENSIONS NOT SHOWN PER THESE IMPROVEMENT PLANS.
 4. SEE SHEET 7.03 FOR TYPICAL TRENCH DETAIL.

SYMBOLS LEGEND

- PROPOSED WATER VALVE
- PROPOSED FIRE HYDRANT AND SHUTOFF VALVE
- PROPOSED POST INDICATOR VALVE
- PROPOSED SEWER MANHOLE
- PROPOSED SEWER CLEANOUT



AREA DETAIL (7.01) NOT TO SCALE

NOTE TO CONTRACTOR
 ALL MANHOLES AND CLEANOUTS WITHIN PROJECT LIMITS, INCLUDING EXISTING MANHOLES, SHALL BE ADJUSTED TO FINISH GRADE IN ACCORDANCE WITH CITY OF BAKERSFIELD STANDARDS. EXISTING MANHOLES MAY REQUIRE REMOVAL OF EXISTING CONE, AND REMOVAL OR "CHANGE OUT" OF BARREL RINGS.

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integrated designs by SOMAM, Inc.
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 Phone (559) 438-0888 Fax (559) 438-0887 E-Mail: info@integrateddesigns.com
 www.integrateddesigns.com

SEWER AND WATER PLANS
NORTH HALF
NEW ELEMENTARY SCHOOL
INCREMENT 2
 BAKERSFIELD CITY SCHOOL DISTRICT
 @ CITADEL STREET & MARDI GRAS COURT

Drawn: XXX
 Date: 7/31/2018
 Designer: [Signature]
 In Charge: [Signature]
 P.C.: XXX

Agency Approval Stamp:
 FILE # 15-6
 IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 OFFICE OF REGULATION SERVICES
 03-118394
 AC: [Signature] FLS: [Signature] SS: [Signature] TN
 DATE: 12/28/18
 TRACKING # 63321-300

Stamp(s):
 REGISTERED PROFESSIONAL ENGINEER
 PORTER & ASSOCIATES, INC.
 No. 74059
 STATE OF CALIFORNIA

Stamp(s):
 LICENSED SURVEYOR
 PORTER & ASSOCIATES, INC.
 No. 5-3119
 STATE OF CALIFORNIA

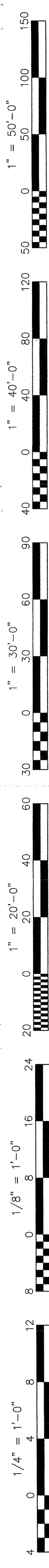
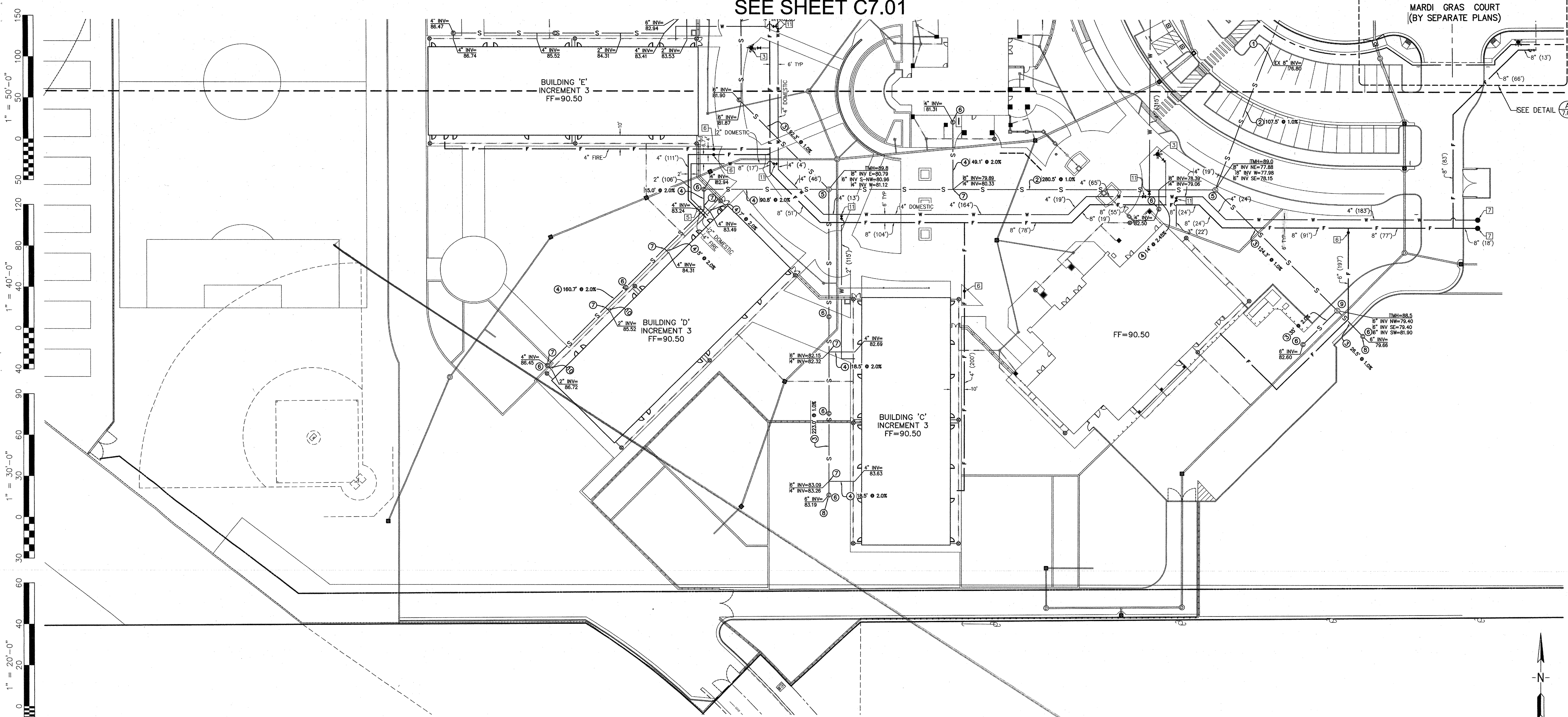
Job No.: **5262**

Sheet No.: **C7.01**

Release: Addendum 6
 NATE BLINKARD

SEE SHEET C7.01

MARDI GRAS COURT
(BY SEPARATE PLANS)



SANITARY SEWER CONSTRUCTION NOTES

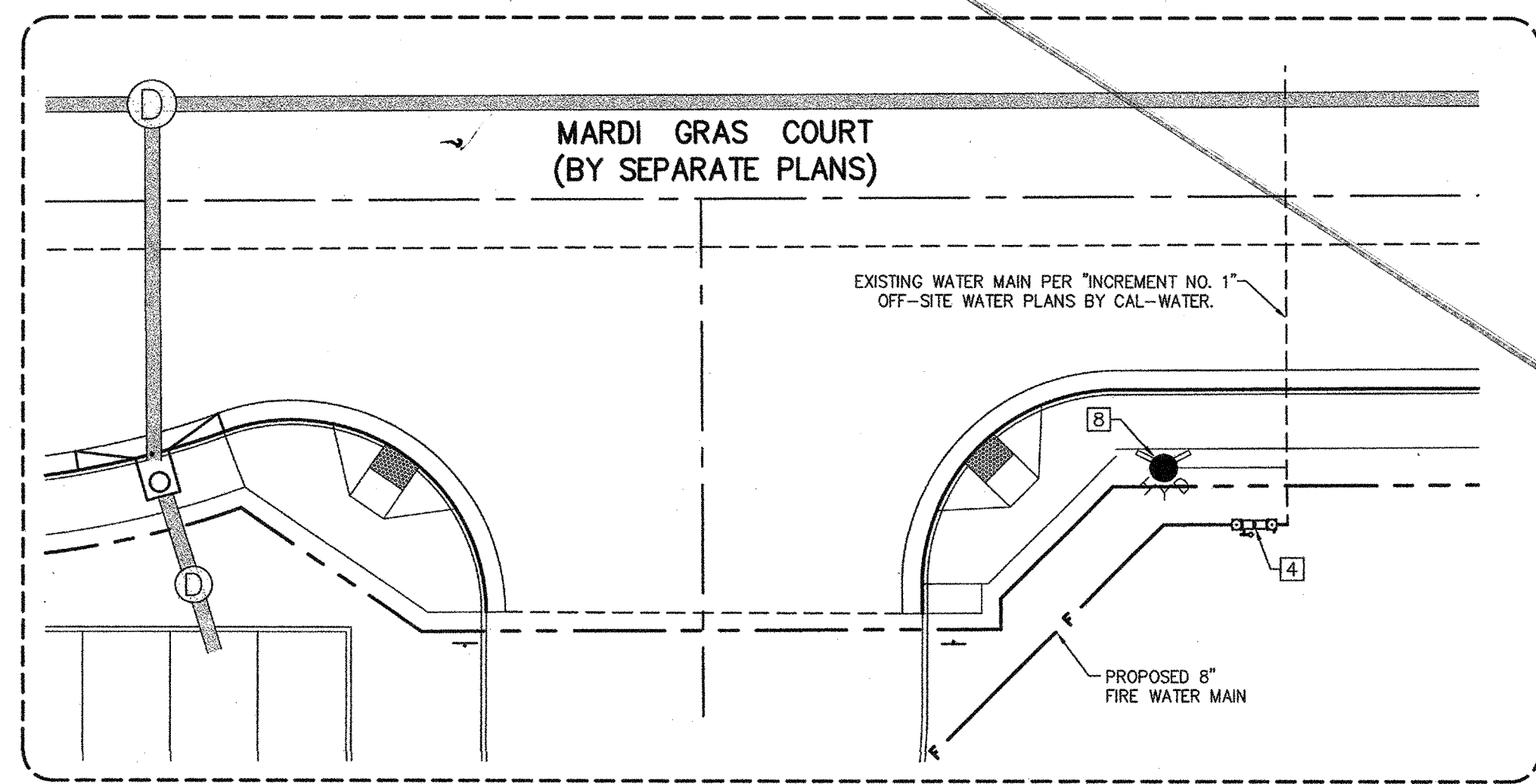
- 1. PROPOSED SEWER LINE (SIZE AND LENGTHS AS SHOWN)
 - 2. TIE INTO EXISTING 8" SEWER STUB PER "INCREMENT #1" PLANS (CONTRACTOR SHALL VERIFY EXACT LOCATION AND DEPTH IN FIELD AND NOTIFY ENGINEER IF THERE ARE ANY DISCREPANCIES)
 - 3. INSTALL 8" PVC SEWER MAIN (LENGTHS AND SLOPES SHOWN)
 - 4. INSTALL 6" PVC SEWER MAIN (LENGTHS AND SLOPES SHOWN)
 - 5. INSTALL 4" PVC SEWER LATERAL (LENGTHS AND SLOPES SHOWN)
 - 6. INSTALL SEWER MANHOLE PER DETAIL (A) (7.03)
 - 7. INSTALL SEWER CLEANOUT PER DETAIL (B) (7.03)
 - 8. INSTALL STANDARD WYE, WYE SHALL BE ROTATED BETWEEN 23° AND 45° FROM HORIZONTAL
 - 9. PLUG SEWER MAIN FOR FUTURE EXTENSION.
 - 10. INSTALL SEWER MANHOLE WITH DROP CONNECTION PER DETAIL (C) (7.03)
 - 11. INSTALL 5 L.F. (UNLESS OTHERWISE NOTED) 2" PVC SEWER LATERAL AT 2% SLOPE.
- NOTES:
- UNDERGROUND CONTRACTOR SHALL STUB SEWER LINE TO 5' FROM BUILDING UNLESS OTHERWISE INDICATED. COORDINATE SIZE AND LOCATION WITH BUILDING PLANS. LAST 5' OF SEWER LINE AND BUILDING CLEANOUTS SHALL BE PROVIDED AND INSTALLED BY BUILDING PLUMBER. REFER TO INCREMENT 3 BUILDING PLANS, BY SEPARATE SUBMITTAL FOR SIZES, LOCATIONS FOR BUILDING(S) C, D, E & F.
 - ADD 300.00' FEET TO ALL DESIGN ELEVATIONS
 - BUILDING CONTRACTOR SHALL INSTALL CLEANOUT AT EACH BUILDING.
 - CONTRACTOR SHALL INSTALL ALL ELBOWS, WYES, TEES AND APPURTENANCES AS NECESSARY TO FURNISH A COMPLETE PROJECT.
 - CONTRACTOR SHALL ENSURE POSITIVE FLOW ON ALL SEWER PIPE PRIOR TO BACKFILL.

WATER CONSTRUCTION NOTES

- 1. PROPOSED PVC DOMESTIC WATER LINE (SIZE AND APPROXIMATE LENGTHS AS SHOWN)
 - 2. PROPOSED PVC FIRE PROTECTION LINE (SIZE AND APPROXIMATE LENGTHS AS SHOWN) (NOTE: PIPE LENGTHS FOR SERVICES TO BUILDINGS INCLUDED ELBOWS, TEE'S ETC.)
 - 3. CONNECT TO 3" METER PER CAL-WATER PLANS AND INSTALL 3"x4" REDUCER AND 4" REDUCED PRESSURE PRINCIPLE ASSEMBLY (WILKINS 375XL LEAD FREE).
 - 4. CAP END FOR FUTURE CONNECTION BY LANDSCAPE CONTRACTOR.
 - 5. INSTALL FIRE HYDRANT ASSEMBLY AND VALVE PER DETAIL (F) (7.03)
 - 6. CONNECT TO 8" FIRE SERVICE STUB PER CAL-WATER PLANS AND INSTALL 8" WILKINS 3750A REDUCED PRESSURE DETECTOR ASSEMBLY WITH OUTSIDE STEM & YOKE PER C.O.B. STD. PLATE W-18, SEE SHEET 7.03 (ALL FITTINGS FROM CAL-WATER MAIN TO DOUBLE CHECK DETECTOR ASSEMBLY SHALL BE DUCTILE IRON PER CAL-WATER REQUIREMENTS).
 - 7. FIRE WATER LINE TO BE INSTALLED BELOW DOMESTIC WATER LINE WITH MINIMUM 1' FOOT VERTICAL SEPARATION AND 1' FOOT HORIZONTAL SEPARATION TO ENSURE THRUST BLOCKS BEAR ON UNDISTURBED SOIL.
 - 8. INSTALL POST INDICATOR VALVE PER DETAIL (H) (7.03)
 - 9. INSTALL END OF LINE BLOWOFF ASSEMBLY PER C.O.B. STD. PLATE W-6. SEE SHEET 7.03
 - 10. EXISTING FIRE HYDRANT PER "INCREMENT NO. 1" OFF-SITE WATER PLANS BY CAL-WATER.
 - 11. CONNECT TO 8" FIRE SERVICE STUB PER CAL-WATER PLANS AND INSTALL 8" WILKINS 3750A REDUCED PRESSURE DETECTOR ASSEMBLY WITH OUTSIDE STEM & YOKE PER C.O.B. STD. PLATE W-18, INSTALL 8" x 4" REDUCING ELL W/FIRE DEPT. CONNECTION ON DOWNSTREAM END OF D.C.D.A. PER C.O.B. FIRE DEPT. STD'S. SEE SHEET 7.03 (ALL FITTINGS FROM CAL-WATER MAIN TO DOUBLE CHECK DETECTOR ASSEMBLY SHALL BE DUCTILE IRON PER CAL-WATER REQUIREMENTS).
 - 12. INSTALL THRUST BLOCKS PER DETAIL (D) (7.03) FOR ALL WATER LINES (DOMESTIC AND FIRE) 4" OR LARGER AT ALL FITTINGS.
 - 13. INSTALL WATER SHUTOFF VALVE IN YARD BOX PER DETAIL (G) (7.03)
- NOTE: REFER TO INCREMENT 3 BUILDING PLANS, BY SEPARATE SUBMITTAL FOR SIZES & LOCATIONS FOR BUILDING(S) C, D, E & F.
- NOTES:
- UNDERGROUND CONTRACTOR SHALL STUB WATER LINE TO 5' FROM BUILDING UNLESS OTHERWISE INDICATED. LAST 5' OF WATER LINE TO EACH BUILDING SHALL BE PROVIDED AND INSTALLED BY BUILDING PLUMBER.
 - BUILDING PLUMBER SHALL INSTALL WATER VALVE AT EACH BUILDING FOR DOMESTIC SERVICE. NO VALVES SHALL BE INSTALLED BETWEEN THE FDC AND THE SPRINKLER SYSTEM ON FIRE SERVICE LINES.
 - SEE ARCHITECT'S PLANS FOR ALL DIMENSIONS NOT SHOWN PER THESE IMPROVEMENT PLANS.
 - SEE SHEET 7.03 FOR TYPICAL TRENCH DETAIL.

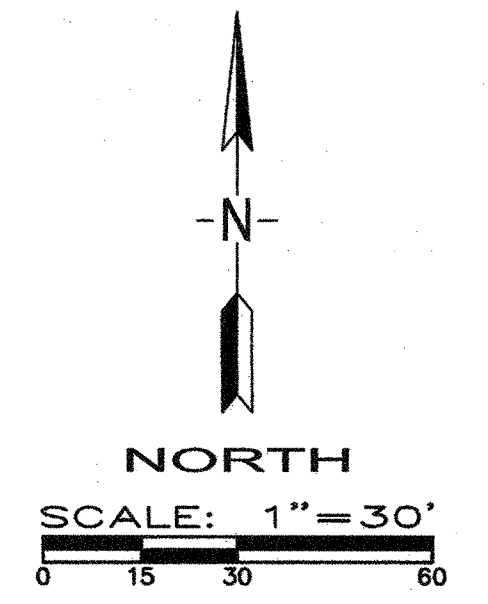
SYMBOLS LEGEND

- W — PROPOSED WATER VALVE
- F — PROPOSED FIRE HYDRANT AND SHUTOFF VALVE
- P — PROPOSED POST INDICATOR VALVE
- S — PROPOSED SEWER MANHOLE
- C — PROPOSED SEWER CLEANOUT



AREA DETAIL 7.02 NOT TO SCALE

NOTE TO CONTRACTOR
ALL MANHOLES AND CLEANOUTS WITHIN PROJECT LIMITS, INCLUDING EXISTING MANHOLES, SHALL BE ADJUSTED TO FINISH GRADE IN ACCORDANCE WITH CITY OF BAKERSFIELD STANDARDS. EXISTING MANHOLES MAY REQUIRE REMOVAL OF EXISTING CONE, AND REMOVAL OR "CHANGE OUT" OF BARREL RINGS.



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www.integratedesigns.com

Project Name & Address: **SEWER AND WATER PLANS SOUTH HALF NEW ELEMENTARY SCHOOL INCREMENT 2**
BAKERSFIELD CITY SCHOOL DISTRICT @ CITADEL STREET & MARDI GRAS COURT

Sheet No.: XXX
Main Date: XXX
Date: 7/31/2018
Design: XXX
DRC: XXX
P/C: XXX

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AC: [Signature]
DATE: 08-22-18
TRACKING #: 63321-300

Stamp: [Professional Engineer Seal - RCE 74059, State of California, Civil Engineer]

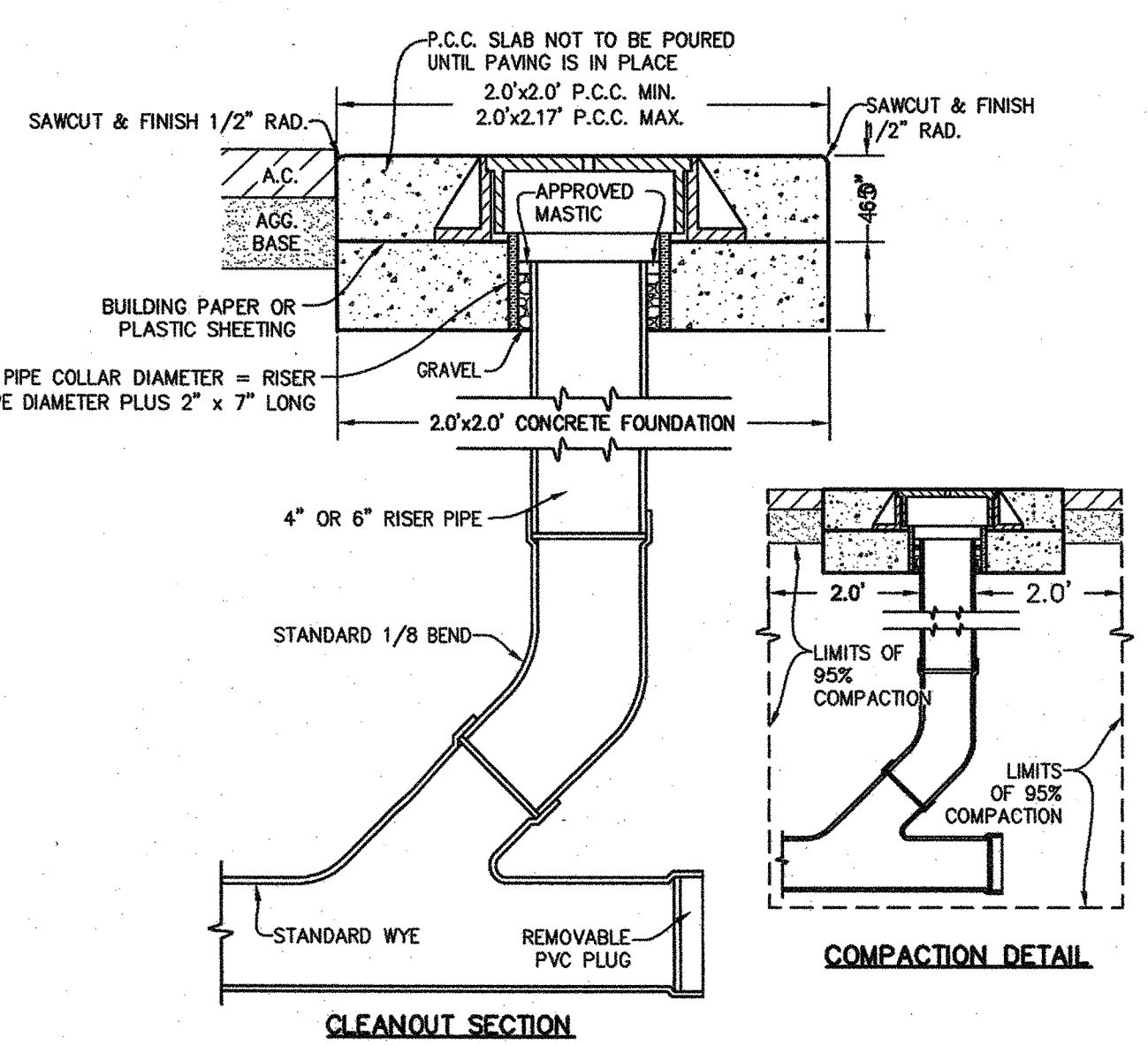
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Sheet No.: **C7.02**

Release: -

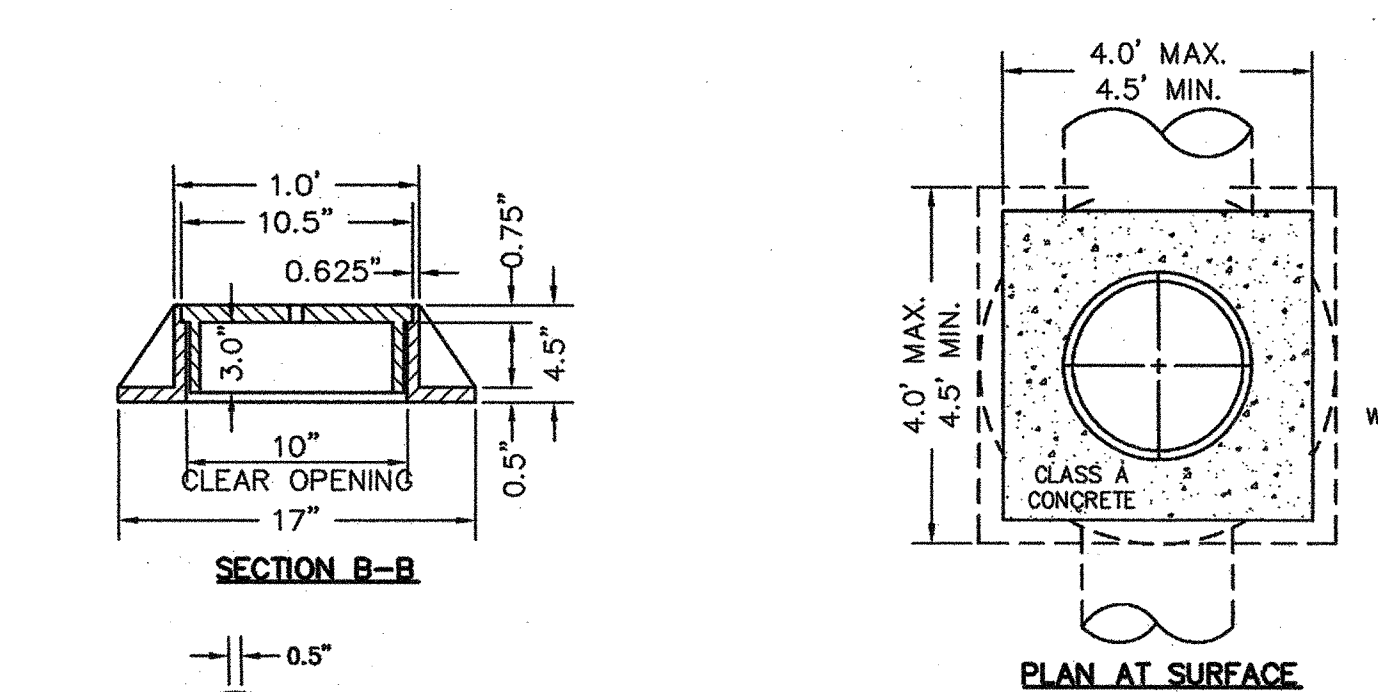
J:\3014A\Improvements\Sewer-Water Plans\3014A-sw-wtr_Plan.dwg MATTHEW CARSON

1" = 50'-0"
1" = 40'-0"
1" = 30'-0"
1" = 20'-0"
1" = 15'-0"
1" = 10'-0"
1" = 8'-0"
1" = 6'-0"
1" = 4'-0"
1" = 3'-0"
1" = 2'-0"
1" = 1'-0"
1" = 1'-0"
1" = 1'-0"

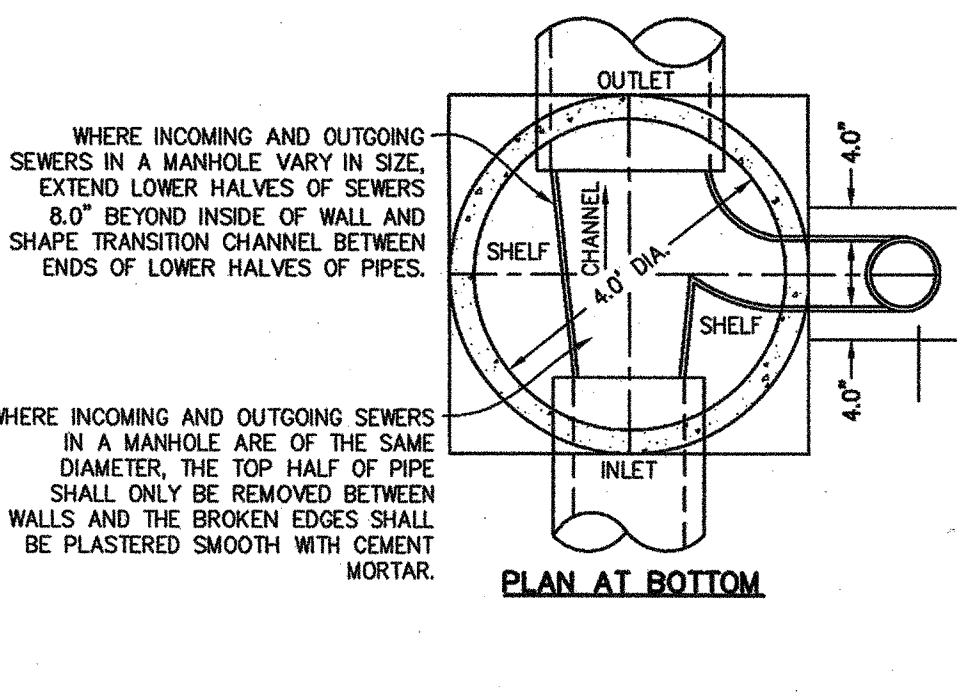
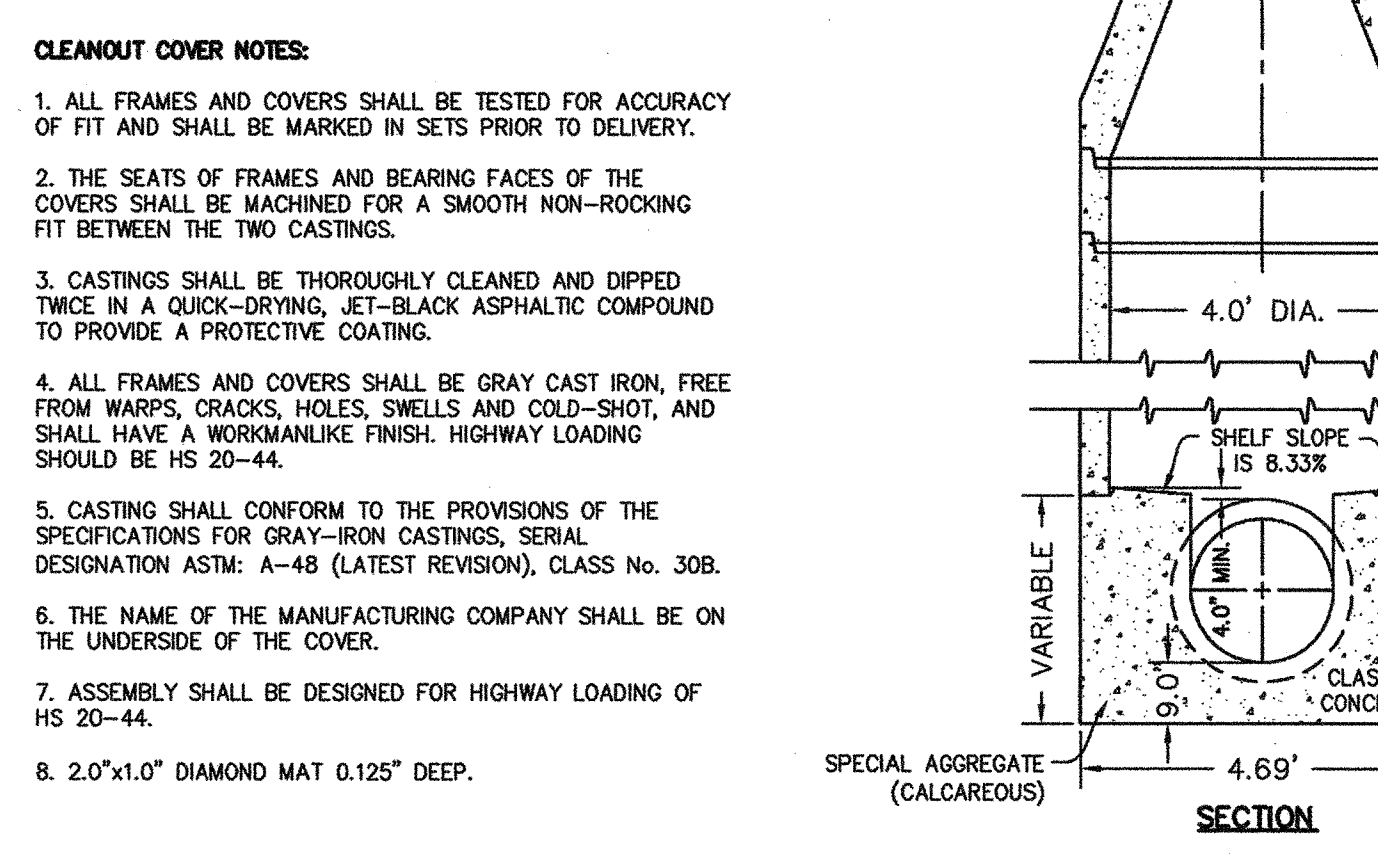


- CLEANOUT NOTES:**
1. ALL WORK SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE SPECIFICATIONS ENTITLED "STANDARD SPECIFICATIONS, STATE OF CALIFORNIA, BUSINESS AND TRANSPORTATION AGENCY, DEPARTMENT OF TRANSPORTATION, APPROVED CURRENT EDITION.
 2. ALL CONCRETE SHALL BE CLASS "A".
 3. CONCRETE SHALL HAVE NO ADDITIVES UNLESS PRIOR WRITTEN APPROVAL IS OBTAINED FROM THE ENGINEER.
 4. CONCRETE SHALL BE CURED WITH A WHITE PIGMENTED CURING COMPOUND PER SEC. 90-7.01B OF THE STANDARD SPECS.
 5. TOP OF SLAB SHALL BE TROWELED SMOOTH AND GIVEN A LIGHT BROOM FINISH.
 6. 95% RELATIVE COMPACTION IS REQUIRED FOR ALL BACKFILL WITHIN 2" OF THE RISER PIPE.
 7. BUILDING PAPER OR PLASTIC SHALL BE PLACED BETWEEN THE 6" CONCRETE FOUNDATION AND 4.5" SLAB.
 8. FILL CAVITY BETWEEN PIPE AND COLLAR WITH GRAVEL TO WITHIN 1/2" OF TOP OF PIPE. CALK REMAINING 1/2" WITH APPROVED MASTIC TO TOP OF PIPE FOR WATER TIGHT SEAL.
 9. COLLAR SHALL BE VCP, ABS, OR PVC PIPE.
 10. FINISHED PCC SLAB TO BE 1/8" MIN. AND 1/4" MAX. BELOW FINISHED PAWING SURFACE.

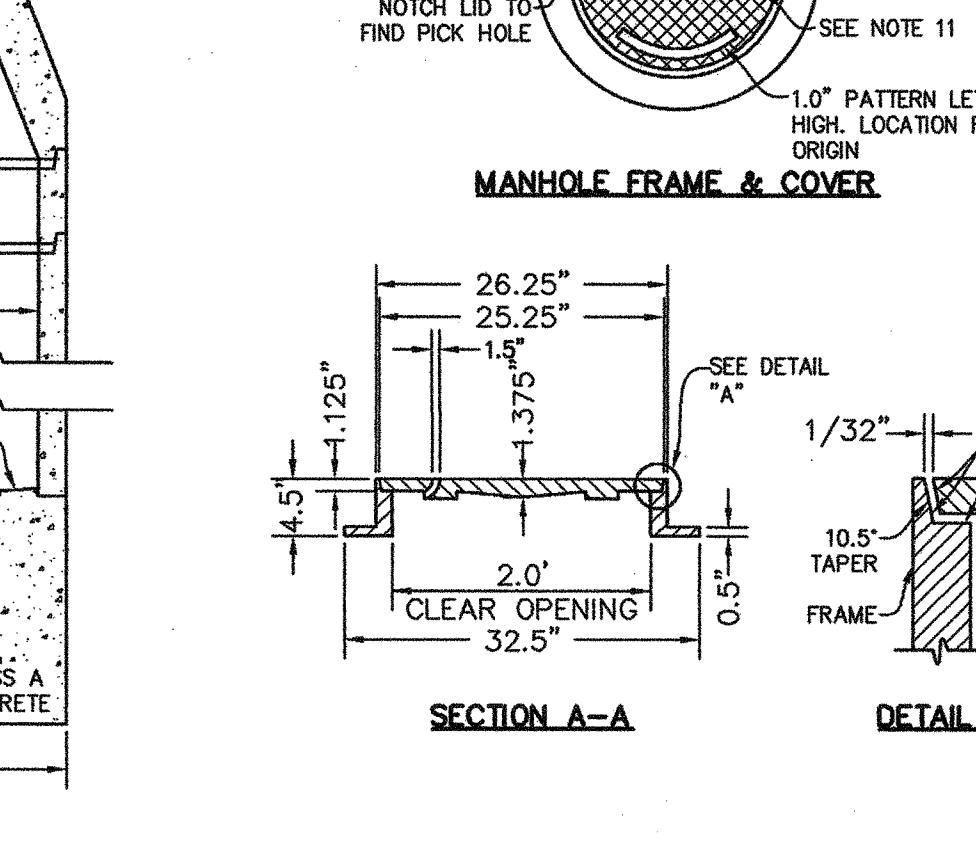
A SEWER CLEANOUT DETAIL
7.03 N.T.S.



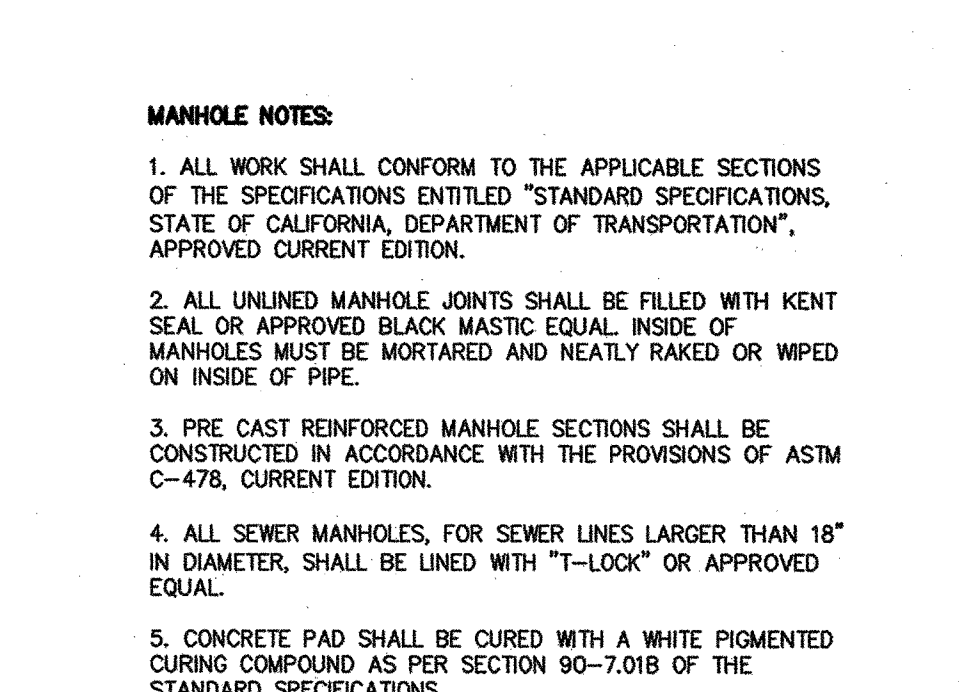
- CLEANOUT COVER NOTES:**
1. ALL FRAMES AND COVERS SHALL BE TESTED FOR ACCURACY OF FIT AND SHALL BE MARKED IN SETS PRIOR TO DELIVERY.
 2. THE SEATS OF FRAMES AND BEARING FACES OF THE COVERS SHALL BE MACHINED FOR A SMOOTH NON-ROCKING FIT BETWEEN THE TWO CASTINGS.
 3. CASTINGS SHALL BE THOROUGHLY CLEANED AND DIPPED TWICE IN A QUICK-DRYING, JET-BLACK ASPHALTIC COMPOUND TO PROVIDE A PROTECTIVE COATING.
 4. ALL FRAMES AND COVERS SHALL BE GRAY CAST IRON, FREE FROM WARPS, CRACKS, HOLES, SWELLS AND COLD-SHOT, AND SHALL HAVE A WORKMANLIKE FINISH. HIGHWAY LOADING SHOULD BE HS 20-44.
 5. CASTING SHALL CONFORM TO THE PROVISIONS OF THE SPECIFICATIONS FOR GRAY-IRON CASTINGS, SERIAL DESIGNATION ASTM A-48 (LATEST REVISION), CLASS NO. 30B.
 6. THE NAME OF THE MANUFACTURING COMPANY SHALL BE ON THE UNDERSIDE OF THE COVER.
 7. ASSEMBLY SHALL BE DESIGNED FOR HIGHWAY LOADING OF HS 20-44.
 8. 2.0"x1.0" DIAMOND MAT 0.125" DEEP.



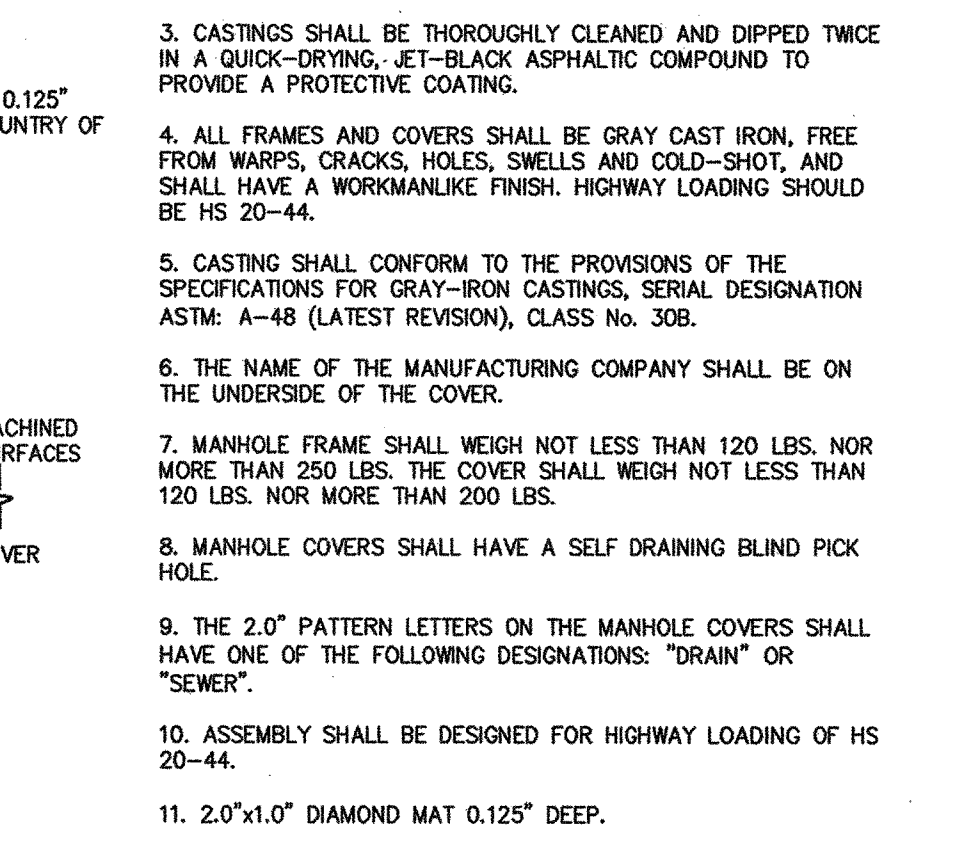
- MANHOLE NOTES:**
1. ALL WORK SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE SPECIFICATIONS ENTITLED "STANDARD SPECIFICATIONS, STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, APPROVED CURRENT EDITION.
 2. ALL UNLINED MANHOLE JOINTS SHALL BE FILLED WITH KENT SEAL OR APPROVED BLACK MASTIC EQUAL. INSIDE OF MANHOLES MUST BE MORTARED AND NEATLY RAKED OR WIPED ON INSIDE OF PIPE.
 3. PRE CAST REINFORCED MANHOLE SECTIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF ASTM C-478, CURRENT EDITION.
 4. ALL SEWER MANHOLES, FOR SEWER LINES LARGER THAN 18" IN DIAMETER, SHALL BE LINED WITH "T-LOCK" OR APPROVED EQUAL.
 5. CONCRETE PAD SHALL BE CURED WITH A WHITE PIGMENTED CURING COMPOUND AS PER SECTION 90-7.01B OF THE STANDARD SPECIFICATIONS.
 6. ALL CHANNELS SHALL BE SMOOTH FINISHED WITH STEEL TROWEL. SHELF SHALL BE BROOM FINISHED FOR SLIP RESISTANCE.



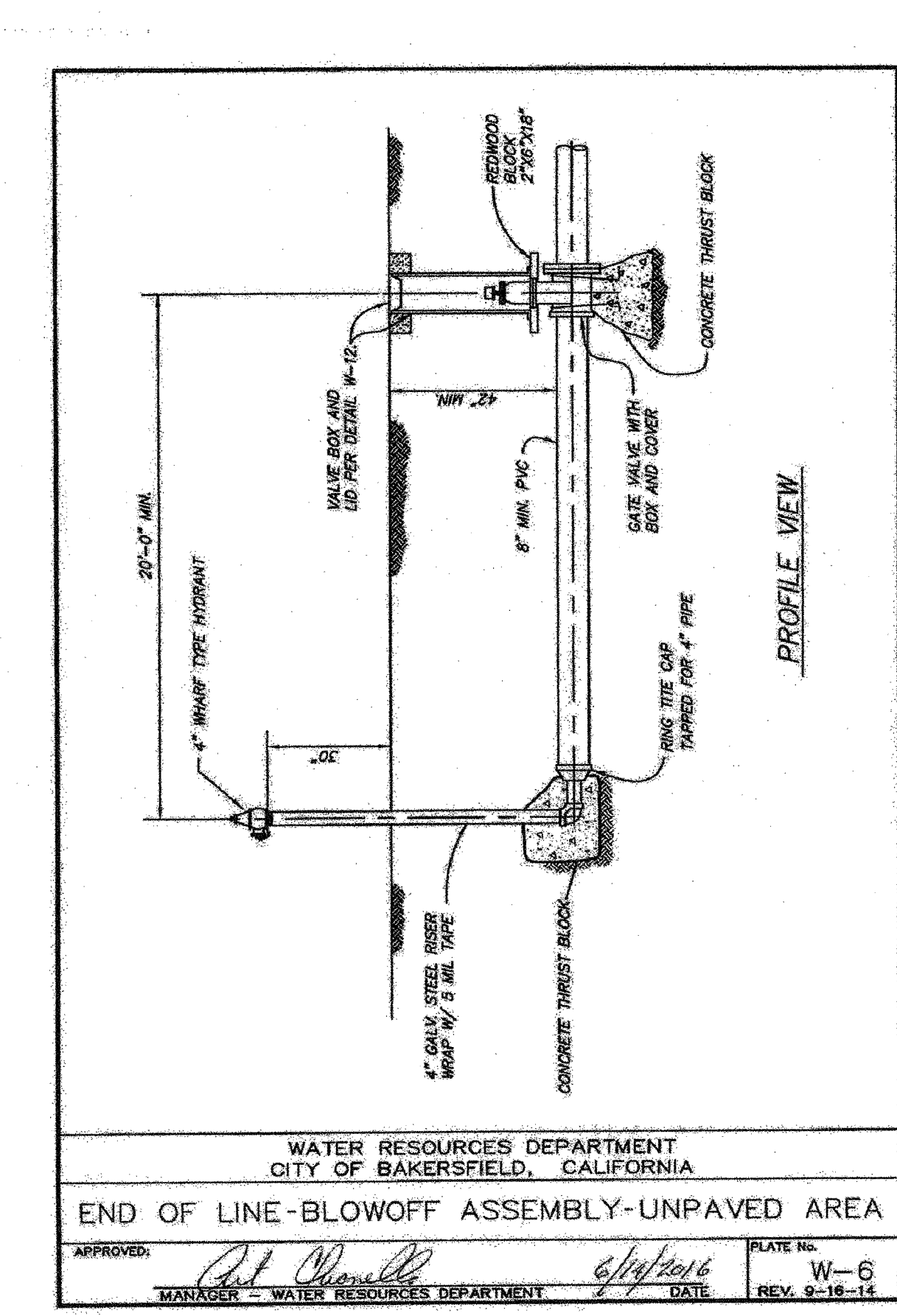
B SEWER/STORM DRAIN MANHOLE DETAIL
7.03 N.T.S.



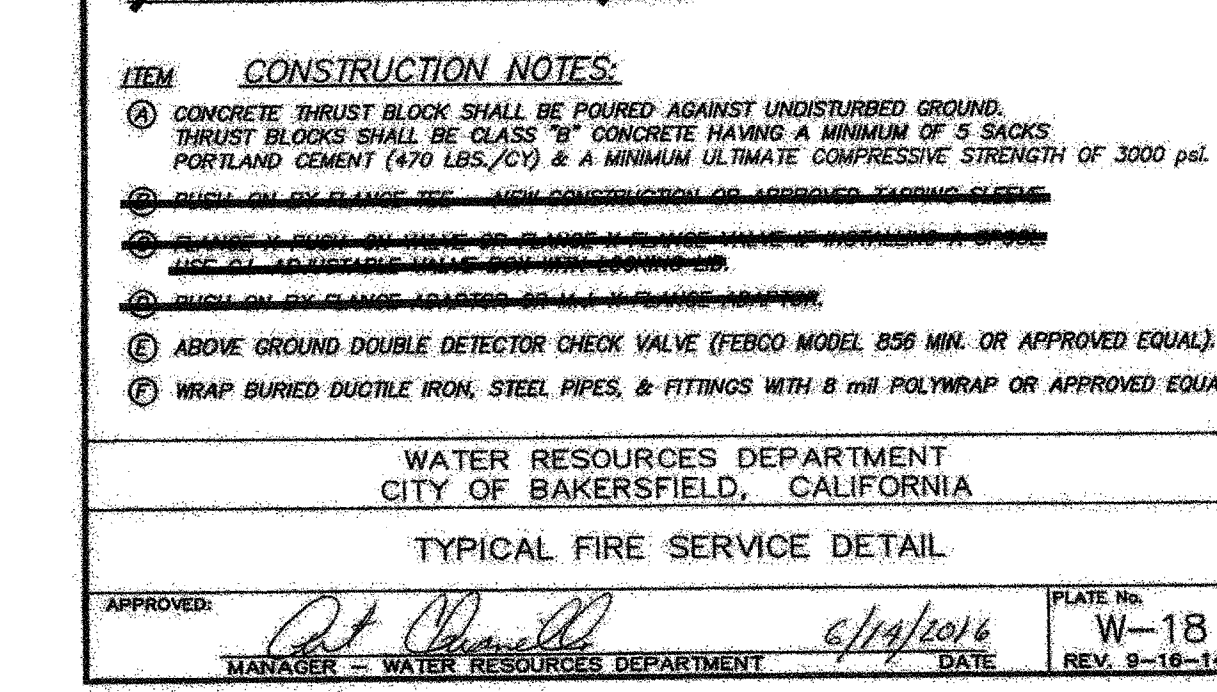
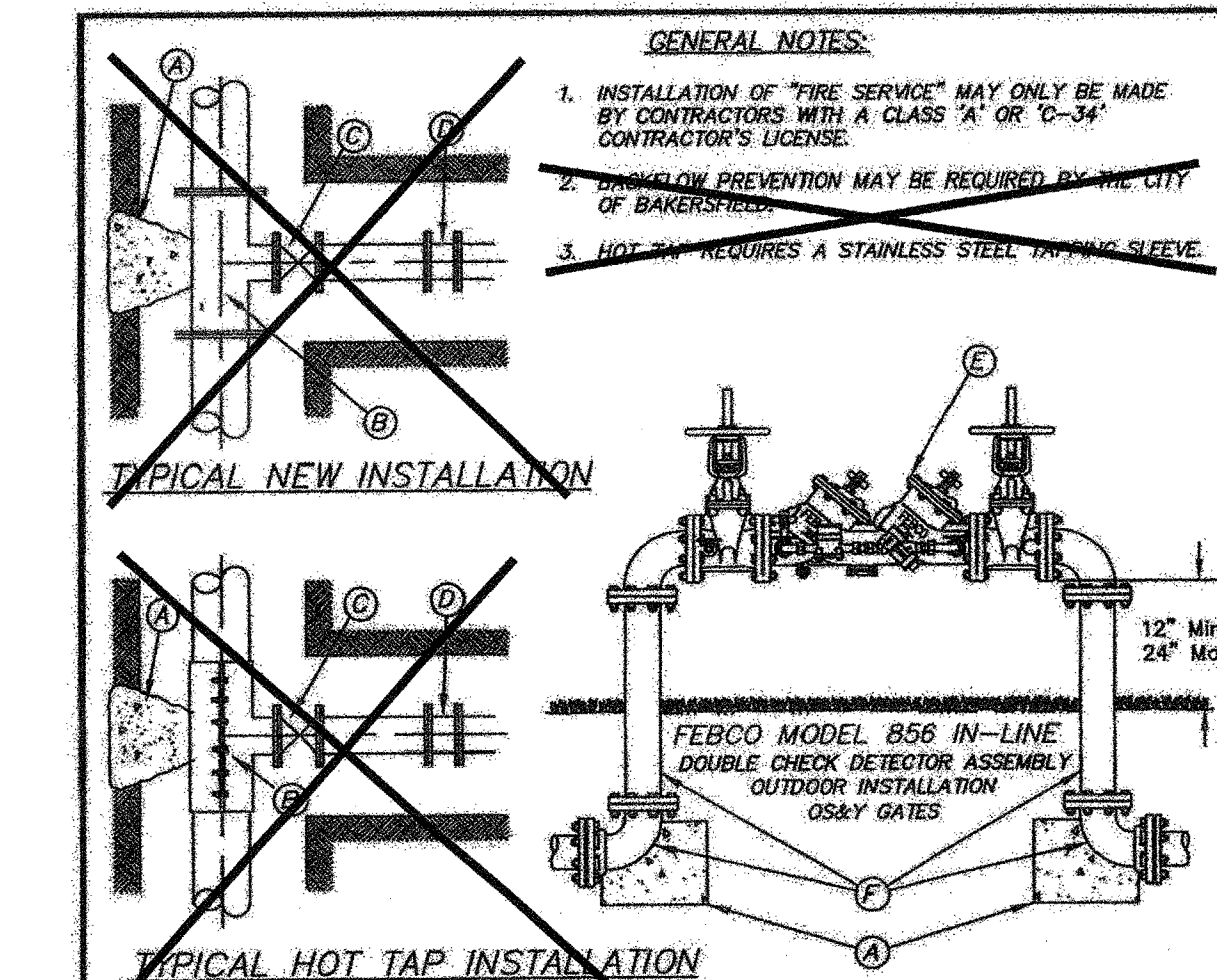
- MANHOLE COVER NOTES:**
1. ALL FRAMES AND COVERS SHALL BE TESTED FOR ACCURACY OF FIT AND SHALL BE MARKED IN SETS PRIOR TO DELIVERY.
 2. THE SEATS OF FRAMES AND BEARING FACES OF THE COVERS SHALL BE MACHINED FOR A SMOOTH NON-ROCKING FIT BETWEEN THE TWO CASTINGS.
 3. CASTINGS SHALL BE THOROUGHLY CLEANED AND DIPPED TWICE IN A QUICK-DRYING, JET-BLACK ASPHALTIC COMPOUND TO PROVIDE A PROTECTIVE COATING.
 4. ALL FRAMES AND COVERS SHALL BE GRAY CAST IRON, FREE FROM WARPS, CRACKS, HOLES, SWELLS AND COLD-SHOT, AND SHALL HAVE A WORKMANLIKE FINISH. HIGHWAY LOADING SHOULD BE HS 20-44.
 5. CASTING SHALL CONFORM TO THE PROVISIONS OF THE SPECIFICATIONS FOR GRAY-IRON CASTINGS, SERIAL DESIGNATION ASTM A-48 (LATEST REVISION), CLASS NO. 30B.
 6. THE NAME OF THE MANUFACTURING COMPANY SHALL BE ON THE UNDERSIDE OF THE COVER.
 7. MANHOLE FRAME SHALL WEIGH NOT LESS THAN 120 LBS. NOR MORE THAN 250 LBS. THE COVER SHALL WEIGH NOT LESS THAN 120 LBS. NOR MORE THAN 200 LBS.
 8. MANHOLE COVERS SHALL HAVE A SELF DRAINING BLIND PICK HOLE.
 9. THE 2.0" PATTERN LETTERS ON THE MANHOLE COVERS SHALL HAVE ONE OF THE FOLLOWING DESIGNATIONS: "DRAIN" OR "SEWER".
 10. ASSEMBLY SHALL BE DESIGNED FOR HIGHWAY LOADING OF HS 20-44.
 11. 2.0"x1.0" DIAMOND MAT 0.125" DEEP.



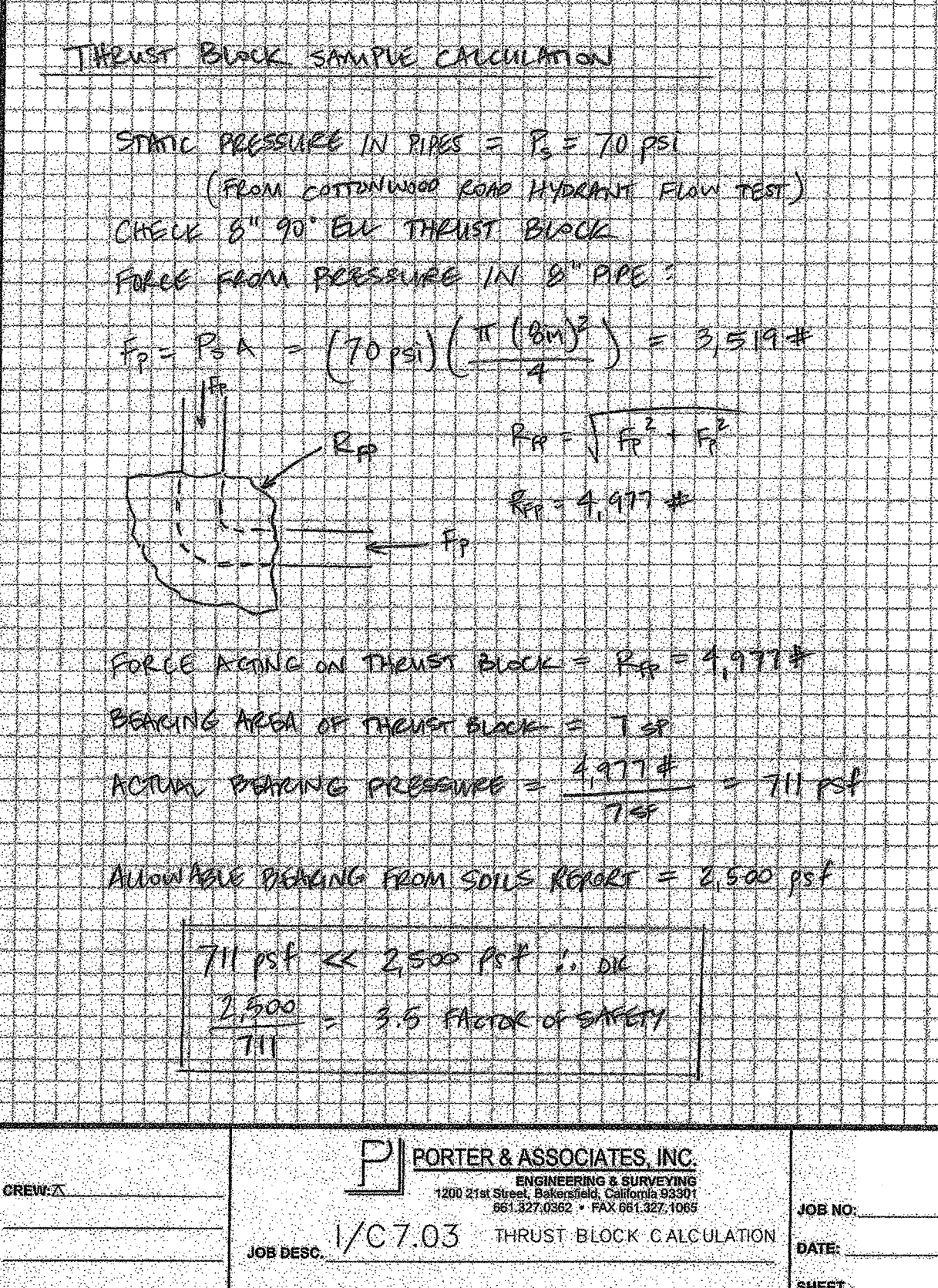
C SEWER MANHOLE DETAIL WITH DROP CONNECTION
7.03 N.T.S.



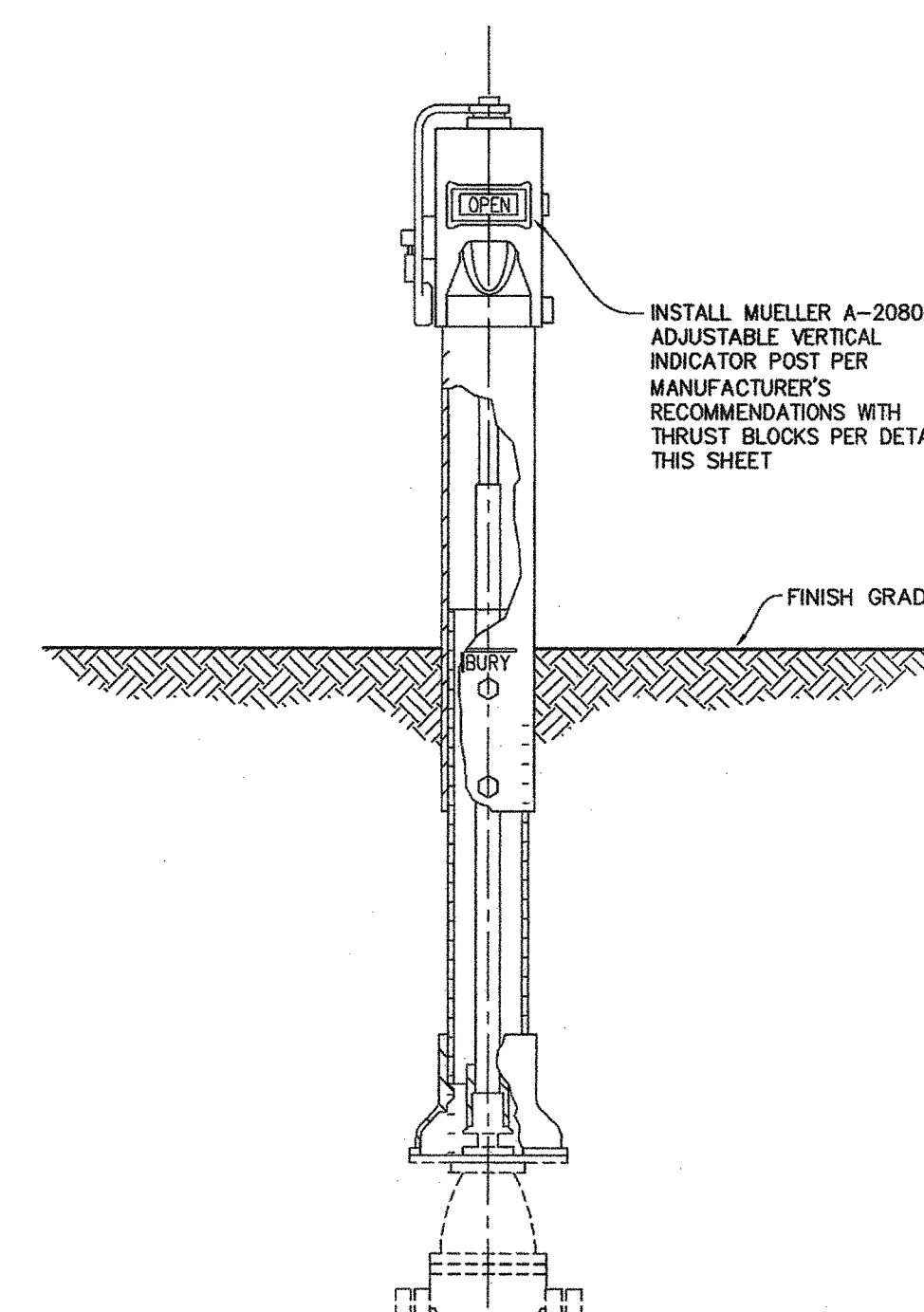
WATER RESOURCES DEPARTMENT
CITY OF BAKERSFIELD, CALIFORNIA
END OF LINE-BLOWOFF ASSEMBLY-UNPAVED AREA
APPROVED: [Signature] DATE: 6/14/2018
DRAWN: WATER RESOURCES DEPARTMENT



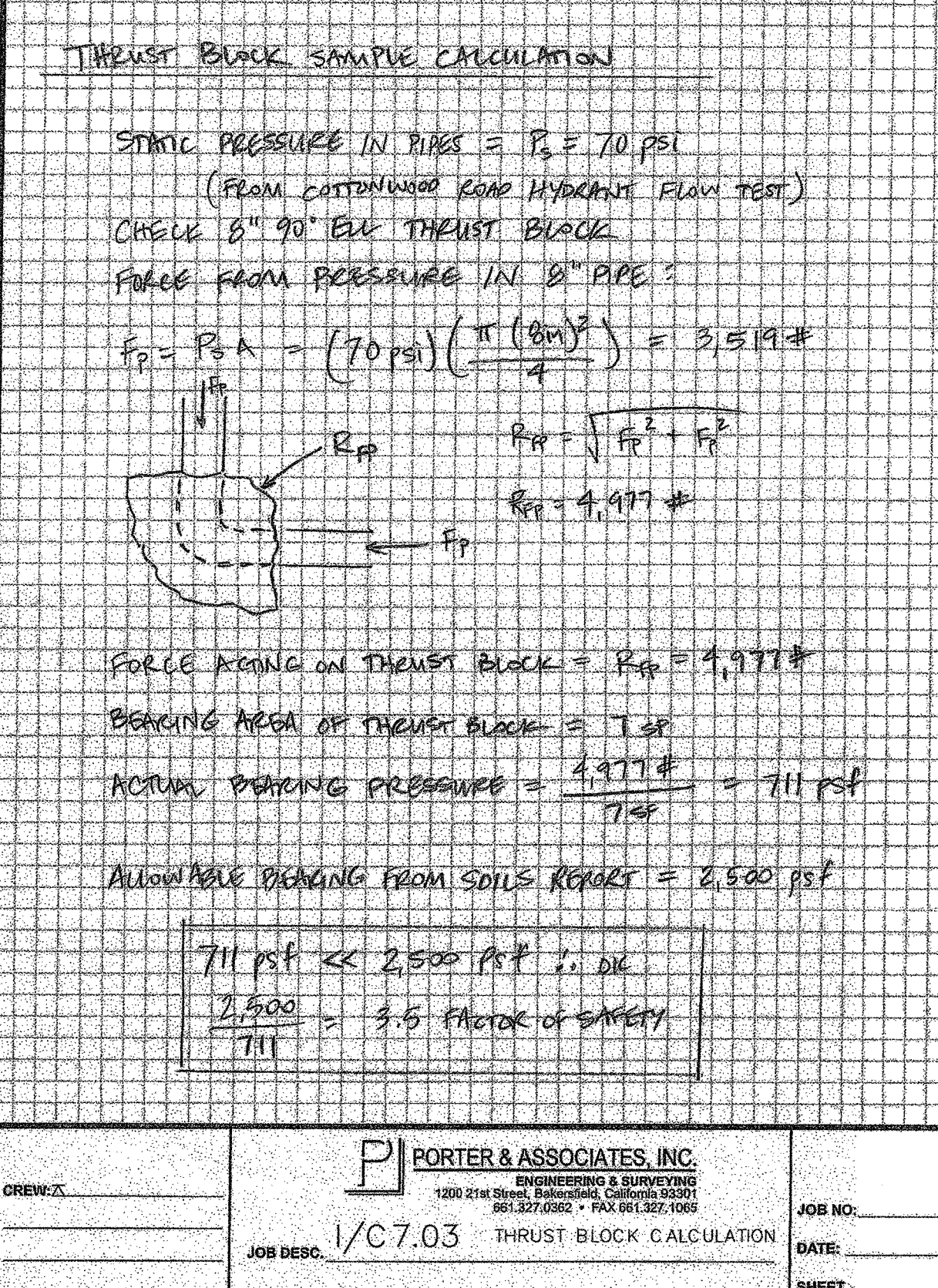
TYPICAL FIRE SERVICE DETAIL
APPROVED: [Signature] DATE: 6/14/2018
DRAWN: WATER RESOURCES DEPARTMENT



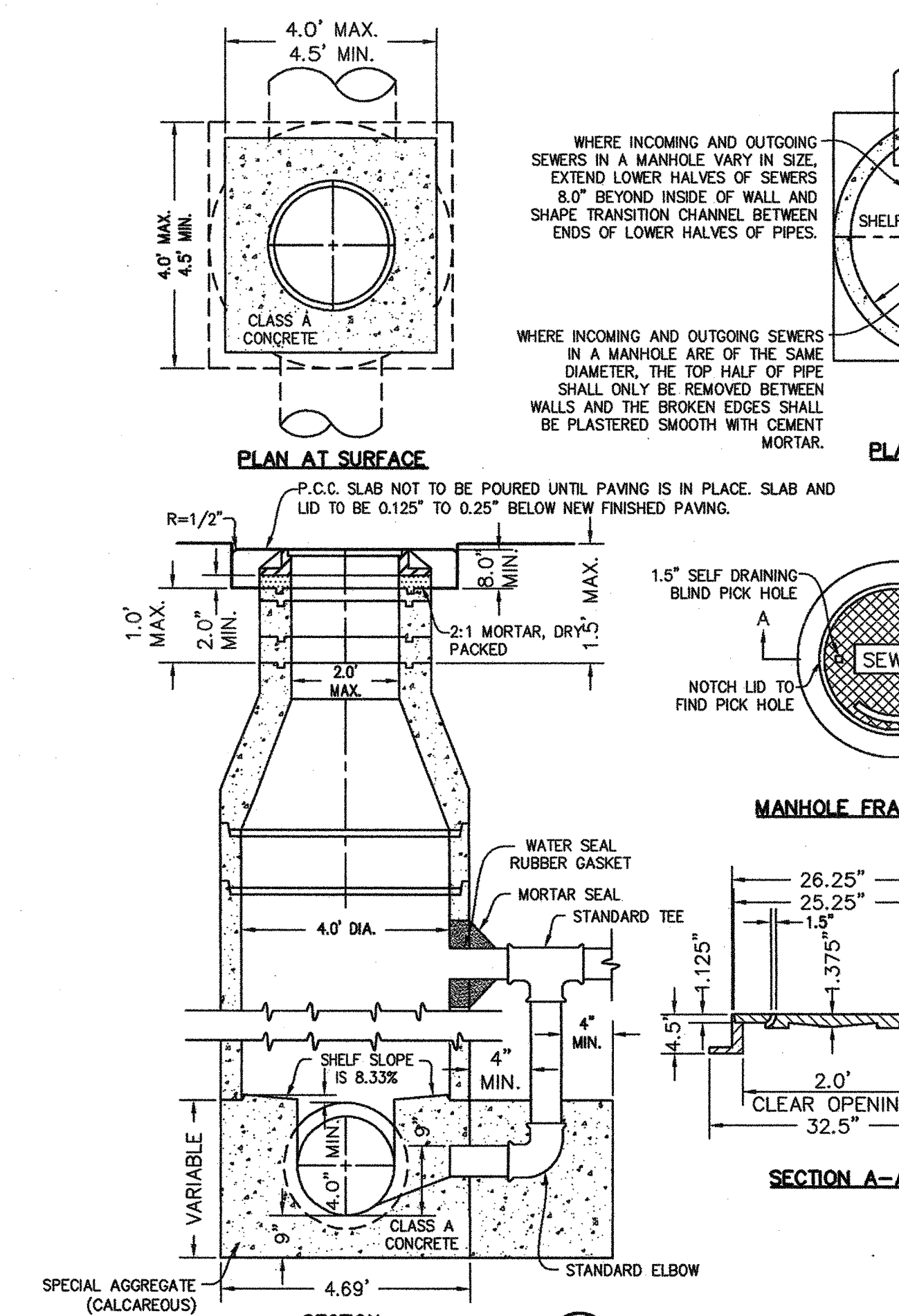
D TYPICAL THRUST BLOCK DETAILS
7.03 N.T.S.



E SOV IN YARDBOX DETAIL
7.03 N.T.S.

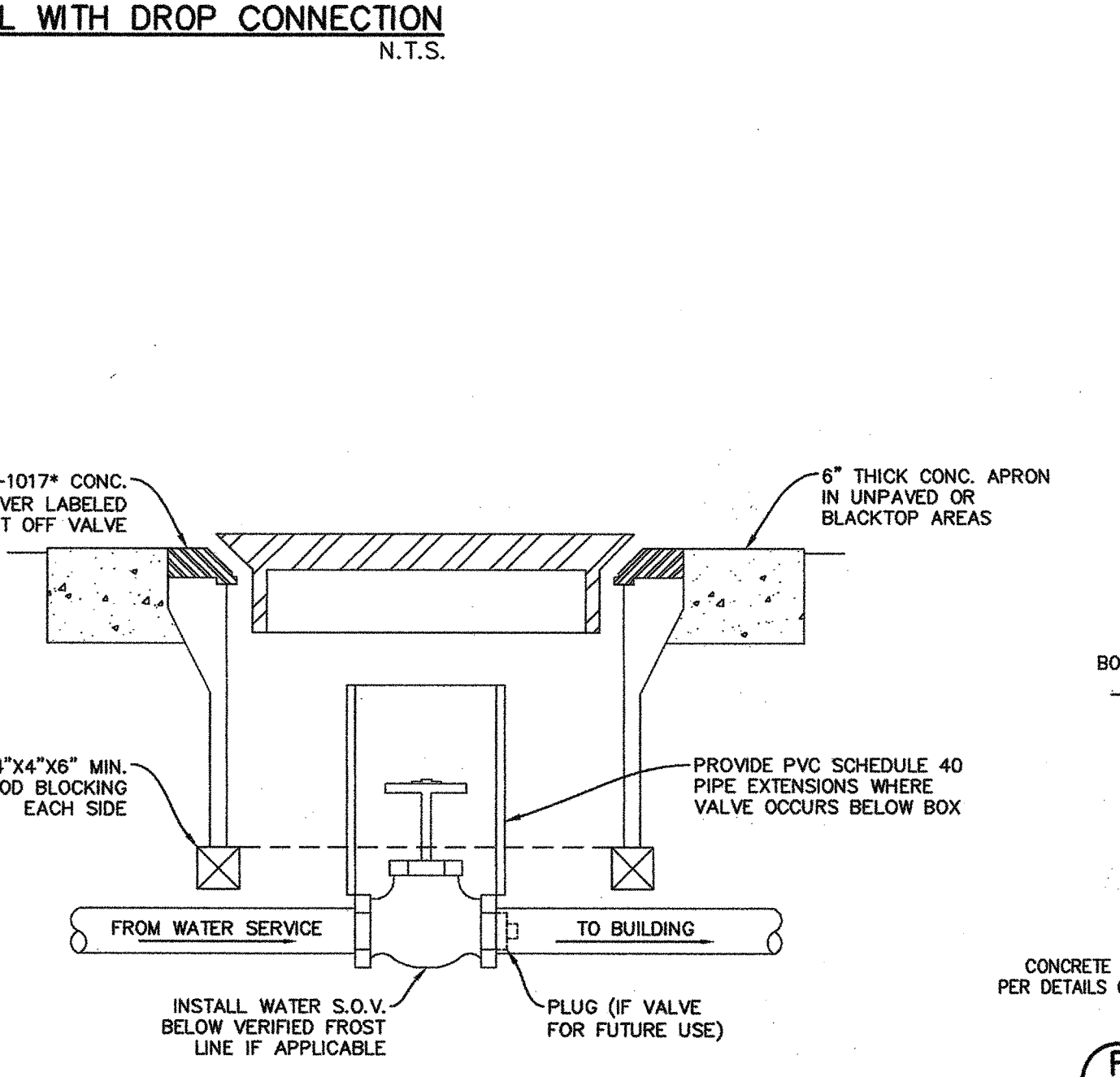
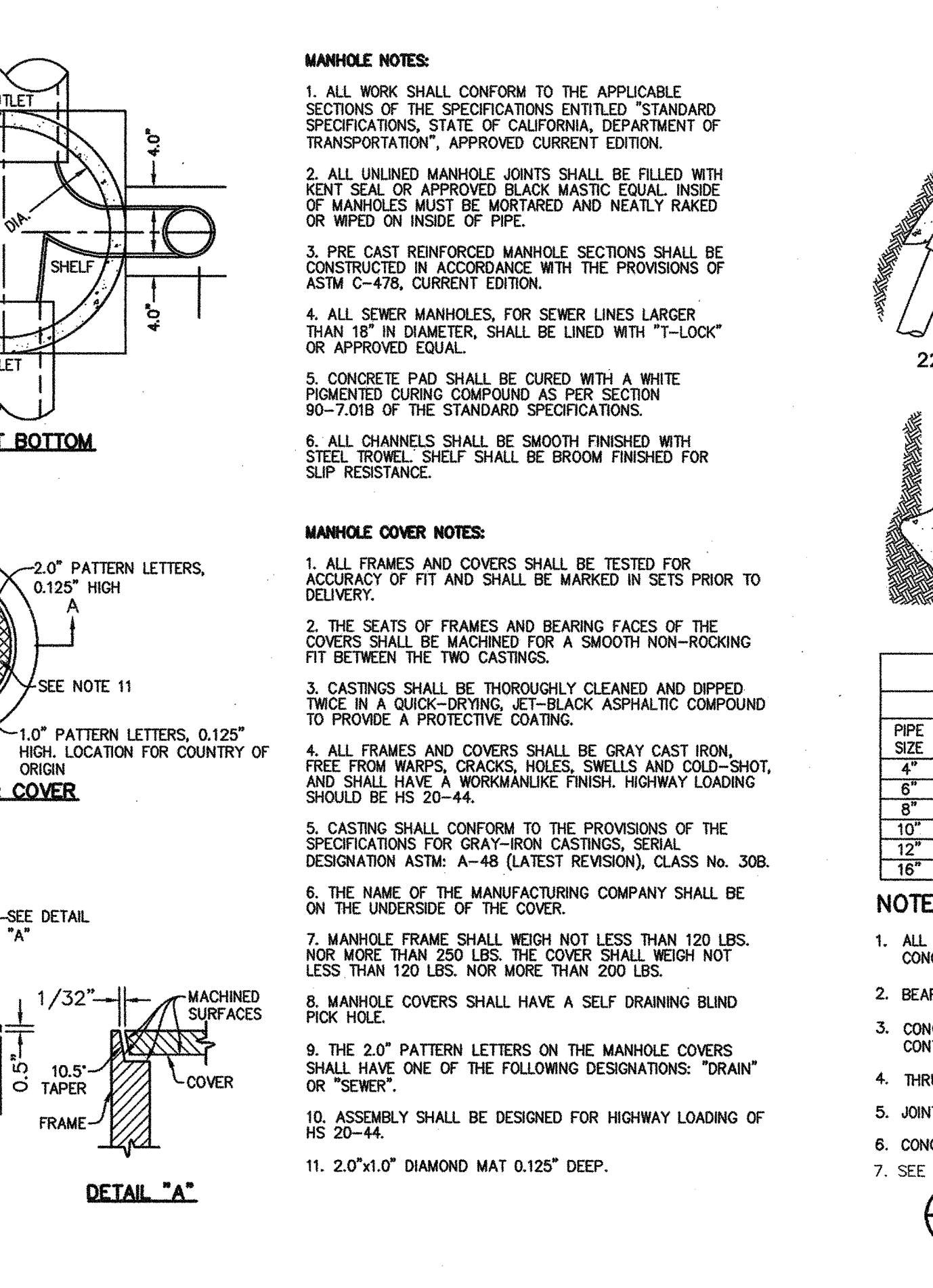


F ON-SITE FIRE HYDRANT DETAIL
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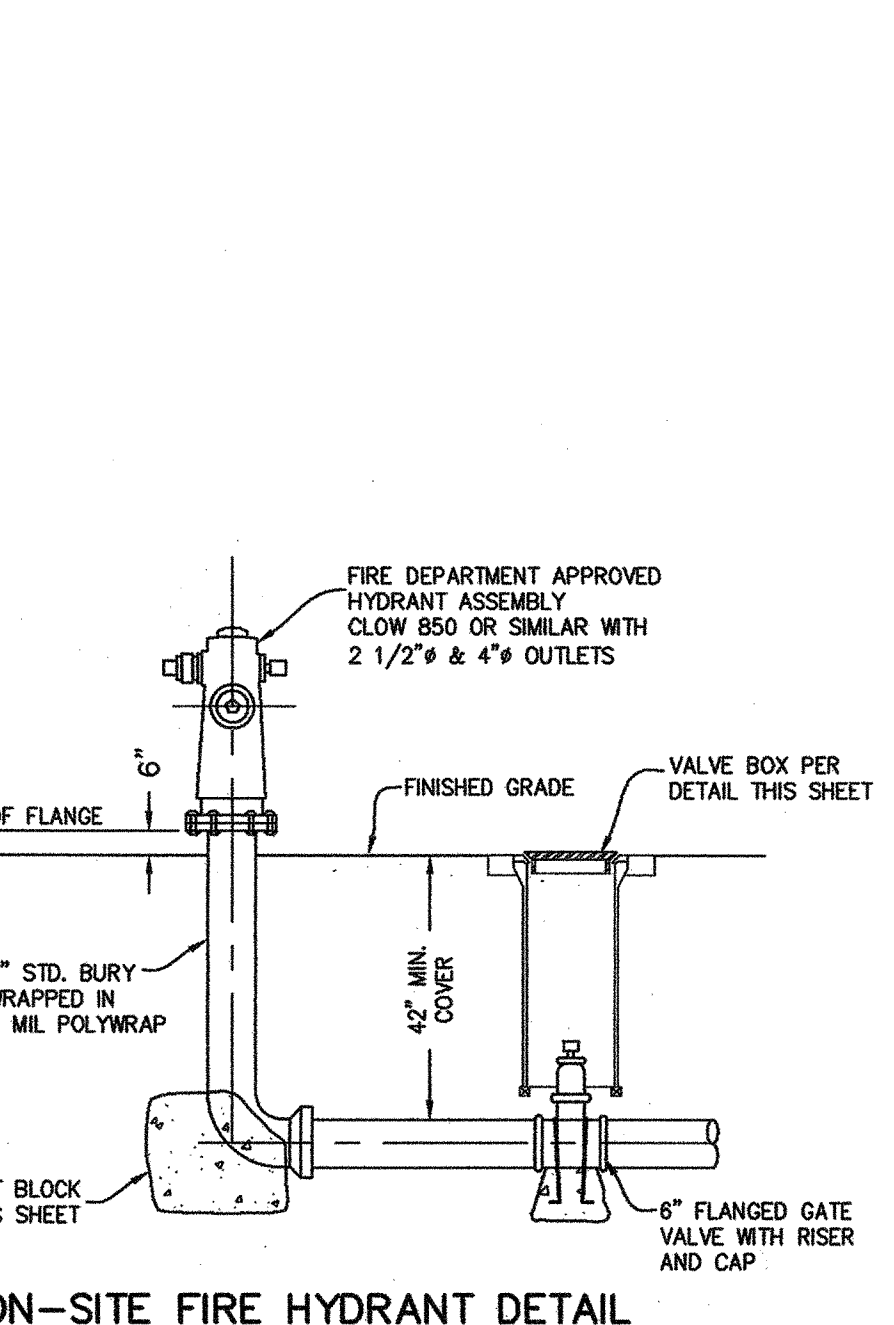
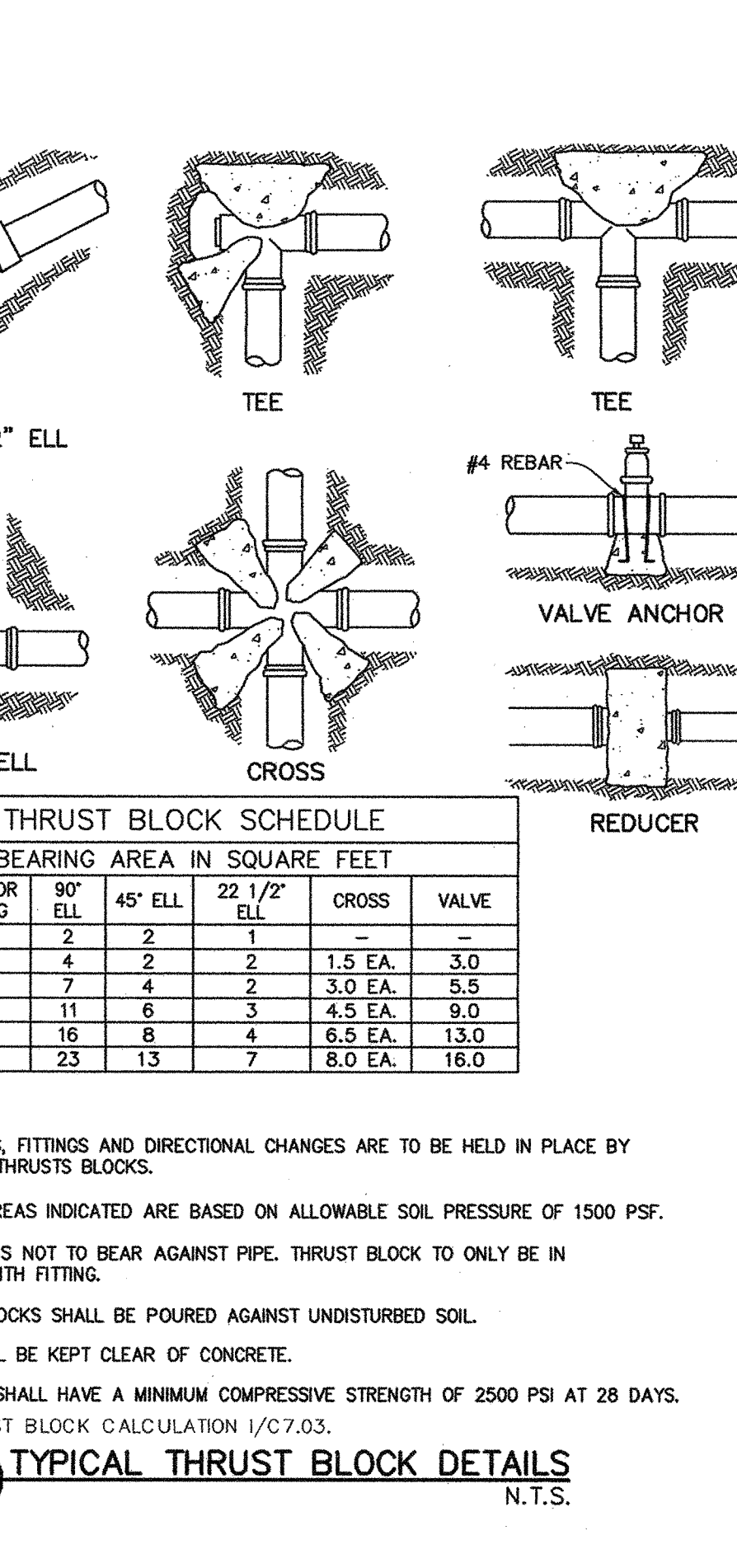


- TRENCH DIMENSIONS**
- | PIPE SIZE | W | MC |
|-----------|-----|-----|
| 4" | 22" | 30" |
| 6" | 24" | 30" |
| 8" | 30" | 30" |
| 10", 12" | 36" | 36" |
- NOTE:** EMBEDMENT MATERIALS SHALL BE CLASS I OR II PER A.S.T.M. D2321 MAX SIZE=1"

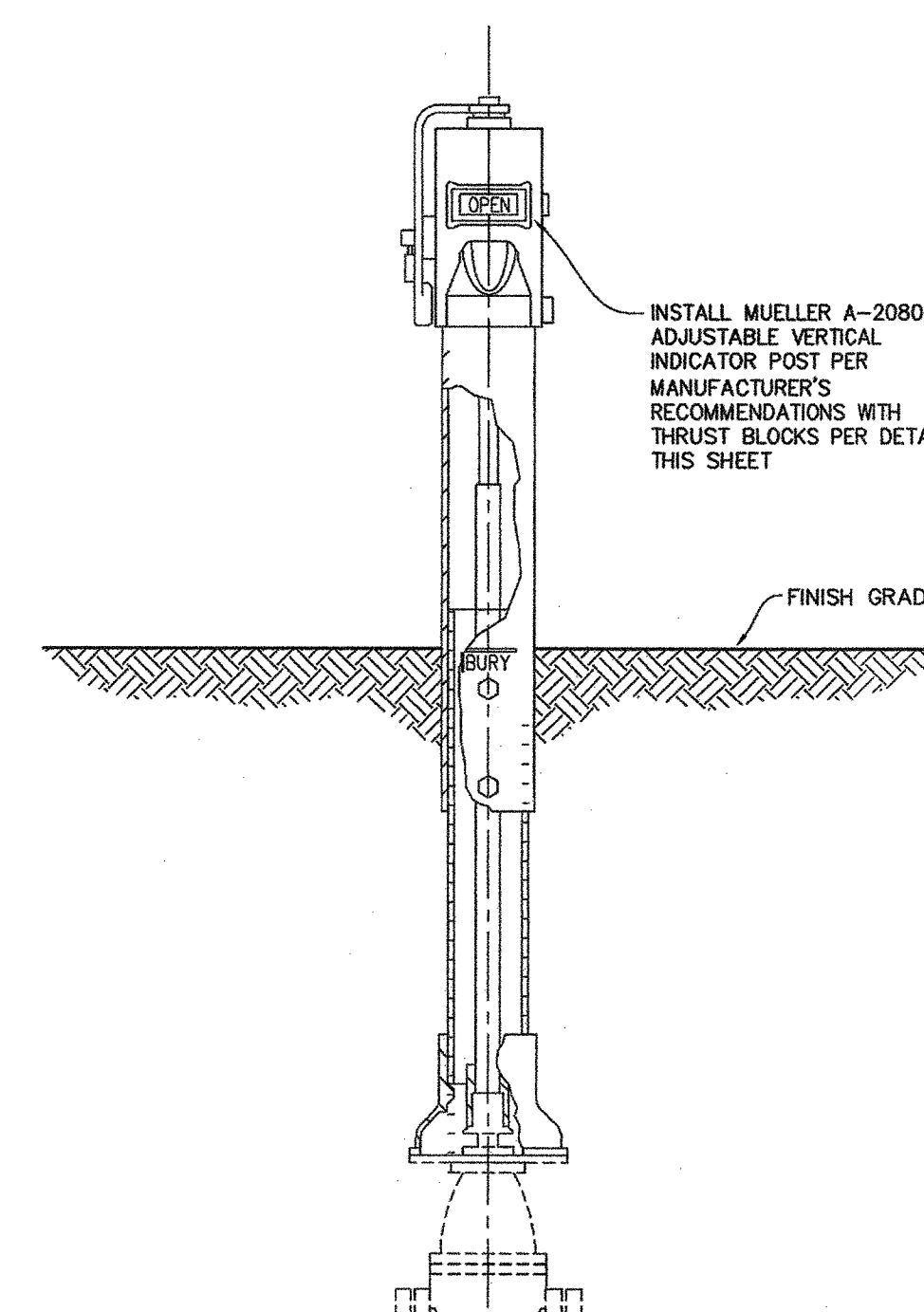
G TYPICAL PVC PIPE TRENCH SECTION
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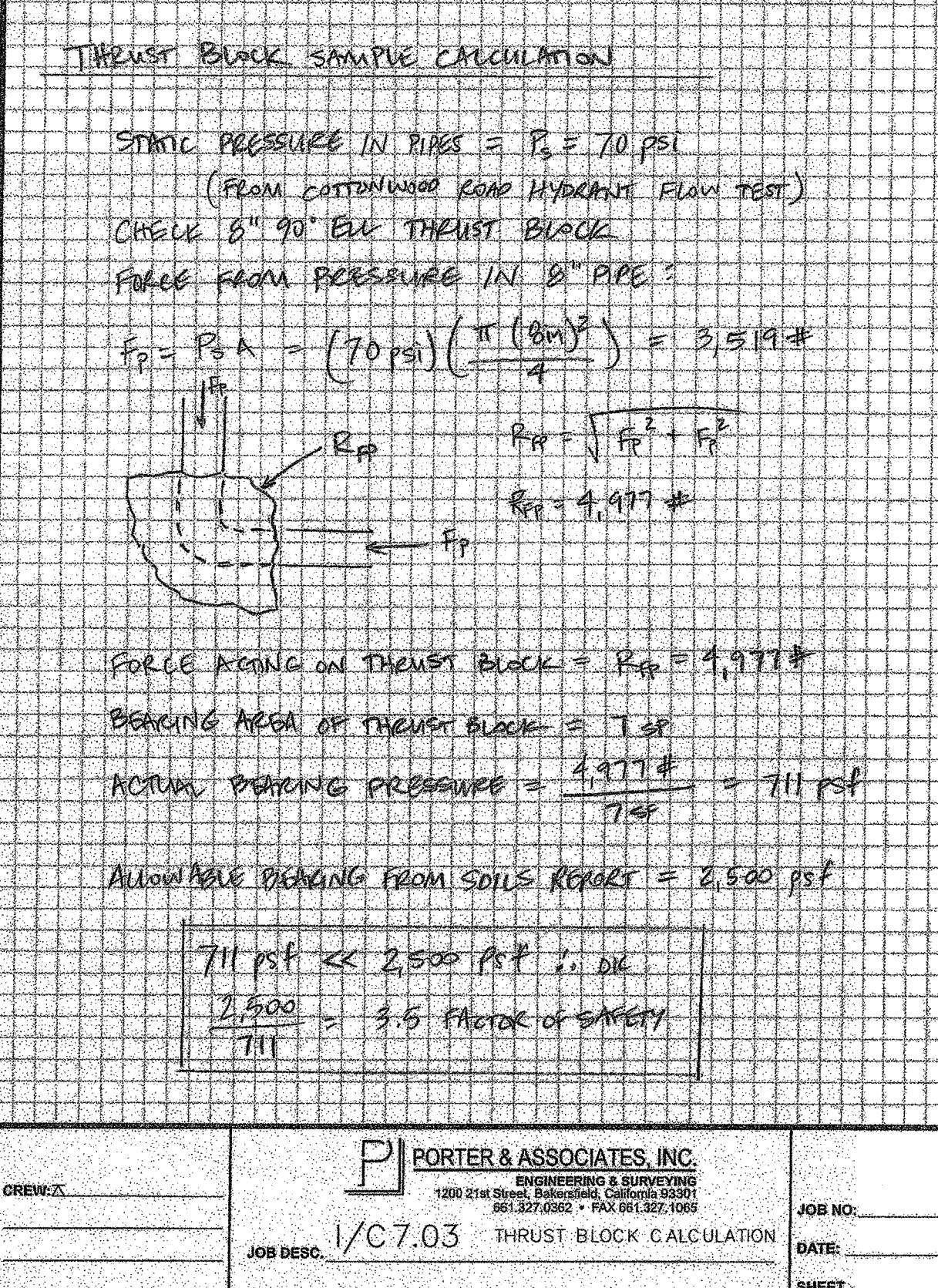
H POST INDICATOR VALVE ASSEMBLY DETAIL
7.03 N.T.S.



I TYPICAL THRUST BLOCK SCHEDULE
7.03 N.T.S.



J TYPICAL THRUST BLOCK SCHEDULE
7.03 N.T.S.



K TYPICAL THRUST BLOCK SCHEDULE
7.03 N.T.S.

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0011 N. Fresno, Suite 110 • Fresno, California 93710
Phone (569) 435-0881 Fax (569) 435-0881 E-Mail: design@integrateddesigns.com
www.integrateddesigns.com

SEWER AND WATER PLANS
GENERAL NOTES - DETAILS
NEW ELEMENTARY SCHOOL 2
INCREMNT 1
BAKERSFIELD CITY SCHOOL DISTRICT
@ CITADEL STREET & MARDI GRAS COURT

Issue Date: XXXX
Date: 7/31/2018
Design: [Signature]
DRC: [Signature]
PC: XXX

Agency Approval Stamp:
FILE # 15-6
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
03-118394
AC: PLS. SIGN OFF
DATE: 08-22-18
TRACKING #: 63321-300

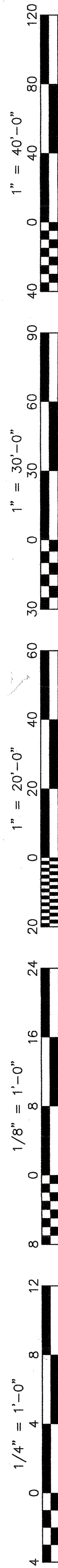
Stamp:
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA
RCE 74059
CIVIL
No. C 28986

Job No.: **5262**
Sheet No.: **C7.03**

Porter & Associates, Inc.
1200 21st Street, Bakersfield, California 93301
661.837.0852 FAX 661.837.1865

JOB DESC: 1/C7.03 THRUST BLOCK CALCULATION
JOB NO.:
DATE:
SHEET: of

J:\3014A\Improvements\Sewer-Water Plans\3014A-sw-wr_Plan.dwg MATTHEW CARSON



GENERAL NOTES

- ALL CONSTRUCTION SHALL CONFORM TO THIS PLAN, THE CALIFORNIA BUILDING CODE, CITY OF BAKERSFIELD ORDINANCE, LATEST EDITION AND STANDARDS PERTAINING THERETO. THESE DOCUMENTS SHALL BE MADE A PART HEREOF.
- ALL CONSTRUCTION WITHIN THE CITY RIGHT-OF-WAY OR CITY EASEMENTS SHALL BE IN ACCORDANCE WITH CITY OF BAKERSFIELD STANDARDS AND STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2010. THESE STANDARDS, DRAWINGS AND DETAILS SHALL BE CONSIDERED A PART OF THESE PLANS AND THE CONTRACTOR SHALL OBTAIN A COPY FOR HIS USE.
- THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS BEFORE START OF CONSTRUCTION. AN OPEN STREET PERMIT SHALL BE OBTAINED FROM THE CITY OF BAKERSFIELD PUBLIC WORKS DEPARTMENT FOR ANY WORK TO BE PERFORMED IN THE EXISTING, ACCEPTED STREET RIGHT-OF-WAY, UNLESS SECURED BY AN IMPROVEMENT AGREEMENT, APPROVED INSURANCE AND SECURITY BASED ON AN APPROVED ENGINEER'S ESTIMATE FOR THE WORK PERFORMED WITHIN THE STREET RIGHT-OF-WAY SHALL BE POSTED PRIOR TO ISSUANCE OF A PERMIT.
- 24 HOUR NOTICE, PRIOR TO THE START OF ANY PHASE OF CONSTRUCTION, THE CITY CONSTRUCTION INSPECTION SECTION SHALL BE GIVEN AT LEAST 24 HOURS NOTICE. THE SECTION MAY BE NOTIFIED AT (661) 326-3049.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING DIMENSIONS, DATA AND MEASUREMENTS AT THE BUILDING SITE PRIOR TO CONSTRUCTION. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. PORTER & ASSOCIATES, INC. MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.
- EXISTING UTILITY AND UNDERGROUND LINES HAVE BEEN SHOWN ON THIS PLAN ACCORDING TO AVAILABLE RECORDS. THE ENGINEER IS NOT RESPONSIBLE FOR POSSIBLE ERRORS OR OMISSIONS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING OF ANY WORK. UNDERGROUND SERVICE ALERT (U.S.A. 1-800-485-2500) SHALL BE CONTACTED AT LEAST TWO WORKING DAYS PRIOR TO ANY CONSTRUCTION OR EXCAVATION.
- ANY EXISTING IMPROVEMENTS OR UTILITIES THAT ARE REMOVED, DAMAGED OR UNDERCUT BY CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE, AS DIRECTED BY THE ENGINEER AND APPROVED BY THE GOVERNING AUTHORITY.
- IF A PROBLEM OR CONFLICT SHOULD ARISE DURING THE COURSE OF THE PROJECT, IT IS THE RESPONSIBILITY OF THE OWNER OR THE CONTRACTOR TO NOTIFY THE ENGINEER IMMEDIATELY PRIOR TO ANY FURTHER WORK.
- THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND SUPERVISION NECESSARY FOR A COMPLETE AND FUNCTIONAL PRODUCT.
- ALL WORK WHICH IS DEFECTIVE IN ITS CONSTRUCTION OR DEFICIENT IN ANY OF THE REQUIREMENTS OF THESE DRAWINGS AND SPECIFICATIONS SHALL BE REMEDIATED, OR REMOVED AND REPLACED BY THE CONTRACTOR IN AN ACCEPTABLE MANNER, AND NO COMPENSATION WILL BE ALLOWED FOR SUCH CORRECTION.
- IN THE EVENT CONSTRUCTION STAKING BASED ON THE CONSULTANT'S PLANS, DRAWINGS OR OTHER DOCUMENTS IS ACCOMPLISHED BY ANYONE OTHER THAN THE CONSULTANT, THE OWNER OR CONTRACTOR SHALL NOTIFY THE BUILDING OFFICIAL IN WRITING AS TO THE CHANGE OF ENGINEER IN RESPONSIBLE CHARGE.
- THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING EROSION, SEDIMENTATION & DUST CONTROL, PLAN AND STORM WATER POLLUTION PREVENTION PLAN IMPLEMENTATION AND THE SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
- IF THE CONTRACTOR IS IN DOUBT AS TO THE MEANING OF ANY PART OF THE DRAWINGS AND SPECIFICATIONS OR FINDS DISCREPANCIES IN OR OMISSIONS FROM THE DRAWINGS, HE SHALL SUBMIT A WRITTEN REQUEST FOR AN INTERPRETATION OR A CORRECTION THEREOF, PRIOR TO FILING HIS BID PRICE FOR THE PROJECT.
- PORTER & ASSOCIATES, INC. WILL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ANY AND ALL CHANGES TO THESE PLANS MUST BE APPROVED IN WRITING BY PORTER & ASSOCIATES, INC.
- NORMAL STAKING AND MARKING OF THE PROJECT WILL BE SUPPLIED ONLY ONCE. ALL RESTAKING OR REMARKING SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

MATERIALS

PURPOSE: THIS CHAPTER ESTABLISHES MINIMUM ACCEPTABLE STANDARDS AND CRITERIA FOR MATERIALS TO BE USED IN CONSTRUCTION OF PROPOSED IRRIGATION MAIN SYSTEM FOR KERN DELTA WATER DISTRICT.

QUALITY OF MATERIALS: ALL MATERIALS INCORPORATED INTO THE WORK SHALL BE NEW AND SHALL CONFORM TO THESE STANDARDS AND SPECIFICATIONS. NO MATERIAL SHALL BE INCORPORATED INTO THE WORK UNTIL IT HAS BEEN APPROVED BY THE DISTRICT. ANY REJECTED MATERIAL SHALL BE IMMEDIATELY REMOVED FROM THE SITE.

CERTIFICATE OF COMPLIANCE: A CERTIFICATE OF COMPLIANCE SHALL BE FURNISHED PRIOR TO THE USE OF ANY MATERIALS OR EQUIPMENT. THE CERTIFICATE SHALL BE SIGNED BY THE MANUFACTURER OF THE MATERIALS OR EQUIPMENT. A CERTIFICATE OF COMPLIANCE SHALL BE FURNISHED WITH EACH LOT OF MATERIAL DELIVERED TO THE WORK AND THE LOT SO CERTIFIED SHALL BE CLEARLY IDENTIFIED IN THE CERTIFICATE.

POLYVINYL CHLORIDE PIPE (PVC): PVC PIPE SHALL BE MANUFACTURED FOR USE IN WATER SYSTEMS AND SHALL BE DESIGNATED AS CLASS 150 (DR18) OR CLASS 200 (DR14), AND SHALL COMPLY WITH SPECIFICATIONS FOR AWWA C905 FOR PIPE 14" TO 36" IN DIAMETER. OUTSIDE DIAMETER OF PVC PIPE SHALL BE EQUIVALENT TO CAST-IRON PIPE.

PVC JOINTS: PVC PIPE SHALL HAVE ELASTOMERIC GASKET JOINTS, EITHER GASKET BELL OR SPIGOT TYPE OR FLAN END WITH GASKET COUPLING TYPE.

FITTINGS: SPECIALS AND FITTINGS SHALL BE DUCTILE-IRON CONFORMING TO AWWA SPECIFICATION C100, CLASS D, EXCEPT THAT FITTING SHALL HAVE ALL BELL CONNECTIONS OF STANDARD AWWA DIMENSIONS OR SPECIAL DIMENSIONS AS REQUIRED, OR FITTINGS SHALL BE EQUIPPED WITH ADAPTERS OF THE PROPERTY CLASS FOR THE SIZE OF PIPE, AS RECOMMENDED BY THE PIPE MANUFACTURER, OR EQUAL. PROTECTIVE COATING SHALL BE IN ACCORDANCE WITH SECTION 5.15 OF THESE SPECIFICATIONS AND AWWA C105/A21.5.

JOINT DEFLECTION: LONGITUDINAL JOINT PIPE DEFLECTION SHALL NOT EXCEED 2 DEGREES OR THE PIPE MANUFACTURER'S RECOMMENDATIONS, WHICHEVER IS MORE RESTRICTIVE.

THRUST DEVICES: CONCRETE THRUST BLOCKS SHALL BE INSTALLED ON ALL PLUGS, CAPS, FITTINGS, AND ALL BENDS OR MORE THAN 5 DEGREES DEFLECTION IN ANY PLANE. THRUST BLOCKS FOR ALL TYPICAL SITUATIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD DETAILS.

BENCHMARK USED:

TOP OF CONCRETE MONUMENT IN LAMPHOLE AT THE EAST QUARTER CORNER OF SECTION 5, 30/28 M.D.M. LYING 29.45' SOUTH OF THE CENTERLINE INTERSECTION OF EAST BELLE TERRACE AND COTTONWOOD ROAD.

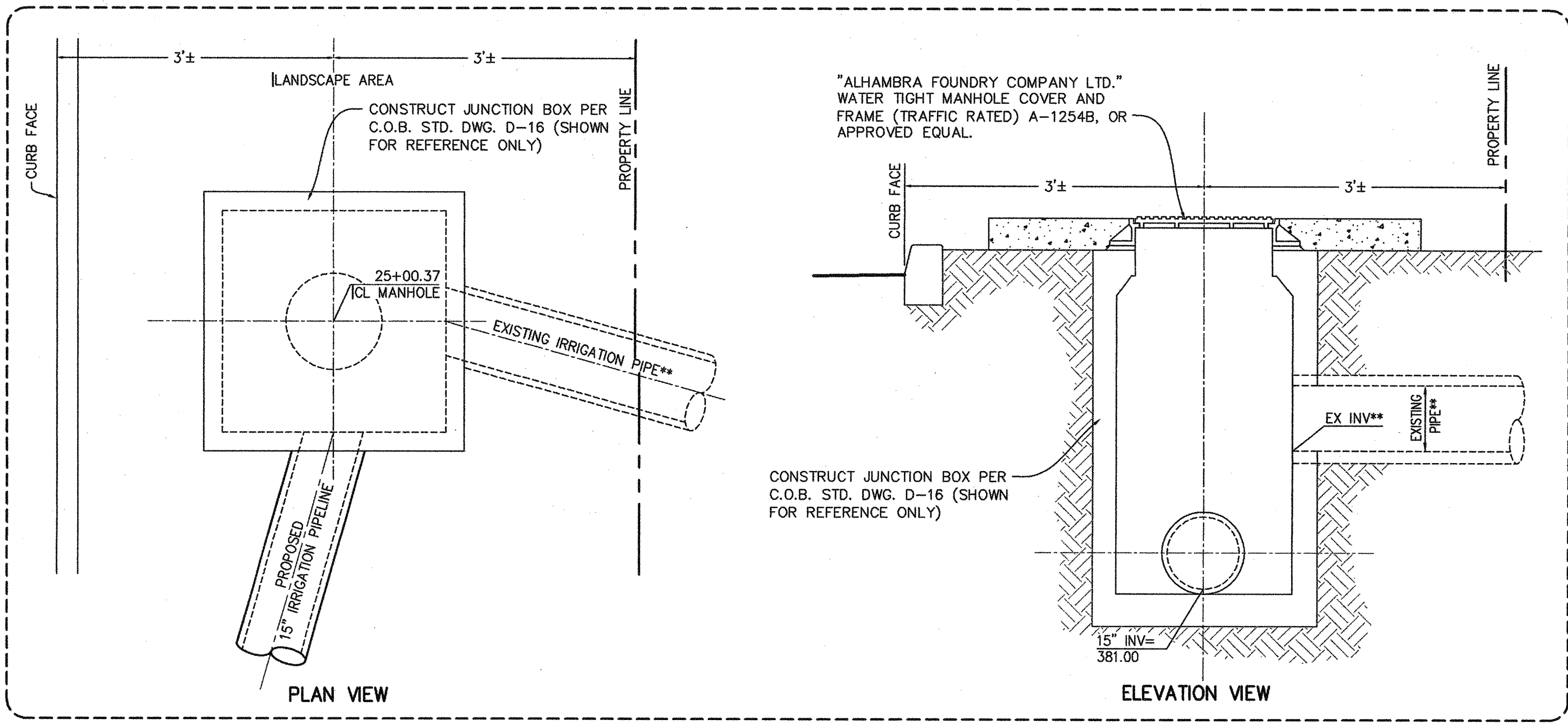
ELEVATION = 385.41 (USGS DATUM) PER TRACT 6378 PLANS

BASIS OF BEARINGS:

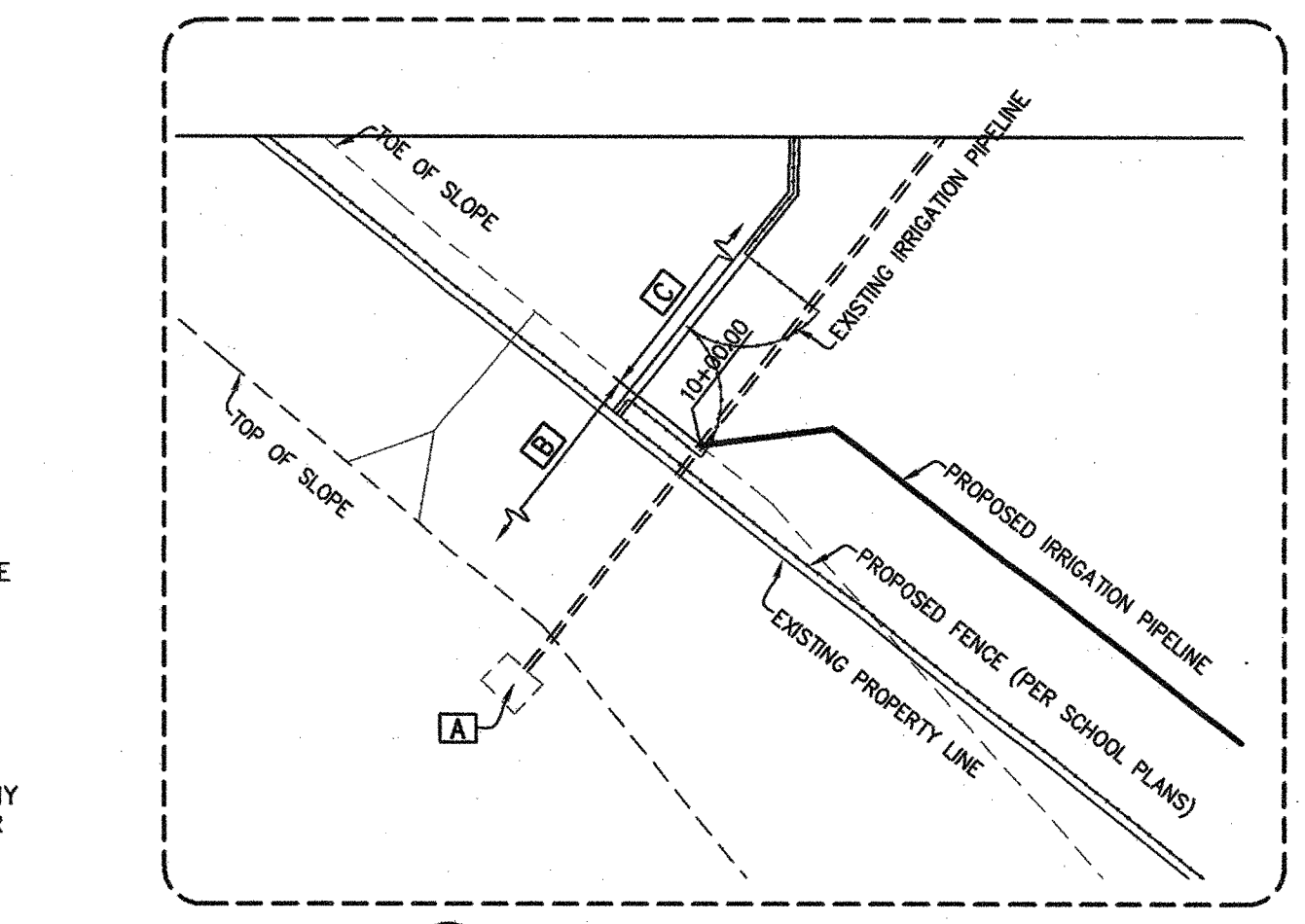
THE BEARING OF NORTH 89°41'23" EAST FOR THE NORTH LINE OF THE SOUTHEAST QUARTER OF SECTION 5, T. 30 S., R. 28 E., M.D.B. & M. (ALSO BEING THE CENTERLINE OF EAST BELLE TERRACE) PER RECORD OF SURVEY NO. 3546 FILED IN BOOK 30 OF RECORD OF SURVEYS AT PAGE 100 IN THE OFFICE OF THE KERN COUNTY RECORDER'S OFFICE WAS USED AS THE BASIS OF BEARINGS SHOWN UPON THIS MAP.

LEGAL DESCRIPTION:

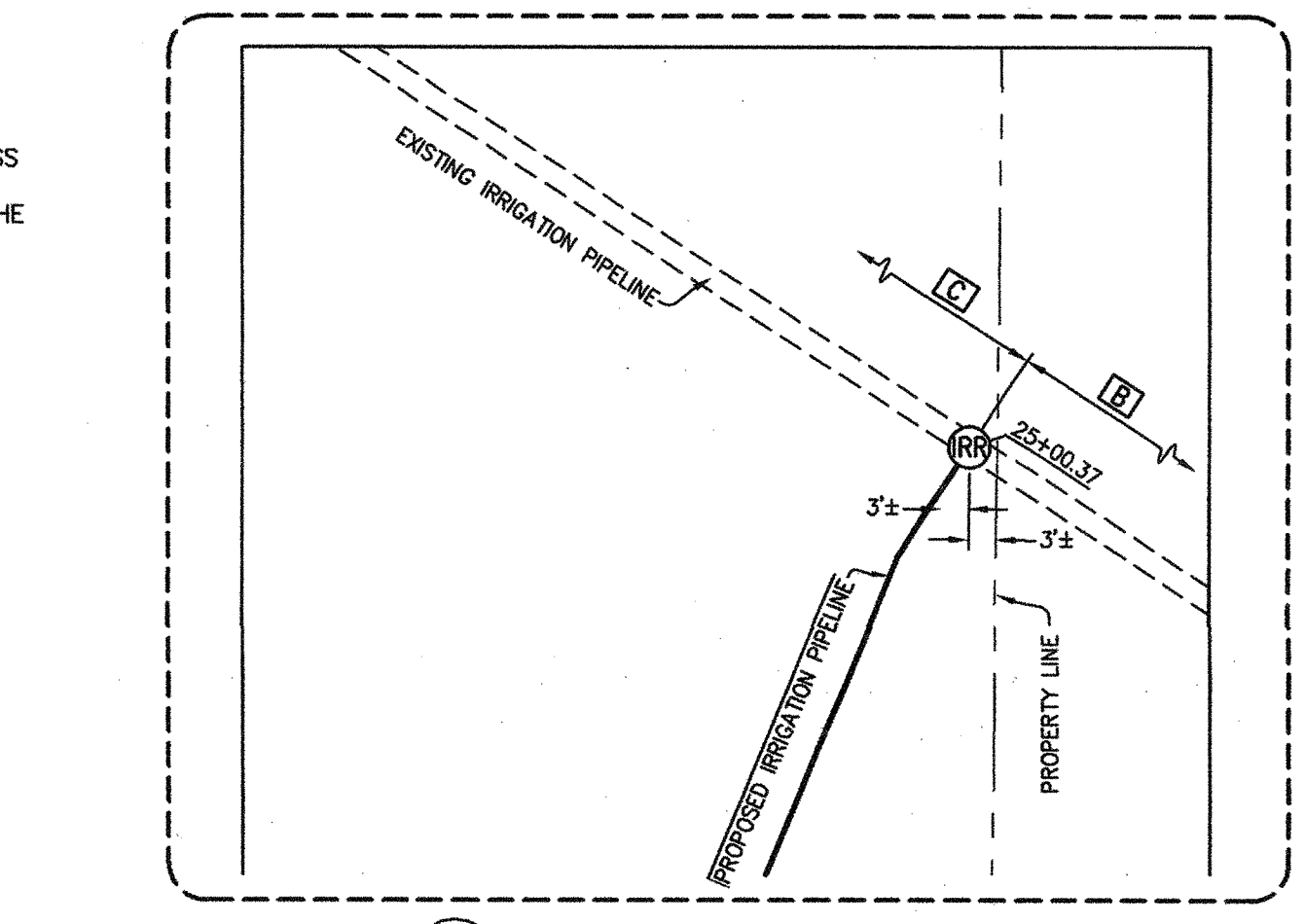
BEING A PORTION OF THE SOUTHEAST QUARTER OF SECTION 5, TOWNSHIP 30 SOUTH, RANGE 28 EAST, MOUNT Diablo Base and Meridian, IN THE CITY OF BAKERSFIELD, COUNTY OF KERN, STATE OF CALIFORNIA.



IRRIGATION PRESSURIZED MANHOLE DETAILS NOT TO SCALE

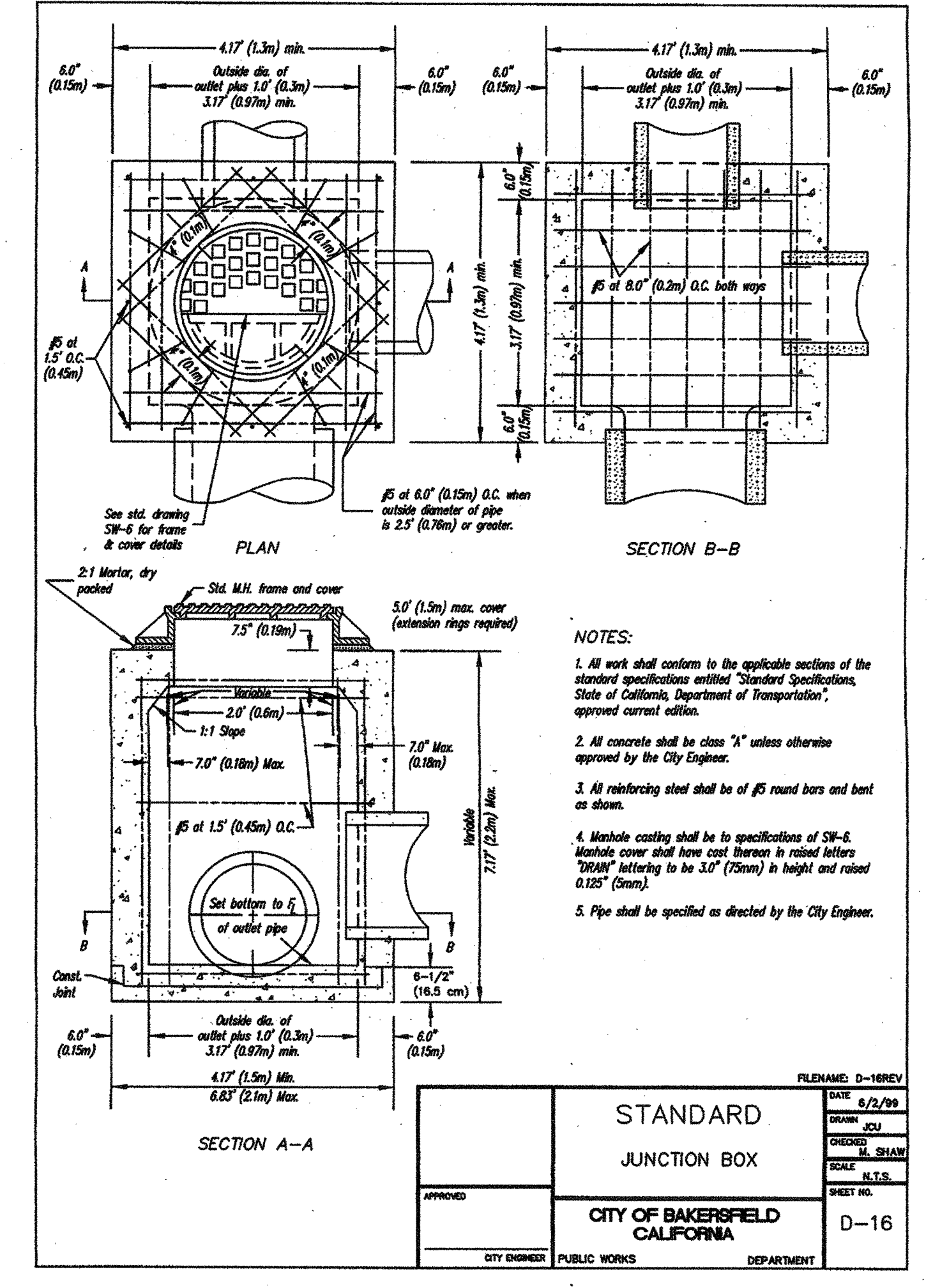


POINT OF CONNECTION DETAIL SCALE 1"=20'



POINT OF CONNECTION DETAIL SCALE 1"=20'

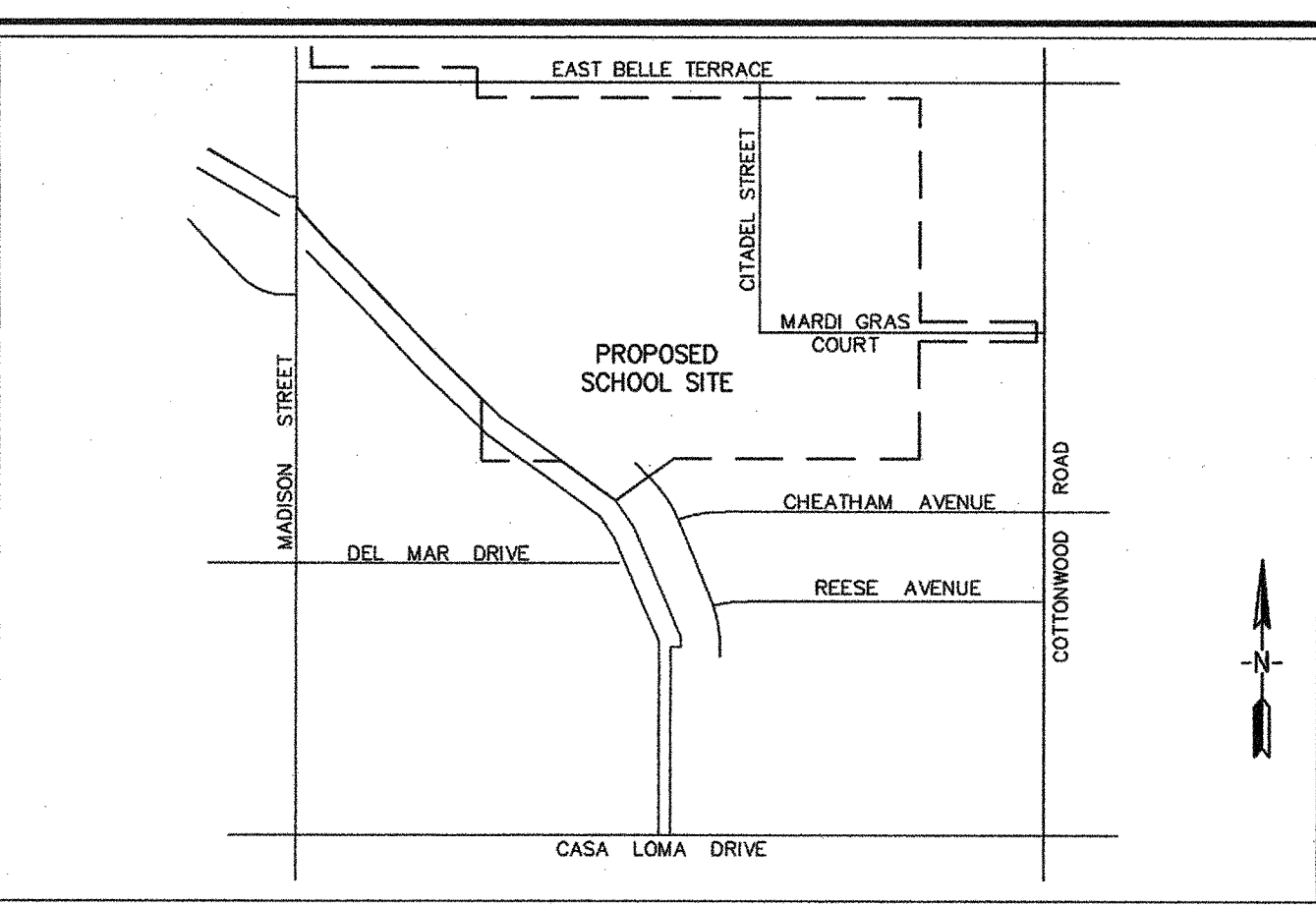
SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL OBTAIN LATEST EDITION



MATERIALS LIST
ESTIMATED QUANTITIES FOR PLAN CHECK AND INSPECTION. CALCULATIONS, NOT TO BE USED FOR BIDDING PURPOSES.

IRRIGATION	QUANTITY	UNIT
15" PVC IRRIGATION PIPELINE	1,500	LF
15" 45' ELL	4	EA
15" 22 1/2' ELL	1	EA
15" 11 1/4' ELL	1	EA
IRRIGATION PIPELINE MANHOLE TIE-IN	2	EA

SPECIAL NOTICE TO CONTRACTOR
EXISTING IRRIGATION LINE LOCATION AND ELEVATIONS HAVE BEEN SHOWN FROM AVAILABLE RECORD INFORMATION. CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND DEPTH FOR POINTS OF CONNECTION AT BOTH ENDS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.



VICINITY MAP NO SCALE

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integrated designs by SOMAM, Inc.
ARCHITECTURE - INTERIOR DESIGN - CONSTRUCTION MANAGEMENT
6011 N. Fresno, Suite 130 - Fresno, California 93710
Phone (509) 430-0881 Fax (509) 430-0887 E-Mail: design@somam.com

IRRIGATION PLANS
GENERAL NOTES - DETAILS
PROJECT NAME & ADDRESS: **NEW ELEMENTARY SCHOOL INCREMENT 2**
BAKERSFIELD CITY SCHOOL DISTRICT
@ CITADEL STREET & MARDI GRAS COURT

Sheet Title: IRRIGATION PLANS
Date: 3/12/2018
Design: LGH
DR: LGH
PC:

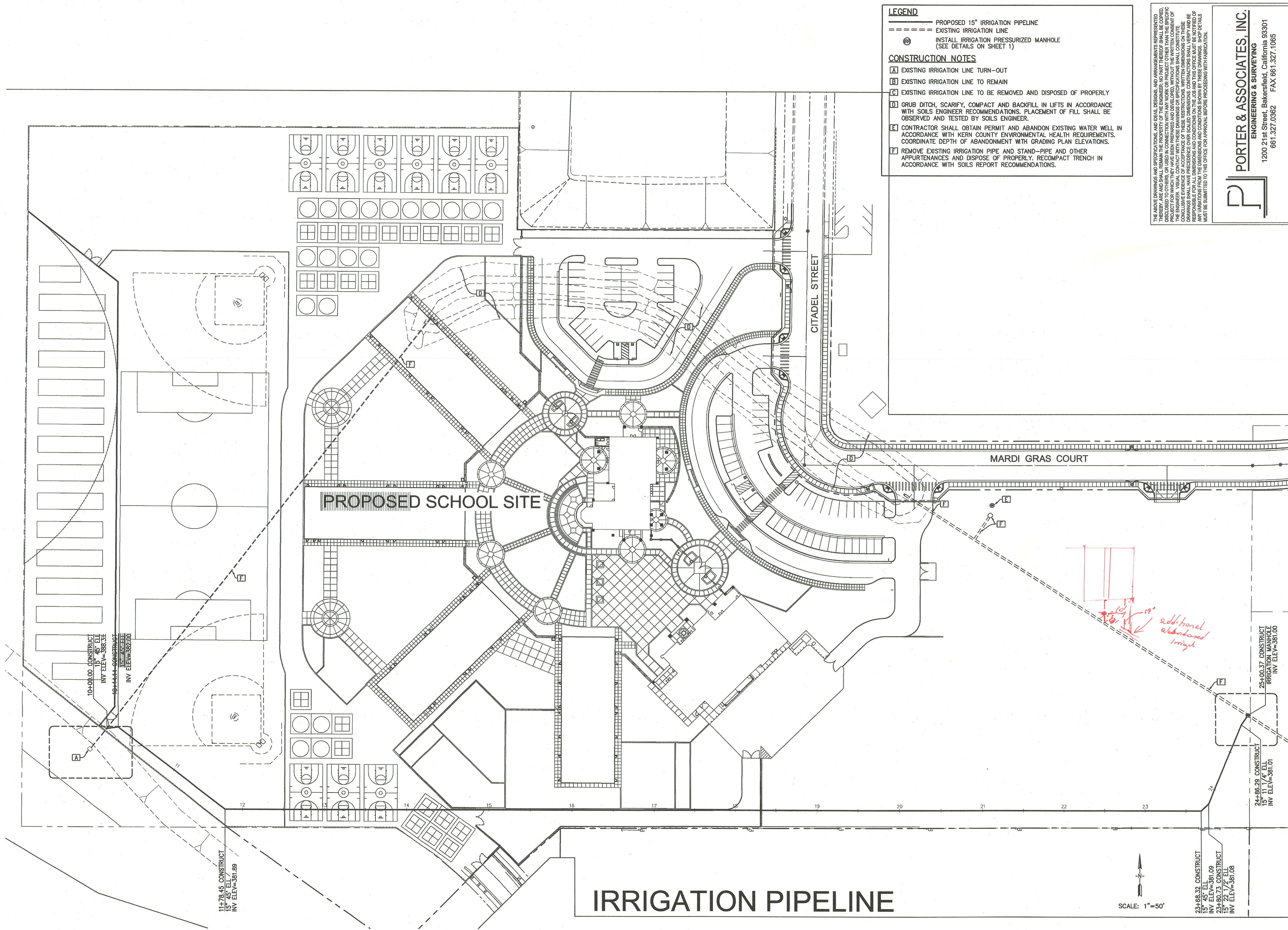
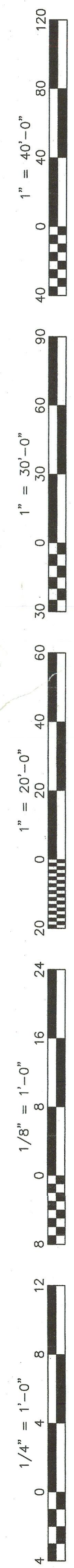
Agency Approval Stamp:
FILE # 15-6
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
03-118394
AC FLS SS
DATE 06-22-18
TRACKING #: 6.3321-300

Stamp: PROFESSIONAL SEAL
STATE OF CALIFORNIA
RCE 74059
CIVIL ENGINEER

Job No.: **5262**

Sheet No.: **C8.01**

Release: NATE SLINKARD



LEGEND

--- PROPOSED 15" IRRIGATION PIPELINE
 - - - - - EXISTING IRRIGATION LINE
 (M) INSTALL IRRIGATION PRESSURIZED MANHOLE (SEE DETAILS ON SHEET 1)

CONSTRUCTION NOTES

(A) EXISTING IRRIGATION LINE TURN-OUT
 (B) EXISTING IRRIGATION LINE TO REMAIN
 (C) EXISTING IRRIGATION LINE TO BE REMOVED AND DISPOSED OF PROPERLY
 (D) GRUB DITCH, SCARIFY, COMPACT AND BACKFILL IN LIFTS IN ACCORDANCE WITH SOILS ENGINEER RECOMMENDATIONS. PLACEMENT OF FILL SHALL BE OBSERVED AND TESTED BY SOILS ENGINEER.
 (E) CONTRACTOR SHALL OBTAIN PERMIT AND ABANDON EXISTING WATER WELL IN ACCORDANCE WITH KERN COUNTY ENVIRONMENTAL HEALTH REQUIREMENTS. COORDINATE DEPTH OF ABANDONMENT WITH GRADING PLAN ELEVATIONS.
 (F) REMOVE EXISTING IRRIGATION PIPE AND STAND-PIPE AND OTHER APPURTENANCES AND DISPOSE OF PROPERLY. RECOMPACT TRENCH IN ACCORDANCE WITH SOILS REPORT RECOMMENDATIONS.

THE ABOVE DRAWINGS AND SPECIFICATIONS, AND IDEAS, DESIGN, AND ARRANGEMENTS REPRESENTED HEREIN, ARE THE PROPERTY OF PORTER & ASSOCIATES, INC. AND ARE NOT TO BE REPRODUCED, COPIED, OR DISCLOSED TO OTHERS, OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED, WITHOUT THE WRITTEN CONSENT OF PORTER & ASSOCIATES, INC. ANY REPRODUCTION OR USE OF THESE DRAWINGS OR SPECIFICATIONS WITHOUT THE WRITTEN CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS, WRITTEN DIMENSIONS ON THESE DRAWINGS, OR THE WRITTEN CONSENT OF PORTER & ASSOCIATES, INC. SHALL BE AT THE USER'S SOLE RISK. PORTER & ASSOCIATES, INC. IS NOT RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DETAILS MUST BE SUBMITTED TO THE OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.

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integrated designs by SOMAM, Inc.
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 8011 N. Fresno, Suite 130 - Fresno, California 93710
 Phone (559) 439-0881 For (559) 439-0887 E-Mail: design@somam.com
 www.integrateddesigns.com

Sheet Title: **IRRIGATION PLANS PLAN VIEW**

Project Name & Address: **NEW ELEMENTARY SCHOOL INCREMENT 2**
 BAKERSFIELD CITY SCHOOL DISTRICT
 @ CITADEL STREET & MARDI GRAS COURT

Issue Date: 3/12/2018
 Designer: LCH
 DFR: LCH
 PC:

Agency Approval Stamp:
 FILE # 15-6
 IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 OFFICE OF REGULATION SERVICES
 03-118394
 AC: [Signature]
 DATE: 03-22-18
 TRACKING #: 63321-300

Stamp(s):
 [Professional Engineer Seal: PRO F. PORTER, CIVIL, STATE OF CALIFORNIA, No. 74059]
 [Licensed Architect Seal: CURTIS E. FLEMING, No. C 39960, State of California]

Job No.: **5262**

Sheet No.: **C8.02**

Release: -

Handwritten note: additional additional imp'd

IRRIGATION PIPELINE

SCALE: 1" = 50'

22+48.20 CONSTRUCT
 15" 11 1/4" ELL
 INV ELEV=381.09

23+40.73 CONSTRUCT
 15" 11 1/4" ELL
 INV ELEV=381.08

24+86.29 CONSTRUCT
 15" 11 1/4" ELL
 INV ELEV=381.01

25+00.37 CONSTRUCT
 IRRIGATION MANHOLE
 INV ELEV=381.00

10+00.00 CONSTRUCT
 15" 45" ELL
 INV ELEV=386.3E

19+44.44 CONSTRUCT
 15" 45" ELL
 INV ELEV=382.6E

11+78.45 CONSTRUCT
 15" 45" ELL
 INV ELEV=381.89